1974

Water Resources Data for North Carolina

Part 1. Surface Water Records

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the North Carolina Department of Natural and Economic Resources and with other State, municipal and Federal agencies

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

NOVEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

DECEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

1974

JANUARY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

FEBRUARY

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

MARCH

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

APRIL

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

MAY

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

JUNE

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

JULY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

AUGUST

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

SEPTEMBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

1974

Water Resources Data for North Carolina

Part 1. Surface Water Records

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Prepared in cooperation with the North Carolina Department of Natural and Economic Resources and with other State, municipal and Federal agencies

Prepared in cooperation with

State Department of Natural and Economic Resources
State Board of Transpoartion
City of Asheville
City of Burlington
City of Charlotte
City of Durham
City of Greensboro
City of Winston-Salem
Corps of Engineers, U. S. Army
Tennessee Valley Authority
Soil Conservation Service, U. S. Department of Agriculture

Water resources records, 1974, for North Carolina are in the following reports of the U. S. Geological Survey:

1. Water Resources Data for North Carolina
   Part 1: Surface Water Records

2. Water Resources Data for North Carolina
   Part 2: Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U. S. Geological Survey
436 Century Station Post Office Building
300 Fayetteville Street
Raleigh, North Carolina 27602

1975

CONTENTS

ILLUSTRATIONS

TABLES

GAGING STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

WATER RESOURCES DATA FOR NORTH CAROLINA, 1974

PART 1. SURFACE-WATER RECORDS

INTRODUCTION

Surface-water records for the 1974 water year for North Carolina, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, are given in this report. The location of gaging stations where a continuous record of discharge is collected is shown in figures 1 and 2. The records were collected and computed by the Water Resources Division of the U. S. Geological Survey under the direction of R. C. Heath, district chief. These data represent that portion of the National Water Data System collected by the U. S. Geological Survey and cooperating State, municipal and Federal agencies in North Carolina.

Through September 30, 1960, the records of discharge and stage of streams and canals and contents and stage of lakes or reservoirs were published in an annual series of U. S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States."

Beginning with the 1961 water year, surface-water records have been released by the Geological Survey in annual reports on a State-boundary basis. Distribution of these reports is limited; they are designed primarily for rapid release of data shortly after the end of the water year to meet local needs. The discharge and reservoir storage records for 1961-65 also are published in a Geological Survey water-supply paper series entitled "Surface Water Supply of the United States 1961-65." There will be a similar series of water-supply papers for the water years 1966-70.

HYDROLOGIC CONDITIONS

Streamflow during the 1974 water year was near normal in the Coastal Plain and eastern Piedmont, but ranged from above normal in the western Piedmont to excessive in the mountain area. Runoff at the three index gaging stations, as compared with the normals, was as follows: Neuse River near Clayton, 90 percent; South Yadkin River near Mocksville, 118 percent; and French Broad River at Asheville, 147 percent.

The 1974 water year began with streamflow deficient in the eastern Piedmont and Coastal Plain and near normal in the mountains and western Piedmont. During the month of October, Chapel Hill and Goldsboro were forced to seek supplemental water supplies when streamflow was not sufficient to meet their needs. Streamflow at the end of November was less than 25 percent of normal monthly flow in the eastern Coastal Plain. A rainy December, with precipitation well above normal, brought an end to deficient streamflow conditions in the eastern Piedmont and Coastal Plain. Scattered heavy showers produced moderate rises on most streams in the State with minor flooding in the upper French Broad River basin on December 25-26. Streamflow conditions continued above normal during January and February in the western portion of the State. Minor flooding occurred again in the upper French Broad River basin on January 1 and February 21-22. Flows generally declined during the first two weeks of March but scattered rains during the latter part of the month returned streamflow to near normal throughout the State. Heavy rains on April 3-5, with accumulation of 2 to 5 inches, caused minor flooding on many streams in the Mountains and western Piedmont.

For portions of eastern North Carolina, May was a record month for precipitation especially for the Raleigh-Durham area which had a total of 7.67 inches compared with the normal of 3.32 inches. Monthly flow at the index stations on the Neuse River near Clayton was almost twice the normal flow; however, no major flooding occurred. Flows generally receded to near-normal levels in June and July, though the eastern part of the State experienced below-normal runoff in July. Near drought conditions which existed in the Coastal Plain during late July were ended by heavy rains in early August. Minor flooding of residential and commercial areas occurred in Durham and Lumberton. Flash flooding of low-lying urban areas occurred in Greensboro and Guilford College on September 1. Streamflow across the State generally receded toward the end of September, and at the end of the water year streams were slightly below normal.

COOPERATION

Cooperative agreements between the U. S. Geological Survey and organizations of the State of North Carolina for the systematic collection of streamflow records began in 1895 and continued through 1909. After a lapse of eight years, the State of North Carolina resumed cooperating in October 1918. Organizations that assisted in collecting data through cooperative agreements with the Survey are:

State Department of Natural and Economic Resources, James E. Harrington, secretary, through the following:
  Division of Environmental Management, Earle C. Hubbard, director;
  Division of Resource Planning and Evaluation, Stephen G. Conrad, director.
State Board of Transportation, Division of Highways, Billy Rose, highway administrator.
City of Asheville, Ernest J. Ward, city manager.
City of Burlington, James D. Mackintosh, Jr., city manager.
City of Charlotte, John M. Belk, mayor.
City of Durham, I. Harding Hughes, Jr., city manager.
City of Greensboro, Tom Z. Osborne, city manager.
City of Winston-Salem, Joe H. Berrier, director of Public Works.

Assistance in the form of funds or services were given by the Corps of Engineers, U. S. Army, in collecting records published herein for 48 gaging stations.

Under a cooperative agreement covering the Tennessee River basin, the Tennessee Valley Authority furnished financial assistance for the operation of 18 gaging stations.

The Soil Conservation Service, U. S. Department of Agriculture furnished financial assistance in operation of 2 stations in North Carolina.

Assistance was also furnished by the National Weather Service, NOAA, U. S. Department of Commerce.

The following organizations aided in collecting records:

Cities of Danville, Va. and Raleigh; American Enka Corp.; Appalachian Power Co.; E. I. du Pont de Nemours and Co., Carolina Power and Light Co.; Champion Paper and Fibre Co.; Duke Power Co.; Federal Paper Board

Co., Inc.; Olin Mathieson Chemical Corp.; The Mead Corp., Sylva Division; Virginia Electric and Power Co.; and Yadkin, Inc.

DEFINITION OF TERMS

Terms related to streamflow and other hydrologic data, as used in this report, are defined below. See also table 1 for converting English units to International Systems of units (SI) on page 15.

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 325,851 gallons.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, or 646,317 gallons, and represents a runoff of 0.0372 inch from 1 square mile.

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 artifical structure, or a uniform cross section over a long reach of the channel.

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

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second, and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

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.

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

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

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

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

Stage-discharge relation is the relation between gage height and the amount of water flowing in a channel, expressed as volume per unit of time.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

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

SPECIAL NETWORKS AND PROGRAMS

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

DOWNSTREAM ORDER AND STATION NUMBERS

Records are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of gaging stations in the front of this report the rank of tribaries is indicated by indention, each idention representing one rank.

As an added means of identification, each gaging station, partial-record station, and miscellaneous site 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, miscellaneous sites, and continuous-record gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of all stations and sites. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 02115850, includes the part number "02" and a 6-digit station number. In this report the complete number 02115850 appears just to the left of the station name. However, the density of miscellaneous sites, for which numbers are shown in this report, make it necessary in some cases to use ten digits in order to indicate the proper downstream order. In this report, the records are listed in downstream order by parts. All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

EXPLANATION OF SURFACE-WATER DATA

Collection and Computation of Data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams, and stage and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that gives a continuous graph of the fluctuations (for digital recorders, a tape punched at 5-, 15-, 30-, or 60-minute intervals) or from direct readings on a nonrecording gage. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks on the measurement of stream discharge. (See also SELECTED REFERENCES.)

For a stream-gaging station rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The application of the daily mean gage heights to the rating table gives the daily mean discharge, from which the monthly and the yearly mean discharge are computed. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

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 determining discharge. Information required for determining 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 determining discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologist, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. Discharge over spillways is computed from a stage-discharge relation curve defined by discharge measurements. The application of the stage to the capacity table gives the contents, from which monthly and yearly change in contents is computed.

During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment. 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.

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 on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparisons with other station records from the same or nearby basins.

The data in this report generally comprise a description of the station and tabulations of basic data. For gaging stations on streams a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the 1972 water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, and general remarks. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the

Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD". The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE". In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. Average runoff in inches is also shown.

The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or the minimum contents) and the minimum gage height if it is significant are given under "EXTREMES". The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year": the data given are for the complete water year unless otherwise specified. In the second paragraph under EXTREMES" headed "Period of record": the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES". Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge or contents, it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS"; for reservoir stations most of this information and information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir are contained in one or two paragraphs.

Previously published 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 or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations 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 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.

The daily tables for stream-gaging stations give the discharge corresponding to the daily mean gage height unless there are large or rapid changes in the discharge during a day. For days having large or rapid changes, discharge for the day is computed by averaging the mean discharge for several parts of a day. For digital recorders, the daily mean discharge is always the average of the discharges at each punched reading. For stations equipped with nonrecording gages, the daily discharge corresponds to once-daily readings of the gage or to the mean of twice-daily readings; but for periods of rapidly changing stage the discharge is determined from a gage-height graph based on gage readings.

The monthly summary is given below the daily table. For stream-gaging stations the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN."). Figures of cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if the average rainfall on the drainage basin is usually less than 20 inches.

In the yearly summary below the monthly summary, the figures following MAX are the maximum daily discharges for the calendar year and water years; likewise, those following MIN are the minimum daily discharges.

For reservoir stations the table gives the water-surface elevation (or gage-height) and contents on the last day of each month, usually at 2400, and the change in contents during the month. The yearly summary gives the change in contents for the calendar year and for the water year.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030 and 1:30 p.m. is 1330.

In a general footnote, introduced by the word "NOTE" certain periods are indicated for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The method used in computing discharge for various unusual conditions have been explained in preceding paragraphs. Footnotes to reservoir tables may be used to explain the basis of elevation and contents figures or for other special conditions.

Accuracy of Data

The accuracy of discharge data 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 observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than fair accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. With some exceptions, the same rounding rules apply to discharge figures 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, consumptive use, regulation, evaporation, or other factors. For such stations, discharge in cubic feet per second per square mile and runoff in inches are not published unless satisfactory adjustments can be made for such effects. If the effects of regulation upon the monthly mean discharge are considered small or if figures of diversion are given (see REMARKS), the monthly and annual discharge summary data including cubic feet per second per square mile and runoff in inches are published with no adjustments made. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or unadjusted losses (consumptive use, evaporation, seepage, etc.) are large in comparisons with the observed discharge.

Publications

Each volume of the 1960 series of U. S. Geological Survey water-supply papers entitled "Surface Water Supply of the United States" contains a listing of the numbers of all water-supply papers in which records of surface-water data were published for the area covered by the individual volumes. Each volume also contains a list of water-supply papers that give detailed information on major floods for the area. A new series of water-supply papers containing surface-water records for the 5-year period October 1, 1960, to September 30, 1965, also includes lists of annual and special reports published as water-supply papers.

Records through September 1950 for the area covered by this report have been compiled and published in Water-Supply Papers 1303 (2A), 1305 (3A), and 1306 (3B); records for October 1950 to September 1960 have been compiled and published in Water-Supply Papers 1723 (2A), 1725 (3A), and 1726 (3B). These reports contain summaries of monthly and annual discharge and month-end storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other Data Available

Data collected at partial-record stations and at miscellaneous sites are given in three tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

More detailed information than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Many gaging-station records in North Carolina through 1968 have been analyzed to give several statistical summaries: (1) the number of days in each year that the daily discharge was between selected limits (duration tables); (2) the lowest mean discharge for selected numbers of consecutive days in each year; and (3) the highest mean discharge for selected numbers of consecutive days in each year. Rainfall records are collected at several gaging stations for use in special studies, but are not routinely published. Reference is made to the rain gage under "REMARKS". These rainfall data are on file in the district office.

At or near some gaging stations, water-quality records also are collected. Data are obtained on the chemical quality of the stream water, on the water temperature, and on the sediment. These data are given in Part 2 of this report. Under the "REMARKS" paragraph of the gaging-station description, reference is made to water-quality records collected on a regular basis.

DISCHARGE RECORDS COLLECTED BY OTHER AGENCIES

Records of discharge not published by the Geological Survey were collected in North Carolina at 21 sites during the 1973 water year by the following agencies: Records at 17 sites were collected by the U. S. Department of Agriculture, Coweeta Hydrologic Laboratory; at 1 site by the Tennessee Valley Authority; and at 3 sites by the U. S. Department of Agriculture, Forest Service. The office of Water Data Coordination, Water Resources Division, U. S. Geological Survey, Washington, D. C. 20244, maintains an index of these sites. Information on records of specific sites can be obtained from that office upon request.

SELECTED REFERENCES

Carter, R. W., and Davidian, Jacob, 1968, General procedure for gaging streams; U. S. Geol. Survey Techniques Water-Resources Inv., book 3, Chap. A6, 13 p.

Corbett, D. M., and others, 1943, Stream-gaging procedure, a manual describing methods and practices of the Geological Survey: U. S. Geol. Survey Water-Supply Paper 888, 245 p.

Langbien, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U. S. Geol. Survey Water-Supply Paper 1541-A, 29p.

Table 1.--Factors for converting English units to International System (SI) units

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches(m)	25.4	millimetres(mm)
feet(ft)	.3048	metres(m)
miles(mi)	1.609	kilometres(km)
	Area	
acres	4047	square metres(m^2)
	.4047	*hectares(ha)
	.4047	square hectometres(hm^2)
	.004047	square kilometres(km^2)
square miles(mi^2)	2.590	square kilometres(km^2)
	Volume	
gallons(gal)	3.785	**litres(l)
	3.785	cubic decimetres(dm^3)
	3.785×10^{-3}	cubic metres(m^3)
million gallons(10^6 gal)	3785	cubic metres(m^3)
	3.785×10^{-3}	cubic hectometres(hm^3)
cubic feet(ft^3)	28.32	cubic decimetres(dm^3)
	.02832	cubic metres(m^3)
cfs-days [(ft^3/s) d]	2447	cubic metres(m^3)
	2.447×10^{-3}	cubic hectometres(hm^3)
acre-feet(acre-ft)	1233	cubic metres(m^3)
	1.233×10^{-3}	cubic hectometres(hm^3)
	1.233×10^{-6}	cubic kilometres(km^3)
	Flow	
cubic feet per second(ft^3/s)	28.32	litres per second(l/s)
	28.32	cubic decimetres per second(dm^3/s)
	.02832	cubic metres per second(m^3/s)
gallons per minute(gpm)	.06309	litres per second(l/s)
	.06309	cubic decimetres per second(dm^3/s)
	6.309×10^{-5}	cubic metres per second(m^3/s)
million gallons per day(mgd)	43.81	cubic decimetres per second(dm^3/s)
	.04381	cubic metres per second(m^3/s)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p. 15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

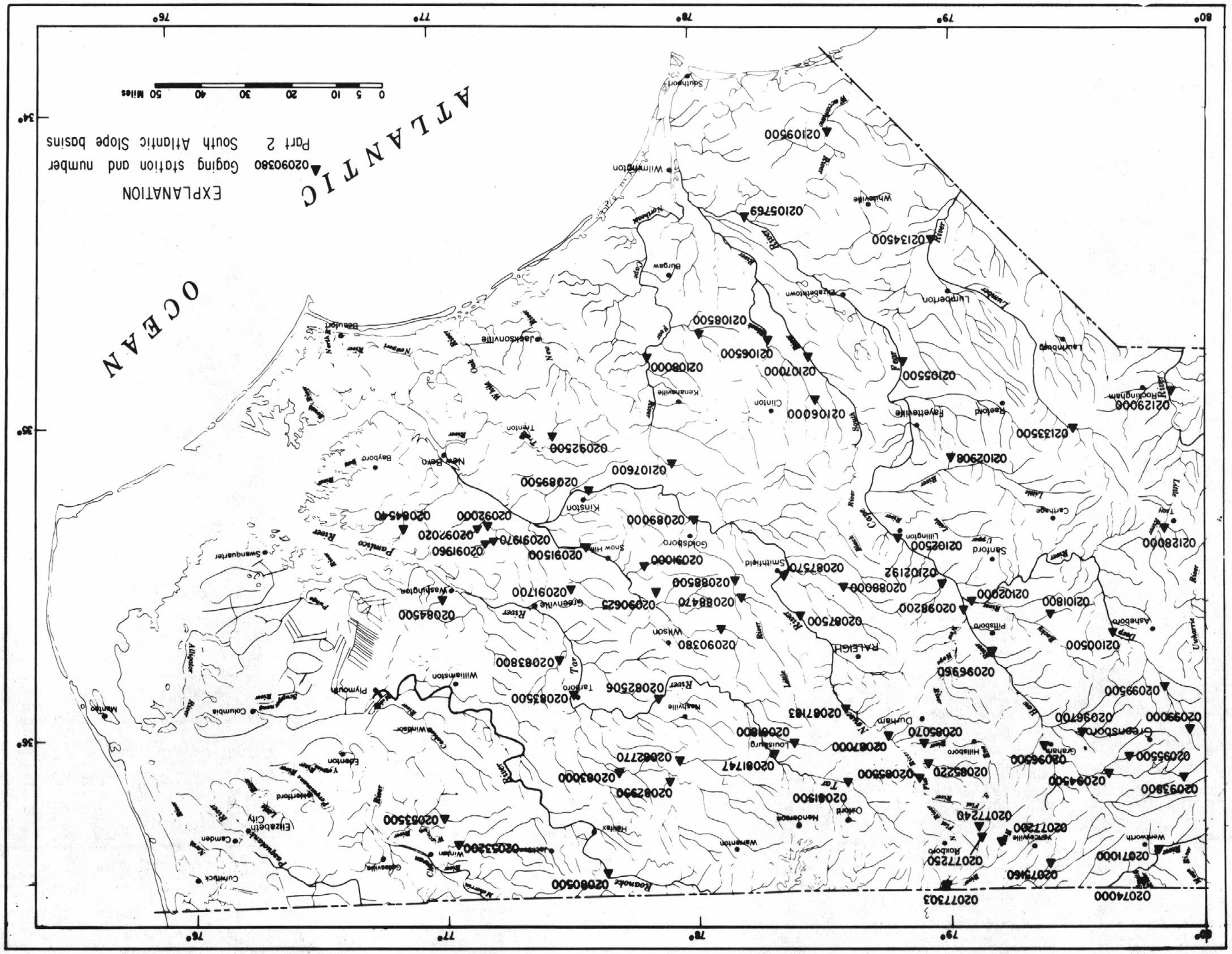

Figure 1. Map of eastern part of North Carolina showing location of gaging stations.

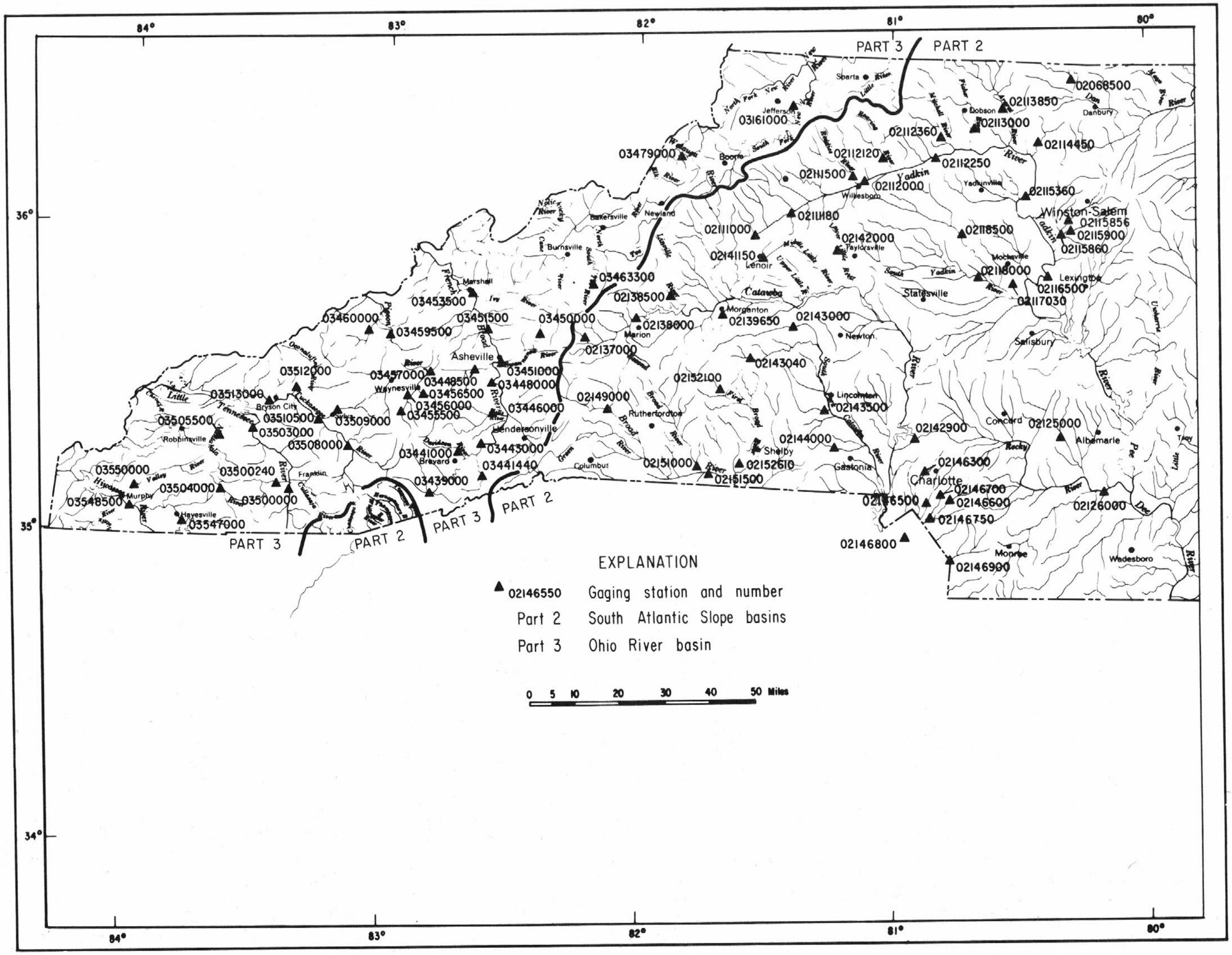

Figure 2. Map of western part of North Carolina showing location of gaging stations.

SOUTH ATLANTIC SLOPE BASINS

CHOWAN RIVER BASIN

02053200 Potecasi Creek near Union, N. C.

LOCATION.--Lat 36°22'14", long 77°01'36", Hertford County, on right bank at downstream side of bridge on Secondary Road 1168, 2.8 mi (4.5 km) north of Union, 3 mi (4.8 km) downstream from Cutawhiskie Swamp, and 3.5 mi (5.6 km) upstream from Bells Branch.

DRAINAGE AREA.--191 mi^2 (495 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1953-57. March 1958 to current year.

GAGE.--Water-stage recorder. Altitude of gage is about mean sea level (by barometer). Prior to Dec. 1, 1958, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--16 years, 235 ft^3/s (6.655 m^3/s), 16.71 in/yr (424 mm/yr).

EXTREMES.--Current year: Maximum discharge, 984 ft^3/s (27.9 m^3/s) Dec. 24 (gage height, 10.12 ft or 3.085 m); minimum, 3.7 ft^3/s (0.10 m^3/s) July 23 (gage height, 1.52 ft or 0.463 m).

Period of record: Maximum discharge, 4,050 ft^3/s (115 m^3/s) May 10, 1958 (gage height, 19.12 ft or 5.828 m); minimum, 0.2 ft^3/s (0.006 m^3/s) July 1, 1959.

Flood in 1929 reached a stage of 19.1 ft (5.82 m), discharge, 4,050 ft^3/s (115 m^3/s), and flood of August 1940 reached a stage of 24.1 ft (7.35 m), discharge, 7,000 ft^3/s (198 m^3/s) from rating curve extended above 4,000 ft^3/s (113 m^3/s), from information furnished by North Carolina State Highway Commission.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	9.4	22	394	788	367	868	25	292	9.6	8.0	39
2	9.0	9.4	19	421	689	296	767	28	242	7.6	10	26
3	8.0	10	17	407	586	241	675	56	190	6.8	109	20
4	7.4	11	16	463	499	202	590	53	138	6.3	220	18
5	6.8	14	16	583	426	173	699	45	97	5.9	267	22
6	6.4	14	16	569	348	153	942	96	70	6.6	279	50
7	6.1	13	16	520	296	138	769	128	53	15	533	140
8	6.1	13	21	530	277	127	556	113	44	18	832	155
9	6.4	14	108	521	297	117	520	117	38	10	785	155
10	6.4	14	177	724	283	108	517	126	32	7.4	716	145
11	6.1	11	138	739	251	100	425	120	26	6.3	597	140
12	5.8	11	106	689	235	107	324	107	21	5.6	430	128
13	5.6	11	117	641	219	167	261	95	18	5.0	270	106
14	5.4	11	158	570	203	208	264	76	15	4.7	170	82
15	5.4	12	177	484	190	184	249	57	13	4.5	119	60
16	5.0	12	195	400	195	209	199	46	11	4.4	84	44
17	4.8	12	445	329	657	562	160	39	12	4.4	66	34
18	4.8	12	544	272	913	692	135	36	13	4.2	61	28
19	5.0	12	454	231	849	566	117	125	12	4.1	75	24
20	5.2	12	451	202	919	497	102	280	10	4.0	284	20
21	5.3	12	614	186	901	476	88	228	9.5	3.8	173	17
22	6.1	13	862	201	807	465	76	118	9.4	4.0	144	28
23	5.9	13	926	205	911	415	68	89	8.1	3.8	194	91
24	5.3	14	975	186	836	361	61	123	9.4	3.8	203	72
25	5.3	14	882	249	707	339	53	139	8.8	5.9	181	48
26	5.4	14	722	539	617	352	46	118	8.6	35	171	42
27	5.2	15	570	641	530	458	41	263	9.5	42	164	33
28	5.0	17	433	659	447	473	36	535	11	38	122	27
29	7.8	26	330	841	------	423	32	409	11	20	88	28
30	8.4	25	265	917	------	658	29	321	10	10	74	26
31	9.0	------	264	860	------	895	------	322	------	9.2	66	------
TOTAL	192.2	400.8	10,056	15,173	14,876	10,529	9,669	4,433	1,442.3	315.9	7,495.0	1,848
MEAN	6.20	13.4	324	489	531	340	322	143	48.1	10.2	242	61.6
MAX	9.0	26	975	917	919	895	942	535	292	42	832	155
MIN	4.8	9.4	16	186	190	100	29	25	8.1	3.8	8.0	17
CFSM	.03	.07	1.70	2.56	2.78	1.78	1.69	.75	.25	.05	1.27	.32
IN.	.04	.08	1.96	2.96	2.90	2.05	1.88	.86	.28	.06	1.46	.36

CAL YR 1973 TOTAL 102,129.2 MEAN 280 MAX 1,960 MIN 4.8 CFSM 1.47 IN 19.89
WTR YR 1974 TOTAL 76,430.2 MEAN 209 MAX 975 MIN 3.8 CFSM 1.09 IN 14.89

02053500 Ahoskie Creek at Ahoskie, N. C.

LOCATION.--Lat 36°16'50", long 77°00'00", Hertford County, on right bank 10 ft (3 m) downstream from bridge on State Highway 350, 0.5 mi (0.8 km) upstream from Seaboard Coast Line Railroad bridge, and 0.8 mi (1.3 km) southwest of Ahoskie.

DRAINAGE AREA.--57 mi^2 (148 km^2), approximately.

PERIOD OF RECORD.--January 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 17.46 ft (5.322 m) above mean sea level (Soil Conservation Service bench mark). Prior to Jan. 4, 1963, at present site at datum 4.00 ft (1.219 m) higher. Jan. 20, 1950, to May 24, 1951, nonrecording gage.

AVERAGE DISCHARGE.--24 years, 65.4 ft^3/s (1.852 m^3/s), 15.58 in/yr (396 mm/yr).

EXTREMES.--Current year: Maximum discharge, 744 ft^3/s (21.1 m^3/s) Feb. 17 (gage height, 8.26 ft or 2.518 m); minimum, 3.5 ft^3/s (0.099 m^3/s) July 31; minimum gage height, 0.86 ft or 0.262 m several days in October and November.

Period of record: Maximum discharge, 2,580 ft^3/s (73.1 m^3/s) Oct. 5, 1964 (gage height, 10.72 ft or 3.267 m); no flow at times during most years prior to canalization; minimum since canalization, 1.8 ft^3/s (0.051 m^3/s) June 17, 1967.

Flood of August 1940 reached a stage of 15.1 ft (4.60 m), present datum, from floodmark witnessed by local resident (discharge not determined).

REMARKS.--Records good except those for period Oct. 1 to Dec. 7, which are fair. Entire basin above station canalized since July 1964. Excavation begun downstream in July 1962 and reached the station in December 1962.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	5.5	7.6	125	105	54	233	13	27	7.2	4.7	8.8
2	7.8	5.0	7.0	101	80	46	141	17	21	6.9	7.8	7.8
3	6.9	4.5	6.7	80	80	39	96	24	18	6.4	5.5	7.1
4	5.2	4.5	6.4	112	90	35	122	17	15	5.8	16	6.6
5	5.0	6.4	6.2	139	76	31	560	17	13	7.8	69	6.6
6	4.5	6.6	6.0	97	60	28	623	34	11	15	26	10
7	4.6	6.4	5.8	105	55	27	281	32	11	31	41	54
8	4.7	6.1	12	117	64	24	155	22	10	10	46	68
9	4.8	5.8	78	184	78	22	154	25	9.6	7.5	39	50
10	4.9	5.5	30	285	62	21	128	39	9.0	6.9	37	29
11	4.7	5.0	18	165	51	20	88	27	8.3	6.9	22	19
12	4.5	4.7	14	114	43	25	68	21	8.0	6.1	13	14
13	4.2	4.5	14	81	37	78	94	20	7.7	5.8	9.5	12
14	4.1	4.2	23	64	33	68	188	18	7.5	5.8	7.8	9.5
15	4.0	4.0	19	54	32	50	112	15	7.5	5.5	6.6	8.4
16	3.9	4.0	56	47	101	94	72	13	7.3	5.2	6.0	7.6
17	3.8	4.0	241	42	723	466	50	12	8.3	5.2	5.4	7.7
18	3.8	4.0	110	36	466	237	39	11	7.5	5.2	5.2	7.7
19	3.9	4.1	63	35	261	136	32	28	7.2	5.0	76	7.0
20	4.2	4.4	49	33	313	105	28	28	6.9	4.7	169	7.1
21	4.1	4.7	293	43	186	97	24	19	6.8	4.5	100	6.8
22	4.0	5.0	190	72	268	95	22	14	6.3	4.2	193	23
23	4.2	5.5	98	58	439	73	20	17	7.1	4.0	137	22
24	4.7	6.0	69	49	214	95	19	24	12	4.0	91	14
25	6.1	6.5	52	309	138	92	18	21	9.6	4.5	47	11
26	6.4	7.0	43	417	98	160	16	20	7.3	6.4	26	9.2
27	6.9	7.8	38	332	76	249	16	199	7.4	12	18	8.6
28	7.8	8.6	34	264	63	170	14	154	7.7	6.6	14	7.9
29	8.0	8.2	30	369	------	138	14	75	7.8	5.0	12	7.6
30	6.4	7.8	27	231	------	516	13	45	7.5	4.0	10	7.1
31	6.1	------	98	148	------	434	------	34	------	3.5	9.3	------
TOTAL	160.6	166.3	1,744.7	4,308	4,292	3,725	3,440	1,055	300.3	218.6	1,269.8	465.1
MEAN	5.18	5.54	56.3	139	153	120	115	34.0	10.0	7.05	41.0	15.5
MAX	8.0	8.6	293	417	723	516	623	199	27	31	193	68
MIN	3.8	4.0	5.8	33	32	20	13	11	6.3	3.5	4.7	6.6
CFSM	.09	.10	.99	2.44	2.68	2.11	2.02	.60	.18	.12	.72	.27
IN.	.10	.11	1.14	2.81	2.80	2.43	2.25	.69	.20	.14	.83	.30

CAL YR 1973 TOTAL 22,822.8 MEAN 62.5 MAX 822 MIN 3.8 CFSM 1.10 IN 14.89
WTR YR 1974 TOTAL 21,145.4 MEAN 57.9 MAX 723 MIN 3.5 CFSM 1.02 IN 13.80

PEAK DISCHARGE (BASE, 720 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-17	0700	8.26	744	4- 5	1900	8.18	733

Note.--Records computed from twice weekly observer readings Oct. 1 to Dec. 7.

02068500 Dan River near Francisco, N. C.

LOCATION.--Lat 36°30'53", long 80°18'11", Stokes County, on left bank 200 ft (61 m) upstream from bridge on State Highway 704, 700 ft (213 m) downstream from Georges Mill, 0.2 mi (0.3 km) downstream from Elk Creek, 3 mi (5 km) east of Francisco, and 7.9 mi (12.7 km) downstream from Little Dan River.

DRAINAGE AREA.--124 mi^2 (321 km^2).

PERIOD OF RECORD.--August 1924 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder. Altitude of gage is 830 ft or 253 m (from topographic map). Prior to Nov. 15, 1929, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--50 years, 188 ft^3/s (5.324 m^3/s), 20.59 in/yr (523 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 7,730 ft^3/s (219 m^3/s) Apr. 4 (gage height, 9.48 ft or 2.890 m); minimum, 63 ft^3/s (1.78 m^3/s) Nov. 11, 12, 15; minimum gage height, 1.35 (0.411 m) Nov. 19; minimum daily, 81 ft^3/s (2.29 m^3/s) Nov. 11.

Period of record: Maximum discharge, 12,400 ft^3/s (351 m^3/s) Oct. 19, 1937 (gage height, 12.45 or 3.795 m); minimum, 7.1 ft^3/s (0.20 m^3/s) Sept. 8, 1932 (gage height, 0.43 or 0.131 m); minimum daily, 28 ft^3/s (0.79 m^3/s) Aug. 17, 18, 1963, Sept. 12, 1966.

Flood in 1916 reached a stage of about 15 ft (4.6 m), from information by local residents (discharge, 16,000 ft^3/s or 453 m^3/s).

REMARKS.--Records good. Considerable diurnal fluctuation and regulation from mills and powerplants above station. Talbott and Townes reservoirs above Pinnacles Hydroelectric Plant in Virginia, 28 mi (45 km) above station, were completed in 1938 (see p. 134).

REVISIONS (WATER YEARS).--WSP 892: Drainage area. WSP 1303: 1938-50 (monthly runoff). WSP 1433: 1925-26, 1928-29, 1931, 1942, 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	153	110	645	288	235	255	266	487	176	117	119
2	256	138	110	490	262	241	275	231	384	221	193	162
3	178	120	129	451	292	202	269	245	289	206	257	173
4	183	85	129	461	306	233	3,620	217	239	200	302	237
5	173	104	521	442	298	231	1,910	180	224	164	258	128
6	136	160	307	292	312	260	765	229	222	223	166	709
7	92	143	175	270	314	258	464	204	206	354	147	550
8	95	136	145	259	343	241	418	198	201	174	206	266
9	153	106	375	318	319	218	441	338	173	205	220	165
10	133	92	253	322	264	196	378	265	228	193	182	141
11	122	81	211	299	275	230	359	209	213	183	152	469
12	104	88	214	259	269	297	343	329	160	132	141	238
13	102	116	211	247	234	297	339	388	164	120	170	225
14	95	102	206	266	195	266	308	309	163	118	201	197
15	93	101	175	241	204	249	277	308	170	115	197	125
16	104	118	200	183	278	238	293	294	198	159	200	136
17	104	108	223	175	279	225	304	276	165	125	163	170
18	106	116	220	229	252	228	298	263	169	116	163	168
19	108	95	206	235	267	238	289	220	175	151	125	155
20	108	106	406	181	234	248	273	160	231	114	136	154
21	95	129	880	1,070	222	507	234	174	214	113	159	146
22	95	133	415	451	284	319	240	185	178	113	150	110
23	97	99	334	401	282	238	314	252	151	113	127	112
24	99	101	270	375	216	214	273	269	143	123	132	140
25	106	99	247	384	236	225	267	261	155	122	116	101
26	104	93	916	397	287	257	258	192	181	118	129	143
27	102	124	880	442	278	198	240	288	200	216	213	106
28	101	143	531	388	262	178	210	294	197	154	182	118
29	148	138	451	338	------	210	227	306	195	128	195	113
30	131	129	433	295	------	445	253	285	171	177	208	102
31	122	------	552	299	------	279	------	261	------	144	121	------
TOTAL	3,785	3,461	10,435	11,105	7,552	7,901	14,394	7,896	6,246	4,970	5,428	5,878
MEAN	122	115	337	358	270	255	480	255	208	160	175	196
MAX	256	160	916	1,070	343	507	3,620	388	487	354	302	709
MIN	92	81	110	175	195	178	210	160	143	113	116	101
(†)	-3	-1	+18	-13	+3	-12	+5	-3	+8	-10	-9	+21

CAL YR 1973 TOTAL 98,507 MEAN 270 MAX 2,200 MIN 81 MEAN‡ 271 CFSM‡ 2.19 IN‡ 29.67
WTR YR 1974 TOTAL 89,051 MEAN 244 MAX 3,620 MIN 81 MEAN‡ 244 CFSM‡ 1.97 IN‡ 26.71

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	1930	4.72	2,180	6- 1	0100	4.62	2,090
1-21	1030	4.55	2,020	9- 6	2100	4.66	2,120
4- 4	1530	9.48	7,730				

† Change in contents, equivalent in cubic feet per second, in Talbott and Townes Reservoirs furnished by city of Danville, Va

‡ Adjusted for change in contents.

ROANOKE RIVER BASIN

02071000 Dan River near Wentworth, N. C.

LOCATION.--Lat 36°24'47", long 79°49'45", Rockingham County, on right bank 600 ft (183 m) downstream from Settles Bridge on Secondary Road 2150, 3.5 mi (5.6 km) northwest of Wentworth, 7.5 mi (12.1 km) downstream from Mayo River, and 103.7 mi (166.9 km) upstream from mouth.

DRAINAGE AREA.--1,050 mi^2 (2,720 km^2), approximately.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October 1939, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 512.98 ft (156.356 m) above mean sea level. Prior to Aug. 3, 1949, water-stage recorder at site 150 ft (46 m) upstream at same datum.

AVERAGE DISCHARGE.--35 years, 1,206 ft^3/s (34.15 m^3/s), 15.60 in/yr (396 mm/yr).

EXTREMES.--Current year: Maximum discharge, 19,300 ft^3/s (547 m^3/s) Apr. 5 (gage height, 21.09 ft or 6.428 m); minimum, 512 ft^3/s (14.5 m^3/s) Oct. 7; minimum gage height, 1.85 ft (0.564 m) Aug. 2; minimum daily, 536 ft^3/s (15.2 m^3/s) Oct. 23.

Period of record: Maximum discharge, 54,200 ft^3/s (153 m^3/s) June 22, 1972 (gage height, 31.60 ft or 9.632 m from high-water mark in well); minimum, 65 ft^3/s (1.84 m^3/s) Oct. 8, 1954 (gage height, 0.93 ft or 0.283 m); minimum daily, 107 ft^3/s (3.03 m^3/s) Oct. 2, 1954.

Flood in 1908 reached a stage of 34.9 ft (10.64 m), from information by North Carolina State Highway Commission, and flood in 1937 reached a stage of 29.8 ft (9.08 m), from information by local resident.

REMARKS.--Records good. Diurnal fluctuation and regulation at low flow caused by mills and Talbott and Townes reservoirs. (See p. 134).

REVISIONS (WATER YEARS).--WRD N. C. 1972: 1945(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	648	782	822	5,640	1,720	1,310	2,330	1,300	3,520	870	585	842
2	2,020	803	757	3,370	1,610	1,260	1,850	1,320	2,420	817	555	869
3	1,790	750	724	2,470	1,640	1,240	1,700	1,430	2,500	841	685	1,260
4	1,010	719	723	2,340	1,800	1,180	4,710	1,380	1,690	806	2,080	1,520
5	879	710	883	2,350	1,590	1,160	17,800	1,300	1,380	789	6,950	1,240
6	766	767	2,730	2,000	1,540	1,160	10,900	1,620	1,280	947	3,820	3,410
7	670	778	1,370	1,750	2,760	1,140	3,710	1,420	1,250	6,420	2,840	13,300
8	620	697	1,050	1,660	3,260	1,110	2,870	1,260	1,170	1,860	1,770	3,380
9	681	690	4,860	1,730	3,280	1,060	3,650	1,820	1,130	1,170	1,990	2,020
10	766	645	3,320	2,240	2,210	1,030	2,730	2,100	1,070	1,030	2,510	1,440
11	700	615	1,690	1,830	1,840	990	2,340	1,600	1,160	928	1,570	1,340
12	658	605	1,280	1,700	1,650	1,090	2,130	1,560	1,070	871	1,130	1,530
13	626	610	1,200	1,450	1,540	1,300	2,090	3,620	958	789	1,020	1,160
14	608	655	1,510	1,340	1,450	1,200	2,120	2,060	945	727	961	1,060
15	595	638	1,260	1,320	1,390	1,090	1,940	1,640	1,010	698	932	983
16	576	652	1,320	1,180	1,430	1,100	1,770	1,480	1,130	669	892	885
17	571	636	1,560	1,090	1,990	1,190	1,670	1,380	1,180	685	966	945
18	543	607	1,360	1,040	1,970	1,070	2,820	1,300	992	645	914	1,050
19	545	617	1,180	1,060	1,780	1,040	2,020	1,430	940	629	850	864
20	554	608	1,850	1,060	1,900	1,170	1,740	2,640	899	656	818	774
21	559	617	13,800	7,780	1,620	2,940	1,620	2,040	1,170	607	830	738
22	538	754	8,580	9,670	1,680	4,340	1,530	1,480	1,070	588	820	715
23	536	748	3,060	3,210	2,030	2,170	1,900	1,590	945	581	774	660
24	545	654	2,310	2,450	1,680	1,700	1,930	2,130	853	595	787	628
25	538	640	1,890	2,520	1,500	1,480	1,600	1,690	807	639	843	667
26	544	640	1,580	2,540	1,400	1,390	1,510	1,530	844	641	807	630
27	541	690	4,200	3,290	1,380	1,370	1,450	2,000	858	950	806	657
28	543	955	2,660	3,090	1,350	1,240	1,380	2,020	929	1,020	865	673
29	1,210	1,400	1,990	2,880	------	1,260	1,320	1,620	1,070	717	811	716
30	1,060	950	1,870	2,230	------	3,590	1,310	1,360	1,010	637	901	650
31	801	------	2,020	1,880	------	3,920	------	1,310	------	632	978	------
TOTAL	23,241	21,632	75,409	80,160	50,990	48,290	88,440	52,430	37,250	30,454	43,060	46,606
MEAN	750	721	2,433	2,586	1,821	1,558	2,948	1,691	1,242	982	1,389	1,554
MAX	2,020	1,400	13,800	9,670	3,280	4,340	17,800	3,620	3,520	6,420	6,950	13,300
MIN	536	605	723	1,040	1,350	990	1,310	1,260	807	581	555	628
CFSM	.71	.69	2.32	2.46	1.73	1.48	2.81	1.61	1.18	.94	1.32	1.48
IN.	.82	.77	2.67	2.84	1.81	1.71	3.13	1.86	1.32	1.08	1.53	1.65

CAL YR 1973 TOTAL 601,109 MEAN 1,647 MAX 14,100 MIN 536 CFSM 1.57 IN 21.30
WTR YR 1974 TOTAL 597,962 MEAN 1,638 MAX 17,800 MIN 536 CFSM 1.56 IN 21.18

PEAK DISCHARGE (BASE, 12,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	2200	19.56	16,800	4- 5	1600	21.09	19,300
1-22	0330	18.91	15,900	9- 7	1300	19.07	16,100

02074000 Smith River at Eden, N. C.

LOCATION.--Lat 36°31'31", long 79°45'57", Rockingham County, on right bank at Eden, 0.3 mi (0.5 km) downstream from bridge on State Highway 14, 0.8 mi (1.3 km) upstream from bridge on Secondary Road 1714, 1.2 mi (1.9 km) south of Virginia-North Carolina State line, 1.3 mi (2.1 km) downstream from Stuart Creek, and 3.9 mi (6.3 km) upstream from mouth.

DRAINAGE AREA.--538 mi^2 (1,393 km^2).

PERIOD OF RECORD.--October 1939 to current year. Prior to October 1970 published as "at Spray".

GAGE.--Water-stage recorder. Datum of gage is 539.56 ft (164.458 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 609 ft^3/s (17.25 m^3/s), 15.37 in/yr (390 mm/yr) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 11,700 ft^3/s (331 m^3/s) Apr. 4 (gage height, 10.83 ft or 3.301 m); minimum, 130 ft^3/s (3.68 m^3/s) Oct. 22 (gage height, 1.66 ft or 0.506 m); minimum daily 204 ft^3/s (5.78 m^3/s) Dec. 3.

Period of record: Maximum discharge, 45,600 ft^3/s (1,290 m^3/s) Aug. 15, 1940 (gage height, 19.28 ft or 5.877 m), from rating curve extended above 12,000 ft^3/s (340 m^3/s) on basis of computation of peak flow over dam 1.5 mi (2.4 km) downstream; minimum, 38 ft^3/s (1.08 m^3/s) Aug. 7, 1967; minimum daily, 46 ft^3/s (1.30 m^3/s) Aug. 14, 1967.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Flow regulated since August 1950 by Philpott Lake 40 mi (64 km) upstream (usable capacity, 6,325,000,000 ft^3 or 179.1 hm^3). Some additional regulation by hydroelectric plant at Martinsville, Va. 18 mi (29 km) upstream.

REVISIONS (WATER YEARS).--WSP 1433: 1946. WRD N. C. 1968: 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	315	468	420	2,070	1,090	880	579	617	1,190	290	813	213
2	870	436	277	891	975	700	724	642	557	502	812	412
3	817	421	204	1,200	444	400	646	727	557	489	721	628
4	521	236	386	1,230	558	600	4,530	646	683	520	644	574
5	456	306	561	1,160	1,050	700	4,720	393	1,010	518	802	488
6	425	404	885	1,120	1,090	700	2,050	511	1,010	629	658	1,860
7	260	410	537	600	1,360	700	1,440	556	1,010	1,010	626	3,000
8	280	397	444	1,120	1,440	700	897	534	995	448	557	698
9	689	386	1,940	1,250	1,160	600	1,520	631	471	629	613	603
10	677	370	1,020	1,280	504	400	1,320	615	334	574	604	629
11	670	254	660	1,220	600	450	1,260	617	599	563	297	1,440
12	659	237	588	1,200	940	600	1,210	455	574	573	309	934
13	666	368	552	1,030	900	591	1,180	1,020	544	543	516	806
14	245	387	600	444	900	523	515	863	642	248	494	690
15	235	385	492	968	900	509	539	1,180	792	244	482	281
16	395	390	414	968	880	472	1,120	1,160	441	580	481	345
17	373	348	504	947	450	370	1,140	1,140	385	539	437	824
18	366	253	765	940	700	389	1,140	1,100	566	500	274	852
19	370	228	765	905	650	482	1,110	485	553	499	301	828
20	361	360	1,230	355	600	528	1,030	1,230	546	506	493	817
21	238	382	5,560	3,910	600	1,450	389	1,020	564	242	485	745
22	227	456	1,710	1,830	700	1,190	406	885	565	206	475	249
23	374	416	1,280	1,140	600	691	923	996	321	461	465	297
24	372	412	742	975	420	485	831	1,010	275	479	429	430
25	372	250	1,090	961	600	499	792	889	523	496	214	445
26	368	226	702	919	900	643	789	360	523	1,190	262	434
27	387	383	1,820	723	900	622	780	709	517	772	469	428
28	233	459	1,220	742	880	615	375	1,040	567	280	461	413
29	684	442	1,060	552	------	651	369	950	565	274	451	247
30	557	417	492	1,240	------	1,040	623	664	348	816	478	285
31	461	------	812	1,120	------	806	------	946	------	799	411	------
TOTAL	13,923	10,887	29,732	35,010	22,791	19,986	34,947	24,591	18,227	16,419	15,534	20,895
MEAN	449	363	959	1,129	814	645	1,165	793	608	530	501	697
MAX	870	468	5,560	3,910	1,440	1,450	4,720	1,230	1,190	1,190	813	3,000
MIN	227	226	204	355	420	370	369	360	275	206	214	213
(†)	-40	+7	+183	-69	-17	+46	-24	-17	+41	-62	-71	+24

CAL YR 1973 TOTAL 323,679 MEAN 887 MAX 6,520 MIN 204 MEAN‡ 890 CFSM‡ 1.65 IN‡ 22.46
WTR YR 1974 TOTAL 262,942 MEAN 720 MAX 5,560 MIN 204 MEAN‡ 720 CFSM‡ 1.34 IN‡ 18.17

† Change in contents, equivalent in cubic feet per second, in Philpott Lake furnished by Corps of Engineers.
‡ Adjusted for change in contents.

NOTE.--No gage-height record Feb. 11 to Mar. 12.

02075160 Moon Creek near Yanceyville, N. C.

LOCATION.--Lat 36°28'13", long 79°23'00", Caswell County, on right bank at downstream side of bridge on Secondary Road 1321, 0.5 mi (0.8 km) downstream from East Prong, and 5.5 mi (8.8 km) northwest of Yanceyville.

DRAINAGE AREA.--29.9 mi^2 (77.4 km^2).

PERIOD OF RECORD.--Annual maximum, water years 1954-61. October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 420 ft (128 m) by barometer. July 2, 1953, to Sept. 30, 1961, crest-stage gage at upstream side of bridge at datum 8.46 ft (2.579 m) higher.

AVERAGE DISCHARGE.--13 years, 25.0 ft^3/s (0.708 m^3/s), 11.35 in/yr (288 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,130 ft^3/s (60.3 m^3/s) Sept. 7 (gage height, 10.98 ft or 3.347 m); minimum, 5.2 ft^3/s (0.15 m^3/s) July 5; minimum gage height, 1.24 ft or 0.378 m, July 26.
Period of record: Maximum discharge, 4,010 ft^3/s (114 m^3/s) June 21, 1972 (gage height, 13.81 ft or 4.209 m), result of dam failure; no flow for part of July 25, 1966 (result of temporary diversion); minimum unregulated, 0.18 ft^3/s (0.005 m^3/s) Oct. 3, 4, 1968.

REMARKS.--Records good. Occasional regulation by recreation lake upstream from station. Occasional diversion for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	13	11	69	36	28	61	17	21	9.0	8.1	95
2	12	11	10	54	31	27	46	19	19	7.2	11	273
3	16	11	10	49	30	26	36	23	17	6.5	17	62
4	12	11	10	48	30	25	33	20	15	6.3	20	112
5	10	14	16	42	26	25	41	26	13	9.8	51	58
6	9.0	15	21	35	29	39	38	49	12	53	123	306
7	8.2	13	14	32	57	36	33	28	12	65	71	1,150
8	9.0	11	23	29	86	29	41	21	11	31	32	142
9	10	11	159	58	84	27	152	33	11	21	25	56
10	10	10	107	64	61	25	69	36	11	17	29	36
11	9.9	10	80	51	43	25	33	25	9.7	15	23	27
12	9.3	10	57	36	37	36	29	25	8.7	13	19	22
13	9.2	11	33	27	33	44	27	24	8.1	12	18	19
14	9.1	11	26	24	33	34	26	20	8.1	11	16	17
15	8.9	11	23	24	46	29	24	17	9.8	10	15	16
16	8.2	12	35	23	50	30	22	16	11	13	16	15
17	8.1	11	46	23	67	34	21	15	11	12	24	15
18	7.8	11	41	21	56	30	21	15	10	11	21	18
19	7.0	11	40	20	51	28	20	15	8.0	10	91	16
20	7.9	11	54	20	48	31	21	17	7.4	9.8	57	14
21	8.0	12	247	120	42	71	23	17	8.2	8.9	28	13
22	8.2	14	117	104	90	76	23	16	10	8.5	22	13
23	8.6	13	78	64	81	46	32	18	8.7	8.1	19	13
24	8.9	12	64	42	49	34	27	19	6.2	8.9	17	12
25	9.3	12	49	36	39	32	23	15	5.8	9.6	16	11
26	9.3	11	38	104	33	34	22	13	7.2	9.3	16	11
27	9.0	13	31	173	31	32	21	37	11	19	16	11
28	9.3	15	27	93	30	29	20	28	15	18	15	12
29	14	14	24	102	------	39	19	19	14	14	14	12
30	16	12	29	67	------	96	18	17	12	11	15	11
31	12	------	34	50	------	68	------	17	------	8.8	15	------
TOTAL	302.1	357	1,554	1,704	1,329	1,165	1,022	677	331.9	466.7	880.1	2,588
MEAN	9.75	11.9	50.1	55.0	47.5	37.6	34.1	21.8	11.1	15.1	28.4	86.3
MAX	16	15	247	173	90	96	152	49	21	65	123	1,150
MIN	7.0	10	10	20	26	25	18	13	5.8	6.3	8.1	11
CFSM	.33	.40	1.68	1.84	1.59	1.26	1.14	.73	.37	.51	.95	2.89
IN.	.38	.44	1.93	2.12	1.65	1.45	1.27	.84	.41	.58	1.09	3.22

CAL YR 1973 TOTAL 12,066.5 MEAN 33.1 MAX 647 MIN 6.8 CFSM 1.11 IN 15.01
WTR YR 1974 TOTAL 12,376.8 MEAN 33.9 MAX 1,150 MIN 5.8 CFSM 1.13 IN 15.40

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
9- 7	0200	10.98	2,130				

02077200 Hyco Creek near Leasburg, N. C.

LOCATION.--Lat 36°24'07", long 79°12'13", Caswell County, on right bank 10 ft (3 m) upstream from bridge on U. S. Highway 158, 1.5 mi (2.4 km) upstream from Kilgore Creek, and 2.5 mi (4.0 km) west of Leasburg.

DRAINAGE AREA.--44.0 mi^2 (114.0 km^2).

PERIOD OF RECORD.--July 1964 to current year. Prior to October 1968 published as North Hyco Creek near Leasburg.

GAGE.--Water-stage recorder. Datum of gage is 400.08 ft (121.944 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 40.6 ft^3/s (1.150 m^3/s), 12.53 in/yr (318 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,200 ft^3/s (119 m^3/s) Sept. 7, (gage height, 37.82 ft or 11.528 m); minimum, 0.59 ft^3/s (0.017 m^3/s) Oct. 19,20 (gage height, 24.76 ft or 7.547 m).
Period of record: Maximum discharge, 4,200 ft^3/s (119 m^3/s) Sept. 7, 1974, (gage height, 37.82 ft or 11.528 m); no flow at times, most years.

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.94	2.3	5.4	334	60	38	97	12	195	11	.94	9.7
2	1.0	1.7	4.7	181	48	36	69	15	111	8.1	1.2	19
3	1.3	1.6	4.7	113	44	34	54	32	55	6.5	3.5	20
4	1.9	1.6	3.5	114	54	31	50	21	38	5.6	24	119
5	1.7	1.9	4.3	91	45	30	90	21	78	5.2	111	62
6	1.4	5.0	10	62	39	33	74	106	32	8.6	219	725
7	1.3	5.2	8.3	51	104	31	52	88	76	12	144	2,150
8	.94	3.4	7.8	42	171	28	60	35	34	7.6	42	341
9	.94	2.6	164	122	178	26	221	102	28	5.8	28	126
10	.83	2.1	84	184	97	25	112	251	21	5.2	19	74
11	.83	1.9	36	86	72	24	71	124	19	4.5	14	44
12	.94	2.1	23	56	58	32	56	170	16	3.0	9.9	32
13	.88	2.0	19	40	50	40	50	269	14	2.1	6.3	24
14	1.0	2.3	36	34	45	33	47	100	11	1.9	8.3	20
15	.94	2.8	30	31	46	28	40	60	11	1.8	7.8	17
16	.94	3.7	68	28	64	34	35	43	10	1.7	27	15
17	.83	3.9	141	25	190	88	31	34	20	1.4	54	13
18	.77	3.5	68	22	142	60	33	29	14	1.2	34	17
19	.71	3.0	46	20	100	47	29	32	9.6	1.1	387	14
20	.59	2.8	86	19	121	46	26	29	8.2	1.1	73	12
21	.65	3.4	464	172	74	60	24	26	7.4	1.3	30	11
22	.65	5.4	278	255	116	68	22	21	9.4	1.3	19	9.9
23	.65	6.5	88	94	144	47	28	21	7.2	1.3	15	9.9
24	.71	5.2	59	58	80	42	26	26	5.2	1.0	12	8.9
25	.77	4.3	46	61	64	38	21	18	4.4	1.9	11	8.3
26	1.0	3.9	40	175	52	38	19	15	5.0	3.0	9.6	7.8
27	1.2	4.7	36	308	45	42	18	48	16	2.6	8.9	7.3
28	1.3	6.3	30	160	41	38	18	41	32	2.0	8.6	16
29	2.5	12	25	343	------	46	16	25	34	1.6	7.3	25
30	6.3	8.3	34	155	------	231	14	20	19	1.7	6.5	12
31	4.1	------	66	87	------	194	------	19	------	1.1	6.5	------
TOTAL	40.51	115.4	2,015.7	3,523	2,344	1,588	1,503	1,853	940.4	114.2	1,350.34	3,969.8
MEAN	1.31	3.85	65.0	114	83.7	51.2	50.1	59.8	31.3	3.68	43.6	132
MAX	6.3	12	464	343	190	231	221	269	195	12	387	2,150
MIN	.59	1.6	3.5	19	39	24	14	12	4.4	1.0	.94	7.3
CFSM	.03	.09	1.48	2.59	1.90	1.16	1.14	1.36	.71	.08	.99	3.00
IN.	.03	.10	1.70	2.98	1.98	1.34	1.27	1.57	.80	.10	1.14	3.36

CAL YR 1973 TOTAL 18,506.65 MEAN 50.7 MAX 776 MIN .59 CFSM 1.15 IN 15.65
WTR YR 1974 TOTAL 19,357.35 MEAN 53.0 MAX 2,150 MIN .59 CFSM 1.20 IN 16.37

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
9- 7	0400	37.82	4,200				

02077240 Double Creek near Roseville, N. C.

LOCATION (revised).--Lat 36°21'44", long 79°05'48", Person County, on left bank 21 ft (6 m) downstream from culverts on Secondary Road 1166, 1.0 mi (1.6 km) upstream from Mill Creek, and 3.0 mi (4.8 km) northwest of Roseville.

DRAINAGE AREA.--7.47 mi^2 (19.35 km^2).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 450.39 ft (137.279 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 6.29 ft^3/s (0.178 m^3/s), 11.43 in/yr (290 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,690 ft^3/s (47.9 m^3/s) Sept. 6 (gage height, 5.79 ft or 1.765 m); minimim, 0.43 ft^3/s (0.012 m^3/s) Oct. 17, 18, 28, 29; minimum gage height, 1.38 ft or 0.421 m, Oct. 17, 18.
Period of record: Maximum discharge, 1,690 ft^3/s (47.9 m^3/s) Sept. 6, 1974 (gage height, 5.79 ft or 1.765 m); minimum, 0.03 ft^3/s (0.0008 m^3/s) Oct. 3, 4, 5, 7, 1968, Oct. 6, 7, 1970.

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report. Recording rain gage discontinued.

REVISIONS (WATER YEARS).--WRD N. C. 1972: 1964-66, 1967(M), 1968, 1969-71(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.93	1.3	38	7.2	6.0	12	3.9	34	2.5	1.3	3.3
2	1.5	.85	1.4	12	7.2	5.7	9.5	5.0	10	2.5	5.0	7.5
3	1.3	.79	1.7	11	7.7	5.7	8.3	6.8	7.5	2.3	3.0	10
4	1.1	.73	1.5	12	7.2	5.3	9.0	4.7	5.7	2.0	7.9	68
5	.78	2.1	1.8	8.6	5.6	5.7	14	9.5	5.3	2.0	39	15
6	.66	1.5	2.5	6.9	6.9	6.4	9.5	17	5.0	2.2	225	486
7	.66	1.0	1.6	6.2	11	5.7	7.5	7.9	4.7	2.3	26	210
8	.78	1.1	1.9	5.2	23	5.3	8.6	6.0	4.5	2.0	14	82
9	1.1	1.3	18	29	15	5.0	28	32	4.2	1.8	13	60
10	1.1	1.3	7.2	13	11	4.7	13	18	3.9	1.7	10	9.5
11	.94	1.2	4.9	9.1	8.6	4.7	10	11	4.2	1.7	7.9	7.5
12	.92	1.1	3.6	6.5	7.7	7.9	8.6	26	3.6	1.5	6.8	6.0
13	.77	1.2	3.6	4.9	7.2	9.0	8.3	21	3.6	1.3	6.4	4.5
14	.75	1.3	6.9	4.2	6.5	7.2	7.9	11	3.3	1.3	6.0	3.9
15	.69	1.3	4.6	3.9	7.2	6.4	7.2	7.9	3.3	1.2	5.7	3.6
16	.64	1.5	12	3.9	17	11	6.4	6.8	4.2	1.2	17	34
17	.53	1.3	16	3.6	28	15	6.4	5.7	4.7	1.1	15	34
18	.53	1.3	12	3.0	15	9.5	6.8	6.0	3.3	1.1	15	34
19	.66	1.3	9.1	3.0	15	8.3	5.7	7.5	3.1	1.0	97	32
20	.68	1.3	40	3.0	14	8.6	5.3	7.5	3.1	1.1	22	31
21	.54	1.4	84	68	9.5	13	5.0	5.3	3.1	2.3	13	31
22	.54	1.9	15	15	14	11	5.0	4.7	2.8	1.5	9.0	31
23	.83	1.4	9.1	10	12	8.6	6.4	5.3	2.8	1.3	7.2	31
24	.78	1.4	6.9	7.7	9.0	7.5	5.3	4.7	2.5	1.1	5.7	30
25	.78	1.5	5.9	11	8.3	7.2	5.0	4.2	2.5	1.4	5.0	31
26	.77	1.5	5.6	38	7.2	7.5	4.7	4.2	2.8	1.6	4.2	31
27	.60	1.7	5.3	15	6.4	7.5	4.5	11	3.6	1.8	3.6	30
28	.46	1.9	4.6	44	6.4	6.8	4.5	6.4	3.6	1.5	3.1	42
29	1.6	2.1	3.9	18	------	12	4.2	5.0	3.3	1.2	3.1	34
30	.96	1.4	5.6	12	------	30	4.2	4.7	2.8	1.1	2.8	31
31	.78	------	26	8.6	------	18	------	4.5	------	1.1	3.6	------
TOTAL	25.33	40.60	323.5	434.3	300.8	272.2	240.8	281.2	151.0	49.7	603.3	1,463.8
MEAN	.83	1.35	10.4	14.0	10.7	8.78	8.03	9.07	5.03	1.60	19.5	48.8
MAX	1.6	2.1	84	68	28	30	28	32	34	2.5	225	486
MIN	.46	.73	1.3	3.0	5.6	4.7	4.2	3.9	2.5	1.0	1.3	3.3
CFSM	.11	.18	1.39	1.87	1.43	1.18	1.08	1.21	.67	.21	2.61	6.53
IN.	.13	.20	1.61	2.16	1.50	1.36	1.20	1.40	.75	.25	3.00	7.29

CAL YR 1973 TOTAL 3,392.77 MEAN 9.30 MAX 246 MIN .46 CFSM 1.25 IN 16.90
WTR YR 1974 TOTAL 4,187.03 MEAN 11.5 MAX 486 MIN .46 CFSM 1.54 IN 20.85

PEAK DISCHARGE (BASE, 170 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-20	2115	3.32	282	8- 6	0830	5.41	1,390
1-21	0330	3.33	286	8-19	0800	4.00	550
8- 5	0200	3.34	297	9- 6	2145	5.79	1,690

02077250 South Hyco Creek near Roseville, N. C.

LOCATION.--Lat 36°23'12", long 79°06'22", Person County, on right bank at downstream side of bridge on U. S. Highway 158, 1.2 mi (1.9 km) downstream from Double Creek, and 4.2 mi (6.8 km) northwest of Roseville.

DRAINAGE AREA.--55 mi^2 (140 km^2), approximately.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1964-66. October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 400.05 ft (121.935 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 51.0 ft^3/s (1.444 m^3/s), 12.59 in/yr (320 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,840 ft^3/s (137 m^3/s) Sept. 7 (gage height, 25.94 ft or 7.907 m); minimum, 1.3 ft^3/s (0.037 m^3/s) Oct. 18, 19 (gage height, 12.98 ft or 3.956 m).
Period of record: Maximum discharge, 4,840 ft^3/s (137 m^3/s) Sept. 7, 1974 (gage height, 25.94 ft or 7.907 m); no flow Aug. 24 to Oct. 22, 1968, Sept. 23, 24, Oct. 9-14, 1970.
No flow observed many days in July and September 1966.

REMARKS.--Records excellent. Water quality records for the current year are published in Part 2 of this report. Recording rain gage at station.

REVISIONS (WATER YEARS).--WRD N. C. 1973: 1967-72(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	3.8	6.3	510	71	41	96	16	156	8.7	2.0	14
2	4.0	3.2	5.7	185	58	38	70	23	61	7.3	16	37
3	4.2	3.2	6.0	113	54	37	57	42	43	6.5	9.6	30
4	4.2	3.2	6.0	119	66	35	54	27	31	5.7	33	337
5	3.4	6.0	8.0	100	53	33	88	33	24	5.9	145	127
6	2.4	7.6	12	69	48	39	71	158	22	8.8	593	973
7	2.1	5.7	9.4	60	103	34	52	71	32	11	184	2,620
8	1.9	4.7	12	50	193	30	54	42	23	7.5	51	423
9	2.2	4.4	140	160	199	29	230	140	19	6.2	36	147
10	2.6	4.0	50	239	97	28	112	300	17	5.3	24	75
11	3.1	4.0	24	100	72	27	71	113	16	4.9	17	50
12	2.9	4.4	16	68	59	40	58	114	13	4.2	13	38
13	2.9	5.4	15	50	53	51	53	306	12	3.5	11	30
14	2.7	5.2	34	42	46	39	51	90	11	3.1	11	24
15	2.4	5.2	26	39	53	33	45	55	11	2.9	9.3	20
16	2.1	5.7	69	36	81	46	38	42	11	2.6	38	18
17	1.8	5.7	144	33	284	106	34	34	32	2.4	236	18
18	1.3	5.4	56	29	185	67	38	30	15	2.2	86	22
19	1.4	5.2	42	28	117	52	33	42	11	2.1	682	17
20	1.6	5.2	131	27	138	52	29	41	9.7	2.2	194	15
21	1.5	5.4	938	322	84	69	27	33	9.4	6.9	52	14
22	1.6	7.2	236	385	116	81	26	26	9.2	5.7	32	13
23	2.0	7.2	86	111	137	57	34	27	7.9	3.4	23	13
24	2.1	6.3	61	71	78	49	29	29	6.6	3.2	18	11
25	2.1	6.0	49	78	64	45	24	21	6.2	4.2	15	11
26	2.1	5.7	44	197	54	46	22	18	7.4	5.0	13	11
27	2.2	6.9	43	397	49	50	21	62	13	5.3	12	11
28	2.2	9.0	35	180	44	45	20	47	19	4.1	11	46
29	4.2	9.8	31	512	------	50	19	30	18	3.1	9.8	35
30	5.7	7.2	41	179	------	241	17	25	12	3.7	8.8	17
31	4.2	------	67	96	------	218	------	23	------	2.6	12	------
TOTAL	82.0	167.9	2,443.4	4,585	2,656	1,808	1,573	2,060	678.4	150.2	2,597.5	5,217
MEAN	2.65	5.60	78.8	148	94.9	58.3	52.4	66.5	22.6	4.85	83.8	174
MAX	5.7	9.8	938	512	284	241	230	306	156	11	682	2,620
MIN	1.3	3.2	5.7	27	44	27	17	16	6.2	2.1	2.0	11
CFSM	.05	.10	1.43	2.69	1.73	1.06	.95	1.21	.41	.09	1.52	3.16
IN.	.06	.11	1.65	3.10	1.80	1.22	1.06	1.39	.46	.10	1.76	3.53

CAL YR 1973 TOTAL 22,994.2 MEAN 63.0 MAX 1,270 MIN 1.3 CFSM 1.15 IN 15.55
WTR YR 1974 TOTAL 24,018.4 MEAN 65.8 MAX 2,620 MIN 1.3 CFSM 1.20 IN 16.25

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1000	18.97	1,200	8-19	1300	19.39	1,370
1-21	2330	17.96	821	9- 7	0030	25.94	4,840
8- 6	1300	19.46	1,390				

02077303 Hyco River below Afterbay Dam near McGehees Mill, N. C.

LOCATION.--Lat 36°31'54", long 78°59'48", Person County, on right bank 600 ft (183 m) downstream from afterbay dam of Carolina Power and Light Company, 1.2 mi (1.9 km) upstream from Ghent Creek, and 1.8 mi (2.9 km) east-northeast of McGehees Mill.

DRAINAGE AREA.--196 mi^2 (508 km^2).

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water-stage recorder. Datum of gage is 342.98 ft (104.540 m) above mean sea level (levels by Carolina Power and Light Company).

EXTREMES.--Current year: Maximum discharge, 9,910 ft^3/s (281 m^3/s) Sept. 7 (gage height, 22.18 ft or 6.760 m) from rating curve extended above 2,600 ft^3/s (73.6 m^3/s) on basis of flow over dam through taintor gates; minimum, 0.80 ft^3/s (0.023 m^3/s) Apr. 24 (gage height, 2.59 ft or 0.789 m).

REMARKS.--Records good except those for Oct. 1 to Nov. 19, which are fair. Flow regulated by Roxboro Steam-Electric Generating Plant afterbay Reservoir (see p. 136).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	8.0	5.0	186	479	352	171	35	9.3	16	11	27
2	5.1	7.2	4.7	651	367	346	174	27	9.3	22	11	27
3	5.1	7.2	4.0	619	306	342	176	17	9.7	22	11	26
4	5.1	8.0	4.0	547	273	295	179	18	6.0	22	11	211
5	5.1	10	4.0	555	256	216	184	18	2.1	22	11	457
6	5.1	8.0	3.6	542	245	198	191	25	2.1	22	12	1,190
7	5.1	7.0	3.3	448	251	201	211	91	2.2	22	13	8,570
8	10	7.0	3.3	432	385	237	218	137	2.4	22	11	5,270
9	8.5	6.8	7.6	798	655	327	630	146	2.4	17	24	2,920
10	7.5	6.8	8.9	1,040	584	318	690	358	2.5	11	44	1,140
11	6.7	6.8	8.9	898	443	207	498	470	1.7	23	43	101
12	6.7	6.8	7.2	735	342	181	379	442	2.0	9.2	41	17
13	6.7	6.8	7.2	496	283	178	411	362	2.0	9.2	40	16
14	6.7	6.8	7.6	363	248	176	379	144	2.4	9.2	40	16
15	6.7	6.7	8.6	251	234	172	310	78	2.8	9.6	40	16
16	6.7	6.4	23	238	233	169	199	46	2.8	38	40	16
17	6.8	6.1	44	213	457	170	176	21	2.8	11	40	16
18	6.8	6.1	22	196	634	169	157	20	2.8	11	38	16
19	6.8	6.1	15	185	570	165	136	20	2.8	11	134	16
20	6.8	6.1	21	169	531	164	118	20	2.8	11	998	16
21	6.7	6.1	333	224	455	167	106	20	2.8	11	653	16
22	6.6	6.1	69	375	475	168	97	13	2.4	11	841	16
23	6.4	6.4	43	545	526	167	29	9.5	2.4	11	140	16
24	6.2	6.4	65	423	425	166	5.6	8.2	3.8	11	91	16
25	6.0	6.4	80	342	353	165	8.1	7.7	5.2	11	88	15
26	6.0	6.8	86	371	277	166	8.3	7.7	5.2	11	86	16
27	6.0	6.8	92	986	245	165	25	8.0	5.6	11	84	16
28	6.0	6.4	93	928	333	164	24	8.0	6.2	11	82	16
29	7.0	5.8	92	1,030	------	163	29	8.3	6.2	11	73	16
30	8.5	5.4	96	999	------	168	35	9.2	6.2	11	39	16
31	9.0	------	98	688	------	170	------	9.3	------	11	28	------
TOTAL	203.5	203.3	1,359.9	16,473	10,865	6,412	5,954.0	2,603.9	118.9	461.2	3,818	20,243
MEAN	6.56	6.78	43.9	531	388	207	198	84.0	3.96	14.9	123	675
MAX	10	10	333	1,040	655	352	690	470	9.7	38	998	8,570
MIN	5.1	5.4	3.3	169	233	163	5.6	7.7	1.7	9.2	11	15

WTR YR 1974 TOTAL 68,715.7 MEAN 188 MAX 8,570 MIN 1.7

Note.--Discharge computed from gage-height record collected at site 02077300 for period Oct. 1 to Nov. 19.

02080500 Roanoke River at Roanoke Rapids, N. C.

LOCATION.--Lat 36°28'04", long 77°37'18", Halifax County, on right bank 1.2 mi (1.9 km) downstream from bridge on State Highway 48 at Roanoke Rapids, 2.5 mi (4.0 km) upstream from Chockoyotte Creek, 2.8 mi (4.5 km) downstream from Roanoke Rapids dam, and 133.6 mi (215.0 km) upstream from mouth in Albemarle Sound.

DRAINAGE AREA.--8,410 mi^2 (21,780 km^2), approximately.

PERIOD OF RECORD.--December 1911 to current year. Prior to January 1933, published as "at Old Gaston". Records published for both sites February 1930 to December 1932. Gage-height records collected at site of auxiliary gage since November 1890 are contained in reports of National Weather Service, NOAA, U. S. Department of Commerce.

GAGE.--Water-stage recorder. Datum of gage is 43.84 ft (13.362 m) above mean sea level. Dec. 7, 1911, to Nov. 21, 1921, and Apr. 7, to Dec. 31, 1932, nonrecording gage and Nov. 21, 1921, to Apr. 7, 1932, water-stage recorder, both at site 9 mi (14 km) upstream at different datum. Since Aug. 6, 1941, auxiliary water-stage recorder, 3.6 mi (5.8 km) downstream from base gage.

AVERAGE DISCHARGE.--62 years (1912-74) 8,028 ft^3/s (227.4 m^3/s) adjusted for storage, 12.97 in/yr (329 mm/yr).

EXTREMES.--Current year: Maximum discharge, 20,800 ft^3/s (589 m^3/s) Jan. 15 (gage height, 8.77 ft or 2.673 m); minimum, 836 ft^3/s (23.7 m^3/s) Mar. 3, 18 (gage height, 1.76 ft or 0.536 m); minimum daily, 917 ft^3/s (26.0 m^3/s) Nov. 14.

Period of record: Maximum discharge, 261,000 ft^3/s(7,390 m^3/s) Aug. 18, 1940 (gage height, 39.0 ft or 11.89 m from floodmarks); minimum, about 250 ft^3/s (7.08 m^3/s) Dec. 16, 1955; minimum daily, 472 ft^3/s (13.4 m^3/s) Sept. 21, 1932.

Flood in November 1877 (discharge, 212,000 ft^3/s or 6,000 m^3/s), reached a stage of about 2 ft (0.61 m) lower at Old Gaston than flood in August 1940 which was 21.5 ft (6.55 m). Flood in August 1940 is the maximum known since at least 1771.

REMARKS.--Records excellent. Flow regulated since August 1950 by Philpott Lake on Smith River (usable capacity, 6,325,000,000 ft^3 or 179,124,000 m^3); since September 1950 by John H. Kerr Reservoir (usable capacity, 101,247,000,000 ft^3 or 2,867,315,000 m^3); since June 1955 by Roanoke Rapids Lake (see p. 134); since September 1962 by Leesville Lake, since October 1962 by Lake Gaston (see p. 134); and since September 1963 by Smith Mountain Lake.

REVISIONS (WATER YEARS).--WSP 712: 1930. WSP 822: 1936. WSP 1032: 1912, 1928(M), 1930(M), 1932-33(M). WSP 1433: 1912-23, 1925-28, 1930, 1932-33, 1935, 1937-39. WSP 1904: 1958, 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,450	1,560	1,150	19,400	17,700	9,610	3,800	14,500	5,850	9,570	2,290	2,560
2	3,540	1,300	1,100	19,400	17,600	5,350	1,910	11,300	5,830	11,100	2,320	3,700
3	9,320	1,360	8,210	19,500	17,200	942	1,930	14,000	5,880	16,700	3,210	9,990
4	10,600	3,010	3,320	19,500	17,700	10,200	9,410	6,950	12,100	19,200	2,350	6,860
5	4,950	9,400	6,250	19,600	17,900	11,300	14,800	6,740	14,600	15,000	2,290	13,200
6	2,070	6,180	7,940	19,600	17,900	13,200	14,800	14,000	14,600	12,800	3,430	8,750
7	1,860	8,620	7,790	19,600	17,800	6,300	14,700	15,100	14,100	12,500	2,530	12,600
8	2,530	5,390	3,410	19,800	17,900	2,320	10,900	15,700	7,580	19,400	5,200	19,200
9	2,010	6,160	5,000	19,800	19,600	10,400	15,800	11,200	7,850	18,400	2,960	19,200
10	5,280	11,100	10,300	19,800	19,600	1,500	17,600	10,100	14,700	10,600	2,320	19,200
11	2,290	3,720	14,400	19,500	19,700	12,700	17,500	6,130	14,600	2,280	2,310	19,300
12	2,050	7,350	14,200	19,600	19,600	9,260	17,500	6,200	10,800	2,070	4,300	19,300
13	2,140	2,840	12,900	19,800	19,600	8,000	17,600	8,360	3,140	2,140	6,450	19,300
14	1,980	917	12,300	20,500	13,900	10,600	17,600	12,000	2,050	2,050	8,300	19,300
15	2,080	2,650	9,990	20,600	12,900	13,800	17,600	12,300	2,610	1,930	10,200	19,400
16	1,940	1,260	10,600	19,400	13,000	9,290	17,600	14,800	1,960	1,940	7,790	19,100
17	2,190	2,490	15,700	15,600	5,980	2,670	17,700	14,800	1,980	2,250	2,850	16,400
18	2,150	1,920	16,000	11,500	12,400	6,180	17,000	13,500	1,940	3,370	2,370	15,100
19	1,980	8,650	16,400	5,570	13,500	1,050	14,800	6,200	8,720	4,630	3,090	15,400
20	1,970	5,080	16,200	4,230	15,600	4,360	14,400	6,200	14,600	2,190	10,100	13,000
21	1,900	5,080	19,600	8,120	17,800	5,230	8,300	6,200	12,800	2,250	13,600	2,740
22	2,050	1,210	19,700	8,890	17,900	942	9,610	8,870	10,100	2,250	13,400	2,500
23	2,140	4,140	4,360	8,480	10,200	1,450	11,200	14,400	4,950	2,250	9,320	2,640
24	2,080	2,820	7,260	11,500	8,600	1,500	11,200	11,600	2,030	2,240	6,680	10,300
25	2,070	1,180	1,120	11,000	13,600	14,000	11,100	6,530	2,250	2,310	2,580	7,100
26	2,080	1,190	10,800	10,100	15,100	6,830	11,500	5,900	1,890	2,260	5,970	2,430
27	2,070	1,190	19,400	1,240	13,500	4,900	6,230	5,950	1,960	2,250	8,630	2,280
28	2,080	6,770	19,400	13,300	13,800	2,580	7,160	8,330	2,140	2,260	12,100	10,400
29	2,120	7,730	19,400	17,600	------	9,710	11,600	10,500	1,930	2,320	13,000	12,700
30	2,110	11,100	19,300	17,600	------	12,100	14,800	14,500	1,940	2,340	10,000	12,600
31	2,050	------	19,400	17,700	------	2,590	------	9,350	------	2,340	2,260	------
TOTAL	89,130	133,367	352,900	477,830	437,580	210,864	377,650	322,210	207,480	195,190	184,200	356,550
MEAN	2,875	4,446	11,380	15,410	15,630	6,802	12,590	10,390	6,916	6,296	5,942	11,890
MAX	10,600	11,100	19,700	20,600	19,700	14,000	17,700	15,700	14,700	19,400	13,600	19,400
MIN	1,860	917	1,100	1,240	5,980	942	1,910	5,900	1,890	1,930	2,260	2,280
(†)	+761	-1,181	+3,444	+872	-3,026	+3,496	+182	-1,737	-1,472	-2,160	+50	+2,750

CAL YR 1973 TOTAL 3,948,037 MEAN 10,820 MAX 19,800 MIN 917 MEAN ‡ 10,717 CFSM ‡ 1.27 IN ‡ 17.24
WTR YR 1974 TOTAL 3,344,951 MEAN 9,164 MAX 20,600 MIN 917 MEAN ‡ 9,356 CFSM ‡ 1.11 IN ‡ 15.07

† Change in contents, equivalent in cubic feet per second, in Leesville and Smith Mountain Lakes, furnished by Appalachian Power Co; in Philpott and Kerr Reservoirs, furnished by Corps of Engineers; and Lake Gaston and Roanoke Rapids Lake, furnished by Virginia Electric and Power Co.

‡ Adjusted for change in contents.

02081500 Tar River near Tar River, N. C.

LOCATION.--Lat 36°11'41", long 78°35'00", Granville County, on right bank 90 ft (27 m) upstream from bridge on State Highway 96, 1.2 mi (1.9 km) upstream from Fishing Creek, 2.5 mi (4.0 km) east of town of Tar River, and 8 mi (13 km) south of Oxford.

DRAINAGE AREA.--167 mi² (433 km²).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder and concrete control with a sharp-crested weir notch. Datum of gage is 287.25 ft (87.554 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 153 ft³/s (4.333 m³/s), 12.44 in/yr (316 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,240 ft³/s (205 m³/s) Sept. 7 (gage height, 13.58 ft or 4.139 m); minimum, 1.6 ft³/s (0.045 m³/s) Oct. 29; minimum gage height, 1.31 ft or 0.399 m Oct. 25, 28, 29.
Period of record: Maximum discharge, 13,100 ft³/s (371 m³/s) Aug. 18, 1955 (gage height, 18.07 ft or 5.508 m); minimum, 0.02 ft³/s (0.001 m³/s) July 29, 30, 1966 (gage height, 1.09 ft or 0.332 m).

REMARKS.--Records good. Town of Oxford diverts about 2.5 ft³/s (0.071 m³/s) for municipal water supply. Occasional intermittent diversion for irrigation.

REVISIONS (WATER YEARS).--WSP 972: 1940-41. WSP 1112: 1941 (calendar year figures). WSP 1273: 1941(M). WSP 1723: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	12	6.5	1,180	200	111	358	35	305	21	5.2	15
2	8.4	5.6	6.1	580	160	100	234	36	214	18	9.8	23
3	8.3	3.7	6.1	392	150	96	166	176	372	15	21	294
4	8.7	4.1	5.8	406	300	93	142	148	135	13	27	415
5	8.1	5.1	5.4	366	200	92	257	80	78	12	81	240
6	7.4	10	5.4	216	150	100	260	709	60	12	450	345
7	6.6	10	5.4	178	400	120	149	297	50	11	522	5,090
8	5.9	6.1	8.3	167	800	100	118	127	44	12	125	2,060
9	5.6	6.6	240	543	560	86	267	250	41	14	67	332
10	5.4	6.4	151	818	300	80	260	492	37	15	44	172
11	5.1	6.1	64	361	210	76	146	183	54	14	30	112
12	5.4	5.8	37	219	160	130	116	306	48	11	23	137
13	5.4	5.8	28	154	140	250	107	1,210	33	8.6	19	87
14	5.1	5.8	56	122	130	170	110	290	29	7.2	15	59
15	5.0	5.8	78	111	120	110	104	139	26	6.0	14	45
16	4.6	6.1	184	106	203	200	88	97	25	5.2	13	38
17	3.6	7.2	612	97	1,330	500	77	76	28	4.6	29	34
18	3.1	6.5	223	86	574	250	97	69	27	4.4	349	37
19	2.9	5.8	136	78	310	171	97	550	23	4.0	497	35
20	2.9	5.8	302	76	498	172	77	426	21	3.7	304	30
21	2.8	6.1	4,140	498	310	370	66	163	19	4.2	74	27
22	2.6	7.2	1,970	888	427	467	61	94	18	4.8	41	25
23	2.2	7.9	364	270	586	224	63	78	17	9.4	95	23
24	2.1	9.8	216	178	254	160	73	63	16	9.5	101	22
25	2.0	9.1	170	184	187	134	61	66	16	7.5	61	21
26	2.1	8.3	133	372	151	139	52	53	16	164	31	20
27	2.1	7.5	106	820	127	205	45	260	17	43	22	20
28	2.0	8.7	95	400	116	159	44	219	21	19	19	20
29	2.3	7.5	80	1,100	------	135	41	95	27	12	20	26
30	4.7	6.5	88	500	------	1,140	38	70	24	8.7	19	27
31	16	------	209	300	------	929	------	62	------	6.6	17	------
TOTAL	156.7	208.9	9,731.0	11,766	9,053	7,119	3,774	6,939	1,841	500.4	3,145.0	9,831
MEAN	5.05	6.96	314	380	323	230	126	224	61.4	16.1	101	328
MAX	16	12	4,140	1,180	1,330	1,140	358	1,210	372	164	522	5,090
MIN	2.0	3.7	5.4	76	116	76	38	35	16	3.7	5.2	15
CFSM	.03	.04	1.88	2.28	1.93	1.38	.75	1.34	.37	.10	.60	1.96
IN.	.03	.05	2.17	2.62	2.02	1.59	.84	1.55	.41	.11	.70	2.19

CAL YR 1973 TOTAL 85,874.1 MEAN 235 MAX 6,710 MIN 2.0 CFSM 1.41 IN 19.13
WTR YR 1974 TOTAL 64,065.0 MEAN 176 MAX 5,090 MIN 2.0 CFSM 1.05 IN 14.27

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1730	12.18	5,780	9- 7	1800	13.58	7,240

02081747 Tar River at U.S. 401 at Louisburg, N. C.

LOCATION.--Lat 36°05'36", long 78°17'48", Franklin County, on left bank 3 ft (1 m) downstream from bridge on U. S. Highway 401 (Bickett Boulevard), at Louisburg, and 0.3 mi (0.5 km) upstream from Fox Creek.

DRAINAGE AREA.--430 mi^2 (1,110 km^2), approximately.

PERIOD OF RECORD.--October 1963 to September 1974. Published as Tar River at Louisburg, N. C. (02081740) October 1963 to September 1973. Prior to October 1972 medium and high water discharges only.

GAGE.--Water-stage recorder. Datum of gage is 176.71 ft (53.861 m) above mean sea level. Prior to Nov. 21, 1973, nonrecording gage at bridge 0.3 mi (0.5 km) upstream at datum 1.82 ft (0.555 m) higher.

EXTREMES.--Current year: Maximum discharge, 5,520 ft^3/s (156 m^3/s) Sept. 8 (gage height, 19.85 ft or 6.050 m); minimum, 37 ft^3/s (1.05 m^3/s) July 21 (gage height, 3.93 ft or 1.198 m).

Period of record: Maximum discharge, 7,940 ft^3/s (225 m^3/s) Feb. 3, 1973 (gage height, 22.50 ft or 6.858 m at former site and datum), from graph based on gage readings; minimum gage height observed, 1.30 ft (0.396 m) several days in September 1967, August, September and October 1968 at former site and datum. A discharge of 10.3 ft^3/s (0.29 m^3/s) was measured on Sept. 24, 1970.

Floods of December 1934, September 1945 and August 1955 reached stages of 26 ft (7.9 m), 24 ft (7.3 m) and 24 ft (7.3 m) respectively, at former site and datum, from information of Corps of Engineers.

REMARKS.--Records good except those for Oct. 1 to Nov. 20, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	75	96	1,250	554	356	1,900	156	261	104	48	122
2	79	88	88	2,150	443	337	730	161	654	91	45	115
3	78	75	84	1,080	416	322	546	231	793	81	92	257
4	77	66	83	865	433	309	470	380	658	72	135	1,090
5	77	72	86	864	495	295	498	279	336	66	219	2,080
6	82	82	91	629	380	289	622	702	251	71	624	745
7	75	96	88	490	398	293	472	1,060	210	75	2,820	1,950
8	68	110	105	435	681	289	373	428	190	76	1,550	4,450
9	62	90	463	459	1,440	270	398	327	178	76	464	4,900
10	60	75	745	1,570	885	257	578	820	162	71	428	1,180
11	60	64	312	1,300	521	246	432	588	147	80	316	390
12	58	58	192	635	423	267	346	396	173	66	193	344
13	58	56	157	451	364	383	328	1,420	147	58	152	334
14	56	57	185	356	332	530	331	1,770	131	53	153	260
15	55	58	223	320	318	358	319	520	121	49	127	219
16	54	60	318	302	403	326	289	341	121	46	112	194
17	52	61	1,260	284	1,330	1,040	261	274	161	44	152	182
18	58	64	1,080	262	2,290	1,090	327	234	132	42	158	196
19	55	66	454	240	1,040	554	353	548	114	41	418	182
20	53	68	361	230	833	482	291	1,000	105	39	865	159
21	50	81	1,470	243	875	556	251	506	100	71	316	148
22	48	93	3,750	1,060	694	900	234	291	96	167	196	132
23	47	100	4,400	845	1,520	664	232	258	90	90	346	152
24	47	99	1,300	414	975	470	248	287	87	59	392	123
25	50	94	440	421	608	406	228	243	102	63	249	117
26	52	92	359	574	494	396	208	196	86	122	171	114
27	54	89	321	969	416	458	194	426	93	237	330	109
28	58	92	290	1,080	378	482	184	820	142	106	313	146
29	62	107	258	1,900	------	420	176	410	133	68	173	127
30	68	146	257	2,170	------	1,230	165	283	126	56	131	118
31	68	------	414	867	------	2,330	------	243	------	55	115	------
TOTAL	1,901	2,434	19,730	24,715	19,939	16,605	11,984	15,598	6,100	2,395	11,803	20,635
MEAN	61.3	81.1	636	797	712	536	399	503	203	77.3	381	688
MAX	82	146	4,400	2,170	2,290	2,330	1,900	1,770	793	237	2,820	4,900
MIN	47	56	83	230	318	246	165	156	86	39	45	109
CFSM	.14	.19	1.48	1.86	1.66	1.25	.93	1.17	.47	.18	.89	1.60
IN.	.16	.21	1.71	2.14	1.73	1.44	1.04	1.35	.53	.21	1.02	1.79

WTR YR 1974 TOTAL 153,839 MEAN 421 MAX 4,900 MIN 39 CFSM .[illegible] IN 13.34

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-23	0300	18.89	4,940	3-31	2230	13.94	2,510
1-30	0600	13.86	2,470	8- 7	0930	16.28	3,530
2-18	1330	13.77	2,450	9- 8	2400	19.85	5,520

Note.--Records computed from once daily gage-height readings Oct. 1 to Nov. 20.

02081800 Cedar Creek near Louisburg, N. C.

LOCATION.--Lat 36°03'14", long 78°20'24", Franklin County, near center of span on downstream side of bridge on U. S. Highway 401, 0.8 mi (1.3 km) downstream from Camping Creek, 3.7 mi (6.0 km) southwest of Louisburg, and 5.5 mi (8.8 km) upstream from mouth.

DRAINAGE AREA.--47.8 mi^2 (123.8 km^2).

PERIOD OF RECORD.--Annual maximum, water years 1954-56 and occasional low-flow measurements, water years 1954-56. September 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 214.93 ft (65.511 m) above mean sea level. May 28, 1953, to Aug. 31, 1956, crest-stage gage at upstream side of bridge at datum 6.39 ft (1.948 m) higher.

AVERAGE DISCHARGE.--18 years, 49.8 ft^3/s (1.410 m^3/s), 14.15 in/yr (359 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,140 ft^3/s (32.3 m^3/s) Aug. 7 (gage height, 5.04 ft or 1.536 m); minimum, 8.0 ft^3/s (0.227 m^3/s) July 21 (gage height, 1.55 ft or 0.472 m).
Period of record: Maximum discharge, 3,560 ft^3/s (101 m^3/s) June 29, 1973 (gage height, 8.32 ft or 2.536 m); minimum, 0.77 ft^3/s (0.022 m^3/s) Sept. 26, 1968 (gage height, 1.25 ft or 0.381 m).
Flood in 1935 reached a stage of about 14 ft (4.3 m), from information by the North Carolina State Highway Commission.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	15	15	179	97	46	81	22	60	18	11	19
2	17	13	15	144	68	44	64	31	58	17	12	26
3	16	13	16	80	68	43	55	41	116	15	28	17
4	15	13	16	70	68	42	57	29	66	14	29	161
5	13	14	17	63	53	40	80	32	42	14	54	120
6	12	15	17	52	48	41	58	81	36	19	103	90
7	12	14	16	53	55	40	48	41	32	18	878	215
8	13	15	28	47	70	38	46	31	31	22	283	147
9	15	16	109	62	69	36	61	48	28	32	116	77
10	13	15	50	83	53	36	48	59	26	17	88	50
11	12	15	25	63	48	37	42	40	24	16	46	39
12	12	16	20	49	44	48	41	69	22	14	38	32
13	12	16	21	40	43	52	46	165	23	12	34	28
14	12	17	31	36	42	40	49	78	22	12	82	26
15	12	16	23	36	45	37	41	46	21	11	39	24
16	11	17	69	35	68	57	36	37	23	10	29	24
17	10	16	143	34	171	108	35	32	49	11	37	25
18	10	15	69	32	101	62	53	28	25	10	29	31
19	11	17	38	31	79	52	39	50	21	10	24	24
20	11	16	45	31	84	57	34	35	20	9.8	24	22
21	11	16	174	39	62	60	32	28	19	28	20	22
22	11	21	152	41	97	56	31	27	18	22	20	20
23	11	17	71	33	129	47	38	38	17	13	23	20
24	12	17	47	35	76	45	34	42	20	12	24	19
25	11	17	38	75	64	46	30	28	18	24	22	19
26	11	17	35	83	53	54	28	25	17	32	21	19
27	11	17	34	76	49	58	27	107	22	15	45	19
28	11	17	30	100	48	49	26	83	24	13	24	24
29	21	18	28	364	------	58	25	43	29	11	20	21
30	19	15	31	247	------	133	24	36	22	10	17	18
31	14	------	84	137	------	130	------	32	------	17	16	------
TOTAL	399	476	1,507	2,450	1,952	1,692	1,309	1,484	951	498.8	2,236	1,398
MEAN	12.9	15.9	48.6	79.0	69.7	54.6	43.6	47.9	31.7	16.1	72.1	46.6
MAX	21	21	174	364	171	133	81	165	116	32	878	215
MIN	10	13	15	31	42	36	24	22	17	9.8	11	17
CFSM	.27	.33	1.02	1.65	1.46	1.14	.91	1.00	.66	.34	1.51	.97
IN.	.31	.37	1.17	1.91	1.52	1.32	1.02	1.15	.74	.39	1.74	1.09

CAL YR 1973 TOTAL 23,359.0 MEAN 64.0 MAX 2,100 MIN 10 CFSM 1.34 IN 18.18
WTR YR 1974 TOTAL 16,352.8 MEAN 44.8 MAX 878 MIN 9.8 CFSM .94 IN 12.73

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-29	1730	3.60	452	8- 7	0630	5.04	1,140

02082506 Tar River below Tar River Reservoir near Rocky Mount, N. C.

LOCATION.--Lat 35°53'30", long 77°52'18", Nash County, near center of span on downstream side of bridge on Secondary Road 1544, 1.8 mi (2.9 km) downstream from Tar River Reservoir, 2.8 mi (4.5 km) downstream from Sapony Creek, 2.9 mi (4.7 km) upstream from Grape Branch, and 5.0 mi (8.0 km) southwest of Rocky Mount.

DRAINAGE AREA.--777 mi^2 (2,012 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 85.9 ft (26.18 m) above mean sea level (levels by North Carolina State Highway Commission).

EXTREMES.--Current year: Maximum discharge, 6,330 ft^3/s (179 m^3/s) Aug. 9, (gage height, 14.50 ft or 4.420 m); minimum, 46 ft^3/s (1.30 m^3/s) Oct. 10 (gage height, 3.32 ft or 1.012 m).
Period of record: Maximum discharge, 10,300 ft^3/s (292 m^3/s) Feb. 6, 1973 (gage height, 20.14 ft or 6.139 m); minimum, 46 ft^3/s (1.30 m^3/s) Oct. 10, 1973 (gage height, 3.32 ft or 1.012 m).

REMARKS.--Records good. The city of Rocky Mount diverted an average of 9.9 ft^3/s (2.80 m^3/s) for municipal water supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	122	133	923	1,990	708	3,160	248	427	279	105	233
2	93	112	139	1,860	1,270	662	2,800	228	462	188	98	208
3	97	105	127	2,590	1,120	631	1,460	297	785	161	149	322
4	100	104	119	1,840	1,060	609	1,060	360	1,060	197	411	792
5	99	103	115	1,370	1,030	558	1,110	503	985	170	463	1,930
6	92	100	97	1,300	1,030	532	1,150	506	645	87	649	2,750
7	92	97	103	1,090	849	520	1,190	866	448	97	2,130	1,920
8	87	106	110	907	855	411	847	1,310	376	108	5,140	2,580
9	84	112	111	822	1,240	214	705	798	358	116	5,960	3,810
10	79	111	293	974	1,930	220	747	530	352	186	2,970	4,990
11	91	109	973	1,960	1,460	226	674	943	340	156	1,540	4,990
12	89	107	740	1,880	967	231	778	986	325	130	880	2,270
13	88	105	711	1,120	784	236	691	879	319	139	466	1,740
14	90	102	350	795	680	212	755	1,750	247	160	232	592
15	86	116	278	639	647	151	739	1,990	109	129	201	421
16	98	118	398	568	801	292	650	929	155	82	327	304
17	154	116	738	531	1,970	783	522	624	259	80	288	86
18	208	118	1,600	507	2,700	1,560	543	483	375	82	270	86
19	136	110	1,530	480	3,470	1,670	598	458	294	85	296	86
20	116	109	830	443	2,180	1,180	610	628	200	82	546	88
21	115	112	886	445	1,590	1,030	530	1,200	207	88	946	87
22	170	118	1,880	479	1,720	1,050	440	860	160	85	625	89
23	490	119	3,090	1,240	1,740	1,300	396	627	184	81	334	105
24	310	133	4,090	1,230	2,320	1,190	392	605	164	97	400	125
25	462	148	3,500	812	1,810	941	399	593	189	111	566	125
26	508	117	956	1,090	1,200	938	387	522	238	129	439	126
27	410	130	630	1,280	933	965	363	468	240	167	426	126
28	192	141	531	1,680	796	1,010	354	850	215	364	466	127
29	102	112	478	2,310	------	1,030	344	1,280	152	273	543	128
30	85	121	427	3,050	------	1,440	324	875	249	176	358	135
31	86	------	498	3,440	------	2,230	------	554	------	152	237	------
TOTAL	4,997	3,433	26,461	39,655	40,142	24,730	24,918	23,750	10,519	4,437	28,461	31,371
MEAN	161	114	854	1,279	1,434	798	831	766	351	143	918	1,046
MAX	508	148	4,090	3,440	3,470	2,230	3,160	1,990	1,060	364	5,960	4,990
MIN	79	97	97	443	647	151	324	228	109	80	98	86
CFSM	.21	.15	1.10	1.65	1.85	1.03	1.07	.99	.45	.18	1.18	1.35
IN.	.24	.16	1.27	1.90	1.92	1.18	1.19	1.14	.50	.21	1.36	1.50

CAL YR 1973 TOTAL 404,146 MEAN 1,107 MAX 10,000 MIN 79 CFSM 1.42 IN 19.35
WTR YR 1974 TOTAL 262,874 MEAN 720 MAX 5,960 MIN 79 CFSM .93 IN 12.59

02082770 Swift Creek at Hilliardston, N. C.

LOCATION.--Lat 36°06'42", long 77°55'16", Nash County, near left bank at downstream side of bridge on Secondary Road 1310, 0.7 mi (1.1 km) northeast of Hilliardston, and 2.8 mi (4.5 km) downstream from Gideon Swamp.

DRAINAGE AREA.--163 mi^2 (422 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 130 ft or 40 m (from topographic map).

AVERAGE DISCHARGE.--11 years, 136 ft^3/s (3.852 m^3/s), 11.33 in/yr (288 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,350 ft^3/s (38.2 m^3/s) Aug. 7 (gage height, 9.80 ft or 2.987 m, from high-water mark in well); minimum, 17 ft^3/s (0.48 m^3/s) Oct. 28, 29; minimum gage height, 2.22 ft or 0.677 m July 15, 16.

Period of record: Maximum discharge, 2,800 ft^3/s (79.3 m^3/s) Feb. 5, 1973 (gage height, 12.86 ft or 3.920 m); minimum, 0.60 ft^3/s (0.017 m^3/s) Sept. 25, 26, 1968.

Flood in 1924 reached a stage of 14.5 ft or 4.42 m (discharge not determined), from information by North Carolina State Highway Commission.

REMARKS.--Records good above 100 ft^3/s (2.8 m^3/s) and fair below except those for periods of no gage-height record, which are poor. An average of about 5.4 ft^3/s (0.15 m^3/s) was diverted above station for Henderson municipal water supply. About 0.4 ft^3/s (0.011 m^3/s) of sewage effluent was discharged into the Tar River and about 2.2 ft^3/s (0.062 m^3/s) was diverted into the Roanoke River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	52	51	314	370	153	403	95	105	54	30	78
2	30	34	46	352	300	145	340	95	101	51	29	89
3	32	31	37	297	230	139	246	115	101	42	50	96
4	35	31	35	262	190	135	207	131	111	36	76	435
5	34	27	37	260	200	131	281	125	111	31	110	260
6	31	27	35	222	190	127	264	185	97	31	210	448
7	27	32	37	178	180	129	207	215	84	36	1,200	812
8	24	43	40	163	170	129	167	173	77	34	500	646
9	22	37	119	180	180	125	169	119	75	33	310	845
10	25	32	170	290	200	121	175	133	72	30	260	705
11	28	30	179	300	180	119	161	157	68	55	200	257
12	31	30	143	230	160	125	139	175	65	34	170	164
13	30	30	100	190	140	155	137	232	61	31	138	123
14	28	31	96	160	133	175	159	215	58	28	100	99
15	26	34	100	140	129	153	157	177	54	25	80	86
16	27	34	120	130	189	151	137	123	52	28	72	77
17	26	34	294	125	601	321	125	99	51	27	66	73
18	25	32	275	120	445	290	157	92	68	25	63	71
19	25	32	269	115	390	265	169	119	81	23	60	73
20	23	34	182	115	313	209	163	141	58	21	57	64
21	21	34	353	125	251	223	133	135	49	20	85	56
22	20	35	417	150	259	237	123	95	46	19	84	51
23	20	38	362	130	368	207	119	84	52	19	91	48
24	21	43	314	125	330	189	119	103	43	19	98	51
25	23	43	176	150	302	175	121	111	39	29	85	45
26	26	40	127	240	219	189	113	90	37	50	69	35
27	22	40	123	230	183	244	107	121	43	90	145	31
28	17	40	122	210	161	215	103	262	51	66	408	37
29	23	37	116	450	------	199	101	219	42	50	293	137
30	28	37	110	580	------	376	99	161	46	40	166	67
31	41	------	193	500	------	413	------	117	------	34	94	------
TOTAL	816	1,054	4,778	7,033	6,963	5,964	5,101	4,414	1,998	1,111	5,399	6,059
MEAN	26.3	35.1	154	227	249	192	170	142	66.6	35.8	174	202
MAX	41	52	417	580	601	413	403	262	111	90	1,200	845
MIN	17	27	35	115	129	119	99	84	37	19	29	31
CFSM	.16	.22	.94	1.39	1.53	1.18	1.04	.87	.41	.22	1.07	1.24
IN.	.19	.24	1.09	1.61	1.59	1.36	1.16	1.01	.46	.25	1.23	1.38

CAL YR 1973 TOTAL 68,370 MEAN 187 MAX 2,200 MIN 17 CFSM 1.15 IN 15.60
WTR YR 1974 TOTAL 50,690 MEAN 139 MAX 1,200 MIN 17 CFSM .85 IN 11.57

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
8- 7	Unknown	9.80	1,350				

Note.--No gage-height record from Jan. 11 to Feb. 13, July 18 to Aug. 16.

02082950 Little Fishing Creek near White Oak, N. C.

LOCATION.--Lat 36°11'08", long 77°52'34", Halifax County, on right bank 8 ft (2 m) downstream from bridge on Secondary Road 1338, 1.1 mi (1.8 km) west of White Oak, 1.8 mi (2.9 km) upstream from Powells Creek, 4.3 mi (6.9 km) upstream from mouth, and 12 mi (19 km) west of Enfield.

DRAINAGE AREA.--175 mi^2 (453 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 116.44 ft (35.491 m) above mean sea level. Since Feb. 14, 1962, auxiliary nonrecording gage 3.6 mi (5.8 km) downstream.

AVERAGE DISCHARGE.--15 years, 163 ft^3/s (4.616 m^3/s), 12.64 in/yr (321 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,040 ft^3/s (29.5 m^3/s) Aug. 7 (gage height, 8.44 ft or 2.573 m, from high-water mark in well); minimum 16 ft^3/s (0.45 m^3/s) July 25 (gage height, 1.54 ft or 0.469 m).
Period of record: Maximum discharge, 18,000 ft^3/s (510 m^3/s) Oct. 7, 1972 (gage height, 24.80 ft or 7.559 m from floodmarks), from rating curve extended above 3,400 ft^3/s (96.3 m^3/s) on basis of slope-conveyance study of peak flow; minimum, 0.83 ft^3/s (0.024 m^3/s) Sept. 26, Oct. 2, 3, 1968.
Flood in July 1959 reached a stage of 19.3 ft (5.88 m), from floodmarks (discharge not determined).

REMARKS.--Records good except those for period of fragmentary gage-height record, which are fair.

REVISIONS (WATER YEARS).--WSP 1723: 1960(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	33	35	433	243	148	510	69	112	51	23	36
2	25	29	32	493	189	142	260	70	101	44	25	36
3	27	27	31	287	175	136	199	153	190	39	32	40
4	28	25	30	227	185	132	173	143	199	35	52	302
5	27	26	31	243	180	128	390	98	110	32	160	239
6	25	42	34	188	149	126	320	297	86	40	140	145
7	22	51	35	158	149	134	208	278	76	48	1,000	460
8	20	38	38	155	176	127	166	134	74	43	950	767
9	20	30	185	218	257	117	175	103	74	40	360	694
10	23	28	247	502	198	112	189	128	69	34	140	154
11	25	27	126	382	156	108	152	122	61	32	86	103
12	24	26	72	224	141	117	137	101	56	32	58	81
13	22	26	59	159	129	246	136	162	50	28	48	104
14	21	28	64	132	126	214	151	154	47	25	77	71
15	21	29	79	123	123	146	141	97	45	23	73	60
16	20	30	114	121	168	152	122	81	44	22	49	55
17	19	31	460	116	694	502	110	72	64	20	41	53
18	18	30	387	107	734	430	141	73	65	19	37	55
19	17	29	168	100	358	220	147	434	47	19	60	57
20	17	29	118	99	311	201	118	500	41	18	115	50
21	17	30	488	101	247	259	104	167	467	18	150	45
22	18	33	657	149	239	262	100	99	295	17	77	43
23	18	37	446	138	497	193	101	87	95	18	73	48
24	19	37	184	113	390	166	106	101	78	17	115	46
25	19	35	132	140	226	156	94	102	103	22	69	41
26	18	34	113	265	185	173	67	100	66	78	53	39
27	18	34	106	253	160	254	84	296	57	146	45	38
28	17	33	99	268	151	218	81	410	59	85	56	42
29	24	34	89	829	------	179	78	164	61	42	51	120
30	31	34	86	899	------	375	74	113	60	31	41	81
31	32	------	162	514	------	580	------	122	------	26	36	------
TOTAL	676	955	4,907	8,136	6,936	6,453	4,854	5,030	2,952	1,144	4,292	4,105
MEAN	21.8	31.8	158	262	248	208	162	162	98.4	36.9	138	137
MAX	32	51	657	899	734	580	510	500	467	146	1,000	767
MIN	17	25	30	99	123	108	74	69	41	17	23	36
CFSM	.12	.18	.90	1.50	1.42	1.19	.93	.93	.56	.21	.79	.78
IN.	.14	.20	1.04	1.73	1.47	1.37	1.03	1.07	.63	.24	.91	.87

CAL YR 1973 TOTAL 70,354 MEAN 193 MAX 3,460 MIN 17 CFSM 1.10 IN 14.96
WTR YR 1974 TOTAL 50,440 MEAN 138 MAX 1,000 MIN 17 CFSM .79 IN 10.72

PEAK DISCHARGE (BASE, 1,200 CFS).--No peak above base.

Note.--Fragmentary record July 28 to Aug. 13.

02083000 Fishing Creek near Enfield, N. C.

LOCATION.--Lat 36°09'03", long 77°41'35", Edgecombe County, on right bank 15 ft (5 m) downstream from bridge on U. S. Highway 301, 2,000 ft (610 m) downstream from Seaboard Coast Line Railroad bridge, 2 mi (3 km) southwest of Enfield, 4.8 mi (7.7 km) downstream from Rocky Creek, and 40 mi (64 km) upstream from mouth.

DRAINAGE AREA.--521 mi^2 (1,349 km^2).

PERIOD OF RECORD.--October 1923 to current year. Figures of daily discharge below 250 ft^3/s (7.08 m^3/s) Oct. 1, 1923, to July 3, 1924, below 350 ft^3/s (9.91 m^3/s) May 30, 1925, to May 31, 1926, below 150 ft^3/s (4.25 m^3/s) June 1 to Nov. 16, 1926, and below 100 ft^3/s (2.83 m^3/s) Nov. 17, 1926, to Sept. 30, 1928, published in WSP 622, 642, and 662 are unreliable and should not be used. Gage-height records collected at site 2,000 ft (610 m) upstream at different datum July 1, 1910, to Apr. 30, 1914, and at present site and datum since May 1, 1914, are contained in reports of National Weather Service, NOAA, U. S. Department of Commerce.

GAGE.--Water-stage recorder. Datum of gage is 76.26 ft (23.244 m) above mean sea level. Prior to Oct. 28, 1932, nonrecording gage, at same site and datum.

AVERAGE DISCHARGE.--51 years, 488 ft^3/s (13.82 m^3/s), 12.71 in/yr (323 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,120 ft^3/s (60.0 m^3/s) Sept. 10 (gage height, 11.82 ft or 3.603 m); minimum, 61 ft^3/s (1.73 m^3/s) Oct. 21; minimum gage height, 0.68 ft or 0.207 m July 22, 23.
Period of record: Maximum discharge, 12,600 ft^3/s (357 m^3/s) Dec. 2, 1934, Aug. 18, 1940; maximum gage height, 17.72 ft (5.401 m) Aug. 18, 1940; minimum daily discharge, 6.9 ft^3/s (0.20 m^3/s) Oct. 5, 1968.
The flood of Apr. 19, 1910 reached a stage of 20.1 ft (6.13 m), present datum (from floodmarks of Seaboard Coast Line Railroad Co.) at site 2,000 ft (610 m) upstream. Flood of July 24, 1919, reached a stage of 19.6 ft (5.97 m) discharge, 20,300 ft^3/s (575 m^3/s).

REMARKS.--Records good. Slight diurnal fluctuation and some regulation at low flow caused by mills above station.

REVISIONS (WATER YEARS).--WSP 872: 1935(M), WSP 1172: Drainage area. WSP 1333: 1928(M), 1932-33, 1935. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	109	126	738	1,210	451	1,450	204	333	154	76	139
2	83	110	134	1,150	719	436	1,040	197	304	135	74	130
3	86	102	122	1,090	560	417	714	249	292	121	93	138
4	90	96	113	768	545	401	560	390	479	112	157	369
5	94	93	110	713	550	385	681	331	380	104	382	611
6	91	93	113	657	495	373	847	450	264	103	365	581
7	84	113	114	535	445	375	653	806	217	116	696	1,210
8	77	148	121	488	480	379	504	572	197	117	1,050	1,690
9	73	128	212	486	604	356	470	366	192	116	1,060	1,990
10	71	112	541	958	667	335	506	320	188	119	937	1,770
11	76	104	569	1,140	540	319	480	395	177	120	552	901
12	84	101	391	651	460	321	410	343	160	113	352	802
13	83	98	258	596	410	436	387	417	151	105	220	298
14	79	98	207	452	390	628	430	575	137	93	186	291
15	76	101	214	390	380	501	450	420	130	86	210	221
16	74	105	269	372	404	410	394	296	126	81	179	192
17	72	108	678	360	1,360	826	337	243	136	78	158	180
18	69	107	1,010	341	1,760	1,160	350	212	180	75	155	179
19	66	107	807	318	1,640	872	435	358	162	73	144	180
20	63	105	513	304	1,130	623	403	793	131	70	188	180
21	62	105	684	305	868	635	334	584	260	68	303	165
22	62	109	1,300	344	715	717	298	328	604	67	282	166
23	64	113	1,390	435	1,040	641	285	253	329	67	220	170
24	65	124	939	392	1,270	532	289	268	179	69	283	174
25	67	129	583	425	933	489	290	274	182	73	238	166
26	69	122	397	656	671	492	263	257	194	82	185	149
27	68	119	343	763	539	643	246	355	159	125	158	138
28	67	118	318	754	474	697	235	876	151	302	153	142
29	70	117	294	1,460	------	580	226	665	155	138	272	197
30	79	115	270	1,830	------	912	216	382	163	98	271	371
31	88	------	317	1,880	------	1,290	------	323	------	84	180	------
TOTAL	2,336	3,309	13,457	21,951	21,259	17,632	14,183	12,502	6,712	3,264	9,779	13,880
MEAN	75.4	110	434	708	759	569	473	403	224	105	315	463
MAX	94	148	1,390	1,880	1,760	1,290	1,450	876	604	302	1,060	1,990
MIN	62	93	110	304	380	319	216	197	126	67	74	130
CFSM	.14	.21	.83	1.36	1.46	1.09	.91	.77	.43	.20	.60	.89
IN.	.17	.24	.96	1.57	1.52	1.26	1.01	.89	.48	.23	.70	.99

CAL YR 1973 TOTAL 212,931 MEAN 583 MAX 6,220 MIN 62 CFSM 1.12 IN 15.20
WTR YR 1974 TOTAL 140,264 MEAN 384 MAX 1,990 MIN 62 CFSM .74 IN 10.02

02083500 Tar River at Tarboro, N. C.

LOCATION.--Lat 35°53'38", long 77°32'00", Edgecombe County, near right bank on downstream end of pier of bridge on U. S. Highway 64 in Tarboro, 6.5 mi (10.5 km) downstream from Fishing Creek, and 49.2 mi (79.2 km) upstream from Pamlico River at Washington.

DRAINAGE AREA.--2,140 mi^2 (5,540 km^2), approximately.

PERIOD OF RECORD.--July 1896 to December 1900, October 1931 to current year. Gage-height records at various datums collected at same site since 1905 are contained in reports of National Weather Service, NOAA, U. S. Department of Commerce.

GAGE.--Water-stage recorder. Datum of gage is 10.37 ft (3.161 m) above mean sea level. July 1896 to December 1900 nonrecording gage at Seaboard Coast Line Railroad bridge 600 ft (183 m) downstream at different datum Oct. 1, to Dec. 8, 1931, nonrecording gage at site 100 ft (30 m) upstream at present datum.

AVERAGE DISCHARGE.--47 years, 2,229 ft^3/s (63.13 m^3/s), 14.15 in/yr (359 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,930 ft^3/s (196 m^3/s) Feb. 21 (gage height, 14.76 ft or 4.499 m); minimum, 152 ft^3/s (4.30 m^3/s) July 24, 25 (gage height, 1.58 ft or 0.482 m).
Period of record: Maximum discharge, 37,200 ft^3/s (1,050 m^3/s) Aug. 20, 1940 (gage height, 31.77 ft or 9.683 m); minimum, 36 ft^3/s (1.02 m^3/s) Oct. 17, 22, 1933, Oct. 6, 1968.
Flood of July 27, 1919, reached a stage of 34.0 ft (10.36 m), present datum, from floodmarks (discharge, 52,800 ft^3/s or 1,500 m^3/s).

REMARKS.--Records excellent. Some diurnal fluctuation at low flow caused by mills above station. Town of Tarboro diverted 2.4 ft^3/s (0.068 m^3/s) for municipal water supply. Water quality records for current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1273: 1899-1900, 1933. WSP 1503: 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	312	236	297	1,760	5,930	2,780	5,480	857	1,880	536	707	804
2	263	259	265	2,360	5,830	2,420	5,990	796	1,520	601	541	735
3	265	282	300	3,530	5,370	2,190	6,070	717	1,420	555	455	696
4	277	287	317	4,170	4,890	2,020	4,960	795	1,520	432	450	683
5	293	244	317	4,010	4,070	1,890	4,770	925	1,730	451	960	1,160
6	266	319	304	3,440	3,410	1,760	4,990	1,240	1,750	443	1,290	2,550
7	258	289	298	3,250	2,980	1,670	4,870	1,350	1,320	394	1,910	4,040
8	263	235	287	3,100	2,630	1,610	4,310	1,860	1,070	434	3,370	4,220
9	289	247	520	2,810	2,570	1,500	3,390	2,240	902	402	5,020	4,370
10	232	321	592	2,790	2,830	1,280	2,750	1,760	814	370	5,780	5,080
11	269	290	664	3,020	3,330	1,150	2,480	1,440	780	467	6,080	5,800
12	214	270	1,320	3,850	3,050	1,210	2,390	1,670	767	477	4,090	6,400
13	246	270	1,280	4,020	2,450	1,220	2,210	1,900	725	315	2,770	5,260
14	226	277	1,200	3,180	2,150	1,300	2,330	1,800	687	340	2,070	3,340
15	262	260	941	2,550	1,980	1,470	2,400	2,600	662	344	1,640	1,880
16	224	236	814	2,190	1,970	1,430	2,290	2,680	512	396	1,300	1,330
17	233	304	1,320	1,950	3,630	1,910	2,040	1,770	571	230	1,250	1,070
18	245	247	1,730	1,770	4,940	2,690	1,870	1,330	719	260	998	781
19	336	241	2,470	1,630	5,780	3,550	1,800	1,190	657	186	774	680
20	290	285	2,750	1,520	6,600	4,070	1,780	1,210	718	243	727	604
21	271	277	2,750	1,430	6,830	3,600	1,720	1,420	549	201	862	571
22	208	308	2,970	1,460	6,220	3,240	1,530	2,020	548	170	1,240	856
23	287	213	3,800	1,490	5,870	3,140	1,370	1,670	667	232	1,290	1,520
24	445	243	4,600	2,060	5,630	3,270	1,280	1,420	965	188	1,040	1,060
25	376	277	5,240	2,320	5,590	3,210	1,210	1,360	723	392	910	843
26	514	289	5,340	2,340	5,310	3,120	1,160	1,310	593	450	1,090	746
27	506	301	3,060	2,940	4,170	3,240	1,060	1,460	624	390	1,040	665
28	537	320	2,180	3,450	3,430	3,260	975	1,860	626	442	1,120	600
29	390	321	1,820	4,040	------	3,290	966	2,160	609	582	979	616
30	280	307	1,590	4,770	------	4,070	873	2,630	481	691	1,040	585
31	246	------	1,520	5,380	------	5,190	------	2,370	------	615	970	------
TOTAL	9,323	8,255	52,856	88,580	119,440	77,750	81,314	49,810	27,109	12,229	53,763	59,545
MEAN	301	275	1,705	2,857	4,266	2,508	2,710	1,607	904	394	1,734	1,985
MAX	537	321	5,340	5,380	6,830	5,190	6,070	2,680	1,880	691	6,080	6,400
MIN	208	213	265	1,430	1,970	1,150	873	717	481	170	450	571
CFSM	.14	.13	.80	1.34	1.99	1.17	1.27	.75	.42	.18	.81	.93
IN.	.16	.14	.92	1.54	2.08	1.35	1.41	.87	.47	.21	.93	1.04

CAL YR 1973 TOTAL 942,907 MEAN 2,583 MAX 18,000 MIN 208 CFSM 1.21 IN 16.39
WTR YR 1974 TOTAL 639,974 MEAN 1,753 MAX 6,830 MIN 170 CFSM .82 IN 11.12

02083800 Conetoe Creek near Bethel, N. C.

LOCATION.--Lat 35°46'33", long 77°27'45", Pitt County, on right bank 5 ft (2 m) downstream from bridge on Secondary Road 1409, 5.5 mi (8.8 km) downstream from Crisp Creek, and 5.5 mi (8.8 km) west of Bethel.

DRAINAGE AREA.--78.1 mi^2 (202 km^2).

PERIOD OF RECORD.--December 1956 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft or 9 m (from topographic map).

AVERAGE DISCHARGE.--17 years, (1957-74) 87.6 ft^3/s (2.481 m^3/s), 15.23 in/yr (387 mm/yr).

EXTREMES.--Current year: Maximum discharge, 892 ft^3/s (25.3 m^3/s) Mar. 31 (gage height, 11.67 ft or 3.557 m); minimum, 2.3 ft^3/s (0.065 m^3/s) Oct. 26, 27 (gage height, 0.09 ft or 0.027 m).

Period of record: Maximum discharge, 2,580 ft^3/s (73.1 m^3/s) Aug. 23, 1967 (gage height, 15.74 ft or 4.798 m); minimum daily, 1.3 ft^3/s (0.037 m^3/s) Nov. 6, 1968.

Flood of 1955 reached a stage of 16.7 ft (5.09 m), from information by local resident (discharge not determined).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	3.2	3.8	147	93	82	456	30	65	22	22	50
2	6.2	3.2	3.6	155	88	75	253	29	64	20	26	44
3	6.5	2.9	3.6	116	535	70	191	31	99	18	68	41
4	5.3	2.9	3.8	102	491	65	170	29	89	17	86	37
5	4.7	3.2	3.9	112	266	61	474	29	69	16	522	33
6	4.4	3.1	3.8	100	179	56	483	40	57	16	779	38
7	4.3	3.2	3.6	107	155	53	266	40	48	16	845	179
8	4.1	3.5	5.9	116	160	50	187	34	44	15	764	184
9	3.9	3.4	42	100	158	47	181	31	40	17	461	133
10	3.8	3.4	22	116	128	45	161	35	36	16	721	99
11	3.6	3.4	17	104	113	41	129	34	32	15	628	77
12	3.5	3.5	14	91	98	43	110	33	28	14	280	61
13	3.5	3.5	14	74	90	48	145	34	26	13	190	50
14	3.7	3.5	27	64	82	46	257	31	24	13	338	42
15	3.5	3.5	24	60	82	41	186	28	23	12	188	37
16	3.3	3.5	34	57	126	67	134	26	22	11	159	33
17	3.2	3.5	130	53	611	222	105	24	42	11	215	31
18	3.2	3.5	88	48	425	153	94	23	43	10	174	35
19	3.1	3.6	60	47	263	119	84	26	30	10	128	35
20	2.9	3.5	51	47	342	247	73	26	25	9.7	103	31
21	2.9	3.6	202	66	230	205	65	24	23	9.4	90	29
22	2.8	4.0	156	113	193	165	60	22	21	9.3	117	45
23	2.6	3.8	99	90	209	129	56	25	20	8.8	109	121
24	2.8	3.8	78	78	157	307	51	31	81	8.6	102	91
25	2.8	4.0	64	129	132	283	46	38	69	10	92	71
26	2.5	3.9	58	167	109	402	43	32	42	27	78	57
27	2.5	3.8	56	158	95	340	40	145	32	24	82	47
28	4.8	3.9	51	128	67	246	37	132	30	120	74	41
29	4.6	3.9	46	149	------	233	34	92	29	58	61	38
30	3.9	3.8	43	133	------	805	32	76	25	35	73	34
31	3.7	------	80	108	------	826	------	78	------	26	64	------
TOTAL	118.6	105.5	1,488.0	3,135	5,697	5,572	4,603	1,308	1,278	627.8	7,639	1,844
MEAN	3.83	3.52	48.0	101	203	180	153	42.2	42.6	20.3	246	61.5
MAX	6.5	4.0	202	167	611	826	483	145	99	120	845	184
MIN	2.5	2.9	3.6	47	82	41	32	22	20	8.6	22	29
CFSM	.05	.05	.61	1.29	2.60	2.30	1.96	.54	.55	.26	3.15	.79
IN.	.06	.05	.71	1.49	2.71	2.65	2.19	.62	.61	.30	3.64	.88

CAL YR 1973 TOTAL 25,349.1 MEAN 69.4 MAX 838 MIN 2.5 CFSM .89 IN 12.07
WTR YR 1974 TOTAL 33,415.9 MEAN 91.6 MAX 845 MIN 2.5 CFSM 1.17 IN 15.92

PEAK DISCHARGE (BASE, 470 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 3	1730	9.34	644	4- 6	0030	8.54	564
2-17	1400	9.64	674	8- 7	1430	11.36	853
3-31	0130	11.67	892	8-10	2000	10.68	778

02084500 Herring Run near Washington, N. C.

LOCATION.--Lat 35°34'03", long 77°01'09", Beaufort County, on left bank 10 ft (3 m) downstream from bridge on Secondary Road 1506, 400 ft (122 m) upstream from Pineywood Branch, 1.2 mi (1.9 km) upstream from mouth, and 2.8 mi (4.5 km) northeast of Washington.

DRAINAGE AREA.--About 15 mi^2 (39 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements in 1949. January 1950 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 2 ft or 0.6 m (from topographic map). Prior to May 8, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years. 10.6 ft^3/s (0.300 m^3/s), 9.60 in/yr (244 mm/yr).

EXTREMES.--Current year: Maximum discharge, 206 ft^3/s (5.83 m^3/s) Aug. 5 (gage height, 10.71 ft or 3.264 m); minimum, 0.50 ft^3/s (0.014 m^3/s) Nov. 21 (gage height, 5.05 ft or 1.539 m).
Period of record: Maximum discharge, 620 ft^3/s (17.6 m^3/s) Sept. 13, 1964 (gage height, 14.85 ft or 4.526 m from floodmark); minimum, 0.60 ft^3/s (0.017 m^3/s) July 5-8, 1964.
Flood in 1946 reached a stage of 17 ft (5.2 m), from information by local resident (discharge not determined).

REMARKS.--Records good. Runoff affected by ditches and canals above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	.73	.74	6.2	16	7.5	26	3.1	8.1	2.8	8.9	35
2	1.1	.72	.74	6.5	13	6.9	21	3.2	34	2.3	8.9	61
3	1.2	.74	.69	6.5	53	6.0	15	2.7	32	1.9	9.2	56
4	.87	.69	.65	6.5	49	5.5	11	2.7	24	1.6	9.5	34
5	.82	.70	.74	6.8	35	4.9	45	2.7	17	3.3	65	25
6	.78	.69	.79	6.7	27	4.7	37	4.2	12	4.2	70	22
7	.79	.70	.77	6.5	24	4.3	27	4.0	9.2	29	42	25
8	.79	.69	3.1	6.7	24	4.2	22	3.6	7.2	20	28	21
9	.79	.68	27	6.6	24	3.9	29	3.3	5.7	7.3	29	16
10	.79	.63	12	7.6	20	3.6	25	3.5	4.7	6.5	45	12
11	.77	.68	6.8	7.2	16	3.3	20	3.1	4.3	6.4	31	9.4
12	.77	.69	5.1	6.4	14	3.5	15	3.3	3.5	5.6	21	7.6
13	.76	.69	4.5	5.4	11	3.9	52	3.6	2.9	4.2	14	6.2
14	.78	.78	11	4.8	9.2	3.7	87	3.1	2.6	3.4	10	5.1
15	.77	.67	8.3	4.6	10	3.3	44	2.5	2.2	2.8	7.4	4.4
16	.76	.63	17	4.4	17	11	32	2.2	2.1	2.2	6.1	3.9
17	.75	.60	45	4.1	37	28	25	2.1	1.8	1.9	6.1	14
18	.74	.68	27	3.8	29	21	19	2.1	1.6	1.7	6.1	31
19	.74	1.2	20	3.8	26	15	13	3.3	1.6	1.5	7.4	18
20	.75	.76	16	3.8	30	16	9.5	2.6	1.5	1.4	6.3	12
21	.74	.69	38	15	24	15	7.5	2.2	1.4	1.4	5.5	9.3
22	.74	.70	29	26	22	13	6.3	2.0	1.3	1.3	12	7.3
23	.75	.76	22	20	23	18	6.0	2.0	1.4	1.2	20	6.1
24	.73	.72	18	17	19	26	5.7	2.1	2.1	1.2	36	5.1
25	.71	.68	14	33	15	31	4.9	1.9	1.7	1.4	45	4.5
26	.71	.72	12	26	12	42	4.3	1.9	1.5	1.3	54	4.0
27	.71	.79	10	23	9.5	32	4.0	28	3.9	9.4	39	3.6
28	.70	.78	8.7	19	8.5	26	3.6	18	6.9	16	29	3.4
29	.83	.75	7.3	21	------	25	3.2	11	4.7	4.8	23	3.2
30	.74	.75	6.5	22	------	44	2.9	8.8	3.6	3.3	18	2.8
31	.74	------	6.4	20	------	34	------	9.5	------	6.7	26	------
TOTAL	24.42	21.69	379.82	356.9	617.2	466.2	622.9	148.3	206.5	158.0	738.4	467.9
MEAN	.79	.72	12.3	11.5	22.0	15.0	20.8	4.78	6.88	5.10	23.8	15.6
MAX	1.2	1.2	45	33	53	44	87	28	34	29	70	61
MIN	.70	.60	.65	3.8	8.5	3.3	2.9	1.9	1.3	1.2	5.5	2.8

CAL YR 1973 TOTAL 3,055.15 MEAN 8.37 MAX 92 MIN .60
WTR YR 1974 TOTAL 4,208.23 MEAN 11.5 MAX 87 MIN .60

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-13	2100	10.32	181	8- 5	2130	10.71	206
7- 7	1900	9.96	160	9- 2	1800	10.19	173

02084540 Durham Creek at Edward, N. C.

LOCATION.--Lat 35°19'25", long 76°52'26", Beaufort County, on left bank 5 ft (2 m) downstream from bridge on Secondary Road 1949, at Edward, and 6.8 mi (10.9 km) upstream from mouth.

DRAINAGE AREA.--About 26 mi^2 or 67 km^2, (revised).

PERIOD OF RECORD.--Occasional low-flow measurements water years 1950-54, 1956-65. August 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.19 ft (0.058 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 39.4 ft^3/s (1.116 m^3/s), 25.48 in/yr (647 mm/yr).

EXTREMES.--Current year: Maximum discharge, 638 ft^3/s (18.1 m^3/s) June 3 (gage height, 9.47 ft or 2.886 m); no flow Oct. 2 to Dec. 3.
Period of record: Maximum discharge, 2,070 ft^3/s (58.6 m^3/s) Oct. 1, 1971 (gage height, 13.24 ft or 4.036 m); no flow at times many years.

REMARKS.--Records good above 5 ft^3/s (0.14 m^3/s), and fair below. Runoff affected by ditches and canals above station. Water quality records for the current year are published in Part 2 of this report. Recording rain gage discontinued.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04		0	36	71	32	90	6.3	108	27	8.2	41
2	0		0	37	65	29	68	6.0	423	22	9.4	45
3	0		0	36	72	25	51	5.8	574	17	11	100
4	0		.10	34	90	22	41	5.6	394	13	15	162
5	0		.22	33	89	21	61	5.4	256	10	52	139
6	0		.31	31	74	18	91	6.8	173	9.0	88	103
7	0		.46	29	65	17	73	7.9	120	10	151	89
8	0		1.9	27	63	16	51	7.0	86	12	197	85
9	0		21	25	63	15	60	7.0	61	10	229	70
10	0		39	24	54	14	75	9.8	43	8.0	265	56
11	0		34	23	46	13	56	9.6	32	6.8	200	43
12	0		24	22	38	15	44	36	25	5.6	131	33
13	0		17	19	33	20	46	240	20	4.7	85	26
14	0		19	18	29	21	98	221	17	3.7	89	27
15	0		21	16	30	19	176	156	15	2.9	64	29
16	0		26	15	38	19	161	167	13	2.4	42	30
17	0		81	14	78	32	102	74	12	4.7	32	28
18	0		121	14	95	37	73	51	10	6.6	23	30
19	0		105	14	94	35	52	38	8.8	6.7	19	27
20	0		80	16	124	44	38	29	7.7	6.0	16	24
21	0		145	18	130	49	28	22	6.7	5.0	14	21
22	0		208	29	114	51	22	21	5.8	4.6	16	18
23	0		173	32	110	45	20	27	5.0	4.2	23	15
24	0		127	33	94	44	18	31	5.5	3.4	67	13
25	0		98	32	76	46	15	27	5.6	2.8	148	11
26	0		79	29	59	89	13	24	5.6	2.3	157	9.4
27	0		67	27	47	95	11	83	12	8.2	143	8.1
28	0		57	24	38	83	9.2	162	45	34	121	7.8
29	0		50	28	------	76	8.3	175	46	19	89	8.0
30	0		46	44	------	109	7.2	136	36	12	67	7.3
31	0	------	40	66	------	115	------	120	------	8.7	48	------
TOTAL	.04	0	1,680.99	845	1,979	1,266	1,658.7	1,857.2	2,571.7	292.3	2,619.6	1,305.6
MEAN	.001	0	54.2	27.3	70.7	40.8	55.3	59.9	85.7	9.43	84.5	43.5
MAX	.04	0	208	66	130	115	176	240	574	34	265	162
MIN	0	0	0	14	29	13	7.2	5.4	5.0	2.3	8.2	7.3

CAL YR 1973 TOTAL 15,108.84 MEAN 41.4 MAX 420 MIN 0
WTR YR 1974 TOTAL 16,076.13 MEAN 44.0 MAX 574 MIN 0

02085070 Eno River near Durham, N. C.

LOCATION.--Lat 36°04'21", long 78°54'24", Durham County, on right bank 275 ft (84 m) downstream from bridge on U. S. Highway 501, 0.2 mi (0.3 km) downstream from Crooked Creek, and 5 mi (8 km) north of Durham.

DRAINAGE AREA.--141 mi^2 (365 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1955. August 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft or 82 m (from topographic map). Prior to Nov. 19. 1966, at site 275 ft (84 m) upstream at datum 2.35 ft (0.716 m) higher. Nov. 20, 1966 to Sept. 30, 1967 water-stage recorder and crest-stage gage at present site at datum 0.94 ft (0.287 m) higher.

AVERAGE DISCHARGE.--11 years, 124 ft^3/s (3.512 m^3/s), 11.94 in/yr (303 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,560 ft^3/s (129 m^3/s) Sept. 7 (gage height, 13.47 ft or 4.106 m); minimum, 6.3 ft^3/s (0.18 m^3/s) Oct. 24, 25; minimum gage height, 1.34 ft or 0.408 m Aug. 2.
Period of record: Maximum discharge, 9,080 ft^3/s (257 m^3/s) Feb. 7, 1965 (gage height, 15.18 ft or 4.627 m, site and datum then in use); minimum, 0.53 ft^3/s (0.015 m^3/s) Oct. 1, 5, 1968.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WRD N. C. 1972: 1968-71(M), 1971(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	14	11	771	169	117	305	54	172	47	9.3	53
2	20	15	11	350	144	110	221	79	136	40	8.2	1,050
3	17	14	11	365	163	106	177	172	130	35	9.6	490
4	14	11	10	291	231	101	157	115	99	32	13	543
5	14	8.8	10	240	181	94	335	99	76	31	68	257
6	14	8.5	14	180	147	97	264	292	68	31	754	819
7	12	10	17	154	265	101	176	167	62	31	398	3,680
8	12	10	35	131	537	91	148	95	59	32	124	677
9	14	9.5	259	188	458	86	304	294	58	31	75	315
10	16	9.4	96	330	261	83	243	395	55	28	58	195
11	15	9.4	44	208	199	81	169	196	53	28	44	135
12	13	11	30	154	164	90	143	725	52	26	33	104
13	12	11	27	113	144	113	132	965	48	23	27	86
14	13	9.4	35	94	131	100	136	298	47	21	47	73
15	12	9.3	38	88	125	84	126	178	48	20	30	65
16	11	9.0	114	86	183	126	107	129	70	19	26	59
17	10	9.4	220	81	450	303	94	105	133	17	24	65
18	9.7	9.9	102	77	299	189	95	101	78	16	37	76
19	9.0	10	63	72	227	139	93	320	56	14	34	64
20	8.1	10	459	70	257	165	85	258	49	15	28	54
21	7.1	11	1,380	641	191	236	78	226	47	11	24	49
22	6.8	12	386	522	315	255	75	128	50	10	23	46
23	6.6	14	180	244	408	170	79	144	43	14	26	44
24	6.3	13	117	174	231	141	80	204	39	14	38	43
25	6.6	13	88	214	183	127	71	117	37	15	28	41
26	6.6	12	76	293	149	128	66	84	36	21	118	40
27	6.6	11	71	458	132	149	64	457	44	16	228	40
28	6.8	12	66	294	121	134	62	284	65	16	49	56
29	11	12	62	542	------	260	61	150	68	16	34	75
30	9.7	12	71	312	------	1,080	58	110	57	14	28	53
31	11	------	194	214	------	584	------	93	------	12	30	------
TOTAL	356.9	330.6	4,297	7,951	6,465	5,640	4,204	7,034	2,035	696	2,473.1	9,347
MEAN	11.5	11.0	139	256	231	182	140	227	67.8	22.5	79.8	312
MAX	26	15	1,380	771	537	1,080	335	965	172	47	754	3,680
MIN	6.3	8.5	10	70	121	81	58	54	36	10	8.2	40
CFSM	.08	.08	.99	1.82	1.64	1.29	.99	1.61	.48	.16	.57	2.21
IN.	.09	.09	1.13	2.10	1.71	1.49	1.11	1.86	.54	.18	.65	2.47

CAL YR 1973 TOTAL 69,543.5 MEAN 191 MAX 4,570 MIN 6.3 CFSM 1.35 IN 18.35
WTR YR 1974 TOTAL 50,829.6 MEAN 139 MAX 3,680 MIN 6.3 CFSM .99 IN 13.41

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
9- 2	0530	10.25	3,020	9 -7	1200	13.47	4,560

02085220 Little River near Orange Factory, N. C.

LOCATION.--Lat 36°08'20", long 78°54'24", Durham County, on right bank 125 ft (38 m) upstream from bridge on U. S. Highway 501, 1 mi (2 km) upstream from Mountain Creek, and 1.2 mi (1.9 km) northwest of Orange Factory.

DRAINAGE AREA.--81.6 mi^2 (211 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1930, 1954-59, 1961. September 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 333.98 ft (101.797 m) above mean sea level (levels by North Carolina State Highway Commission).

AVERAGE DISCHARGE.--13 years, 71.4 ft^3/s (2.022 m^3/s), 11.88 in/yr (302 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,880 ft^3/s (110 m^3/s) Sept. 7 (gage height, 7.75 ft or 2.362 m); minimum, 3.8 ft^3/s (0.11 m^3/s) Oct. 26; minimum gage height, 0.73 ft or 0.223 m, Oct. 18, 19-21, 22, 23, 24, 25, 26.
Period of record: Maximum discharge, 9,070 ft^3/s (257 m^3/s) Oct. 25, 1971 (gage height, 12.56 ft or 3.828 m from high-water mark in well); minimum daily, 0.05 ft^3/s (0.001 m^3/s) Oct. 5, 6, 1968.
A field estimate of 0.03 ft^3/s (0.001 m^3/s) was made on Sept. 18, 19, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	6.7	7.0	344	70	52	139	46	75	21	5.2	17
2	9.0	5.9	6.8	123	61	49	101	54	56	19	4.8	231
3	9.0	5.2	6.2	130	63	47	86	101	72	17	5.5	116
4	8.5	5.4	6.5	121	95	44	80	68	42	15	6.4	164
5	8.6	5.8	6.7	98	72	44	175	62	35	15	45	63
6	7.1	6.0	7.2	72	59	46	123	236	33	15	146	601
7	6.1	6.6	7.0	60	134	46	85	94	30	15	85	2,590
8	6.1	6.5	11	52	306	45	79	61	29	14	27	250
9	6.6	6.6	69	144	207	44	196	214	29	13	18	89
10	7.3	6.6	30	170	104	44	122	215	29	11	15	53
11	7.8	6.2	15	91	82	45	88	101	31	10	13	32
12	7.0	6.2	11	66	67	50	77	453	28	9.5	12	30
13	6.3	6.5	9.8	49	59	59	75	422	25	8.7	11	25
14	6.2	6.7	12	41	54	53	79	111	25	8.7	10	22
15	5.7	6.3	15	38	61	47	73	74	25	8.1	10	19
16	5.5	6.7	32	36	100	62	65	59	29	7.4	23	19
17	5.0	6.5	83	34	325	179	62	50	30	7.0	52	19
18	4.3	6.2	38	32	145	90	64	44	22	6.6	20	22
19	4.1	6.2	29	30	104	68	62	42	19	6.2	14	20
20	4.0	6.3	306	29	139	69	58	64	19	6.2	13	18
21	4.1	6.9	1,040	656	90	115	56	49	30	6.3	12	18
22	4.1	7.9	184	247	183	120	55	41	23	6.2	11	17
23	4.2	7.5	79	100	193	78	59	49	21	6.4	12	17
24	4.2	8.0	56	72	99	66	59	57	21	6.1	12	17
25	4.2	7.6	47	73	80	61	56	41	19	5.9	11	17
26	4.0	7.0	38	218	65	63	51	38	20	5.8	11	17
27	4.1	7.3	36	273	57	77	49	128	23	6.1	12	17
28	4.2	7.2	34	127	54	67	47	79	31	6.3	10	23
29	5.7	7.6	29	341	------	160	47	47	29	5.5	9.6	27
30	5.3	7.2	31	131	------	570	47	38	24	5.0	9.0	20
31	6.6	------	71	88	------	300	------	37	------	6.7	11	------
TOTAL	182.9	199.3	2,353.2	4,088	3,128	2,860	2,415	3,175	924	299.7	656.5	4,590
MEAN	5.90	6.64	75.9	132	112	92.3	80.5	102	30.8	9.67	21.2	153
MAX	9.0	8.0	1,040	656	325	570	196	453	75	21	146	2,590
MIN	4.0	5.2	6.2	29	54	44	47	37	19	5.0	4.8	17
CFSM	.07	.08	.93	1.62	1.37	1.13	.99	1.25	.38	.12	.26	1.88
IN.	.08	.09	1.07	1.86	1.43	1.30	1.10	1.45	.42	.14	.30	2.09

CAL YR 1973 TOTAL 34,789.7 MEAN 95.3 MAX 2,870 MIN 4.0 CFSM 1.17 IN 15.86
WTR YR 1974 TOTAL 24,871.6 MEAN 68.1 MAX 2,590 MIN 4.0 CFSM .83 IN 11.34

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-21	1330	4.75	1,600	9- 7	1100	7.75	3,880

02085500 Flat River at Bahama, N. C.

LOCATION.--Lat 36°10'57", long 78°52'44", Durham County, on right bank 0.5 mi (0.8 km) upstream from Lake Michie, 1.2 mi (1.9 km) upstream from bridge on Secondary Road 1616, 1.2 mi (1.9 km) north of Bahama, and 1.5 mi (2.4 km) upstream from Dial Creek.

DRAINAGE AREA.--150 mi^2 (388 km^2).

PERIOD OF RECORD.--July 1925 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 346.85 ft (105.720 m) above mean sea level. Prior to Oct. 22, 1925, nonrecording gage at same site at datum 0.58 ft (0.177 m) lower.

AVERAGE DISCHARGE.--49 years, 142 ft^3/s (4.021 m^3/s), 12.86 in/yr (327 mm/yr).

EXTREMES.--Current year: Maximum discharge, 13,400 ft^3/s (379 m^3/s) Sept. 7 (gage height, 10.94 ft or 3.335 m); minimum, 5.6 ft^3/s (0.16 m^3/s) Oct. 21, 22, 25 (gage height, 1.04 ft or 0.317 m).
Period of record: Maximum discharge, about 20,000 ft^3/s (566 m^3/s) July 26, 1938 (gage height, not determined), computed on basis of records for nearby stations; minimum, 0.23 ft^3/s (0.007 m^3/s) Sept. 26, 28, 29, Oct. 1, 1968.

REMARKS.--Records good. Prior to December 1962, some diurnal fluctuation and infrequent regulation at low flow caused by small mill 5 mi (8 km) upstream.

REVISIONS (WATER YEARS).--WSP 1333: 1926, 1928(M), 1938, 1946.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	13	13	933	203	124	278	56	132	34	11	32
2	10	15	13	355	169	116	208	55	124	29	13	123
3	10	14	13	317	159	110	167	178	81	26	25	161
4	10	12	13	337	254	105	149	124	68	23	23	839
5	11	13	13	283	186	100	290	91	61	21	141	267
6	9.8	15	13	196	143	102	233	667	53	19	374	1,490
7	9.0	16	14	169	321	110	154	221	51	19	297	8,230
8	8.5	21	22	149	586	100	133	124	48	21	86	805
9	8.5	19	240	465	485	93	482	466	46	21	58	375
10	8.5	13	113	525	261	88	271	508	46	26	46	226
11	8.1	12	55	275	206	84	181	237	53	23	37	161
12	8.1	9.7	39	199	169	110	147	399	46	18	31	154
13	8.5	9.2	35	140	143	220	137	708	42	15	26	108
14	8.2	9.2	44	116	133	146	141	217	38	14	22	87
15	8.0	9.7	64	108	140	108	125	133	36	14	20	75
16	7.9	10	105	102	237	162	105	101	35	13	56	69
17	7.7	10	286	97	1,020	460	95	84	36	12	412	65
18	9.0	11	130	88	446	216	104	74	39	11	335	68
19	8.4	11	86	81	297	156	103	104	37	11	883	67
20	8.1	11	597	81	436	159	89	134	33	9.8	232	59
21	7.3	12	2,980	1,010	254	264	81	114	30	9.4	84	54
22	6.3	12	535	641	441	294	77	78	29	9.1	54	51
23	6.7	13	244	279	475	179	85	74	27	9.5	61	48
24	6.4	14	169	199	250	146	97	83	27	9.6	64	40
25	6.6	15	124	193	206	127	77	70	24	9.6	36	36
26	7.4	14	105	708	165	133	71	61	23	18	86	34
27	7.6	13	97	816	140	165	69	176	27	26	71	32
28	9.2	13	88	382	130	136	64	155	38	24	37	32
29	12	13	75	1,000	------	166	62	85	43	23	33	35
30	13	13	79	386	------	845	59	69	39	16	30	37
31	12	------	127	257	------	594	------	64	------	13	31	------
TOTAL	271.8	385.8	6,531	10,887	8,055	5,918	4,334	5.710	1,412	547.0	3,715	13,860
MEAN	8.77	12.9	211	351	288	191	144	184	47.1	17.6	120	462
MAX	13	21	2,980	1,010	1,020	845	482	708	132	34	883	8,230
MIN	6.3	9.2	13	81	130	84	59	55	23	9.1	11	32
CFSM	.06	.09	1.41	2.34	1.92	1.27	.96	1.23	.31	.12	.80	3.08
IN.	.07	.10	1.62	2.70	2.00	1.47	1.07	1.42	.35	.14	.92	3.44

CAL YR 1973 TOTAL 76,044.6 MEAN 208 MAX 5,620 MIN 6.3 CFSM 1.39 IN 18.86
WTR YR 1974 TOTAL 61,626.6 MEAN 169 MAX 8,230 MIN 6.3 CFSM 1.13 IN 15.28

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
9- 7	0900	10.94	13,400				

02087000 Neuse River near Northside, N. C.

LOCATION.--Lat 36°02'54", long 78°44'59", Durham County, on right bank 25 ft (8 m) upstream from Fish Dam Bridge on Secondary Road 1801, 1.5 mi (2.4 km) downstream from Rocky Creek, 2.5 mi (4.0 km) downstream from Seaboard Coast Line Railroad bridge, 2.5 mi (4.0 km) south of Northside, 8.5 mi (13.7 km) downstream from confluence of Eno and Flat Rivers, and 9.5 mi (15.3 km) northeast of Durham.

DRAINAGE AREA.--526 mi^2 (1,362 km^3).

PERIOD OF RECORD.--July 1927 to current year.

GAGE.--Water-stage recorder. Datum of gage is 225.91 ft (68.857 m) above mean sea level. Prior to June 2, 1928, nonrecording gage at site 10 ft (3 m) upstream at same datum. Mar. 25, 1949, to Sept. 28, 1950, auxiliary nonrecording gage, and Sept. 29, 1950, to Jan. 14, 1968, auxiliary water-stage recorder at bridge on U. S. Highway 15, 4 mi (6 km) upstream. Mar. 5, 1968 to Oct. 7, 1969, auxiliary water-stage recorder and since Oct. 7, 1969, nonrecording auxiliary gage on bridge on Secondary Road 1900, 3.7 mi (6.0 km) downstream.

AVERAGE DISCHARGE.--47 years, 516 ft^3/s (14.61 m^3/s) 13.32 in/yr (338 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,400 ft^3/s (266 m^3/s) Sept. 8 (gage height, 22.06 ft or 6.724 m); minimum daily, 25 ft^3/s (0.71 m^3/s) July 20.
Period of record: Maximum discharge, 36,600 ft^3/s (1,040 m^3/s) Sept. 18, 1945; maximum gage height, 31.02 ft or 9.455 m Sept. 18, 1945, from floodmark; minimum discharge, 3.1 ft^3/s (0.088 m^3/s) Sept. 30, 1932 (gage height 0.87 ft or 0.265 m).

REMARKS.--Records good. Slight diurnal fluctuation caused by water plants above station. Flow regulated by Lake Michie (see p. 134). An average of 24.7 ft^3/s (0.70 m^3/s) was diverted from Flat River, an upstream tributary, for Durham municipal water supply, and an average of 3.2 ft^3/s (0.091 m^3/s) from Knap of Reeds Creek, an upstream tributary for Butner municipal water supply. Sewage effluent from Durham (about 10.3 ft^3/s or 0.29 m^3/s) and Butner was returned to Neuse River 3 mi (5 km) upstream from station, and the remainder, about 10.3 ft^3/s (0.29 m^3/s) was diverted into the Cape Fear River basin.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1032: 1933(M), 1935-36, 1937(M), 1938-39, 1944(M). WSP 1333: 1928-31, 1933, 1934(M). WSP 1703: 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	42	44	1,800	645	400	2,120	207	568	102	35	171
2	68	46	38	2,280	513	384	956	266	630	85	28	1,260
3	59	47	37	1,250	510	362	636	429	578	72	35	1,210
4	51	48	39	972	713	351	540	395	464	63	66	1,070
5	48	40	42	901	695	333	803	306	308	59	114	1,480
6	45	40	43	722	494	321	1,040	1,120	246	61	687	823
7	39	38	43	564	728	332	654	1,080	224	70	1,910	3,550
8	36	39	62	490	1,290	322	496	492	207	64	570	8,280
9	46	41	567	544	2,040	292	972	538	174	62	277	4,500
10	43	38	450	1,460	1,230	270	1,050	1,760	177	70	203	2,210
11	46	35	182	1,010	722	267	650	1,080	198	60	129	1,010
12	46	32	102	664	559	290	500	909	233	50	112	576
13	45	35	74	472	474	395	422	2,980	186	46	104	376
14	43	38	111	356	402	440	444	3,110	170	40	125	273
15	38	40	101	326	400	339	429	1,150	158	37	156	222
16	40	43	288	302	500	374	375	475	152	43	118	198
17	44	41	810	282	1,840	1,130	312	375	277	36	199	200
18	42	38	491	258	1,940	972	357	306	287	31	385	247
19	42	37	254	232	1,000	578	306	516	188	28	647	207
20	40	41	400	218	1,030	546	284	742	166	25	968	183
21	39	44	2,590	445	907	627	257	728	148	35	310	164
22	32	60	4,260	2,260	916	961	239	424	124	45	175	139
23	32	44	3,270	1,490	1,580	710	253	394	97	30	183	139
24	39	42	1,190	704	1,060	520	284	512	93	38	267	150
25	41	41	469	770	704	459	235	378	79	60	170	139
26	38	38	354	916	569	452	213	269	80	143	112	140
27	38	42	306	1,720	483	498	195	1,010	96	49	420	138
28	36	46	274	1,380	419	500	182	1,210	142	38	266	194
29	63	64	245	2,130	------	500	178	618	161	35	142	178
30	51	46	242	2,000	------	2,390	214	363	132	32	140	181
31	42	------	555	928	------	3,180	------	287	------	30	95	------
TOTAL	1,361	1,266	17,933	29,846	24,363	19,495	15,596	24,429	6,743	1,639	9,148	29,608
MEAN	43.9	42.2	578	963	870	629	520	788	225	52.9	295	987
MAX	68	64	4,260	2,280	2,040	3,180	2,120	3,110	630	143	1,910	8,280
MIN	32	32	37	218	400	267	178	207	79	25	28	138
CFSM	.08	.08	1.10	1.83	1.65	1.20	.99	1.50	.43	.10	.56	1.88
IN.	.10	.09	1.27	2.11	1.72	1.38	1.10	1.73	.48	.12	.65	2.09

CAL YR 1973 TOTAL 255,200 MEAN 699 MAX 10,600 MIN 32 CFSM 1.33 IN 18.05
WTR YR 1974 TOTAL 181,427 MEAN 497 MAX 8,280 MIN 25 CFSM .94 IN 12.83

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	1600	17.52	4,560	9- 8	1400	22.06	9,400

02087183 Neuse River near Falls, N. C.

LOCATION.--Lat 35°56'24", long 78°34'32", Wake County, on left bank, 0.3 mi (0.5 km) downstream from bridge on Secondary Road 2000, 0.4 mi (0.6 km) northeast of Falls, and 0.5 mi (0.8 km) downstream from Honeycutt Creek.

DRAINAGE AREA.--770 mi^2 (1,994 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 182.62 ft (55.663 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 7,410 ft^3/s (210 m^3/s) Sept. 10 (gage height, 18.79 ft or 5.727 m); minimum, 21 ft^3/s (0.59 m^3/s) Aug. 2 (gage height, 1.88 ft or 0.573 m).
Period of record: Maximum discharge, 11,200 ft^3/s (317 m^3/s) June 29, 1973 (gage height, 23.02 ft or 7.016 m); minimum, 7.2 ft^3/s (0.20 m^3/s) Oct. 12, 13, 1971 (gage height, 1.62 ft or 0.494 m).

REMARKS.--Records good. Diversions for municipal water supply for cities of Durham and Butner (see sta 02087000). The city of Raleigh diverted an average of 21.3 ft^3/s (0.60 m^3/s) 1.2 mi (1.9 km) upstream from station for municipal water supply, most of which was returned downstream as sewage effluent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	55	61	2,410	1,440	559	4,020	239	507	156	44	132
2	66	40	56	3,470	1,040	538	2,880	291	1,100	130	32	1,160
3	80	38	47	3,260	923	511	1,250	563	1,060	111	51	2,090
4	67	45	42	2,220	1,180	470	893	594	1,000	97	118	3,040
5	53	45	51	1,850	1,320	453	1,010	436	595	86	188	2,570
6	51	42	55	1,500	1,000	412	1,610	1,200	370	73	590	1,760
7	42	23	46	1,100	982	410	1,250	1,990	278	86	3,250	3,050
8	46	38	80	923	1,790	412	811	1,040	262	80	2,360	4,400
9	48	46	456	858	2,890	391	876	570	233	78	639	6,330
10	52	49	800	1,860	2,850	350	1,510	1,780	210	80	352	7,340
11	45	52	410	2,340	1,590	345	1,200	2,210	213	79	231	6,330
12	42	51	219	1,460	1,040	366	791	1,530	230	69	180	3,280
13	39	41	169	954	844	442	637	3,410	235	60	166	672
14	52	37	169	671	709	556	639	3,970	192	45	207	452
15	51	45	173	535	651	488	614	3,460	187	44	182	340
16	41	40	319	499	748	445	511	1,200	184	46	208	300
17	37	41	1,250	456	2,040	1,350	426	570	253	48	371	284
18	38	57	1,230	412	3,090	1,880	440	441	324	42	327	333
19	45	49	684	360	2,450	1,160	457	500	255	31	969	311
20	40	34	488	335	1,700	837	393	941	192	31	1,410	246
21	49	55	2,570	368	1,640	947	342	1,220	178	51	820	216
22	51	81	3,950	1,860	1,470	1,320	317	760	160	48	267	197
23	42	78	4,670	3,000	2,530	1,310	309	518	158	41	241	182
24	36	64	4,460	1,750	2,470	876	338	754	159	41	314	182
25	38	52	1,830	1,490	1,400	682	310	636	126	68	327	186
26	42	45	674	1,990	978	659	276	406	99	86	194	180
27	44	53	526	2,100	766	732	256	1,240	133	114	451	180
28	40	56	467	2,960	616	775	236	2,550	143	62	488	184
29	61	64	428	4,100	------	769	225	1,490	212	43	235	240
30	70	84	391	4,020	------	2,640	233	681	190	37	159	199
31	49	------	961	2,970	------	3,840	------	443	------	35	154	------
TOTAL	1,524	1,500	27,732	54,081	42,147	26,927	25,060	37,633	9,438	2,098	15,525	46,366
MEAN	49.2	50.0	895	1,745	1,505	869	835	1,214	315	67.7	501	1,546
MAX	80	84	4,670	4,100	3,090	3,840	4,020	3,970	1,100	156	3,250	7,340
MIN	36	23	42	335	616	345	225	239	99	31	32	132
CFSM	.06	.06	1.16	2.27	1.95	1.13	1.08	1.58	.41	.09	.65	2.01
IN.	.07	.07	1.34	2.61	2.04	1.30	1.21	1.82	.46	.10	.75	2.24

CAL YR 1973 TOTAL 229,724 MEAN 629 MAX 5,300 MIN 23 CFSM .82 IN 11.10
WTR YR 1974 TOTAL 290,031 MEAN 795 MAX 7,340 MIN 23 CFSM 1.03 IN 14.01

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-23	2230	15.07	4,840	5-14	1700	13.41	4,020
1-29	0400	13.94	4,260	9-10	0800	18.79	7,410
4- 1	0830	13.47	4,050				

02087500 Neuse River near Clayton, N. C.

LOCATION.--Lat 35°38'50", long 78°24'21", Johnston County, on left bank at downstream side of bridge on State Highway 42, 2.3 mi (3.7 km) upstream from Mill Creek, and 3 mi (5 km) east of Clayton.

DRAINAGE AREA.--1,140 mi^2 (2,953 km^2), approximately.

PERIOD OF RECORD.--July 1927 to current year.

GAGE.--Water-stage recorder. Datum of gage is 128.41 ft (39.139 m) above mean sea level. Prior to Mar. 18, 1942, at site 1,100 ft (335 m) upstream at same datum.

AVERAGE DISCHARGE.--47 years, 1,187 ft^3/s (33.62 m^3/s), 14.14 in/yr (359 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,630 ft^3/s (188 m^3/s) Sept. 12 (gage height, 10.50 ft or 3.200 m); minimum, 113 ft^3/s (3.20 m^3/s) July 20, 21 (gage height, 1.09 ft or 0.332 m).
Period of record: Maximum discharge, 22,900 ft^3/s (649 m^3/s) Sept. 19, 1945 (gage height, 22.12 ft or 6.742 m); minimum, 44 ft^3/s (1.25 m^3/s) Sept. 15, 1932 (gage height, 0.28 ft or 0.085 m, site then in use).
Flood of July 23, 1919, reached a stage of 21.15 ft (6.447 m), from floodmark at former site (discharge, 21,200 ft^3/s or 600 m^3/s).

REMARKS.--Records good. Diversions for municipal water supply for cities of Durham and Butner (see sta 02087000). The city of Raleigh diverted from Swift Creek (see p. 136), a downstream tributary, an average of 11.8 ft^3/s (0.33 m^3/s), and from the Neuse River upstream from station an average of 21.3 ft^3/s (0.60 m^3/s), most of which was returned as sewage effluent upstream from station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1032: 1930, 1935(M). WSP 1333: 1935. WSP 1503: 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	164	187	2,440	3,000	910	4,040	409	689	382	139	309
2	174	160	173	3,080	1,680	859	4,040	538	1,030	314	234	382
3	185	147	165	3,330	1,760	823	2,570	945	1,450	270	771	1,640
4	187	137	168	2,950	1,750	784	1,420	898	1,310	243	1,210	3,930
5	184	137	167	2,140	1,810	744	1,490	775	1,070	221	2,270	3,830
6	156	147	177	1,790	1,600	714	1,720	1,010	735	228	1,150	2,670
7	148	150	176	1,470	1,330	666	1,780	1,790	553	372	4,450	2,740
8	137	138	191	1,250	1,600	662	1,340	1,750	474	318	4,450	3,620
9	143	139	920	1,070	2,550	651	1,180	1,040	452	244	2,550	4,230
10	151	146	908	1,460	2,980	616	1,410	1,580	408	210	1,100	5,220
11	152	136	770	2,190	2,600	572	1,670	2,630	422	197	700	6,310
12	148	139	445	2,050	1,570	616	1,250	2,080	393	190	520	6,470
13	142	147	301	1,350	1,230	705	1,050	3,600	400	170	427	3,460
14	136	150	326	980	1,080	740	1,140	4,070	384	155	474	852
15	143	144	285	788	1,000	771	1,050	3,950	348	139	477	610
16	148	151	502	692	1,120	710	915	3,070	351	134	455	501
17	138	151	1,580	650	2,360	1,270	775	1,170	548	137	476	473
18	126	142	1,620	602	2,970	1,920	725	794	500	137	710	675
19	126	148	1,110	548	3,170	1,800	741	777	498	137	616	552
20	128	158	746	502	2,450	1,420	687	895	405	127	1,440	478
21	129	153	2,100	497	1,980	1,290	620	1,240	343	167	1,470	419
22	123	192	3,270	704	1,920	1,490	564	1,230	321	181	781	523
23	132	198	3,580	2,140	2,680	1,650	539	902	292	158	652	410
24	133	184	4,110	2,550	2,840	1,430	527	1,210	370	137	681	358
25	122	177	3,980	2,080	2,250	1,150	538	1,050	344	155	604	351
26	121	170	1,430	2,990	1,490	1,210	496	789	276	291	499	351
27	121	160	776	2,330	1,190	1,140	468	1,270	437	228	699	340
28	124	168	626	2,620	1,020	1,170	441	2,640	384	365	739	409
29	136	174	548	4,820	------	1,160	415	2,360	501	232	599	416
30	202	178	519	5,930	------	2,640	401	1,320	537	172	427	411
31	180	------	920	4,560	------	3,940	------	852	------	145	330	------
TOTAL	4,535	4,685	32,776	62,553	54,980	36,223	36,002	48,634	16,225	6,556	32,100	52,940
MEAN	146	156	1,057	2,018	1,964	1,168	1,200	1,569	541	211	1,035	1,765
MAX	202	198	4,110	5,930	3,170	3,940	4,040	4,070	1,450	382	4,450	6,470
MIN	121	136	165	497	1,000	572	401	409	276	127	139	309
CFSM	.13	.14	.93	1.77	1.72	1.02	1.05	1.38	.47	.19	.91	1.55
IN.	.15	.15	1.07	2.04	1.79	1.18	1.17	1.59	.53	.21	1.05	1.73

CAL YR 1973 TOTAL 558,501 MEAN 1,530 MAX 15,200 MIN 121 CFSM 1.34 IN 18.22
WTR YR 1974 TOTAL 388,209 MEAN 1,064 MAX 6,470 MIN 121 CFSM .93 IN 12.67

PEAK DISCHARGE (BASE, 7,100 CFS).--No peak above base.

02087570 Neuse River at Smithfield, N. C.

LOCATION.--Lat 35°30'46", long 78°21'00", Johnston County, on left bank 10 ft (3 m) downstream from bridge on U. S. Highway 70, at Smithfield, 2.1 mi (3.4 km) upstream from Swift Creek and 177.6 mi (285.8 km) upstream from mouth.

DRAINAGE AREA.--1,200 mi^2 (3,110 km^2), approximately.

PERIOD OF RECORD.--October 1959 to current year. Prior to October 1970 medium and high water discharges only. Gage height records at different datum collected at this site since July 1911 are contained in reports of the National Weather Service, NOAA, U. S. Department of Commerce.

GAGE.--Water-stage recorder. Datum of gage is 99.26 ft (30.254 m) above mean sea level. Prior to Dec. 21, 1971, nonrecording gage on upstream side of bridge near center of span at same datum.

EXTREMES.--Current year: Maximum discharge, 6,720 ft^3/s (190 m^3/s) Sept. 13 (gage height, 17.22 ft or 5.249 m); minimum, 108 ft^3/s (3.06 m^3/s) Oct. 27 (gage height, 3.20 ft or 0.975 m).

Period of record: Maximum discharge, 15,300 ft^3/s (433 m^3/s) Feb. 5, 1973 (gage height, 23.65 ft or 7.209 m); minimum observed, 72 ft^3/s (2.04 m^3/s) Oct. 15, 1970 (gage height, 2.86 ft or 0.872 m); minimum gage height observed, 2.38 ft or 0.725 m Sept. 26, 1968.

Flood in August 1908 reached a stage of 27.1 ft or 8.26 m (discharge, 19,900 ft^3/s or 564 m^3/s) July 24, 1919, 26.8 ft or 8.17 m (discharge, 19,400 ft^3/s or 549 m^3/s); Oct. 3, 1929, 26.4 ft or 8.05 m (discharge, 18,700 ft^3/s or 530 m^3/s); Sept. 20, 1945, 25.9 ft or 7.89 m (discharge, 17,900 ft^3/s or 507 m^3/s), from stage information furnished by National Weather Service and Corps of Engineers, and discharges determined from ratings developed since 1959.

REMARKS.--Records good. Diversions for municipal water supply for cities of Durham and Butner (see sta 02087000). The city of Raleigh diverted from Swift Creek (see p. 136), a downstream tributary, an average of 11.8 ft^3/s (0.33 m^3/s), and from Neuse River upstream from station an average of 21.3 ft^3/s (0.60 m^3/s), most of which was returned as sewage effluent upstream from station. The city of Smithfield diverted an average of 1.9 ft^3/s (0.054 m^3/s) 0.2 mi (0.3 km) upstream from station for municipal water supply, most of which was returned downstream as sewage effluent. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	150	181	193	2,080	4,960	1,020	4,490	436	791	436	152	336
2	159	168	195	3,040	2,950	955	4,630	477	854	345	282	299
3	175	160	181	3,420	2,580	914	4,040	912	1,380	284	840	1,080
4	175	145	179	3,460	2,560	877	2,210	927	1,330	255	885	2,700
5	182	150	177	2,690	2,390	836	1,730	872	1,170	233	2,720	4,100
6	163	149	184	2,070	2,170	804	1,850	924	863	225	2,120	3,430
7	142	157	191	1,740	1,810	761	1,990	1,480	655	284	3,760	2,900
8	135	153	247	1,480	1,700	736	1,600	1,880	544	384	5,560	3,500
9	131	143	663	1,230	2,470	727	1,290	1,220	499	269	4,930	4,050
10	141	151	1,020	1,370	3,050	703	1,340	1,220	465	231	2,880	4,670
11	144	150	951	2,060	3,130	649	1,690	2,380	434	213	1,370	5,540
12	146	146	677	2,360	2,150	681	1,440	2,420	446	209	674	6,470
13	140	150	450	1,670	1,410	768	1,210	2,760	412	193	550	6,300
14	135	158	399	1,170	1,190	792	1,510	4,090	424	175	741	2,710
15	133	157	407	950	1,100	829	1,300	4,110	374	161	647	846
16	146	154	428	837	1,220	801	1,080	3,950	374	146	662	620
17	141	161	1,330	791	2,500	1,150	918	1,990	630	145	554	569
18	129	154	1,740	745	3,220	1,820	839	927	576	143	715	720
19	122	153	1,370	697	3,600	2,000	815	827	536	146	652	670
20	125	161	949	644	3,390	1,710	800	921	470	143	1,130	592
21	128	167	1,500	625	2,570	1,530	719	1,180	371	190	1,410	513
22	126	174	3,010	730	2,300	1,650	666	1,340	340	223	991	585
23	125	227	3,480	1,710	2,810	1,740	636	966	306	188	638	551
24	132	203	3,900	2,590	3,180	1,760	608	1,180	308	155	730	443
25	126	195	4,240	2,210	2,990	1,440	595	1,150	386	164	683	411
26	117	188	2,980	2,770	2,020	1,570	579	927	306	239	594	411
27	115	177	1,090	2,830	1,380	1,360	534	1,220	320	253	620	396
28	118	175	795	2,520	1,150	1,310	504	2,450	455	470	718	421
29	133	184	702	3,750	------	1,380	472	2,800	395	315	714	488
30	175	190	654	5,500	------	2,910	448	1,980	619	209	508	473
31	199	------	776	5,970	------	4,100	------	1,090	------	170	381	------
TOTAL	4,408	4,981	35,058	65,709	67,950	40,283	42,533	51,006	17,033	7,196	39,811	56,794
MEAN	142	166	1,131	2,120	2,427	1,299	1,418	1,645	568	232	1,284	1,893
MAX	199	227	4,240	5,970	4,960	4,100	4,630	4,110	1,380	470	5,560	6,470
MIN	115	143	177	625	1,100	649	448	436	306	143	152	299
CFSM	.12	.14	.94	1.77	2.02	1.08	1.18	1.37	.47	.19	1.07	1.58
IN.	.14	.15	1.09	2.04	2.11	1.25	1.32	1.58	.53	.22	1.23	1.76

CAL YR 1973 TOTAL 632,336 MEAN 1,732 MAX 14,600 MIN 115 CFSM 1.44 IN 19.60
WTR YR 1974 TOTAL 432,762 MEAN 1,186 MAX 6,470 MIN 115 CFSM .99 IN 13.42

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-31	0330	16.59	6,130	9-13	0430	17.22	6,720

02088000 Middle Creek near Clayton, N. C.

LOCATION.--Lat 35°34'12", long 78°35'30", Johnston County, on right bank 300 ft (91 m) downstream from bridge on State Highway 50, 0.5 mi (0.8 km) upstream from Buffalo Branch, 3.7 mi (6.0 km) downstream from Wake-Johnston County line, and 9.5 mi (15.3 km) southwest of Clayton.

DRAINAGE AREA.--80.7 mi^2 (209 km^2).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October 1939, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 184.53 ft (56.245 m) above mean sea level. Nov. 1-20, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--35 years, 93.2 ft^3/s (2.639 m^3/s), 15.68 in/yr (398 mm/yr).

EXTREMES.--Current year: Maximum discharge, 478 ft^3/s (13.5 m^3/s) Aug. 8 (gage height, 6.06 ft or 1.847 m); minimum daily, 3.5 ft^3/s (0.099 m^3/s) Nov. 7.
Period of record: Maximum discharge, 8,510 ft^3/s (241 m^3/s) Feb. 3, 1973 (gage height, 13.42 ft or 4.090 m, result of dam failure); no flow Oct. 11-13, 1954.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 952: 1940(M), 1941. WSP 1233: 1943(M), 1945, 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	5.9	4.1	200	116	76	224	22	50	19	20	18
2	5.8	5.6	4.1	120	107	71	126	33	45	15	50	20
3	6.0	5.0	4.1	90	350	68	98	104	75	12	250	50
4	5.7	4.5	4.2	69	417	65	96	66	88	10	300	200
5	5.5	4.0	4.4	66	340	62	194	44	51	10	360	356
6	6.4	3.7	5.0	65	176	59	184	70	39	12	245	319
7	6.4	3.5	45	89	145	56	112	71	33	30	360	239
8	6.2	3.6	50	94	165	55	88	44	29	20	445	260
9	6.4	3.9	60	76	212	52	102	39	27	15	295	133
10	6.6	4.1	50	92	158	49	97	93	25	12	158	77
11	6.7	4.2	30	86	112	47	77	108	22	10	75	56
12	6.5	4.4	15	71	94	60	68	90	19	8.0	49	44
13	6.3	4.5	13	56	84	83	98	220	17	7.0	53	37
14	6.1	4.5	20	47	81	69	154	236	16	6.0	142	33
15	5.3	4.7	30	46	91	57	112	82	15	5.6	72	28
16	5.3	5.2	50	45	129	59	77	51	17	5.0	60	26
17	5.3	5.5	70	45	348	161	61	40	134	4.5	46	27
18	4.9	5.7	40	42	351	137	56	34	112	4.0	39	61
19	4.5	6.2	32	40	190	86	52	32	45	4.0	32	46
20	5.0	4.1	50	40	175	189	47	142	30	5.0	27	34
21	5.5	4.1	180	42	134	160	41	137	23	22	24	28
22	5.3	5.5	130	53	158	166	39	70	19	15	23	97
23	5.0	5.8	90	49	267	123	39	65	16	10	23	90
24	5.8	5.3	70	44	189	143	36	139	14	6.0	25	47
25	8.1	4.7	50	55	124	129	31	97	13	8.0	22	36
26	8.7	4.4	45	122	97	195	29	69	12	20	27	32
27	8.6	4.4	45	129	84	154	28	188	13	15	28	29
28	7.8	4.5	40	97	79	114	31	333	16	10	27	28
29	6.9	4.5	35	223	------	111	28	227	29	8.0	22	27
30	6.6	4.2	50	318	------	283	25	81	23	6.0	25	27
31	6.3	------	100	270	------	341	------	61	------	10	20	------
TOTAL	91.2	140.2	1,415.9	2,881	4,973	3,500	2,450	3,088	1,067	344.1	3,344	2,505
MEAN	6.17	4.67	45.7	92.9	178	113	81.7	99.6	35.6	11.1	108	83.5
MAX	8.7	6.2	180	318	417	341	224	333	134	30	445	356
MIN	4.5	3.5	4.1	40	79	47	25	22	12	4.0	20	18
CFSM	.08	.06	.57	1.15	2.21	1.40	1.01	1.23	.44	.14	1.34	1.03
IN.	.09	.06	.65	1.33	2.29	1.61	1.13	1.42	.49	.16	1.54	1.15

CAL YR 1973 TOTAL 41,917.2 MEAN 115 MAX 4,870 MIN 3.5 CFSM 1.43 IN 19.32
WTR YR 1974 TOTAL 25,899.4 MEAN 71.0 MAX 445 MIN 3.5 CFSM .88 IN 11.94

PEAK DISCHARGE (BASE, 600 CFS).--No peak above base.

02088470 Little River near Kenly, N. C.

LOCATION.--Lat 35°35'18", long 78°11'12", Johnston County, near left bank on downstream side of bridge on Secondary Road 1934, 0.7 mi (1.1 km) downstream from Buffalo Creek, and 3.7 mi (6.0 km) west of Kenly.

DRAINAGE AREA.--190 mi^2 (492 km^2), approximately.

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

GAGE.--Water-stage recorder. Altitude of gage is 140 ft or 43 m (by barometer).

AVERAGE DISCHARGE.--10 years, 178 ft^3/s (5.040 m^3/s), 12.69 in/yr (322 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,920 ft^3/s (54.4 m^3/s) Aug. 10 (gage height, 13.33 ft or 4.063 m); minimum, 1.3 ft^3/s (0.037 m^3/s) Oct. 13, 14 (gage height, 3.22 ft or 0.981 m).
Period of record: Maximum discharge, 5,030 ft^3/s (142 m^3/s) Oct. 6, 1964 (gage height, 16.30 ft or 4.968 m); minimum, 0.18 ft^3/s (0.005 m^3/s) Oct. 4, 5, 6, 1968.

REMARKS.--Records good. Some diurnal fluctuation and some regulation during periods of low flow caused by mill 10 mi (16 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	3.7	9.1	137	374	199	550	56	129	56	55	75
2	11	3.7	9.4	197	342	182	422	58	95	52	68	62
3	11	4.3	9.4	187	664	172	344	95	92	46	296	66
4	10	4.6	9.4	188	800	162	277	116	108	39	549	159
5	9.7	4.9	10	194	564	154	357	105	106	36	646	351
6	9.1	5.2	11	170	399	144	409	135	94	37	604	520
7	8.8	5.5	10	184	344	136	351	141	80	43	1,000	592
8	8.5	5.5	13	194	330	128	282	123	64	73	1,140	516
9	8.2	6.1	30	159	321	120	247	110	56	107	1,580	438
10	7.6	6.1	51	160	280	114	214	126	50	88	1,830	384
11	7.3	6.4	62	165	249	108	186	171	45	96	1,250	303
12	4.3	6.7	53	157	225	124	170	179	45	98	522	214
13	1.4	4.9	47	148	197	164	197	265	43	62	273	152
14	1.8	7.0	35	130	178	158	421	288	35	48	276	116
15	2.5	9.7	30	111	179	142	349	249	33	41	220	93
16	2.8	10	35	100	234	144	237	218	37	37	161	78
17	2.8	11	63	91	620	232	187	163	146	36	160	78
18	3.4	11	102	82	673	241	178	103	154	33	110	133
19	4.0	13	104	77	557	221	163	84	85	32	87	119
20	4.0	14	96	74	520	308	141	151	74	31	78	97
21	4.0	16	127	76	433	437	124	128	56	60	73	86
22	5.5	16	141	90	403	444	111	110	44	105	132	136
23	4.3	15	147	94	562	352	101	108	37	92	225	228
24	4.0	16	140	92	501	358	91	142	33	85	172	174
25	4.0	15	127	104	401	364	91	140	31	95	197	120
26	4.0	15	103	125	340	440	77	132	39	96	197	86
27	3.7	11	84	154	276	416	73	236	69	117	144	72
28	3.7	9.7	72	184	227	349	67	342	60	358	158	63
29	3.4	9.7	63	263	------	335	63	271	59	148	193	70
30	3.4	9.4	59	302	------	808	59	214	60	85	138	118
31	3.4	------	77	336	------	792	------	192	------	64	96	------
TOTAL	172.6	276.1	1,929.3	4,725	11,193	8,448	6,539	4,951	2,059	2,396	12,630	5,699
MEAN	5.57	9.20	62.2	152	400	273	218	160	68.6	77.3	407	190
MAX	11	16	147	336	800	808	550	342	154	358	1,830	592
MIN	1.4	3.7	9.1	74	178	108	59	56	31	31	55	62
CFSM	.03	.05	.33	.80	2.11	1.44	1.15	.84	.36	.41	2.14	1.00
IN.	.03	.05	.38	.93	2.19	1.65	1.28	.97	.40	.47	2.47	1.12

CAL YR 1973 TOTAL 70,522.0 MEAN 193 MAX 2,200 MIN 1.4 CFSM 1.02 IN 13.81
WTR YR 1974 TOTAL 61,018.0 MEAN 167 MAX 1,830 MIN 1.4 CFSM .88 IN 11.95

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
8-10	0730	13.33	1,920				

02088500 Little River near Princeton, N. C.

LOCATION.--Lat 35°30'40", long 78°09'36", Johnston County, on left bank 600 ft (183 m) downstream from bridge on Secondary Road 2320, 0.8 mi (1.3 km) upstream from Little Creek, and 3 mi (5 km) north of Princeton.

DRAINAGE AREA.--229 mi^2 (593 km^2).

PERIOD OF RECORD.--February 1930 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 107.75 ft (32.842 m) above mean sea level. Prior to Nov. 17, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 252 ft^3/s (7.137 m^3/s), 14.94 in/yr (379 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,670 ft^3/s (47.3 m^3/s) Aug. 11 (gage height, 9.76 ft or 2.975 m); minimum, 4.2 ft^3/s (0.12 m^3/s) Oct. 20, 21, 28, (gage height, 0.88 ft or 0.268 m).
Period of record: Maximum discharge, 7,150 ft^3/s (202 m^3/s) Oct. 6, 1964 (gage height, 13.94 ft or 4.249 m); minimum, 1.0 ft^3/s (0.028 m^3/s) several times in September and October 1932, Oct. 10, 11, 1968.
Flood of July 1919 reached a stage of 14.57 ft or 4.441 m; September 1924, 14.90 ft or 4.542 m; September 1928, 13.3 ft or 4.054 m; October 1929, 13.47 ft or 4.106 m; from information by local resident.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Slight diurnal fluctuation and occasional regulation for short periods, caused by mills above station.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1233: 1935(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	5.0	14	190	426	233	813	57	171	40	45	66
2	13	5.0	13	240	428	210	543	57	116	36	42	52
3	13	5.4	12	210	748	195	424	79	109	32	114	42
4	13	6.5	13	220	1,170	182	338	111	110	28	450	86
5	12	8.2	14	240	897	171	425	109	116	27	648	281
6	12	8.6	18	210	564	159	535	143	100	27	744	471
7	11	9.0	26	270	452	148	445	152	87	27	1,170	633
8	10	9.4	35	320	441	139	343	130	72	36	1,330	618
9	10	9.0	47	261	432	129	308	116	60	78	1,270	505
10	9.8	8.6	64	240	368	122	268	146	53	70	1,500	437
11	9.8	9.4	82	240	313	114	223	191	48	76	1,620	362
12	9.4	8.6	68	223	274	125	197	196	43	96	1,060	268
13	9.0	8.6	57	199	243	182	282	287	45	55	400	179
14	8.2	10	48	177	213	182	721	328	39	35	362	126
15	7.8	10	40	152	211	158	610	288	35	28	344	98
16	6.9	14	60	135	280	164	368	250	34	27	397	80
17	5.4	15	90	124	768	288	253	204	314	26	709	72
18	5.0	16	130	112	885	308	257	126	259	25	338	170
19	5.2	18	120	104	728	267	237	94	124	24	170	178
20	4.7	19	110	100	632	367	189	146	76	22	110	125
21	4.4	21	140	100	547	487	156	162	61	38	109	99
22	4.7	24	160	119	490	575	135	111	45	58	114	111
23	4.4	22	180	125	678	454	118	117	36	89	254	282
24	4.7	22	170	123	670	471	103	146	30	59	295	243
25	4.7	24	150	150	507	510	89	152	29	58	212	163
26	4.7	22	130	181	403	636	81	134	28	90	228	103
27	4.4	22	120	212	328	604	76	302	36	88	170	82
28	4.4	18	105	234	270	482	71	447	53	445	138	70
29	4.7	16	96	314	------	439	66	353	42	344	188	65
30	5.0	15	80	384	------	1,100	61	265	44	113	160	102
31	5.0	------	120	398	------	1,230	------	242	------	62	96	------
TOTAL	240.3	409.3	2,512	6,307	14,366	10,831	8,735	5,641	2,415	2,259	14,787	6,171
MEAN	7.75	13.6	81.0	203	513	349	291	182	80.5	72.9	477	206
MAX	14	24	180	398	1,170	1,230	813	447	314	445	1,620	633
MIN	4.4	5.0	12	100	211	114	61	57	28	22	42	42
CFSM	.03	.06	.35	.89	2.24	1.52	1.27	.79	.35	.32	2.08	.90
IN.	.04	.07	.41	1.02	2.33	1.76	1.42	.92	.39	.37	2.40	1.00

CAL YR 1973 TOTAL 89,071.6 MEAN 244 MAX 2,200 MIN 4.4 CFSM 1.07 IN 14.47
WTR YR 1974 TOTAL 74,673.6 MEAN 205 MAX 1,620 MIN 4.4 CFSM .90 IN 12.13

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 4	1300	8.27	1,210	8-11	0400	9.76	1,670
3-31	0400	8.64	1,310				

Note.--No gage-height record Dec. 1 to Jan. 6.

02089000 Neuse River near Goldsboro, N. C.

LOCATION.--Lat 35°20'14", long 77°59'51", Wayne County, on left bank at downstream side of bridge on Secondary Road 1915, 0.2 mi (0.3 km) upstream from Stony Creek, 1.5 mi (2.4 km) downstream from Seaboard Coast Line Railroad bridge, 3.2 mi (5.1 km) south of Wayne County courthouse in Goldsboro, 4.3 mi (6.9 km) downstream from Little River, and 135 mi (217 km) upstream from mouth.

DRAINAGE AREA.--2,390 mi^2 (6,190 km^2), approximately.

PERIOD OF RECORD.--February 1930 to current year.

GAGE.--Water stage recorder. Datum of gage is 42.95 ft (13.091 m) above mean sea level. Prior to July 24, 1931, nonrecording gage at railroad bridge, 1.5 mi (2.4 km) upstream at datum 2.00 ft (0.610 m) higher. July 24, 1931, to Aug. 31, 1948, water-stage recorder at site 2.3 mi (3.7 km) upstream at datum 1.71 ft (0.521 m) higher than present datum.

AVERAGE DISCHARGE.--44 years, 2,521 ft^3/s (71.39 m^3/s), 14.32 in/yr (364 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,100 ft^3/s (286 m^3/s) Aug. 11 (gage height, 18.89 ft or 5.758 m); minimum, 166 ft^3/s (4.70 m^3/s) Nov. 13, 14, 15; minimum gage height, 2.65 ft or 0.808 m, Oct. 30.
Period of record: Maximum discharge, 30,700 ft^3/s (869 m^3/s) Sept. 23, 1945; maximum gage height, 26.72 ft or 8.144 m Sept. 23, 1945, site and datum then in use; minimum discharge, 76 ft^3/s (2.15 m^3/s) Sept. 26, 1968.
Floods of June 1866 and July 1919, reached stages of about 29 ft (8.8 m) and 28 ft (8.5 m), respectively, at site 2.3 mi (3.7 km) upstream at present datum, from flood profiles of Corps of Engineers. Flood of Oct. 5, 1929, reached a stage of 27.3 ft (8.32 m) at railroad bridge at present datum (discharge, 38,600 ft^3/s or 1,090 m^3/s).

REMARKS.--Records excellent. Diversions for municipal water supply for cities of Durham and Butner (see sta 02087000).

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1333: 1931, 1935.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	275	202	256	1,450	4,370	3,670	6,520	862	3,890	862	1,600	1,130
2	279	237	271	2,490	4,760	2,620	7,040	819	2,490	859	2,360	1,200
3	273	222	271	3,250	5,550	2,360	7,230	840	2,050	681	2,850	978
4	263	206	265	3,710	6,360	2,150	7,070	1,050	2,330	572	2,880	1,120
5	271	201	262	3,980	6,840	2,010	7,110	1,410	2,390	514	4,370	2,290
6	275	183	256	4,190	7,050	1,900	7,140	1,600	2,160	486	7,350	3,050
7	268	177	253	4,280	7,010	1,800	6,730	1,650	1,760	550	8,240	3,840
8	257	180	368	4,060	6,580	1,710	5,900	1,930	1,370	722	9,100	4,480
9	242	182	597	3,480	5,910	1,610	5,080	2,380	1,120	836	9,660	4,930
10	234	181	549	2,820	5,220	1,540	4,160	2,290	970	828	10,000	5,160
11	226	174	1,030	2,500	4,830	1,480	3,370	1,970	874	709	10,100	5,220
12	226	174	1,130	2,730	4,670	1,490	3,170	2.700	773	600	10,000	5,200
13	220	167	1,020	3,060	4,600	1,550	3,220	3,270	724	539	9,800	5,180
14	221	167	888	3,050	4,390	1,720	4,430	3,520	676	484	8,040	5,170
15	216	168	702	2,440	3,310	1,800	4,790	3,730	629	420	5,960	5,280
16	208	176	778	1,880	2,950	1,930	4,850	3,960	609	371	4,670	5,370
17	200	177	981	1,620	3,510	2,340	4,370	4,160	1,490	339	4,200	3,490
18	205	177	1,380	1,480	4,390	2,660	3,660	4,340	2,930	316	3,700	1,850
19	203	196	1,980	1,420	5,210	3,180	3,040	3,820	3,260	300	3,210	1,570
20	193	202	2,110	1,350	5,790	3,620	2,590	2,280	2,810	299	2,770	1,540
21	188	207	2,240	1,320	6,070	3,840	2,250	1,890	2,210	484	2,450	1,330
22	189	234	2,130	1,300	6,200	3,930	1,930	1,920	1,660	497	2,590	1,200
23	188	236	2,800	1,360	6,240	3,980	1,690	2,080	1,150	686	2,380	1,260
24	185	250	3,230	1,930	6,130	4,090	1,500	2,110	1,060	726	1,950	1,470
25	185	286	3,450	2,740	5,970	4,200	1,360	2,130	1,180	762	1,910	1,500
26	190	283	3,600	3,190	5,840	4,460	1,260	2,300	1,010	738	1,920	1,300
27	188	271	3,750	3,330	5,630	4,570	1,180	2,380	919	912	1,820	1,150
28	183	262	3,750	3,520	5,070	4,660	1,080	2,930	821	2,040	1,590	1,040
29	192	262	2,320	3,700	------	4,580	1,000	3,670	861	2,580	1,530	952
30	173	253	1,520	3,870	------	5,340	933	4,110	851	2,640	1,500	940
31	177	------	1,330	4,100	------	5,920	------	4,350	------	1,910	1,310	------
TOTAL	6,793	6,293	45,467	85,600	150,450	92,710	115,653	78,451	47,027	25,262	141,810	80,190
MEAN	219	210	1,467	2,761	5,373	2,991	3,855	2,531	1,568	815	4,575	2,673
MAX	279	286	3,750	4,280	7,050	5,920	7,230	4,350	3,890	2,640	10,100	5,370
MIN	173	167	253	1,300	2,950	1,480	933	819	609	299	1,310	940
CFSM	.09	.09	.61	1.16	2.25	1.25	1.61	1.06	.66	.34	1.91	1.12
IN.	.11	.10	.71	1.33	2.34	1.44	1.80	1.22	.73	.39	2.21	1.25

CAL YR 1973 TOTAL 1,141,848 MEAN 3,128 MAX 18,500 MIN 167 CFSM 1.31 IN 17.77
WTR YR 1974 TOTAL 875,706 MEAN 2,399 MAX 10,100 MIN 167 CFSM 1.00 IN 13.63

02089500 Neuse River at Kinston, N. C.

LOCATION.--Lat 35°15'29", long 77°35'09", Lenoir County, on left bank at Kinston, 600 ft (183 m) downstream from bridge on State Highway 11, and 90 mi (145 km) upstream from mouth.

DRAINAGE AREA.--2,690 mi^2 (6,970 km^2), approximately.

PERIOD OF RECORD.--February 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 10.90 ft (3.322 m) above mean sea level. Prior to Nov. 25, 1934, nonrecording gage at highway bridge 1 mi (1.6 km) downstream at datum 0.80 ft (0.244 m) lower.

AVERAGE DISCHARGE.--44 years, 2,894 ft^3/s (81.96 m^3/s), 14.61 in/yr (371 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,700 ft^3/s (303 m^3/s) Aug. 13 (gage height, 16.47 ft or 5.020 m); minimum, 268 ft^3/s (7.59 m^3/s) Nov. 16; minimum gage height, 2.70 ft or 0.823 m, Oct. 26, 27.
Period of record: Maximum discharge, 26,000 ft^3/s (736 m^3/s) Oct. 13, 1964; maximum gage height, 22.86 ft or 6.968 m Oct. 13, 1964; minimum discharge, 124 ft^3/s (3.51 m^3/s) Sept. 26, 1932 (gage height, 1.29 ft or 0.393 m, site and datum then in use).
Flood in July 1919 reached a stage of 25.0 ft (7.62 m), present site and datum (discharge, about 39,000 ft^3/s or 1,100 m^3/s), from information by North Carolina State Highway Commission. Flood in October 1924 reached a stage of 24.7 ft (7.53 m), present site and datum (discharge, 36,000 ft^3/s or 1,020 m^3/s), from information by North Carolina State Highway Commission. Flood of Sept. 25-26, 1928, reached a stage of 24.2 ft (7.38 m), present site and datum (discharge, 34,000 ft^3/s or 963 m^3/s).

REMARKS.--Records good. Diversions for municipal water supply for cities of Durham and Butner (see sta 02087000). Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1333: 1931-32.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	409	304	364	2,070	4,270	6,040	6,350	1,310	4,070	1,100	2,470	1,770
2	608	304	355	2,130	4,430	5,670	6,570	1,230	4,470	1,050	2,210	1,830
3	778	325	358	2,670	4,710	4,540	6,810	1,190	4,290	1,090	3,000	1,810
4	641	327	364	3,060	5,160	3,560	7,090	1,170	3,160	961	3,430	1,580
5	529	322	367	3,490	5,730	3,020	7,650	1,280	2,910	849	3,940	1,550
6	480	310	364	3,830	6,250	2,620	7,940	1,660	2,910	822	4,440	2,620
7	456	298	358	4,100	6,700	2,400	7,950	1,900	2,690	792	5,690	3,410
8	442	286	442	4,320	7,040	2,240	7,810	1,930	2,270	857	7,020	4,010
9	439	283	863	4,420	7,180	2,120	7,610	2,080	1,820	994	7,940	4,440
10	424	280	1,120	4,320	7,080	2,010	7,120	2,400	1,510	1,060	9,170	4,800
11	403	280	915	3,920	6,710	1,920	6,360	2,550	1,320	1,080	10,000	5,100
12	391	277	1,060	3,360	6,180	1,930	5,420	2,380	1,190	982	10,400	5,310
13	385	271	1,260	3,090	5,660	1,990	4,590	2,540	1,090	866	10,600	5,430
14	382	277	1,320	3,140	5,300	1,990	4,350	2,930	1,020	789	10,700	5,480
15	379	274	1,260	3,250	5,130	2,050	4,500	3,240	973	737	10,600	5,460
16	370	274	1,110	3,090	4,910	2,260	5,000	3,470	923	744	9,600	5,440
17	364	271	1,390	2,620	4,500	2,780	5,260	3,660	929	706	9,000	5,470
18	352	277	1,630	2,160	4,280	3,100	5,330	3,830	1,610	614	8,000	5,440
19	343	286	1,650	1,920	4,390	3,200	5,120	4,020	2,550	572	6,600	4,210
20	340	301	2,080	1,820	4,800	3,580	4,600	4,180	2,890	544	5,440	2,560
21	331	316	2,500	1,810	5,290	3,950	3,910	3,670	2,960	597	4,700	2,050
22	322	316	2,850	1,880	5,740	4,190	3,290	2,670	2,670	785	4,010	1,700
23	313	331	2,840	1,840	6,120	4,380	2,800	2,330	1,780	784	3,620	1,520
24	313	334	2,920	1,780	6,340	4,600	2,390	2,340	1,390	874	3,510	1,490
25	301	340	3,150	2,060	6,440	4,790	2,020	2,440	1,390	975	3,400	1,600
26	295	361	3,390	2,680	6,410	4,950	1,870	2,400	1,340	1,040	3,290	1,670
27	292	385	3,590	3,080	6,320	5,130	1,710	2,760	1,310	1,070	3,000	1,560
28	292	385	3,750	3,350	6,200	5,230	1,600	2,890	1,250	1,210	2,760	1,380
29	313	379	3,930	3,620	------	5,290	1,490	2,970	1,200	2,080	2,320	1,200
30	355	376	3,760	3,920	------	5,560	1,400	3,290	1,120	2,480	2,010	1,100
31	328	------	2,580	4,130	------	5,980	------	3,690	------	2,700	1,870	------
TOTAL	12,370	9,350	53,890	92,930	159,270	113,070	145,910	80,400	61,005	31,804	174,740	92,990
MEAN	399	312	1,738	2,998	5,688	3,647	4,864	2,594	2,034	1,026	5,637	3,100
MAX	778	385	3,930	4,420	7,180	6,040	7,950	4,180	4,470	2,700	10,700	5,480
MIN	292	271	355	1,780	4,270	1,920	1,400	1,170	923	544	1,870	1,100
CFSM	.15	.12	.65	1.11	2.11	1.36	1.81	.96	.76	.38	2.10	1.15
IN.	.17	.13	.75	1.29	2.20	1.56	2.02	1.11	.84	.44	2.42	1.29

CAL YR 1973 TOTAL 1,344,792 MEAN 3,684 MAX 18,800 MIN 271 CFSM 1.37 IN 18.60
WTR YR 1974 TOTAL 1,027,729 MEAN 2,816 MAX 10,700 MIN 271 CFSM 1.05 IN 14.21

02090380 Contentnea Creek near Lucama, N. C.

LOCATION.--Lat 35°41'29", long 78°06'29", Wilson County, on right bank 250 ft (76 m) upstream from bridge on State Highway 581, 1.0 mi (1.6 km) upstream from Buckhorn Branch, and 6.5 mi (10.4 km) northwest of Lucama.

DRAINAGE AREA.--156 mi^2 (404 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 117.43 ft (35.793 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--10 years, 150 ft^3/s (4.248 m), 13.08 in/yr (332 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,470 ft^3/s (41.6 m^3/s) Aug. 10 (gage height, 10.22 ft or 3.115 m); minimum, 1.6 ft^3/s (0.045 m^3/s) Oct. 21 (gage height, 1.63 ft or 0.497 m) .
Period of record: Maximum discharge, 5,860 ft^3/s (166 m^3/s) Oct. 6, 1964 (gage height, 16.28 ft or 4.962 m); minimum, 0.40 ft^3/s (0.011 m^3/s) Oct. 7, 1968.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.0	3.4	98	181	126	563	38	72	29	44	57
2	3.2	3.0	3.8	152	140	120	372	41	60	25	81	46
3	3.2	2.8	3.8	128	402	114	211	71	66	21	213	75
4	3.2	2.6	3.8	92	433	109	172	78	123	18	397	202
5	3.2	2.6	3.8	84	325	104	265	63	86	16	465	361
6	3.0	2.3	3.8	79	220	97	371	86	63	15	499	471
7	2.6	2.3	3.6	86	170	92	317	115	54	23	705	494
8	2.4	2.0	5.1	89	172	89	200	82	50	48	811	335
9	2.3	2.0	16	88	194	85	169	65	44	54	1,170	262
10	2.3	2.2	26	94	172	82	161	93	39	37	1,270	223
11	2.3	2.0	28	104	148	77	136	120	34	86	812	119
12	2.3	2.1	18	93	130	86	123	108	62	52	631	67
13	2.2	2.2	16	79	114	121	146	214	46	28	199	55
14	2.2	2.6	11	67	104	114	281	319	32	19	149	53
15	2.8	3.0	10	62	107	97	213	214	29	15	128	51
16	3.2	2.9	20	59	152	94	154	97	28	13	102	48
17	3.0	2.8	56	57	469	178	124	69	102	12	98	48
18	2.3	2.6	79	54	609	231	137	53	84	11	81	90
19	2.0	2.8	72	50	722	187	123	61	48	10	68	89
20	1.8	3.0	58	47	574	278	110	111	35	9.4	84	71
21	1.7	3.0	123	50	348	488	96	100	30	35	161	54
22	2.0	3.7	182	60	289	464	81	63	26	59	240	178
23	2.3	3.8	138	59	440	283	78	54	23	41	182	233
24	2.4	3.2	86	56	459	255	64	101	20	35	152	112
25	2.3	3.0	62	59	353	294	55	121	19	27	126	78
26	2.3	2.8	51	91	221	350	52	94	19	59	106	60
27	2.3	2.8	49	136	157	364	51	158	35	72	105	52
28	2.3	3.2	43	151	134	333	49	347	40	132	207	47
29	2.3	3.4	40	168	------	296	45	335	39	105	131	50
30	2.3	3.2	37	254	------	537	41	164	36	59	88	73
31	2.4	------	50	263	------	582	------	90	------	35	69	------
TOTAL	77.3	82.9	1,302.1	3,009	7,939	6,727	4,960	3,725	1,444	1,200.4	9,574	4,154
MEAN	2.49	2.76	42.0	97.1	284	217	165	120	48.1	38.7	309	138
MAX	3.2	3.8	182	263	722	582	563	347	123	132	1,270	494
MIN	1.7	2.0	3.4	47	104	77	41	38	19	9.4	44	46
CFSM	.02	.02	.27	.62	1.82	1.39	1.06	.77	.31	.25	1.98	.88
IN.	.02	.02	.31	.72	1.89	1.60	1.18	.89	.34	.29	2.28	.99

CAL YR 1973 TOTAL 57,067.6 MEAN 156 MAX 2,000 MIN 1.7 CFSM 1.00 IN 13.61
WTR YR 1974 TOTAL 44,194.7 MEAN 121 MAX 1,270 MIN 1.7 CFSM .78 IN 10.54

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
8-10	0700	10.22	1,470				

02090625 Turner Swamp near Eureka, N. C.

LOCATION.--Lat 35°34'10", long 77°52'40", Wayne County, on right bank at downstream side of bridge on Secondary Road 1505, 2.0 mi (3.2 km) north of Eureka, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--2.2 mi^2 (5.7 km^2), approximately.

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

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Altitude of gage is 90 ft or 27 m (by barometer).

AVERAGE DISCHARGE.--6 years, 2.47 ft^3/s (0.0700 m^3/s), 15.25 in/yr (387 mm/yr).

EXTREMES.--Current year: Maximum discharge, 652 ft^3/s (18.5 m^3/s) Aug. 5 (gage height, 5.78 ft or 1.762 m); minimum, 0.38 ft^3/s (0.011 m^3/s) Oct. 6, 15, 17, 25 (gage height, 0.91 ft or 0.277 m).
Period of record: Maximum discharge, 652 ft^3/s (18.5 m^3/s) Aug. 5, 1974 (gage height, 5.78 ft or 1.762 m); minimum, 0.29 ft^3/s (0.008 m^3/s) Oct. 1, 2, 3, 1968 (gage height, 0.87 ft or 0.265 m).

REMARKS.--Records good. Water quality records for current year are published in Part 2 of this report. Recording rain gage discontinued.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	.49	.57	4.3	1.5	2.0	5.4	1.2	1.2	1.4	5.2	1.3
2	.52	.45	.54	3.3	2.5	2.0	4.4	2.6	3.5	1.2	10	1.4
3	.52	.45	.57	2.0	13	1.8	3.7	1.7	11	1.0	3.8	1.2
4	.54	.45	.57	1.8	7.9	1.8	5.9	1.4	3.4	.94	3.0	1.4
5	.49	.47	.57	2.0	4.4	1.7	16	3.4	3.0	1.0	96	1.4
6	.45	.47	.60	1.7	3.3	1.7	7.9	2.6	3.5	1.3	38	2.4
7	.45	.47	.57	4.0	3.5	1.6	5.2	1.7	2.1	1.5	27	5.1
8	.47	.49	3.2	2.7	4.1	1.5	4.4	1.4	1.7	1.2	9.3	2.8
9	.49	.49	3.4	2.4	3.4	1.5	6.4	1.5	1.4	.98	7.0	2.0
10	.47	.47	.94	2.4	2.7	1.5	4.6	2.3	1.2	.86	5.1	1.5
11	.45	.47	.76	2.0	2.4	1.4	3.5	1.5	.98	.90	3.5	1.3
12	.45	.49	.70	1.7	2.2	2.6	3.2	3.7	.86	.80	2.6	1.2
13	.45	.49	.98	1.4	2.1	2.5	15	3.4	.86	.73	2.3	1.1
14	.47	.49	1.5	1.4	2.2	1.8	22	1.7	.83	.70	2.3	1.0
15	.45	.49	.80	1.4	2.3	1.6	8.4	1.4	.86	.70	3.9	1.0
16	.45	.47	4.0	1.4	8.4	5.7	5.4	1.2	.98	.64	9.9	1.0
17	.42	.47	3.4	1.3	11	6.1	15	1.0	10	.64	15	4.1
18	.45	.49	1.3	1.2	5.2	3.3	7.9	1.1	2.2	.64	4.9	4.7
19	.45	.73	.98	1.4	4.9	3.0	5.0	2.9	1.4	.67	3.5	2.0
20	.45	.54	2.9	1.3	5.2	5.0	3.8	2.4	1.1	.64	2.9	1.5
21	.45	.60	9.2	2.3	3.7	3.8	3.2	1.4	.94	.98	4.4	1.3
22	.45	.73	2.4	1.8	4.7	2.9	2.7	1.1	.90	.80	5.3	4.4
23	.45	.57	1.5	1.5	5.4	2.5	2.4	2.8	1.9	.70	3.8	2.8
24	.45	.54	1.3	1.9	4.1	3.4	2.1	2.1	71	.70	3.0	1.8
25	.42	.54	1.1	3.4	4.0	6.1	2.0	1.3	6.3	.98	2.2	1.6
26	.42	.54	1.2	2.5	3.0	6.3	1.8	1.4	3.3	1.1	1.8	1.4
27	.42	.54	1.1	2.2	2.2	4.4	1.7	11	3.8	2.0	2.7	1.3
28	.45	.70	1.0	1.9	2.1	3.5	1.5	3.4	3.8	1.4	2.9	2.1
29	.60	.70	.94	2.2	------	13	1.4	2.0	2.4	.83	3.2	1.6
30	.49	.57	.94	2.1	------	26	1.4	1.6	1.7	.73	1.8	1.2
31	.49	------	3.8	1.8	------	7.9	------	1.4	------	1.3	1.4	------
TOTAL	14.50	15.86	53.33	64.7	121.4	129.9	173.3	69.6	148.11	29.96	287.7	58.9
MEAN	.47	.53	1.72	2.09	4.34	4.19	5.78	2.25	4.94	.97	9.28	1.96
MAX	.60	.73	9.2	4.3	13	26	22	11	71	2.0	96	5.1
MIN	.42	.45	.54	1.2	1.5	1.4	1.4	1.0	.83	.64	1.4	1.0
CFSM	.21	.24	.78	.95	1.97	1.90	2.63	1.02	2.25	.44	4.22	.89
IN.	.25	.27	.90	1.09	2.05	2.20	2.93	1.18	2.50	.51	4.86	1.00

CAL YR 1973 TOTAL 830.31 MEAN 2.27 MAX 27 MIN .42 CFSM 1.03 IN 14.04
WTR YR 1974 TOTAL 1,167.26 MEAN 3.20 MAX 96 MIN .42 CFSM 1.45 IN 19.74

PEAK DISCHARGE (BASE, 25 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-29	2315	3.50	96	6-24	0200	4.62	285
4- 5	0615	2.31	25	8- 2	1815	2.67	37
4-13	2200	3.33	80	8- 5	1700	5.78	652
4-17	1030	2.48	30	8- 7	0345	2.92	49
6- 3	0100	2.51	31	8-16	2330	3.09	60
6-17	0645	2.38	27				

02091000 Nahunta Swamp near Shine, N. C.

LOCATION.--Lat 35°29'20", long 77°48'22", Greene County, on right bank 10 ft (3 m) downstream from bridge on Secondary Road 1200, 2 mi (3.2 km) upstream from Appletree Swamp, 3.5 mi (5.6 km) north of Shine, and 8 mi (12.9 km) northwest of Snow Hill.

DRAINAGE AREA.--77.6 mi^2 (201 km^2).

PERIOD OF RECORD.--April 1954 to current year. Monthly discharges only for some periods, published in WSP 1723.

GAGE.--Water-stage recorder. Datum of gage is 50.74 ft (15.466 m) above mean sea level. Prior to Apr. 1, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--20 years, 89.5 ft^3/s (2.535 m^3/s), 15.66 in/yr (398 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,930 ft^3/s (54.7 m^3/s) Aug. 7 (gage height, 10.88 ft or 3.316 m); minimum, 6.5 ft^3/s (0.18 m^3/s) Oct. 28; minimum gage height, 1.62 ft or 0.494 m Oct. 18, July 21.
Period of record: Maximum discharge, 5,470 ft^3/s (155 m^3/s) Oct. 6, 1964 (gage height, 14.14 ft or 4.310 m); minimum, 1.0 ft^3/s (0.028 m^3/s) Oct. 7, 8, 1954 (gage height, 0.80 ft or 0.244 m).

REMARKS.--Records good except those for period of fragmentary gage height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	9.6	15	144	130	66	294	44	59	33	305	38
2	13	8.7	15	157	190	60	196	58	57	28	651	61
3	29	8.1	14	110	420	52	160	70	216	24	672	42
4	17	7.6	15	89	220	48	145	53	120	21	358	39
5	14	7.4	16	88	100	44	492	66	90	23	604	41
6	12	7.7	17	80	86	42	352	118	106	24	1,510	43
7	11	7.7	15	94	100	42	202	79	67	80	1,770	161
8	10	8.0	37	110	130	40	158	60	59	49	1,290	116
9	11	8.8	188	91	160	38	189	56	49	34	782	75
10	11	8.9	67	92	130	36	159	71	41	26	266	58
11	10	9.2	42	84	110	36	127	65	35	28	169	48
12	9.8	9.5	34	73	90	100	111	58	31	25	123	42
13	9.3	9.7	33	62	80	86	369	145	28	20	190	38
14	9.2	9.7	66	56	72	64	1,540	83	27	18	363	34
15	9.1	10	45	55	100	61	1,090	57	26	16	160	32
16	8.4	10	92	54	170	125	328	46	25	15	203	31
17	8.0	9.7	200	51	250	249	192	40	419	16	405	33
18	8.2	12	103	50	350	151	373	36	344	15	263	90
19	8.0	12	68	84	160	117	223	41	119	14	143	51
20	7.8	13	72	100	140	198	157	105	69	14	113	40
21	7.7	14	365	78	120	168	124	63	51	43	108	37
22	7.7	20	180	81	150	147	106	43	40	102	128	55
23	7.6	18	123	97	180	117	94	47	34	37	100	69
24	7.4	16	98	81	150	161	82	80	206	25	93	46
25	7.4	16	86	84	130	212	73	51	112	37	78	40
26	6.8	15	80	76	110	289	67	39	60	56	66	37
27	6.6	16	78	130	90	206	63	197	53	193	60	34
28	6.6	16	71	110	80	164	58	177	65	405	55	44
29	14	17	65	120	------	209	53	88	51	191	54	52
30	11	18	62	190	------	838	48	64	41	77	45	39
31	9.3	------	104	160	------	724	------	76	------	62	40	------
TOTAL	318.9	353.3	2,466	2,931	4,198	4,890	7,625	2,276	2,700	1,751	11,167	1,566
MEAN	10.3	11.8	79.5	94.5	150	158	254	73.4	90.0	56.5	360	52.2
MAX	29	20	365	190	420	838	1,540	197	419	405	1,770	161
MIN	6.6	7.4	14	50	72	36	48	36	25	14	40	31
CFSM	.13	.15	1.02	1.22	1.93	2.04	3.27	.95	1.16	.73	4.64	.67
IN.	.15	.17	1.18	1.41	2.01	2.34	3.66	1.09	1.29	.84	5.35	.75

CAL YR 1973 TOTAL 33,939.1 MEAN 93.0 MAX 1,080 MIN 6.6 CFSM 1.20 IN 16.27
WTR YR 1974 TOTAL 42,242.2 MEAN 116 MAX 1,770 MIN 6.6 CFSM 1.49 IN 20.25

PEAK DISCHARGE (BASE, 580 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-30	2100	8.25	882	6-17	1200	6.83	596
4- 5	1430	6.76	582	8- 3	1830	7.32	694
4-14	1230	10.53	1,720	8- 7	0200	10.88	1,930

Note.--Fragmentary gage height record Jan. 27 to Mar. 14.

02091500 Contentnea Creek at Hookerton, N. C.

LOCATION.--Lat 35°25'38", long 77°35'09", Greene County, on right bank at Hookerton, 0.3 mi (0.5 km) upstream from bridge on State Highway 123, and 2.5 mi (4.0 km) upstream from Wheat Swamp Creek.

DRAINAGE AREA.--729 mi^2 (1,888 km^2).

PERIOD OF RECORD.--November 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 14.85 ft (4.526 m) above mean sea level (Corps of Engineers bench mark). Prior to Nov. 26, 1934, nonrecording gage at site 200 ft (61 m) downstream at same datum.

AVERAGE DISCHARGE.--45 years (1929-74), 769 ft^3/s (21.78 m^3/s), 14.32 in/yr (364 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,190 ft^3/s (90.3 m^3/s) Aug. 10 (gage height, 13.58 ft or 4.139 m); minimum, 44 ft^3/s (1.25 m^3/s) Oct. 28, 29; minimum gage height, 3.83 ft or 1.167 m Oct. 27-29.

Period of record: Maximum discharge, 17,200 ft^3/s (487 m^3/s) Oct. 7, 1964; maximum gage height, 22.11 ft or 6.739 m Oct. 8, 1964; minimum discharge, 15 ft^3/s (0.42 m^3/s) Oct. 28, 1933 (gage height, 1.22 ft or 0.372 m).

Flood of September 1928 reached a stage of 23.3 ft (7.10 m), from floodmark; high water of autumn 1924 was about 0.1 ft (0.03 m) lower, from information by local resident.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1333: 1903-35. WSP 1383: Drainage area. WSP 1503: 1951. WSP 1723: 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	71	64	501	889	1,720	2,930	361	723	258	428	742
2	59	61	65	689	889	1,520	3,040	340	658	217	780	562
3	141	57	70	777	1,120	1,210	3,040	348	574	188	1,170	477
4	148	54	71	866	1,350	959	2,980	356	662	168	1,210	412
5	115	53	69	909	1,560	800	2,900	357	713	152	1,730	375
6	88	52	68	926	1,730	718	2,820	434	688	144	1,980	487
7	76	51	67	891	1,940	641	2,660	514	637	171	2,170	760
8	72	52	79	826	2,160	594	2,490	519	527	227	2,640	861
9	69	53	277	816	2,270	555	2,370	488	425	281	3,160	949
10	66	52	386	868	2,210	516	2,240	464	357	375	3,290	1,010
11	64	52	359	926	2,000	485	2,060	449	307	364	3,040	1,080
12	61	52	291	943	1,730	471	1,820	447	265	315	2,660	1,100
13	58	53	226	906	1,490	507	1,610	466	235	276	2,520	1,020
14	57	54	237	820	1,290	552	1,910	545	211	227	2,620	732
15	56	55	258	718	1,130	570	2,430	587	192	196	2,490	305
16	55	55	270	617	1,000	592	2,820	578	187	168	2,420	376
17	54	53	470	541	1,090	865	2,830	554	230	145	2,380	331
18	52	52	586	492	1,270	972	2,650	510	559	127	2,230	346
19	51	53	589	462	1,480	1,040	2,510	429	711	115	2,070	447
20	50	56	510	447	1,680	1,110	2,330	366	676	106	1,840	472
21	50	58	602	468	1,870	1,180	2,040	353	516	101	1,620	452
22	49	64	832	571	2,050	1,250	1,730	341	385	105	1,400	414
23	48	68	904	607	2,130	1,280	1,460	327	287	153	1,270	405
24	48	73	937	602	2,150	1,370	1,090	373	244	138	1,150	498
25	48	72	919	613	2,090	1,460	821	373	547	113	1,000	562
26	46	69	851	645	2,010	1,670	647	351	732	122	900	595
27	45	68	695	698	1,930	1,830	558	493	670	208	812	579
28	44	67	565	736	1,850	1,930	482	622	447	638	728	464
29	48	67	492	779	------	2,010	431	716	353	685	721	403
30	65	64	432	828	------	2,350	393	740	300	596	786	376
31	84	------	428	872	------	2,630	------	749	------	459	806	------
TOTAL	2,025	1,761	12,669	22,360	46,358	35,357	60,092	14,550	14,018	7,538	54,021	17,592
MEAN	65.3	58.7	409	721	1,656	1,141	2,003	469	467	243	1,743	586
MAX	148	73	937	943	2,270	2,630	3,040	749	732	685	3,290	1,100
MIN	44	51	64	447	889	471	393	327	187	101	428	305
CFSM	.09	.08	.56	.99	2.27	1.57	2.75	.64	.64	.33	2.39	.80
IN.	.10	.09	.65	1.14	2.37	1.80	3.07	.74	.72	.38	2.76	.90

CAL YR 1973 TOTAL 281,914 MEAN 772 MAX 3,500 MIN 44 CFSM 1.06 IN 14.39
WTR YR 1974 TOTAL 288,341 MEAN 790 MAX 3,290 MIN 44 CFSM 1.08 IN 14.71

02091700 Little Contentnea Creek near Farmville, N. C.

LOCATION.--Lat 35°32'08", long 77°30'41", Pitt County, near center of span on downstream side of bridge on U. S. Highway 264, 1.5 mi (2.4 km) upstream from Middle Swamp, and 5.5 mi (8.8 km) southeast of Farmville.

DRAINAGE AREA.--93.3 mi^2 (241.6 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements water years 1952-54, 1956. October 1956 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft or 9 m (from topographic map). Oct. 1, 1956, to Aug. 19, 1958, and June 23, 1964, to Aug. 24, 1965, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--18 years, 121 ft^3/s (3.427 m^3/s), 17.61 in/yr (447 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,630 ft^3/s (46.2 m^3/s) Mar. 31 (gage height, 14.30 ft or 4.359 m); minimum, 0.38 ft^3/s (0.011 m^3/s) Oct. 27, 28; minimum gage height, 6.78 ft or 2.067 m July 24, 25.
Period of record: Maximum discharge, 5,170 ft^3/s (146 m^3/s) Oct. 6, 1964 (gage height, 19.65 ft or 5.989 m, from floodmarks), from rating curve extended above 1,500 ft^3/s (42.5 m^3/s); minimum daily, 0.02 ft^3/s (0.0006 m^3/s) Oct. 2, 3, 1968.
Flood in August and September 1955 reached stages of 18.9 ft (5.76 m) and 18.5 ft (5.64 m), respectively.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	1.1	1.0	131	118	80	1,360	21	26	10	4.3	103
2	.61	.88	1.0	206	110	72	964	20	24	7.3	7.0	68
3	25	.74	1.0	211	520	66	552	23	59	5.2	43	53
4	21	.63	1.1	174	500	60	289	23	111	4.1	33	41
5	5.7	.56	1.1	139	400	55	364	24	109	4.3	149	34
6	2.6	.49	1.2	123	300	50	643	44	62	4.5	371	34
7	1.6	.47	1.2	121	210	46	609	54	40	6.4	580	114
8	1.2	.47	3.2	194	188	43	564	45	30	6.1	698	223
9	1.2	.53	40	229	210	40	385	33	23	5.3	559	227
10	1.2	.58	56	225	175	37	267	30	18	4.3	322	161
11	1.1	.56	38	191	140	35	213	30	14	3.8	202	94
12	.94	.52	29	155	118	40	160	27	11	3.9	123	60
13	.85	.52	22	121	108	61	196	28	8.8	4.9	68	43
14	.82	.56	29	93	100	64	1,190	30	7.2	3.3	47	32
15	.82	.66	34	76	102	54	1,260	25	6.4	2.4	38	26
16	.77	.63	43	63	121	61	1,100	19	6.0	2.0	170	21
17	.71	.60	144	57	431	283	750	15	16	1.8	287	23
18	.63	.60	199	149	580	396	404	12	31	1.6	229	105
19	.58	.82	157	183	574	366	314	12	32	1.3	143	157
20	.56	1.3	103	157	545	281	298	74	16	1.2	104	117
21	.56	1.3	147	129	429	259	198	41	10	1.2	90	72
22	.53	1.3	267	137	351	247	119	22	7.2	1.3	160	49
23	.52	1.4	236	160	288	208	88	17	5.4	1.3	186	61
24	.52	1.4	171	164	249	199	69	26	9.7	1.2	171	77
25	.49	1.4	111	155	208	241	56	24	18	1.2	141	69
26	.45	1.2	81	158	151	433	46	18	39	1.3	101	51
27	.42	1.1	71	158	112	497	40	78	25	6.6	103	38
28	.40	1.1	64	160	91	439	34	118	21	89	369	30
29	.53	1.1	56	170	------	366	29	79	18	18	532	27
30	1.7	1.0	50	145	------	1,290	26	46	15	5.3	488	26
31	1.5	------	61	130	------	1,560	------	32	------	5.3	221	------
TOTAL	75.93	25.52	2,219.8	4,664	7,429	7,929	12,587	1,090	818.7	215.4	6,739.3	2,236
MEAN	2.45	.85	71.6	150	265	256	420	35.2	27.3	6.95	217	74.5
MAX	25	1.4	267	229	580	1,560	1,360	118	111	89	698	227
MIN	.40	.47	1.0	57	91	35	26	12	5.4	1.2	4.3	21
CFSM	.03	.009	.77	1.61	2.84	2.74	4.50	.38	.29	.07	2.33	.80
IN.	.03	.01	.89	1.86	2.96	3.16	5.02	.43	.33	.09	2.69	.89

CAL YR 1973 TOTAL 51,352.69 MEAN 141 MAX 1,380 MIN .40 CFSM 1.51 IN 20.48
WTR YR 1974 TOTAL 46,029.65 MEAN 126 MAX 1,560 MIN .40 CFSM 1.35 IN 18.35

PEAK DISCHARGE (BASE, 660 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-31	0030	14.30	1,630	4-14	1800	14.03	1,470
4- 6	0930	12.42	662	8- 8	0830	12.55	710

02091960 Creeping Swamp near Calico, N. C.

LOCATION.--Lat 35°25'42", long 77°11'12", Beaufort County, on left bank at downstream side of bridge on State Highway 102, 4.2 mi (6.8 km) northeast of Calico, and 4.5 mi (7.2 km) upstream from mouth.

DRAINAGE AREA.--9.8 mi^2 (25.4 km^2), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Soil Conservation Service bench mark). Prior to Oct. 1, 1972, at datum 27.98 ft (8.528 m) higher.

EXTREMES.--Current year: Maximum discharge, 120 ft^3/s (3.40 m^3/s) June 3 (gage height, 34.95 ft or 10.653 m); no flow Oct. 1 to Dec. 8, July 14-27.
Period of record: Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) Oct. 1, 1971 (gage height, 36.90 ft or 11.247 m, present datum); no flow at times each year.

REMARKS.--Records fair. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	6.9	18	8.8	58	.90	13	.25	.01	16
2			0	7.1	17	7.5	36	.85	39	.16	.04	18
3			0	7.8	32	6.6	24	.75	108	.08	.10	25
4			0	8.3	48	5.7	19	.62	74	.04	.33	27
5			0	8.0	37	4.9	62	.70	44	.03	1.2	25
6			0	8.0	26	4.3	85	.95	27	.03	3.1	21
7			0	7.3	21	3.9	54	.75	20	.17	24	22
8			0	7.5	20	3.2	33	.62	15	.30	30	21
9			.30	7.3	19	3.0	42	1.3	12	.14	26	19
10			.30	6.9	17	2.5	44	4.0	8.8	.06	23	15
11			.28	5.9	15	2.2	32	9.6	5.7	.04	18	12
12			.22	5.0	13	2.5	23	10	3.6	.03	14	9.8
13			.17	4.3	11	3.4	22	8.0	2.4	.02	15	7.5
14			.43	3.7	10	3.1	70	5.7	1.6	0	33	5.5
15			.46	3.5	11	2.8	72	3.9	1.2	0	17	4.0
16			5.2	3.0	13	7.1	44	2.6	.75	0	13	3.0
17			23	2.7	30	29	26	1.6	.58	0	11	2.4
18			36	2.5	36	39	18	1.2	.46	0	11	3.6
19			16	3.1	29	30	14	4.7	.36	0	15	3.4
20			14	9.0	29	34	11	26	.30	0	16	4.5
21			36	11	27	36	8.8	24	.17	0	16	4.3
22			33	12	25	34	6.8	16	.09	0	14	3.5
23			17	11	25	27	5.9	12	.05	0	17	2.8
24			13	11	22	30	4.5	11	.06	0	24	2.2
25			11	10	18	50	3.4	9.6	.06	0	27	1.7
26			9.6	9.6	14	85	2.6	7.5	.04	0	26	1.4
27			8.5	11	12	74	2.0	34	.31	0	29	1.1
28			7.5	9.3	10	52	1.6	58	.62	.04	34	1.2
29			6.6	13	------	44	1.3	36	.43	.03	33	1.3
30			5.5	20	------	105	1.1	22	.30	.02	25	.85
31		------	5.4	22	------	93	------	15	------	.02	18	------
TOTAL	0	0	249.46	257.7	605	833.5	827.0	329.84	379.88	1.46	533.78	285.05
MEAN	0	0	8.05	8.31	21.6	26.9	27.6	10.6	12.7	.047	17.2	9.50
MAX	0	0	36	22	48	105	85	58	108	.30	34	27
MIN	0	0	0	2.5	10	2.2	1.1	.62	.04	0	.01	.85
CFSM	0	0	.82	.85	2.20	2.74	2.82	1.08	1.30	.005	1.76	.97
IN.	0	0	.95	.98	2.30	3.16	3.14	1.25	1.44	.005	2.03	1.08

CAL YR 1973 TOTAL 5,476.50 MEAN 15.0 MAX 421 MIN 0 CFSM 1.53 IN 20.79
WTR YR 1974 TOTAL 4,302.67 MEAN 11.8 MAX 108 MIN 0 CFSM 1.20 IN 16.33

PEAK DISCHARGE (BASE, 50 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	2100	34.65	50	4-14	1700	34.82	85
3-26	1100	34.84	90	5-28	0115	34.73	66
3-30	1215	34.92	111	6- 3	0730	34.95	120
4- 5	2400	34.86	95				

02091970 Creeping Swamp near Vanceboro, N. C.

LOCATION.--Lat 35°23'30", long 77°13'46", Craven County, on left bank at downstream side of bridge on State Highway 43, 1.0 mi (1.6 km) upstream from mouth, and 7.9 mi (12.7 km) northwest of Vanceboro.

DRAINAGE AREA.--27 mi^2 (70 km^2), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Soil Conservation Service bench mark). Prior to Oct. 1, 1972, at datum 16.60 ft (5.060 m) higher.

EXTREMES.--Current year: Maximum discharge, 240 ft^3/s (6.80 m^3/s) Mar. 31 (gage height, 21.40 ft or 6.523 m); no flow Oct. 13 to Dec. 7, July 19-26.

Period of record: Maximum discharge, 1,810 ft^3/s (51.3 m^3/s) Oct. 1, 1971 (gage height, 24.53 ft or 7.477 m present datum); no flow June 26 to July 1, 1971, July 23 to Aug. 2, 12, Aug. 29 to Sept. 8, 1973, Oct. 13 to Dec. 17, 1973, July 19-26, 1974.

REMARKS.--Records fair. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01		0	17	52	26	180	4.5	28	.40	.55	41
2	.01		0	18	51	23	115	3.5	37	.29	.71	46
3	.05		0	19	56	21	80	2.8	66	.20	4.0	68
4	.06		0	19	92	19	59	2.1	110	.12	5.3	80
5	.06		0	19	98	17	118	1.9	98	.06	22	80
6	.05		0	19	82	15	177	3.0	66	.05	45	68
7	.04		0	20	68	14	156	3.3	46	.09	40	58
8	.03		.06	20	59	13	110	2.8	32	.55	61	53
9	.03		5.6	19	55	13	101	3.2	24	.50	66	46
10	.02		11	19	48	12	106	10	18	.29	74	41
11	.01		8.2	18	43	11	92	10	14	.21	59	34
12	.01		7.8	17	37	11	73	14	10	.14	39	28
13	0		7.4	16	32	13	59	13	8.2	.08	33	22
14	0		9.7	14	29	12	68	12	6.3	.05	48	17
15	0		9.7	14	29	11	90	11	5.0	.03	71	14
16	0		14	13	34	17	98	8.2	3.3	.02	88	11
17	0		38	12	62	56	76	6.3	2.2	.02	61	11
18	0		44	12	74	68	56	4.5	1.4	.01	40	15
19	0		44	11	76	74	41	4.0	.88	0	46	15
20	0		43	10	82	92	32	13	.55	0	53	14
21	0		68	13	76	101	25	11	.35	0	46	12
22	0		80	25	68	90	20	18	.21	0	52	9.7
23	0		73	28	68	80	18	23	.13	0	96	8.9
24	0		62	28	61	78	16	22	.11	0	120	8.2
25	0		48	28	52	88	14	18	.08	0	101	7.4
26	0		37	27	44	153	12	14	.05	0	90	6.3
27	0		30	26	37	174	9.7	39	.16	.64	78	5.3
28	0		26	25	30	150	8.6	46	.52	13	82	4.8
29	0		22	32	------	115	7.4	53	.55	5.6	68	4.3
30	0		20	46	------	219	6.1	52	.50	2.0	55	3.5
31	0	------	18	50	------	231	------	39	------	.92	45	------
TOTAL	.38	0	726.46	654	1,595	2,017	2,023.8	468.1	579.49	25.27	1,689.56	832.4
MEAN	.012	0	23.4	21.1	57.0	65.1	67.5	15.1	19.3	.82	54.5	27.7
MAX	.06	0	80	50	98	231	180	53	110	13	120	80
MIN	0	0	0	10	29	11	6.1	1.9	.05	0	.55	3.5
CFSM	.0004	0	.87	.78	2.11	2.41	2.50	.56	.71	.03	2.02	1.03
IN.	0	0	1.00	.90	2.20	2.78	2.79	.64	.80	.03	2.33	1.15

CAL YR 1973 TOTAL 14,474.01 MEAN 39.7 MAX 1,210 MIN 0 CFSM 1.47 IN 19.94
WTR YR 1974 TOTAL 10,611.46 MEAN 29.1 MAX 231 MIN 0 CFSM 1.08 IN 14.62

PEAK DISCHARGE (BASE, 250 CFS).--No peak above base.

02092000 Swift Creek near Vanceboro, N. C.

LOCATION.--Lat 35°20'42", long 77°11'45", Craven County, on left bank at downstream side of bridge on Secondary Road 1478, 2.5 mi (4.0 km) upstream from bridge on State Highway 118, 2.5 mi (4.0 km) downstream from Clayroot Swamp, and 3.5 mi (5.6 km) northwest of Vanceboro.

DRAINAGE AREA.--182 mi^2 (471 km^2).

PERIOD OF RECORD.--January 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2.07 ft (0.631 m) below mean sea level (Corps of Engineers bench mark). Prior to Jan. 17, 1951, nonrecording gage and Jan. 17, 1951, to Sept. 30, 1964, water-stage recorder at same site at datum 6.00 ft (1.829 m) higher.

AVERAGE DISCHARGE.--24 years, 208 ft^3/s (5.891 m^3/s), 15.52 in/yr (394 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,670 ft^3/s (47.3 m^3/s) Aug. 8 (gage height, 12.11 ft or 3.691 m); minimum, 7.1 ft^3/s (0.20 m^3/s) Nov. 8-10 (gage height, 3.90 ft or 1.189 m).
Period of record: Maximum discharge, 6,060 ft^3/s (172 m^3/s) Sept. 22, 1955 (gage height, 19.67 ft or 6.000 m present datum); no flow Aug. 8-29, Oct. 4 to Nov. 9, 1954.
Flood in 1909 reached a stage of 22 ft (6.7 m), present datum, and flood in 1928 reached a stage of 17.7 ft (5.39 m), present datum, from information by local resident.

REMARKS.--Records fair. During 1964, the channel was canalized from a point 12.2 mi (19.6 km) upstream to a point 2.5 mi (4.0 km) downstream from the gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	8.4	13	153	304	158	1,250	65	178	25	42	232
2	10	8.2	12	164	277	145	1,160	58	229	20	92	225
3	49	8.0	12	188	396	135	840	56	343	17	398	297
4	94	7.7	12	187	670	127	577	54	331	14	431	313
5	58	7.8	13	186	749	117	661	51	285	13	791	297
6	40	7.5	13	190	719	111	930	65	232	13	1,430	264
7	30	7.2	12	194	602	103	870	78	187	19	1,560	341
8	21	7.1	17	188	456	95	680	68	154	216	1,660	550
9	17	7.1	112	185	399	89	620	64	129	186	1,610	625
10	15	7.2	171	182	338	82	635	80	102	106	1,480	505
11	14	7.4	134	183	284	75	535	85	81	90	1,050	353
12	14	7.7	98	178	246	77	439	101	65	66	595	249
13	12	7.7	75	171	216	102	375	98	55	44	327	196
14	11	7.8	91	163	195	103	660	83	48	33	397	165
15	10	7.9	125	153	195	97	885	68	42	26	327	144
16	9.2	7.9	149	141	219	104	1,060	56	37	21	268	133
17	8.8	7.8	318	139	479	397	1,040	48	33	19	228	122
18	8.6	7.9	401	131	620	539	719	42	31	16	210	169
19	8.1	8.8	351	125	566	480	458	44	28	14	456	337
20	8.2	9.3	274	117	533	473	317	116	25	12	371	403
21	7.8	9.8	383	164	486	473	238	115	22	12	275	317
22	8.1	9.8	508	190	399	432	197	87	19	12	525	245
23	8.4	10	470	214	365	383	177	76	19	12	801	186
24	8.6	10	367	200	312	538	157	87	18	11	994	152
25	9.2	10	280	250	267	596	136	89	18	11	951	132
26	9.5	10	232	300	228	888	121	70	18	12	948	117
27	9.6	10	205	280	194	1,010	106	274	22	14	855	103
28	9.5	11	185	230	171	872	95	545	50	149	870	95
29	9.6	12	169	210	------	677	84	435	44	200	718	91
30	8.8	13	156	260	------	936	73	309	32	107	485	82
31	8.6	------	145	300	------	1,150	------	232	------	53	293	------
TOTAL	545.1	262.0	5,503	5,916	10,885	11,564	16,095	3,699	2,877	1,563	21,438	7,440
MEAN	17.6	8.73	178	191	389	373	537	119	95.9	50.4	692	248
MAX	94	13	508	300	749	1,150	1,250	545	343	216	1,660	625
MIN	7.8	7.1	12	117	171	75	73	42	18	11	42	82
CFSM	.10	.05	.98	1.05	2.14	2.05	2.95	.65	.53	.28	3.80	1.36
IN.	.11	.05	1.12	1.21	2.22	2.36	3.29	.76	.59	.32	4.38	1.52

CAL YR 1973 TOTAL 90,729.7 MEAN 249 MAX 3,620 MIN 7.1 CFSM 1.37 IN 18.54
WTR YR 1974 TOTAL 87,787.1 MEAN 241 MAX 1,660 MIN 7.1 CFSM 1.32 IN 17.94

02092020 Palmetto Swamp near Vanceboro, N. C.

LOCATION.--Lat 35°20'18", long 77°10'16", Craven County, on left bank at upstream side of bridge on State Highway 43, 1.3 mi (2.1 km) upstream from mouth, and 2.5 mi (4.0 km) northwest of Vanceboro.

DRAINAGE AREA.--24 mi² (62 km²), approximately.

PERIOD OF RECORD.--Annual maximum, water years 1953-70 and occasional low-flow measurements water years 1956-68, 1970. March 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (Soil Conservation Service bench mark). Prior to Feb. 28, 1971, crest-stage gage 40 ft (12 m) upstream from bridge at datum 14.31 ft (4.362 m) lower. Mar. 1, 1971, to Sept. 30, 1972, water-stage recorder at present site at datum 2.46 ft (0.750 m) higher.

EXTREMES.--Current year: Maximum discharge, 212 ft³/s (6.00 m³/s) Aug. 23 (gage height, 8.87 ft or 2.704 m); no flow Oct. 13 to Nov. 18.
Period of record: Maximum discharge, 3,700 ft³/s (105 m³/s) Sept. 20, 1955 (gage height, 26.14 ft or 7.967 m), site and datum then in use; no flow at times during several years.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WRD N. C. 1972: 1971.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	0	.26	8.1	52	16	93	1.5	5.2	.81	.30	28
2	.07	0	.26	11	45	14	62	1.2	4.8	.51	.43	57
3	.05	0	.26	13	49	12	45	1.0	6.3	.36	1.0	114
4	.04	0	.25	14	72	10	34	.81	7.5	.23	1.9	93
5	.03	0	.27	14	62	9.3	60	.81	7.5	.16	11	65
6	.02	0	.34	13	47	8.6	88	1.5	6.1	.13	21	52
7	.02	0	.37	12	35	7.8	75	1.8	4.5	.21	20	42
8	.01	0	1.5	11	30	7.0	51	1.6	3.5	.28	23	41
9	.01	0	21	10	30	6.3	52	2.1	2.6	.24	26	39
10	.01	0	15	10	28	5.7	56	6.1	1.8	.20	36	30
11	.01	0	12	9.6	25	5.2	51	6.3	1.2	.20	28	22
12	.01	0	9.2	9.0	20	5.9	38	9.6	.73	.16	21	15
13	0	0	7.6	8.2	17	7.5	32	8.0	.56	.11	13	10
14	0	0	8.6	7.3	14	8.3	67	5.5	.46	.07	22	7.3
15	0	0	8.1	6.6	14	8.3	52	3.7	.38	.05	43	5.0
16	0	0	11	6.0	19	14	44	2.4	.28	.03	29	4.0
17	0	0	48	5.5	54	50	32	1.6	.20	.04	27	4.2
18	0	0	65	5.1	81	57	24	1.1	.14	.03	48	25
19	0	.01	58	5.1	71	53	18	.90	.10	.03	84	35
20	0	.01	34	4.9	73	71	14	1.6	.07	.02	64	30
21	0	.02	44	6.5	66	77	10	3.7	.05	.02	42	21
22	0	.02	51	16	57	69	8.3	4.5	.03	.02	85	13
23	0	.03	50	22	59	73	7.5	3.4	.03	.02	180	8.8
24	0	.04	34	25	54	143	6.8	3.0	.06	.02	183	6.3
25	0	.05	22	20	42	163	5.7	2.4	.08	.02	127	4.8
26	0	.06	17	16	29	188	4.8	1.9	.07	.02	71	3.8
27	0	.07	14	13	23	148	4.1	10	.62	.06	50	3.2
28	0	.10	12	12	19	99	3.3	24	3.0	.77	50	2.8
29	0	.23	11	15	------	78	2.6	22	2.3	.69	52	2.6
30	0	.26	9.6	32	------	135	2.0	13	1.4	.46	41	2.1
31	0	------	8.7	52	------	139	------	8.0	------	.32	29	------
TOTAL	.37	.90	574.31	412.9	1,187	1,688.9	1,043.1	155.02	61.56	6.29	1,429.63	786.9
MEAN	.012	.030	18.5	13.3	42.4	54.5	34.8	5.00	2.05	.20	46.1	26.2
MAX	.09	.26	65	52	81	188	93	24	7.5	.81	183	114
MIN	0	0	.25	4.9	14	5.2	2.0	.81	.03	.02	.30	2.1
CFSM	.0005	.001	.77	.55	1.77	2.27	1.45	.21	.09	.008	1.92	1.09
IN.	0	.001	.89	.64	1.84	2.62	1.62	.24	.10	.009	2.22	1.22

CAL YR 1973 TOTAL 12,825.51 MEAN 35.1 MAX 1,300 MIN 0 CFSM 1.46 IN 19.88
WTR YR 1974 TOTAL 7,346.88 MEAN 20.1 MAX 188 MIN 0 CFSM .84 IN 11.39

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-25	2200	8.80	195	9- 2	2400	8.52	129
8-23	2000	8.87	212				

02092500 Trent River near Trenton, N. C.

LOCATION.--Lat 35°03'55", long 77°27'25", Jones County, on left bank 50 ft (15 m) downstream from Free Bridge on Secondary Road 1129, 800 ft (244 m) downstream from Little Chinquapin Branch, 1.5 mi (2.4 km) southwest of Phillips Crossroads, and 6 mi (10 km) west of Trenton.

DRAINAGE AREA.--168 mi^2 (435 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 19.15 ft (5.837 m) above mean sea level. Prior to Mar. 21, 1951, nonrecording gage on bridge 50 ft (15 m) upstream at same datum.

AVERAGE DISCHARGE.--23 years, 202 ft^3/s (5.721 m^3/s), 16.33 in/yr (415 mm/yr).

EXTREMES.--Current year: Maximum discharge, 906 ft^3/s (25.7 m^3/s) Aug. 10 (gage height, 11.19 ft or 3.411 m); minimum, 0.30 ft^3/s (0.008 m^3/s) Oct. 23, 24, 25, 26; minimum gage height, 2.28 ft or 0.695 m Oct. 23, 24.
Period of record: Maximum discharge, 9,100 ft^3/s (258 m^3/s) Sept. 21, 1955 (gage height, 17.84 ft or 5.438 m); minimum, 1.3 ft^3/s (0.037 m^3/s) Oct. 11-15, 1954.
Flood in 1928 reached a stage of 17.3 ft or 5.27 m (discharge, 7,600 ft^3/s or 215 m^3/s), from information furnished by North Carolina State Highway Commission.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	1.5	9.2	98	324	207	416	36	335	56	78	200
2	3.6	1.5	9.9	101	385	176	396	32	419	42	92	145
3	3.4	1.5	11	119	448	150	361	30	510	35	118	168
4	3.4	1.7	11	134	480	132	305	29	529	27	147	192
5	3.3	1.7	11	140	481	120	257	30	551	21	275	166
6	3.8	1.6	11	149	460	110	255	36	567	19	453	142
7	4.1	1.6	11	161	419	101	276	50	512	33	641	138
8	4.1	1.6	14	161	372	93	312	57	374	70	781	147
9	3.4	1.7	36	148	331	87	367	56	238	82	884	146
10	3.0	1.6	65	131	300	80	402	60	164	76	906	133
11	2.5	1.5	74	113	277	73	391	59	115	75	872	116
12	2.1	1.6	78	102	254	73	369	52	88	72	875	101
13	1.9	1.5	80	91	220	84	329	49	78	56	789	88
14	1.6	1.7	93	81	192	98	290	47	65	43	642	94
15	1.4	1.9	99	74	194	99	296	43	56	34	501	85
16	1.3	1.9	101	71	291	103	345	36	52	29	376	73
17	.98	2.1	128	68	379	294	372	30	45	77	316	67
18	.74	2.3	169	68	474	364	364	35	39	96	299	65
19	.64	3.5	197	68	553	425	320	118	33	68	343	71
20	.52	3.6	206	67	600	478	237	268	28	49	403	89
21	.52	3.4	241	70	583	485	174	281	25	43	424	88
22	.43	3.4	277	102	552	456	134	214	21	84	421	68
23	.34	3.3	280	141	520	412	114	180	19	121	417	55
24	.34	3.3	253	164	486	384	98	194	17	116	416	49
25	.35	3.3	216	160	457	362	83	195	16	102	516	44
26	.41	3.6	185	148	414	396	71	181	18	110	609	41
27	.47	4.6	162	141	349	427	62	220	26	105	744	39
28	.42	4.6	148	135	268	440	54	291	48	110	754	37
29	.99	5.5	133	132	------	442	47	316	66	132	626	37
30	1.3	8.1	120	169	------	439	42	334	70	127	501	35
31	1.5	------	107	249	------	430	------	355	------	101	338	------
TOTAL	56.35	80.7	3,536.1	3,756	11,063	8,020	7,539	3,914	5,124	2,211	15,557	2,919
MEAN	1.82	2.69	114	121	395	259	251	126	171	71.3	502	97.3
MAX	4.1	8.1	280	249	600	485	416	355	567	132	906	200
MIN	.34	1.5	9.2	67	192	73	42	29	16	19	78	35
CFSM	.01	.02	.68	.72	2.35	1.54	1.49	.75	1.02	.42	2.99	.58
IN.	.01	.02	.78	.83	2.45	1.78	1.67	.87	1.13	.49	3.44	.65

CAL YR 1973 TOTAL 77,854.25 MEAN 213 MAX 2,640 MIN .34 CFSM 1.27 IN 17.24
WTR YR 1974 TOTAL 63,776.15 MEAN 175 MAX 906 MIN .34 CFSM 1.04 IN 14.12

02093800 Reedy Fork near Oak Ridge, N. C.

LOCATION.--Lat 36°10'24", long 79°57'15", Guilford County, on left bank at downstream side of bridge on Secondary Road 2128, 0.8 mi (1.3 km) downstream from Beaver Creek, and 2 mi (3 km) east of Oak Ridge.

DRAINAGE AREA.--19.9 mi^2 (51.5 km^2).

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 771.30 ft (235.092 m) above mean sea level Prior to Dec. 13, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--19 years, 22.0 ft^3/s (0.623 m^3/s), 15.01 in/yr (381 mm/yr).

EXTREMES.--Current year: Maximum discharge, 957 ft^3/s (27.1 m^3/s) Sept. 7 (gage height, 9.29 ft or 2.832 m); minimum, 6.0 ft^3/s (0.17 m^3/s) July 16 (gage height, 3.08 ft or 0.939 m); minimum daily, 7.2 ft^3/s (0.20 m^3/s) July 23. 10.94 ft
Period of record: Maximum discharge, 3,950 ft^3/s (112 m^3/s) Oct. 10, 1959 (gage height, 10.94ft or 3.335 m), from rating curve extended above 1,500 ft^3/s (42.5 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 1.5 ft^3/s (0.042 m^3/s) Sept. 24, 1968.

REMARKS.--Records fair. Some diurnal fluctuation at low flow caused by mill upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	14	12	69	29	21	27	15	28	12	8.1	21
2	27	11	12	43	27	20	28	21	19	11	10	30
3	17	11	12	42	30	20	24	19	17	11	26	62
4	12	11	12	43	33	19	33	16	15	13	31	56
5	10	13	33	36	24	19	67	25	13	16	159	20
6	9.7	12	24	32	32	24	39	28	13	16	251	276
7	9.3	11	16	29	68	20	28	18	13	13	88	420
8	10	12	21	25	70	19	31	16	14	12	34	62
9	11	12	112	42	49	18	71	50	13	12	26	38
10	11	10	42	43	36	18	37	31	12	11	25	27
11	11	10	24	33	30	17	29	22	13	11	17	21
12	9.7	12	19	28	26	20	26	33	11	8.8	15	18
13	9.5	10	23	24	25	20	27	31	11	8.5	15	16
14	9.6	11	26	23	24	18	24	19	12	8.3	14	15
15	9.0	13	21	22	32	17	22	17	25	8.5	14	14
16	9.7	15	30	22	35	23	20	17	20	8.1	15	14
17	8.7	12	32	21	45	25	22	16	27	7.7	29	16
18	9.5	11	24	20	35	18	27	15	14	8.3	14	18
19	8.8	12	20	19	36	18	21	17	12	8.1	14	14
20	8.6	11	47	19	33	20	19	52	24	7.4	13	14
21	8.8	14	503	165	27	39	18	23	58	7.5	12	13
22	8.7	19	87	81	50	30	18	18	23	8.1	11	16
23	9.0	13	50	45	39	22	25	27	15	7.2	11	14
24	9.4	12	36	37	30	20	19	21	13	17	9.9	13
25	9.3	12	31	40	26	21	18	16	12	18	9.4	13
26	10	13	32	143	23	23	18	15	15	11	10	13
27	8.7	16	31	146	22	21	17	47	16	43	9.9	12
28	10	22	25	63	22	20	17	23	17	15	8.8	24
29	45	17	23	67	------	27	16	18	17	11	8.8	15
30	15	14	34	42	------	57	16	17	14	9.2	12	13
31	12	------	39	33	------	40	------	16	------	7.9	18	------
TOTAL	372.0	386	1,453	1,497	958	714	804	719	526	366.6	938.9	1,318
MEAN	12.0	12.9	46.9	48.3	34.2	23.0	26.8	23.2	17.5	11.8	30.3	43.9
MAX	45	22	503	165	70	57	71	52	58	43	251	420
MIN	8.6	10	12	19	22	17	16	15	11	7.2	8.1	12
CFSM	.60	.65	2.36	2.43	1.72	1.16	1.35	1.17	.88	.59	1.52	2.21
IN.	.70	.72	2.72	2.80	1.79	1.33	1.50	1.34	.98	.69	1.76	2.46

CAL YR 1973 TOTAL 9,488.7 MEAN 26.0 MAX 579 MIN 7.4 CFSM 1.31 IN 17.74
WTR YR 1974 TOTAL 10,052.5 MEAN 27.5 MAX 503 MIN 7.2 CFSM 1.38 IN 18.79

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1300	8.85	828	8- 6	1900	7.53	497
1-21	1700	7.54	499	9- 7	0130	9.29	957
1-26	2200	7.11	410				

02094500 Reedy Fork near Gibsonville, N. C.

LOCATION.--Lat 36°10'31", long 79°36'57", Guilford County, on right bank 0.2 mi (0.3 km) downstream from Huffines Mill on Secondary Road 2774, 1.2 mi (1.9 km) upstream from Buffalo Creek, and 6 mi (10 km) northwest of Gibsonville.

DRAINAGE AREA.--133 mi^2 (344 km^2).

PERIOD OF RECORD.--September 1928 to current year.

GAGE.--Water-stage recorder and rock-masonry control. Datum of gage is 626.88 ft (191.073 m) above mean sea level.

AVERAGE DISCHARGE.--46 years, 99.4 ft^3/s (2.815 m^3/s), 10.15 in/yr (258 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,070 ft^3/s (86.9 m^3/s) Sept. 7 (gage height, 10.64 ft or 3.243 m); minimum, 4.9 ft^3/s (0.14 m^3/s) Oct. 18, July 20-23, 24; minimum gage height, 0.76 ft or 0.232 m, July 20-23, 24.

Period of record: Maximum discharge, 11,600 ft^3/s (329 m^3/s) Sept. 25, 1947 (gage height, 20.77 ft or 6.331 m); minimum daily, 0.4 ft^3/s (0.011 m^3/s) Oct. 14, 1954.

Flood in July 1916 reached a stage of 17.90 ft (5.456 m), from information by local resident (discharge, 8,640 ft^3/s or 245 m^3/s).

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Flow partly regulated since 1923 by Lake Brandt 14 mi (23 km) upstream (see p. 136), since 1957 by Lake Higgins on Brush Creek, a tributary to Lake Brandt, (see p. 136), since 1943 by Richland Lake 12 mi (19 km) above station, and since 1968 by Lake Townsend 9 mi (14 km) above station. City of Greensboro diverted from Lake Brandt an average of 16.3 ft^3/s (0.46 m^3/s) and an average of 25.2 ft^3/s (0.71 m^3/s) from Lake Townsend for municipal supply. Cone Mills diverted from Richland Lake an average of 1.3 ft^3/s (0.037 m^3/s) during the year.

REVISIONS (WATER YEARS).--WSP 1303: 1929-40 (monthly and yearly runoff). WSP 1383: 1929-30, 1933(M), 1934, 1937(M), 1939-42(M), 1948.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	9.1	9.9	593	28	30	32	28	136	11	5.4	80
2	15	8.0	10	95	35	27	28	30	73	10	5.6	400
3	10	8.4	9.8	60	60	26	25	28	55	10	10	50
4	8.5	8.6	9.3	59	45	25	27	20	43	9.5	22	86
5	7.3	11	17	358	40	30	71	26	33	9.6	88	30
6	6.7	11	22	389	60	40	53	55	29	13	624	1,120
7	6.1	8.8	12	74	70	35	45	27	30	12	1,200	2,820
8	7.6	9.0	14	33	90	30	58	21	24	11	500	1,700
9	9.8	9.9	75	60	50	25	226	91	22	8.8	200	600
10	8.9	9.2	23	58	40	23	179	56	20	10	64	310
11	8.3	9.0	14	48	226	25	78	68	19	9.1	21	40
12	8.8	9.7	10	33	46	30	70	104	16	7.7	29	36
13	8.5	10	10	30	31	35	70	125	14	6.7	23	32
14	8.3	11	13	31	30	32	70	115	12	6.5	20	31
15	7.7	12	13	32	60	25	74	102	12	6.6	19	30
16	6.5	16	21	29	70	50	71	79	18	7.0	28	27
17	7.2	13	26	28	60	30	115	60	25	5.8	21	35
18	5.0	9.8	18	26	56	25	342	84	16	5.4	17	30
19	5.6	11	14	29	64	40	49	74	12	5.4	22	25
20	6.6	11	58	34	45	25	35	46	12	5.2	25	20
21	6.9	11	292	220	40	43	34	40	14	4.9	24	23
22	6.9	17	234	60	78	41	34	43	16	4.9	22	30
23	6.2	14	323	40	50	29	39	49	16	4.9	20	26
24	6.4	12	276	35	35	25	38	53	16	6.6	26	24
25	9.0	14	159	45	30	24	35	48	11	11	21	22
26	9.2	13	110	200	30	26	33	39	10	8.5	20	25
27	6.6	13	214	100	35	28	32	115	14	9.0	20	24
28	6.6	14	166	150	30	25	31	106	16	9.0	20	40
29	15	15	97	40	------	27	30	100	15	7.0	20	20
30	12	11	134	35	------	68	29	86	12	6.1	29	16
31	8.0	------	394	30	------	49	------	70	------	5.6	40	------
TOTAL	265.2	339.5	2,796.0	3,054	1,534	993	2,053	1,988	761	247.8	3,206.0	7,752
MEAN	8.55	11.3	90.3	98.5	54.8	32.0	68.4	64.1	25.4	7.99	103	258
MAX	20	17	394	593	226	68	342	125	136	13	1,200	2,820
MIN	5.0	8.0	9.3	26	28	23	25	20	10	4.9	5.4	16

CAL YR 1973 TOTAL 36,382.7 MEAN 99.7 MAX 2,640 MIN 5.0

WTR YR 1974 TOTAL 24,991.5 MEAN 68.5 MAX 2,820 MIN 4.9

Note.--No gage-height record Jan. 12 to Feb. 10 and Feb. 15 to Mar. 19.

02095500 North Buffalo Creek near Greensboro, N. C.

LOCATION.--Lat 36°07'13", long 79°42'30", Guilford County, on left bank 5 ft (2 m) downstream from bridge on Secondary Road 2832, 4.2 mi (6.8 km) upstream from mouth, and 5.8 mi (9.3 km) northeast of post office in Greensboro.

DRAINAGE AREA.--37.0 mi^2 (95.8 km^2).

PERIOD OF RECORD.--August 1928 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 678.02 ft (206.660 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--46 years, 51.7 ft^3/s (1.464 m^3/s), 18.98 in/yr (482 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,570 ft^3/s (101 m^3/s) Sept. 6 (gage height, 13.16 ft or 4.011 m); minimum, 16 ft^3/s (0.45 m^3/s) Oct. 22, Nov. 4, July 29, 30, 31, Aug. 2; minimum gage height, 1.97 ft or 0.600 m, July 31.

Period of record: Maximum discharge, 6,600 ft^3/s (187 m^3/s) June 16, 1969 (gage height, 16.63 ft or 5.069 m), from rating curve extended above 2,900 ft^3/s (82.1 m^3/s) on basis of contracted-opening measurements at gage heights 14.15 ft or 4.313 m, 15.96 ft or 4.865 m, and 16.63 ft or 5.069 m; minimum, 1.6 ft^3/s (0.045 m^3/s) Aug. 28, 1932.

REMARKS.--Records good. Diurnal fluctuation at low flow caused by mills above station. Diversion into basin from Greensboro and Proximity Mills enter above station.

REVISIONS (WATER YEARS).--WSP 1303: 1929, 1931-42, monthly and yearly runoff. WSP 1383: Drainage area, 1928(M), 1929, 1933-34(M), 1936(M), 1941(M), 1943(M), 1945(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	36	27	215	47	39	49	36	43	30	101	177
2	51	30	27	77	49	38	43	228	33	32	132	886
3	31	27	29	159	81	36	41	45	33	31	44	74
4	28	24	29	97	96	37	115	36	32	27	133	171
5	29	45	167	67	47	39	203	137	30	53	871	49
6	26	33	53	51	121	56	61	88	38	64	494	1,590
7	23	29	34	51	141	48	45	40	42	27	75	613
8	58	27	142	43	289	46	135	35	30	33	51	120
9	32	28	374	148	87	36	297	417	29	76	48	71
10	28	27	46	68	61	33	62	155	40	36	40	54
11	28	25	37	52	52	34	51	51	66	29	30	48
12	29	26	35	44	46	43	45	284	32	29	38	45
13	28	27	65	37	43	46	57	94	30	27	43	44
14	25	27	45	39	42	37	43	46	150	26	35	41
15	26	28	61	39	77	36	39	41	56	28	31	40
16	28	41	105	38	161	93	37	37	121	31	44	38
17	26	29	79	37	110	59	39	37	60	29	35	70
18	26	26	61	36	62	37	41	34	32	27	29	53
19	27	27	49	36	94	51	36	32	31	30	34	42
20	26	28	301	37	62	58	34	45	33	29	37	40
21	24	58	699	603	51	177	31	34	35	24	37	35
22	24	40	81	93	181	58	35	33	28	27	35	46
23	26	27	50	56	66	43	55	105	25	29	32	37
24	26	27	42	52	49	38	38	45	26	32	36	35
25	28	26	37	135	46	68	35	34	30	34	33	34
26	28	29	47	331	42	55	35	30	52	52	31	36
27	26	39	43	171	43	47	32	280	106	56	31	36
28	24	53	36	197	40	43	31	46	54	22	31	107
29	181	33	36	153	------	150	33	36	37	24	36	38
30	31	28	100	69	------	191	33	36	29	23	59	35
31	29	------	157	55	------	75	------	38	------	23	68	------
TOTAL	1,095	950	3,094	3,286	2,286	1,847	1,831	2,635	1,383	1,040	2,774	4,705
MEAN	35.3	31.7	99.8	106	81.6	59.6	61.0	85.0	46.1	33.5	89.5	157
MAX	181	58	699	603	289	191	297	417	150	76	871	1,590
MIN	23	24	27	36	40	33	31	30	25	22	29	34

CAL YR 1973 TOTAL 29,897 MEAN 81.9 MAX 1,960 MIN 23
WTR YR 1974 TOTAL 26,926 MEAN 73.8 MAX 1,590 MIN 22

PEAK DISCHARGE (BASE, 920 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	0930	10.23	1,660	5-12	1900	7.02	958
1-21	1130	9.99	1,590	8- 5	0900	10.62	1,800
4- 9	0130	7.99	1,130	9- 2	0400	12.53	3,050
5- 9	1200	8.62	1,250	9- 6	2000	13.16	3,570

02096500 Haw River at Haw River, N. C.

LOCATION.--Lat 36°05'13", long 79°22'02", Alamance County, on left bank at town of Haw River, 650 ft (198 m), downstream from Southern Railway bridge, 800 ft (244 m) downstream from bridge on U. S. Highway 70 and State Highway 49, and 3 mi (5 km) downstream from Stony Creek.

DRAINAGE AREA.--599 mi^2 (1,551 km^2).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 471.69 ft (143.771 m) above mean sea level.

AVERAGE DISCHARGE.--46 years, 562 ft^3/s (15.92 m^3/s), 12.74 in/yr (324 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,100 ft^3/s (286 m^3/s) Sept. 7 (gage height, 18.42 ft or 5.614 m); minimum, 81 ft^3/s (2.29 m^3/s) Oct. 21; minimum gage height, 1.75 ft or 0.533 m July 22, 23; minimum daily, 88 ft^3/s (2.49 m^3/s) Oct. 23.

Period of record: Maximum discharge, 37,000 ft^3/s (1,050 m^3/s) Sept. 18, 1945 (gage height, 31.10 ft or 9.479 m, from floodmark); minimum, 3 ft^3/s (0.085 m^3/s) Sept. 5, 1930 (gage height, 0.92 ft or 0.280 m); minimum daily, 5 ft^3/s (0.14 m^3/s) Sept. 6, 1930.

REMARKS.--Records good. Large diurnal fluctuation and some regulation for short periods at low flow caused by powerplants above station. City of Burlington diverted from two reservoirs on Stony Creek (see p. 136) an average of 15.4 ft^3/s (0.44 m^3/s) for municipal water supply, about half of which was returned above station as sewage, the remainder was returned below station.

REVISIONS (WATER YEARS).--WSP 757: 1929(M). WSP 782: 1934. WSP 822: Drainage area. WSP 1383: 1930, 1932(M), 1933(m), 1936, 1943, 1944(M), 1947(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	175	160	2,510	720	383	757	237	1,920	185	110	305
2	189	157	142	1,350	559	369	590	389	1,230	152	230	1,370
3	208	133	138	1,190	555	355	493	793	902	140	310	1,960
4	208	119	139	1,090	1,240	341	534	371	770	129	253	1,140
5	156	123	165	1,040	1,080	330	1,570	320	554	149	2,090	1,580
6	124	149	434	1,020	559	361	1,060	640	380	224	4,430	3,420
7	104	150	288	719	1,350	414	650	520	388	269	2,830	9,910
8	102	135	306	490	1,810	381	1,400	401	344	238	1,340	6,120
9	156	130	1,130	745	2,020	529	2,700	1,510	281	177	843	2,460
10	135	123	982	1,210	1,280	447	1,300	2,910	254	201	759	1,400
11	121	118	559	758	1,080	311	775	1,370	281	158	406	882
12	115	119	483	626	686	324	608	1,160	291	133	208	620
13	111	119	386	496	502	387	540	1,770	215	121	164	477
14	106	132	430	420	453	369	537	782	195	111	150	420
15	104	134	361	390	455	322	478	545	435	105	149	376
16	98	138	500	379	815	360	433	450	325	100	154	352
17	104	157	706	366	1,240	658	387	381	474	110	322	347
18	102	139	520	347	898	485	675	719	282	109	281	422
19	94	131	412	334	738	401	522	1,020	201	104	329	372
20	90	129	729	328	1,100	450	393	697	184	98	350	324
21	90	144	3,030	2,320	925	540	345	552	270	101	281	284
22	94	201	2,420	3,330	1,350	936	316	454	203	96	247	253
23	88	206	1,690	2,200	1,620	579	349	524	194	90	229	255
24	99	158	1,410	1,850	885	488	409	681	160	100	215	207
25	99	143	1,160	1,650	607	429	356	473	137	112	206	181
26	103	142	818	1,990	491	471	308	375	157	138	270	178
27	99	145	638	3,190	426	481	290	1,220	407	178	196	177
28	94	187	602	2,320	400	442	269	1,120	644	231	169	448
29	167	230	463	3,250	------	521	255	617	447	134	147	436
30	371	199	514	1,620	------	1,450	243	483	271	116	169	253
31	200	----	1,100	1,130	------	1,370	------	414	------	105	255	------
TOTAL	4,112	4,465	2,815	40,658	25,844	15,684	19,542	23,898	12,796	4,414	18,092	36,929
MEAN	133	149	736	1,312	923	506	651	771	427	142	584	1,231
MAX	371	230	3,030	3,330	2,020	1,450	2,700	2,910	1,920	269	4,430	9,910
MIN	88	118	138	328	400	311	243	237	137	90	110	177
CFSM	.22	.25	1.23	2.19	1.54	.84	1.09	1.29	.71	.24	.98	2.06
IN.	.26	.28	1.42	2.53	1.61	.97	1.21	1.48	.79	.27	1.12	2.29

CAL YR 1973 TOTAL 237,465 MEAN 651 MAX 9,190 MIN 88 CFSM 1.09 IN 14.75
WTR YR 1974 TOTAL 229,249 MEAN 628 MAX 9,910 MIN 88 CFSM 1.05 IN 14.24

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
8- 6	Unknown	.3.84	6,160	9- 7	2330	18.42	10,100

02096700 Big Alamance Creek near Elon College, N. C.

LOCATION.--Lat 36°02'21", long 79°31'45", Alamance County, on right bank at downstream side of bridge on Secondary Road 1149, 1.2 mi (1.9 km) upstream from Beaver Creek, and 4.5 mi (7.2 km) south of Elon College.

DRAINAGE AREA.--116 mi^2 (300 km^2).

PERIOD OF RECORD.--August 1957 to current year. Prior to October 1971 published as "Alamance Creek".

GAGE.--Water-stage recorder. Altitude of gage is 495 ft or 151 m (by barometer). Aug. 21, 1957, to Nov. 14, 1957, nonrecording gage and Nov. 15, 1957, to Apr. 25, 1963, water-stage recorder at site 70 ft (21 m) upstream at same datum.

AVERAGE DISCHARGE.--17 years, 109 ft^3/s (3.087 m^3/s), 12.76 in/yr (324 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,450 ft^3/s (126 m^3/s) Sept. 6 (gage height, 19.22 ft or 5.858 m); minimum, 4.8 ft^3/s (0.14 m^3/s) Aug. 2 (gage height, 1.51 ft or 0.460 m).
Period of record: Maximum discharge, 6,250 ft^3/s (177 m^3/s) Jan. 6, 1962 (gage height, 23.06 ft or 7.029 m); minimum, 0.27 ft^3/s (0.008 m^3/s) Sept. 19, 20, 1968.
Flood in September 1945 reached a stage of 29.4 ft (8.96 m), from information by local resident (discharge not determined).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	12	16	736	137	80	148	35	59	34	5.1	24
2	6.8	8.9	14	245	115	73	109	149	54	28	7.5	195
3	9.4	8.5	13	368	137	68	89	172	50	25	38	120
4	8.5	12	13	252	250	64	147	87	45	22	30	72
5	7.6	11	16	186	143	60	812	78	41	23	1,200	47
6	6.5	9.8	29	134	126	64	280	235	39	26	678	1,510
7	5.8	8.1	26	109	400	64	150	112	38	26	172	2,570
8	9.4	7.6	25	87	678	57	125	73	36	25	86	406
9	12	7.6	239	150	420	53	626	578	34	28	93	173
10	11	7.6	100	208	200	52	211	518	36	19	63	117
11	11	7.2	44	128	148	48	137	211	43	18	46	88
12	9.8	6.8	31	98	120	48	114	292	40	16	37	70
13	8.9	7.2	27	72	108	58	110	454	32	14	34	59
14	8.1	8.5	55	62	96	52	120	152	42	12	29	48
15	6.8	9.4	44	59	102	46	100	107	39	12	25	42
16	6.5	9.8	54	56	126	55	83	86	47	11	65	39
17	5.8	10	118	52	336	137	74	71	75	9.5	48	43
18	5.4	9.8	78	48	198	80	85	64	42	9.1	30	58
19	5.4	9.4	64	45	161	65	75	131	33	8.7	23	46
20	5.4	8.9	145	43	199	95	65	265	28	8.3	20	38
21	5.4	10	940	636	125	112	59	91	26	8.3	23	34
22	6.1	16	336	388	478	122	56	70	25	8.3	20	36
23	6.1	26	140	161	364	82	59	136	23	8.7	18	39
24	6.8	17	97	110	172	71	58	152	21	8.3	28	33
25	7.2	15	77	179	130	68	50	84	19	9.5	20	30
26	7.2	14	68	614	104	80	47	61	20	11	27	30
27	7.2	15	67	584	92	103	45	480	47	12	17	29
28	8.1	19	57	486	85	84	42	187	58	14	15	145
29	11	24	48	1,070	------	96	40	103	76	11	16	105
30	18	22	63	318	------	522	38	78	50	8.3	14	54
31	18	------	140	189	------	310	------	64	------	6.3	15	------
TOTAL	260.1	358.1	3,184	7,873	5,750	2,969	4,154	5,376	1,218	480.3	2,942.6	6,300
MEAN	8.39	11.9	103	254	205	95.8	138	173	40.6	15.5	94.9	210
MAX	18	26	940	1,070	678	522	812	578	76	34	1,200	2,570
MIN	5.4	6.8	13	43	85	46	38	35	19	6.3	5.1	24
CFSM	.07	.10	.89	2.19	1.77	.83	1.19	1.49	.35	.13	.82	1.81
IN.	.08	.11	1.02	2.52	1.84	.95	1.33	1.72	.39	.15	.94	2.02

CAL YR 1973 TOTAL 54,688.9 MEAN 150 MAX 3,460 MIN 5.4 CFSM 1.29 IN 17.54
WTR YR 1974 TOTAL 40,865.1 MEAN 112 MAX 2,570 MIN 5.1 CFSM .97 IN 13.11

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
9- 6	2400	19.22	4,450				

02096960 Haw River near Bynum, N. C.

LOCATION.--Lat 35°45'48", long 79°08'02", Chatham County, on right bank, 500 ft (150 m) upstream from Pokeberry Creek, 0.9 mi (1.4 km) south-southeast of Bynum, and 1.1 mi (1.8 km) downstream from U. S. Highway 15 and 501.

DRAINAGE AREA.--1,284 mi^2 (3,326 km^2).

PERIOD OF RECORD.--October 1973 to September 1974.

GAGE.--Water stage recorder. Datum of gage is 283.31 ft (86.353 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 25,000 ft^3/s (708 m^3/s) Sept. 7 (gage height, 14.66 ft or 4.468 m) from rating curve extended above 8,300 ft^3/s (235 m^3/s); minimum 31 ft^3/s (0.88 m^3/s) July 13, 20, 21, Aug. 3 (gage height, 2.26 ft or 0.689 m); minimum daily, 125 ft^3/s (3.54 m^3/s) Aug. 2.

REMARKS.--Records excellent. Considerable regulation for short periods at low flow caused by powerplant above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	234	283	294	5,580	1,750	931	2,380	475	1,460	610	176	429
2	260	248	245	4,180	1,350	874	1,630	529	2,250	433	125	1,170
3	261	224	220	2,440	1,340	839	1,320	1,860	1,440	357	331	3,710
4	287	197	218	2,550	2,310	812	1,150	1,230	1,260	316	545	2,580
5	278	182	223	2,080	2,600	759	3,590	777	1,040	291	3,170	2,550
6	229	190	274	1,930	1,500	752	3,390	2,090	766	485	6,830	3,550
7	186	211	590	1,610	2,360	828	1,790	1,810	610	482	5,610	22,200
8	166	226	431	1,170	4,310	820	1,380	1,060	640	476	2,480	13,300
9	169	209	1,270	1,060	5,360	759	3,600	1,800	550	440	1,750	4,740
10	224	193	2,200	2,560	2,920	996	3,420	5,980	490	362	1,320	2,560
11	217	182	1,030	1,790	2,200	731	1,890	3,390	490	347	1,140	1,750
12	190	177	758	1,380	1,720	654	1,440	3,700	586	305	626	1,250
13	179	182	628	1,100	1,260	738	1,270	6,220	496	175	454	962
14	172	186	586	896	1,110	820	1,300	2,560	384	217	540	794
15	165	200	688	795	1,080	703	1,190	1,490	400	293	462	687
16	163	206	637	761	1,460	675	1,040	1,120	708	199	485	630
17	158	206	1,410	732	3,640	1,300	907	932	1,200	187	1,030	618
18	156	216	1,230	693	2,720	1,380	943	788	1,000	193	698	749
19	156	213	843	644	1,860	969	1,250	1,940	556	191	535	774
20	152	204	1,010	622	2,360	993	895	1,930	436	131	687	619
21	143	206	6,630	3,250	2,070	1,210	773	1,620	402	139	582	547
22	140	249	5,430	6,980	2,250	1,800	713	1,050	534	276	475	481
23	144	295	2,720	3,740	4,270	1,390	680	1,070	401	186	428	448
24	145	306	2,140	2,990	2,330	1,100	778	1,970	445	171	410	452
25	149	253	1,750	2,870	1,580	981	745	1,240	340	182	404	384
26	151	232	1,410	3,480	1,270	963	643	884	286	147	384	355
27	153	228	1,070	6,330	1,070	1,150	588	2,560	482	229	455	345
28	150	238	1,020	4,000	982	1,110	560	3,300	1,430	291	355	680
29	154	285	853	7,370	------	1,380	538	1,540	1,370	384	317	1,190
30	332	331	769	4,130	------	6,500	500	1,110	1,090	228	288	704
31	406	------	1,280	2,600	------	4,590	------	908	------	197	311	------
TOTAL	6,069	6,758	39,857	82,313	61,032	39,507	42,293	58,933	23,542	8,920	33,403	71,208
MEAN	196	225	1,286	2,655	2,180	1,274	1,410	1,901	785	288	1,078	2,374
MAX	406	331	6,630	7,370	5,360	6,500	3,600	6,220	2,250	610	6,830	22,200
MIN	140	177	218	622	982	654	500	475	286	131	125	345
CFSM	.15	.18	1.00	2.07	1.70	.99	1.10	1.48	.61	.22	.84	1.85
IN.	.18	.20	1.15	2.38	1.77	1.14	1.23	1.71	.68	.26	.97	2.06

WTR YR 1974 TOTAL 473,835 MEAN 1,298 MAX 22,200 MIN 125 CFSM 1.01 IN 13.73

PEAK DISCHARGE (BASE, 15,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
9- 7	1600	14.66	25,000				

02098200 Haw River near Haywood, N. C.

LOCATION (Revised).--Lat 35°38'56", long 79°03'59", Chatham County, 0.4 mi (0.6 km) downstream from B. Everett Jordan Dam (under construction), on right bank 1.3 mi (2.1 km) upstream from bridge on U. S. Highway 1, 2.1 mi (3.4 km) north of Haywood, and 3.9 mi (6.3 km) upstream from mouth.

DRAINAGE AREA.--1,700 mi^2 (4,400 km^2), approximately.

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 155.00 ft (47.244 m) above mean sea level (Corps of Engineers bench mark). Since June 22, 1966, auxiliary water-stage recorder 2.6 mi (4.2 km) downstream.

AVERAGE DISCHARGE.--9 years, 1,423 ft^3/s (40.30 m^3/s), 11.37 in/yr (289 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,200 ft^3/s (317 m^3/s) Sept. 8 (gage height, 13.51 ft or 4.118 m) minimum daily discharge, 150 ft^3/s (4.25 m^3/s) Oct. 21, 22.
Period of record: Maximum discharge, 25,800 ft^3/s (731 m^3/s) Oct. 25, 1971 (gage height, 22.41 ft or 6.831 m); minimum daily discharge, 35 ft^3/s (0.99 m^3/s) Sept. 12, 1966.

REMARKS.--Records good above 500 ft^3/s (14.2 m^3/s) and poor below. Some regulation for short periods at low flow caused by powerplants above station. Flows above 12,000 ft^3/s (340 m^3/s) regulated by temporary storage in B. Everett Jordan Reservoir beginning Dec. 16, 1972. Water quality records collected 1.3 mi (2.1 km) downstream from station for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	400	350	4,650	4,260	1,000	5,350	556	1,290	1,200	220	417
2	220	340	300	6,740	2,340	950	3,440	472	2,820	800	200	825
3	230	250	250	4,560	1,830	900	2,360	1,490	2,220	550	350	3,330
4	250	210	230	3,760	2,920	860	1,050	1,770	1,980	450	705	3,090
5	270	200	240	3,340	3,940	820	3,280	1,080	1,650	400	2,000	2,820
6	280	200	300	2,700	2,510	800	5,010	1,560	1,300	500	6,110	2,510
7	250	210	392	2,160	2,020	900	2,930	2,660	1,100	600	7,160	8,700
8	200	220	375	1,540	3,920	940	1,480	1,720	820	580	4,550	11,000
9	170	230	825	1,300	6,440	850	2,950	1,300	800	560	2,960	9,770
10	200	210	2,140	2,270	5,500	880	4,980	4,980	700	520	2,400	8,220
11	230	200	1,470	2,780	3,640	1,050	2,750	5,760	600	450	1,720	7,280
12	210	190	867	1,960	2,410	800	1,630	4,280	760	400	1,010	5,830
13	200	180	774	1,390	1,900	750	1,670	7,650	640	350	755	2,630
14	180	190	637	1,030	1,400	900	1,960	6,130	520	300	701	904
15	170	200	547	920	1,130	800	1,820	4,530	560	400	690	755
16	160	210	653	850	1,590	750	1,330	3,250	1,000	350	678	673
17	160	210	1,240	800	4,040	1,300	1,080	2,170	1,700	300	1,240	647
18	160	220	1,610	760	4,620	1,980	1,020	1,200	1,740	250	1,060	696
19	155	230	1,190	700	3,400	1,460	1,510	1,920	1,280	230	795	773
20	155	210	1,190	680	3,360	1,270	1,070	2,430	900	250	715	720
21	150	210	4,850	1,350	3,270	1,520	833	2,430	500	200	747	609
22	150	250	6,800	6,590	2,490	2,110	786	1,480	800	350	665	485
23	155	270	5,010	5,690	5,210	2,070	720	1,250	520	300	466	461
24	160	310	3,240	3,590	4,390	1,540	680	2,580	620	210	440	474
25	160	330	2,510	3,890	2,660	1,170	733	2,310	500	230	454	457
26	170	240	1,820	4,990	1,550	1,250	650	1,510	350	200	384	380
27	160	230	1,310	6,040	1,300	1,550	600	2,620	600	250	458	356
28	180	250	1,020	6,300	1,150	1,660	580	5,380	1,800	391	426	332
29	230	270	922	7,650	------	1,480	636	3,330	2,300	450	419	936
30	280	300	845	8,080	------	6,610	561	2,280	1,800	350	346	1,060
31	350	------	1,630	6,350	------	7,370	------	1,590	------	300	340	------
TOTAL	6,205	7,170	45,537	105,410	85,190	48,290	55,449	83,668	34,170	12,671	41,164	77,140
MEAN	200	239	1,469	3,400	3,043	1,558	1,848	2,699	1,139	409	1,328	2,571
MAX	350	400	6,800	8,080	6,440	7,370	5,350	7,650	2,820	1,200	7,160	11,000
MIN	150	180	230	680	1,130	750	561	472	350	200	200	332
CFSM	.12	.14	.86	2.00	1.79	.92	1.09	1.59	.67	.24	.78	1.51
IN.	.14	.16	1.00	2.31	1.86	1.06	1.21	1.83	.75	.28	.90	1.69

CAL YR 1973 TOTAL 728,751 MEAN 1,997 MAX 14,500 MIN 150 CFSM 1.17 IN 15.95
WTR YR 1974 TOTAL 602,064 MEAN 1,649 MAX 11,000 MIN 150 CFSM .97 IN 13.17

02099000 East Fork Deep River near High Point, N. C.

LOCATION.--Lat 36°02'15", long 79°56'46", Guilford County, on left bank 5 ft (1.5 m) upstream from bridge on Secondary Road 1541, 3.3 mi (5.3 km) upstream from High Point Dam, and 5.2 mi (8.4 km) northeast of High Point College, High Point.

DRAINAGE AREA.--14.7 mi^2 (38.1 km^2).

PERIOD OF RECORD.--July 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 764.02 ft (232.873 m) above mean sea level. Intake pipe extended to downstream side of bridge since Mar. 1, 1934.

AVERAGE DISCHARGE.--46 years, 15.4 ft^3/s (0.436 m^3/s), 14.23 in/yr (361 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,300 ft^3/s (93.5 m^3/s) Sept. 1 (gage height, 7.22 ft or 2.201 m); minimum, 3.0 ft^3/s (0.085 m^3/s) July 31, Aug. 1 (gage height, 0.31 ft or 0.094 m); minimum daily, 3.5 ft^3/s (0.099 m^3/s) July 31.

Period of record: Maximum discharge, 6,300 ft^3/s (178 m^3/s) Sept. 24, 1947 (gage height, 10.87 ft or 3.313 m, from floodmark), from rating curve extended above 1,600 ft^3/s (45.3 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 0.7 ft^3/s (0.020 m^3/s) Sept. 22, 1941 (result of temporary regulation); minimum unregulated, 1.1 ft^3/s (0.031 m^3/s) Oct. 7, 1954, Sept. 26, 1968.

REMARKS.--Records good. Occasional temporary regulation of unknown origin during low flow in some water years. Slight diurnal fluctuation at low flow during growing season. Recording rain gage discontinued Mar. 11, 1974.

REVISIONS (WATER YEARS).--WSP 1383: Drainage area, 1941. WSP 1723: 1929(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	5.2	4.9	65	16	12	19	8.2	8.5	7.2	5.3	362
2	10	4.4	4.7	27	16	12	16	19	8.4	5.5	20	162
3	5.9	4.4	4.7	47	32	12	14	12	8.1	5.2	34	385
4	4.8	4.3	4.7	34	31	11	64	9.6	7.6	7.3	21	176
5	4.4	5.8	22	24	17	11	75	20	7.3	20	353	27
6	4.1	4.8	9.5	19	46	13	25	18	7.3	10	266	861
7	4.0	4.5	6.7	17	56	13	17	11	7.3	6.9	38	161
8	4.3	4.4	22	13	102	12	47	9.3	7.2	6.0	17	36
9	4.6	4.3	82	41	32	11	58	62	7.3	5.6	13	21
10	4.5	5.2	15	23	21	11	22	75	7.3	5.3	13	16
11	4.3	4.8	8.7	18	18	10	17	20	7.3	4.9	8.6	12
12	4.2	4.9	7.1	14	15	11	15	65	6.6	4.7	7.2	10
13	4.2	5.1	11	11	14	12	16	31	6.4	4.5	15	9.1
14	4.2	5.2	10	10	13	10	15	16	24	4.4	7.4	8.2
15	4.1	5.2	13	10	20	9.9	13	13	15	4.3	8.2	7.4
16	4.0	6.1	25	9.7	40	20	12	11	33	4.2	7.9	7.1
17	3.9	5.2	20	9.2	35	18	12	9.9	15	4.1	6.9	8.6
18	3.9	5.2	15	8.7	22	13	13	9.8	9.0	4.0	6.0	8.1
19	4.3	5.2	11	8.7	28	14	11	9.9	7.7	4.0	5.6	6.9
20	3.9	5.2	90	8.6	21	16	11	12	7.7	4.0	5.4	6.6
21	3.8	7.7	275	299	16	52	10	9.7	7.5	4.1	5.3	7.0
22	3.8	6.1	32	38	64	22	10	8.9	6.6	4.0	5.2	8.1
23	3.9	5.0	18	20	25	16	12	22	5.9	3.9	5.2	6.7
24	3.9	4.8	14	18	18	14	10	12	5.4	4.5	5.6	6.4
25	3.9	4.7	12	41	16	16	9.6	9.1	5.3	4.7	5.7	6.4
26	3.8	4.9	13	144	13	17	9.3	8.9	6.8	4.3	5.8	6.5
27	3.7	5.2	13	67	13	16	9.2	73	11	7.9	4.9	6.2
28	4.3	7.1	10	83	12	14	9.0	18	11	5.1	4.5	14
29	20	5.4	9.4	59	------	66	8.7	11	11	4.3	4.8	7.8
30	5.8	4.8	29	25	------	74	8.7	9.8	8.8	3.8	7.6	6.5
31	4.9	------	47	19	------	32	------	8.9	------	3.5	13	------
TOTAL	156.6	155.1	859.4	1,230.9	772	590.9	588.5	633.0	287.3	172.2	926.1	2,366.6
MEAN	5.05	5.17	27.7	39.7	27.6	19.1	19.6	20.4	9.58	5.55	29.9	78.9
MAX	20	7.7	275	299	102	74	75	75	33	20	353	861
MIN	3.7	4.3	4.7	8.6	12	9.9	8.7	8.2	5.3	3.5	4.5	6.2
CFSM	.34	.35	1.88	2.70	1.88	1.30	1.33	1.39	.65	.38	2.03	5.37
IN.	.40	.39	2.17	3.11	1.95	1.50	1.49	1.60	.73	.44	2.34	5.99

CAL YR 1973 TOTAL 8,211.9 MEAN 22.5 MAX 995 MIN 3.3 CFSM 1.53 IN 20.78
WTR YR 1974 TOTAL 8,738.6 MEAN 23.9 MAX 861 MIN 3.5 CFSM 1.63 IN 22.11

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-21	1015	3.57	1,310	9- 1	2100	7.22	3,300
8- 5	0130	3.31	1,110	9- 3	2230	4.41	1,870
8- 6	1330	3.10	890	9- 6	1600	5.06	2,250

02099500 Deep River near Randleman, N. C.

LOCATION.--Lat 35°54'06", long 79°51'05", Randolph County, on left bank 500 ft (152 m) downstream from bridge on Secondary Road 1929, 0.2 mi (0.3 km) downstream from Coltrane's mill, 0.5 mi (0.8 km) south of Guilford County line, 4.8 mi (7.7 km) upstream from Muddy Creek, and 7 mi (11 km) north of Randleman.

DRAINAGE AREA.--124 mi^2 (321 km^2).

PERIOD OF RECORD.--October 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 638.11 ft (194.496 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--46 years, 120 ft^3/s (3.398 m^3/s), 13.14 in/yr (334 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 5,610 ft^3/s (159 m^3/s) Sept. 2 (gage height, 20.28 ft or 6.181 m); minimum, 14 ft^3/s (0.40 m^3/s) Aug. 1 (gage height, 1.89 ft or 0.576 m); minimum daily, 16 ft^3/s (0.45 m^3/s) Oct. 15, 22, Nov. 19, July 21, 22.

Period of record: Maximum discharge, 20,000 ft^3/s (566 m^3/s) Sept. 25, 1947 (gage height, 32.2 ft or 9.81 m, from floodmark) from rating curve extended above 7,100 ft^3/s (201 m^3/s) on basis of contracted-opening measurement of peak flow at bridge 1.5 mi (2.4 km) upstream; minimum, 0.5 ft^3/s (0.014 m^3/s) Nov. 28, 1931 (gage height, 1.41 ft or 0.430 m); minimum daily, 1.2 ft^3/s (0.034 m^3/s) Nov. 12, 1933.
0.430

REMARKS.--Records good. Some regulation by High Point Lake and Oak Hollow Reservoir (see p. 136). City of High Point diverted an average of 16.8 ft^3/s (0.48 m^3/s) for municipal water supply during water year; 11.6 11.6 ft^3/s (0.33 m^3/s) was discharged as sewage effluent into Richland Creek above station and 5.4 ft^3/s (0.15 m^3/s) into Rich Fork Creek in Pee Dee River basin.

REVISIONS (WATER YEARS).--WSP 782: 1929-30. WSP 1383: 1934-35, 1941. WSP 1723: 1929(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	25	25	824	156	80	203	38	69	47	42	107
2	34	22	23	311	146	77	147	216	59	39	169	2,770
3	28	20	22	543	213	72	115	163	59	34	70	312
4	24	19	30	353	370	73	184	85	52	31	313	1,000
5	22	19	83	261	189	69	711	113	47	38	3,060	292
6	21	23	65	191	195	80	306	231	43	121	863	2,030
7	19	21	32	162	466	76	175	106	40	64	445	2,390
8	17	19	47	124	723	67	172	69	36	46	194	487
9	21	20	484	248	409	62	614	835	33	42	136	248
10	21	18	137	270	231	58	252	779	49	44	109	160
11	20	17	79	193	175	54	164	302	211	35	81	117
12	21	17	56	149	136	56	132	469	56	30	60	92
13	19	20	66	103	116	89	149	491	44	26	56	74
14	17	20	130	88	107	66	135	204	96	21	52	61
15	16	20	74	84	124	56	115	126	172	21	48	52
16	19	22	183	80	222	92	91	97	164	23	47	49
17	20	20	239	76	317	194	82	79	186	22	59	62
18	19	17	147	69	214	102	107	75	89	21	45	76
19	20	16	98	63	223	88	81	76	57	20	38	50
20	20	20	419	62	214	170	70	107	44	18	40	43
21	17	28	1,800	1,290	145	258	62	84	44	16	35	53
22	16	55	584	647	352	236	61	66	44	16	31	84
23	21	26	228	267	291	140	82	228	40	19	28	50
24	21	24	150	182	171	107	69	171	35	20	25	40
25	20	23	112	336	138	112	54	93	35	25	32	36
26	20	25	103	635	108	129	48	65	36	34	31	33
27	19	43	118	787	85	134	42	553	130	38	23	31
28	18	37	89	639	81	108	40	229	85	22	26	288
29	132	37	78	779	------	210	41	122	131	18	26	108
30	32	27	151	313	------	634	41	87	62	19	22	65
31	27	------	308	207	------	377	------	69	------	18	60	------
TOTAL	810	720	6,160	10,336	6,317	4,126	4,545	6,428	2,248	988	6,266	11,260
MEAN	26.1	24.0	199	333	226	133	152	207	74.9	31.9	202	375
MAX	132	55	1,800	1,290	723	634	711	835	211	121	3,060	2,770
MIN	16	16	22	62	81	54	40	38	33	16	22	31

CAL YR 1973 TOTAL 66,852 MEAN 183 MAX 4,440 MIN 16
WTR YR 1974 TOTAL 60,204 MEAN 165 MAX 3,060 MIN 16

PEAK DISCHARGE (BASE, 2,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1000	13.50	2,810	9- 2	0730	20.28	5,610
8- 5	1000	18.89	4,840	9- 6	2300	18.83	4,820

02100500 Deep River at Ramseur, N. C.

LOCATION.--Lat 35°43'40", long 79°39'10", Randolph County, on right bank 0.2 mi (0.3 km) downstream from Main Street bridge in Ramseur, 0.5 mi (0.8 km) downstream from mill dam, and 1.5 mi (2.4 km) downstream from Sandy Creek.

DRAINAGE AREA.--346 mi^2 (896 km^2).

PERIOD OF RECORD.--November 1922 to current year.

GAGE.--Water-stage recorder. Datum of gage is 419.50 ft (127.864 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--51 years, (1923-74) 344 ft^3/s (9.742 m^3/s), 13.50 in/yr (343 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,200 ft^3/s (346 m^3/s) Sept. 7 (gage height, 18.17 ft or 5.538 m); minimum, 32 ft^3/s (0.91 m^3/s) Oct. 24; minimum gage height, 0.84 ft (0.256 m) Oct. 19, 20, 24.

Period of record: Maximum discharge, 43,000 ft^3/s (1,218 m^3/s) Sept. 18, 1945 (gage height, 34.04 ft or 10.375 m, from floodmark), from rating curve extended above 18,000 ft^3/s (510 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.4 ft^3/s (0.011 m^3/s) May 27, Nov. 28, 29, 1941; minimum daily, 0.7 ft^3/s (0.020 m^3/s) Nov. 29, 1941.

Flood in August 1901 reached a stage of 28.75 ft (8.763 m), from floodmarks, 0.2 mi (0.3 km) upstream (discharge, 30,000 ft^3/s 850 m^3/s).

REMARKS.--Records good. Large diurnal fluctuation caused by powerplants above station prior to Jan. 1, 1963, only slight fluctuation afterwards. Flow slightly regulated by High Point Municipal Lake (see p. 136) and small powerplant reservoirs. Town of Asheboro diverted an average of 4.8 ft^3/s (0.14 m^3/s) for water supply from Pee Dee River basin and discharged sewage into Deep River above station.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1032: 1923-24, 1925(M), 1926, 1927-28(M), 1929, 1930(M), 1932-33, 1934(M), 1935, 1936-37(M), 1944(M). WSP 1383: 1923(m), 1925, 1927, 1930, 1936.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	70	68	2,460	395	237	558	126	183	171	70	77
2	74	54	57	855	338	229	397	128	178	147	150	4,060
3	82	48	50	844	503	217	323	495	171	134	300	969
4	67	43	46	700	971	209	474	240	162	117	1,100	1,120
5	57	44	46	586	512	204	2,570	193	147	104	3,000	638
6	51	42	73	421	388	200	971	535	133	126	1,500	3,600
7	46	48	105	349	1,050	211	503	298	122	200	954	8,450
8	41	49	92	295	1,900	194	402	196	114	144	434	1,470
9	41	48	793	311	1,260	183	1,600	1,290	107	129	420	652
10	44	47	364	623	614	175	719	1,990	104	115	260	427
11	46	45	161	399	448	168	448	805	179	103	205	308
12	47	45	132	331	361	164	359	647	184	94	164	246
13	45	44	115	247	309	192	343	1,360	143	83	135	210
14	44	45	151	206	287	207	391	535	125	75	254	169
15	45	48	160	198	309	174	315	349	427	67	190	146
16	43	51	197	191	423	174	267	269	290	61	185	134
17	37	52	489	183	938	493	238	224	915	58	143	131
18	35	50	304	173	580	304	310	194	304	57	132	208
19	35	49	197	162	490	240	253	285	175	54	121	156
20	35	47	563	155	600	409	218	239	150	51	111	124
21	36	46	3,110	2,530	620	424	195	237	135	53	107	109
22	38	53	1,400	1,690	1,000	623	185	198	122	65	107	155
23	36	80	483	612	825	349	190	660	111	64	93	144
24	34	73	303	397	458	279	206	716	109	60	86	114
25	37	62	233	748	364	256	177	316	98	58	82	99
26	37	56	201	1,410	303	307	164	216	92	60	79	94
27	37	52	210	1,810	259	372	156	1,300	452	58	78	94
28	40	53	196	1,070	242	302	147	735	369	56	75	511
29	51	67	165	2,540	------	730	135	374	825	54	71	363
30	119	77	197	859	------	2,190	130	265	304	52	73	177
31	99	------	434	525	------	1,120	------	215	------	50	68	------
TOTAL	1,526	1,588	11,095	23,880	16,747	11,536	13,344	15,630	6,930	2,720	10,747	25,155
MEAN	49.2	52.9	358	770	598	372	445	504	231	87.7	347	839
MAX	119	80	3,110	2,540	1,900	2,190	2,570	1,990	915	200	3,000	8,450
MIN	34	42	46	155	242	164	130	126	92	50	68	77
CFSM	.14	.15	1.03	2.23	1.73	1.08	1.29	1.46	.67	.25	1.00	2.42
IN.	.16	.17	1.19	2.57	1.80	1.24	1.43	1.68	.75	.29	1.16	2.70

CAL YR 1973 TOTAL 176,204 MEAN 483 MAX 9,670 MIN 34 CFSM 1.40 IN 18.94
WTR YR 1974 TOTAL 140,898 MEAN 386 MAX 8,450 MIN 34 CFSM 1.12 IN 15.15

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
8- 5	Unknown	13.95	8,540	9- 7	0800	18.17	12,200

02101800 Tick Creek near Mount Vernon Springs, N. C.

LOCATION.--Lat 35°39'37", long 79°20'08", Chatham County, on right bank 200 ft (61 m) upstream from bridge on U. S. Highway 421, 1.5 mi (2.4 km) east of Mount Vernon Springs, and 4 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--15.3 mi^2 (39.6 km^2).

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Altitude of gage is 455 ft or 139 m (by barometer).

AVERAGE DISCHARGE.--16 years, 14.9 ft^3/s (0.422 m^3/s), 13.22 in/yr (336 mm/yr).

EXTREMES.--Current year: Maximum discharge, 403 ft^3/s (11.4 m^3/s) May 12 (gage height, 4.86 ft or 1.48 m); minimum, 0.01 ft^3/s (0.0003 m^3/s) Oct. 22-28; minimum gage height, 1.64 ft or 0.500 m Oct. 27-29.
Period of record: Maximum discharge, 2,920 ft^3/s (82.7 m^3/s) Aug. 30, 1964 (gage height, 9.21 ft or 2.807 m); no flow at times in most years.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Recording rain gage discontinued.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.06	.26	107	20	9.2	16	3.3	5.3	1.5	.89	.51
2	.10	.09	.20	24	22	8.6	12	5.5	6.8	1.2	.75	2.1
3	.07	.14	.20	12	200	8.0	10	5.7	7.5	.96	1.4	1.6
4	.12	.07	.22	13	100	7.2	10	4.2	5.0	.79	1.5	2.9
5	.10	.06	.30	13	40	6.6	111	4.6	3.9	1.3	9.4	1.5
6	.09	.07	.36	10	22	6.4	26	8.7	3.3	11	4.9	52
7	.05	.08	.34	16	20	6.0	15	4.6	3.0	5.5	4.1	58
8	.04	.10	2.6	26	30	5.8	15	3.6	2.7	2.7	3.8	12
9	.04	.07	9.3	12	50	5.6	63	10	2.8	1.9	4.6	5.6
10	.04	.07	2.5	30	24	5.4	20	21	2.5	1.5	2.7	3.4
11	.04	.09	1.4	16	20	5.0	14	13	2.2	1.2	1.6	2.4
12	.04	.09	.98	12	14	7.0	12	137	1.9	1.1	1.1	1.7
13	.04	.10	1.0	8.0	12	10	66	65	1.7	1.1	.99	1.4
14	.05	.11	1.9	7.0	10	8.0	59	17	1.6	1.0	1.0	1.2
15	.05	.13	1.7	6.0	16	6.0	23	9.8	1.6	.97	.94	1.0
16	.05	.17	6.5	5.8	30	8.0	15	7.2	8.6	.90	.90	.97
17	.03	.17	8.9	5.2	100	60	12	5.9	12	.78	.89	.87
18	.03	.17	3.8	4.6	40	12	12	4.8	3.1	.71	.95	1.2
19	.02	.16	2.6	4.2	20	6.8	9.4	4.8	2.2	.77	.76	1.0
20	.02	.16	40	4.0	50	11	7.9	6.3	1.8	.89	.64	1.7
21	.02	.20	82	10	20	15	7.1	6.2	1.6	.91	.84	1.7
22	.01	.28	15	20	35	13	6.7	4.7	1.5	1.1	.65	2.1
23	.01	.34	7.6	5.2	60	8.5	6.3	72	1.3	1.3	.72	1.1
24	.01	.28	5.6	4.6	22	7.8	5.6	28	1.6	1.2	.63	1.3
25	.01	.26	4.4	60	16	8.9	5.2	10	1.4	1.3	.57	1.6
26	.01	.24	4.2	100	12	12	5.0	6.9	1.3	1.4	.57	1.4
27	.01	.24	4.3	30	10	13	4.6	62	1.9	1.4	.81	1.3
28	.01	.28	3.6	100	9.8	9.8	4.2	18	2.3	1.8	.83	2.4
29	.02	.32	3.0	300	------	62	4.0	9.8	4.1	1.7	.69	2.5
30	.02	.28	4.5	100	------	82	3.6	7.3	2.0	1.2	.62	2.4
31	.03	------	63	30	------	29	------	6.3	------	1.2	.55	------
TOTAL	1.30	4.88	282.26	1,095.6	1,024.8	463.6	580.6	573.2	98.5	52.28	51.29	170.85
MEAN	.042	.16	9.11	35.3	36.6	15.0	19.4	18.5	3.28	1.69	1.65	5.70
MAX	.12	.34	82	300	200	82	111	137	12	11	9.4	58
MIN	.01	.06	.20	4.0	9.8	5.0	3.6	3.3	1.3	.71	.55	.51
CFSM	.003	.01	.60	2.31	2.39	.98	1.27	1.21	.21	.11	.11	.37
IN.	.003	.01	.69	2.66	2.49	1.13	1.41	1.39	.24	.13	.12	.42

CAL YR 1973 TOTAL 7,572.55 MEAN 20.7 MAX 739 MIN .01 CFSM 1.35 IN 18.41
WTR YR 1974 TOTAL 4,399.16 MEAN 12.1 MAX 300 MIN .01 CFSM .79 IN 10.70

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 3	Unknown	4.70	355	5-12	1830	4.86	403

Note.--No gage-height record Jan. 7 to Mar. 19.

02102000 Deep River at Moncure, N. C.

LOCATION.--Lat 35°37'41", long 79°06'48", Lee County, on right bank 1.0 mi (1.6 km) upstream from Lockville Dam, 1.2 mi (1.9 km) upstream from bridge on U. S. Highway 1, 1.5 mi (2.4 km) northwest of Moncure, 2.2 mi (3.5 km) downstream from Rocky River, and 4.5 mi (7.2 km) upstream from confluence with Haw River.

DRAINAGE AREA.--1,410 mi^2 (3,650 km^2), approximately.

PERIOD OF RECORD.--July 1930 to current year. Records for May 1898 to December 1899 published in 21st Annual Report, Part 4, and in Bulletins 34 and 39 of North Carolina Department of Conservation and Development have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 185.06 ft (56.406 m) above mean sea level.

AVERAGE DISCHARGE.--44 years, 1,439 ft^3/s (40.75 m^3/s), 13.86 in/yr (352 mm/yr).

EXTREMES.--Current year: Maximum discharge, 13,200 ft^3/s (374 m^3/s) Jan. 29 (gage height, 7.01 ft or 2.137 m); minimum, 63 ft^3/s (1.78 m^3/s) Oct. 24 (gage height, 0.98 ft or 0.299 m).
Period of record: Maximum discharge, 80,300 ft^3/s (2,270 m^3/s) Sept. 18, 1945 (gage height, 17.20 ft or 5.243 m); minimum, 5.5 ft^3/s (0.16 m^3/s) Oct. 10, 1954 (gage height, 0.35 ft or 0.107 m).

REMARKS.--Records good except those for period of no gage-height record, which are fair. Diurnal fluctuation and some regulation at low flow caused by small powerplants above station.

REVISIONS.--WSP 822: Drainage area. WSP 1082: (1930-46 not previously published).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	79	112	5,410	1,760	950	3,500	440	711	970	150	162
2	95	140	112	6,950	1,410	900	2,500	437	634	514	253	240
3	97	147	121	2,850	6,950	860	1,500	483	863	378	438	2,930
4	95	127	127	1,680	7,310	820	2,300	604	1,090	311	974	1,910
5	97	109	124	1,630	4,420	780	4,500	732	835	273	1,320	1,270
6	121	97	118	1,560	2,270	750	3,500	744	598	267	4,780	1,510
7	115	90	109	1,370	1,750	740	2,100	949	501	475	4,420	8,640
8	106	83	124	1,660	4,470	770	1,700	908	454	496	1,760	12,100
9	95	81	403	1,360	7,770	720	4,500	667	415	408	1,240	6,410
10	90	79	639	1,260	4,200	720	3,200	2,110	385	325	1,430	1,510
11	88	81	1,030	1,590	2,180	680	2,000	3,940	367	278	1,130	966
12	83	86	536	1,280	1,590	600	1,470	2,950	344	242	630	715
13	79	86	373	1,010	1,290	640	1,350	7,420	333	213	488	579
14	79	86	295	820	1,120	700	2,440	3,760	373	191	433	491
15	79	86	262	684	1,130	650	2,010	1,630	355	170	374	430
16	79	86	322	614	1,600	580	1,340	1,050	367	153	456	386
17	79	90	657	590	4,750	1,100	1,060	836	1,490	141	1,040	336
18	76	90	900	566	3,910	1,800	927	745	1,470	130	786	329
19	74	92	850	543	2,310	1,400	1,100	761	892	120	489	324
20	74	97	760	515	2,310	1,200	1,040	753	553	111	422	369
21	70	100	3,290	702	2,380	1,600	829	697	714	117	1,010	360
22	66	103	4,950	5,440	2,300	2,200	727	622	796	648	720	306
23	64	106	2,610	3,830	4,850	1,900	674	878	489	566	427	278
24	64	103	1,150	1,780	3,300	1,600	635	3,240	352	301	315	271
25	64	109	730	2,430	1,870	1,300	609	2,320	323	209	262	301
26	66	130	558	3,780	1,400	1,500	587	1,110	308	166	229	268
27	66	140	480	3,210	1,150	1,800	546	2,690	273	179	226	239
28	66	130	441	4,150	1,000	1,500	516	4,920	285	180	367	233
29	66	121	415	12,000	------	1,300	490	2,280	682	166	266	239
30	68	118	403	9,500	------	3,500	467	1,210	1,410	164	205	603
31	72	------	1,360	3,220	------	7,000	------	876	------	155	178	------
TOTAL	2,530	3,072	24,361	83,984	82,750	42,560	50,117	52,762	18,662	9,017	27,218	44,705
MEAN	81.6	102	786	2,709	2,955	1,373	1,671	1,702	622	291	878	1,490
MAX	121	147	4,950	12,000	7,770	7,000	4,500	7,420	1,490	970	4,780	12,100
MIN	64	79	109	515	1,000	580	467	437	273	111	150	162
CFSM	.06	.07	.56	1.92	2.10	.97	1.19	1.21	.44	.21	.62	1.06
IN.	.07	.08	.64	2.22	2.18	1.12	1.32	1.39	.49	.24	.72	1.18

CAL YR 1973 TOTAL 721,549 MEAN 1,977 MAX 22,400 MIN 64 CFSM 1.40 IN 19.04
WTR YR 1974 TOTAL 441,738 MEAN 1,210 MAX 12,100 MIN 64 CFSM .86 IN 11.65

PEAK DISCHARGE (BASE, 15,000 CFS).--No peak above base.

Note.--No gage-height record Feb. 28 to Apr. 12.

02102192 Buckhorn Creek near Corinth, N. C.

LOCATION.--Lat 35°34'18", long 78°58'09", Chatham County, on left bank at upstream side of bridge on State Highway 42, 0.2 mi (0.3 km) downstream from White Oak Creek, and 2 mi (3.2 km) east of Corinth.

DRAINAGE AREA.--74.2 mi^2 (192 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 154.63 ft (47.131 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,410 ft^3/s (39.9 m^3/s) Aug. 7 (gage height, 9.84 ft or 2.999 m); minimum, 1.0 ft^3/s (0.028 m^3/s) Oct. 18, 19; minimum gage height, 1.43 ft or 0.436 m July 19, 20.
Period of record: Maximum discharge, 6,920 ft^3/s (196 m^3/s) Feb. 2, 1973 (gage height, 20.02 ft or 6.102 m); minimum, 1.0 ft^3/s (0.028 m^3/s) Oct. 18, 19, 1973.

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	6.0	3.8	366	98	43	152	14	40	10	11	10
2	3.5	6.0	3.5	186	118	42	96	43	50	8.7	26	11
3	4.0	6.0	3.8	64	760	40	71	107	303	7.8	203	15
4	3.5	5.3	3.8	44	503	38	61	40	82	7.0	250	472
5	3.1	4.9	4.2	49	203	35	169	30	45	6.6	200	124
6	2.9	4.6	4.6	50	116	32	131	134	34	9.0	520	170
7	2.4	4.9	4.2	65	105	30	70	67	29	26	890	443
8	2.0	5.3	14	74	248	29	59	35	25	19	163	160
9	3.1	5.6	29	53	287	27	107	116	24	11	115	77
10	3.3	5.6	7.4	86	127	25	84	413	21	8.1	77	51
11	2.9	4.9	3.8	66	92	24	57	203	18	6.9	45	38
12	2.4	4.9	3.1	49	72	30	49	284	16	5.9	33	31
13	2.2	5.3	3.1	37	61	43	50	759	14	5.0	31	26
14	1.6	5.6	4.0	31	57	37	196	211	13	4.7	56	23
15	1.7	5.3	3.8	29	65	29	92	68	13	4.3	34	21
16	1.6	4.6	14	26	161	35	58	45	38	4.0	59	20
17	1.3	4.2	55	23	469	226	44	33	149	3.8	36	20
18	1.0	4.0	27	21	188	90	43	29	37	3.7	25	27
19	1.0	4.6	12	19	126	58	40	100	23	3.5	19	23
20	1.1	4.9	32	19	176	163	34	187	19	3.5	17	18
21	1.4	4.9	216	21	98	126	30	114	16	21	15	16
22	1.6	5.3	83	24	160	124	27	54	14	15	14	25
23	1.7	4.6	33	24	275	70	25	109	13	6.2	14	21
24	1.9	4.0	23	21	113	63	24	236	12	4.9	15	16
25	1.9	4.0	19	135	81	80	21	563	12	5.7	12	15
26	2.0	4.6	17	217	64	205	21	126	10	17	16	14
27	2.7	4.6	17	124	54	109	19	831	12	7.0	16	13
28	2.7	4.9	15	243	50	76	19	440	13	6.1	13	13
29	7.1	4.6	14	765	------	193	17	110	14	5.6	12	13
30	9.9	4.0	15	348	------	884	16	65	13	4.6	14	11
31	6.4	------	116	138	------	416	------	50	------	4.2	10	------
TOTAL	87.0	148.0	804.1	3,417	4,927	3,422	1,882	5,616	1,122	255.8	2,961	1,937
MEAN	2.81	4.93	25.9	110	176	110	62.7	181	37.4	8.25	95.5	64.6
MAX	9.9	6.0	216	765	760	884	196	831	303	26	890	472
MIN	1.0	4.0	3.1	19	50	24	16	14	10	3.5	10	10
CFSM	.04	.07	.35	1.48	2.37	1.48	.85	2.44	.50	.11	1.29	.87
IN.	.04	.07	.40	1.71	2.47	1.72	.94	2.82	.56	.13	1.48	.97

CAL YR 1973 TOTAL 32,367.7 MEAN 88.7 MAX 3,130 MIN 1.0 CFSM 1.20 IN 16.23
WTR YR 1974 TOTAL 26,578.9 MEAN 72.8 MAX 890 MIN 1.0 CFSM .98 IN 13.33

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-29	0900	8.80	950	5-25	1245	8.17	1,030
2- 3	1415	7.47	894	5-27	1430	8.87	1,170
3-30	0445	8.03	1,010	8- 7	0630	9.84	1,410
5-13	0245	7.53	906	9- 4	1145	6.63	733

02102500 Cape Fear River at Lillington, N. C.

LOCATION.--Lat 35°24'30", long 78°48'48", Harnett County, near right bank in downstream end of pier of downstream bridge on U. S. Highway 401, 1,800 ft (549 m) downstream from Norfolk Southern Railway bridge, 0.5 mi (0.8 km) north of Lillington, 1 mi (1.6 km) downstream from Neal Creek, and at mile 178 (286 km).

DRAINAGE AREA.--3,440 mi^2 (8,910 km^2), approximately.

PERIOD OF RECORD.--December 1923 to current year.

GAGE.--Water-stage recorder. Datum of gage is 104.62 ft (31.888 m) above mean sea level. Prior to Oct. 8, 1927, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--50 years (1924-74), 3,335 ft^3/s (94.45 m^3/s) 13.17 in/yr (335 mm/yr).

EXTREMES.--Current year: Maximum discharge, 22,900 ft^3/s (649 m^3/s) Jan. 29 (gage height, 12.12 ft or 3.694 m); minimum, 163 ft^3/s (4.62 m^3/s) Oct. 26, 30 (gage height, 0.80 ft or 0.244 m).
Period of record: Maximum discharge 150,000 ft^3/s (4,250 m^3/s) Sept. 19, 1945, (gage height, 33.19 ft or 10.116 m, from floodmark), from rating curve extended above 76,000 ft^3/s (2,150 m^3/s); maximum daily, 140,000 ft^3/s (3,960 m^3/s) Sept. 19, 1945; minimum discharge, 11 ft^3/s (0.31 m^3/s) Oct. 14, 15, 1954 (gage height, -0.17 ft or -0.052 m).

REMARKS.--Records good except those for period of no gage-height record, which are fair. Some regulation at high flows, beginning December 1972, caused by temporary storage in B. Everett Jordan Reservoir. Diurnal fluctuation and slight regulation at low flow caused by powerplants above station. Fluctuation and regulation by Buckhorn Reservoir 13 mi (21 km) above station ended in December 1962. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1002: 1930(M). WSP 1032: 1942(m). WSP 1303: 1944(M). WSP 1333: 1945. WSP 1383: 1924-29, 1936. WSP 1703: 1929.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	455	432	9,220	7,350	2,410	11,200	1,040	2,000	2,500	350	573
2	364	345	441	14,500	5,060	2,240	6,370	1,070	1,900	2,400	600	891
3	376	366	358	8,720	9,970	2,130	4,880	1,660	2,500	1,000	1,000	4,030
4	363	349	342	5,770	12,800	2,000	3,640	2,700	3,000	900	2,500	7,170
5	382	314	346	5,380	9,620	1,870	6,060	2,180	2,400	900	3,500	4,500
6	382	284	349	4,590	6,340	1,780	13,600	2,130	1,700	1,500	9,000	4,620
7	348	251	377	4,090	4,500	1,750	7,980	3,750	1,400	2,500	11,000	12,800
8	311	276	761	3,790	7,740	1,760	4,680	3,020	1,300	1,500	7,000	22,000
9	281	298	1,140	3,110	14,900	1,670	4,870	2,190	1,200	959	3,500	19,600
10	287	277	2,490	3,380	11,500	1,710	9,040	5,550	1,100	839	4,140	11,500
11	313	260	2,980	4,620	6,860	1,670	6,450	10,500	1,100	685	3,360	9,340
12	328	219	1,690	3,760	5,100	1,510	4,180	7,350	1,200	629	1,940	7,640
13	300	248	1,260	2,860	3,760	1,580	3,400	20,000	1,100	557	1,320	4,800
14	283	247	1,030	2,170	3,040	1,650	4,650	10,000	1,000	455	1,290	1,740
15	260	249	903	1,820	2,870	1,660	4,820	8,000	1,000	353	1,290	1,330
16	250	261	1,240	1,620	3,690	1,580	3,360	5,000	1,200	400	1,090	1,190
17	240	266	2,040	1,540	9,360	2,660	2,590	3,000	4,000	350	1,990	1,080
18	230	278	2,730	1,430	9,830	3,650	2,240	2,000	3,900	320	2,110	1,180
19	220	295	2,460	1,370	6,750	3,210	2,480	2,000	2,500	280	1,390	1,220
20	230	309	1,950	1,310	6,270	3,080	2,570	2,100	1,500	260	1,080	1,220
21	220	296	6,850	1,310	6,440	3,460	2,010	2,000	2,000	300	1,550	1,080
22	200	320	12,300	8,770	5,440	4,300	1,720	1,900	2,300	1,400	1,730	1,080
23	175	337	9,310	11,200	10,000	4,640	1,590	2,400	1,400	1,200	1,460	908
24	170	369	5,220	6,140	9,050	3,530	1,510	9,000	1,000	800	1,000	814
25	173	428	3,780	5,840	5,740	2,830	1,520	6,000	900	500	847	795
26	174	366	2,770	8,770	4,180	3,370	1,440	3,000	800	400	757	732
27	181	345	2,090	9,220	3,200	3,680	1,330	7,000	760	450	802	675
28	194	349	1,680	10,500	2,670	3,450	1,250	12,000	800	450	813	658
29	216	353	1,570	19,300	------	3,390	1,140	6,000	1,900	400	819	1,030
30	192	371	1,430	20,200	------	14,000	1,100	3,000	4,000	380	658	1,540
31	355	------	2,410	12,200	------	17,400	------	2,400	------	360	556	------
TOTAL	8,298	9,381	74,729	198,500	194,030	105,620	123,670	149,940	52,860	25,927	70,442	127,736
MEAN	268	313	2,411	6,403	6,930	3,407	4,122	4,837	1,762	836	2,272	4,258
MAX	382	455	12,300	20,200	14,900	17,400	13,600	20,000	4,000	2,500	11,000	22,000
MIN	170	219	342	1,310	2,670	1,510	1,100	1,040	760	260	350	573
CFSM	.08	.09	.70	1.86	2.01	.99	1.20	1.41	.51	.24	.66	1.24
IN.	.09	.10	.81	2.15	2.10	1.14	1.34	1.62	.57	.28	.76	1.38

CAL YR 1973 TOTAL 1,657,596 MEAN 4,541 MAX 50,400 MIN 170 CFSM 1.32 IN 17.93
WTR YR 1974 TOTAL 1,141,133 MEAN 3,126 MAX 22,000 MIN 170 CFSM .91 IN 12.34

PEAK DISCHARGE (BASE, 30,000 CFS).--No peak above base.

Note.--No gage-height record May 13 to July 8.

02102908 Flat Creek near Inverness, N. C.

LOCATION.--Lat 35°10'54", long 79°10'40", Hoke County, Fort Bragg military reservation, on left bank 15 ft (5 m) downstream from culvert on Manchester Road, 0.4 mi (0.6 km) upstream from mouth, and 3.6 mi (5.8 km) east of Inverness.

DRAINAGE AREA.--7.65 mi^2 (19.81 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 191.18 ft (58.272 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 13.6 ft^3/s (0.385 m^3/s), 24.14 in/yr (613 mm/yr).

EXTREMES.--Current year: Maximum discharge, 151 ft^3/s (4.28 m^3/s) Aug. 4 (gage height, 3.46 ft or 1.055 m); minimum, 6.4 ft^3/s (0.18 m^3/s) July 15, 16 (gage height, 0.97 ft or 0.296 m).
Period of record: Maximum discharge, 394 ft^3/s (11.2 m^3/s) Apr. 1, 1973 (gage height, 7.30 ft or 2.225 m); minimum, 2.4 ft^3/s (0.068 m^3/s) Feb. 12, 1969 (gage height, 0.85 ft or 0.259 m) due to regulation from unknown source; minimum unregulated, 3.7 ft^3/s (0.10 m^3/s) many days in August, September and October 1968.

REMARKS.--Records good. Recording rain gage discontinued.

REVISIONS (WATER YEARS).--WRD N. C. 1972: 1968-70 (M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	9.3	8.3	26	21	12	14	9.4	13	8.9	9.4	13
2	9.7	8.8	8.1	16	25	12	13	9.7	38	8.6	17	24
3	9.4	8.6	8.2	13	30	12	13	11	38	8.4	42	12
4	9.1	8.6	8.3	13	28	11	13	9.7	17	8.4	39	24
5	8.8	8.7	8.5	14	20	11	29	19	14	9.0	48	14
6	8.6	8.8	9.4	13	18	11	16	19	13	11	23	24
7	8.7	8.8	8.4	13	22	11	14	12	12	12	23	47
8	8.9	8.6	18	12	26	11	14	10	12	11	20	18
9	9.1	8.6	45	12	24	10	16	12	11	10	18	15
10	9.8	8.4	14	12	22	10	14	12	11	9.7	13	13
11	9.6	8.5	11	11	20	10	12	11	10	9.0	11	12
12	9.1	8.8	10	11	16	11	12	27	9.6	8.7	10	11
13	8.9	8.7	11	11	18	13	20	43	9.6	8.1	10	11
14	9.0	8.6	13	11	20	11	30	13	10	8.1	10	11
15	8.9	8.5	10	11	25	11	17	12	11	7.8	10	11
16	8.8	8.4	23	11	20	12	14	11	14	7.8	13	11
17	8.8	8.2	30	11	35	14	13	10	55	11	12	13
18	8.7	8.3	15	10	30	11	26	11	15	8.6	9.9	14
19	8.8	8.5	12	10	20	12	15	21	12	8.2	9.1	11
20	8.8	8.3	18	10	25	20	13	14	11	8.1	11	10
21	8.8	8.5	34	12	22	18	12	12	12	9.1	14	10
22	8.8	9.2	15	11	20	15	12	11	10	9.3	10	22
23	8.9	8.7	13	10	25	12	12	21	9.3	8.4	10	14
24	8.9	8.4	12	10	18	22	11	22	9.6	8.4	11	11
25	8.7	8.4	12	16	14	21	11	13	9.9	8.1	21	11
26	8.5	8.4	12	14	13	18	11	12	9.5	8.1	12	11
27	8.6	8.4	12	12	13	13	11	52	11	9.5	22	10
28	8.7	8.5	11	11	12	13	10	17	12	11	11	11
29	11	8.7	11	20	------	24	10	13	11	8.1	13	10
30	9.4	8.2	12	16	------	55	9.7	12	9.5	7.8	15	9.3
31	9.1	------	26	18	------	16	------	11	------	13	10	------
TOTAL	280.6	257.4	459.2	401	602	463	437.7	492.8	440.0	283.2	507.4	438.3
MEAN	9.05	8.58	14.8	12.9	21.5	14.9	14.6	15.9	14.7	9.14	16.4	14.6
MAX	11	9.3	45	26	35	55	30	52	55	13	48	47
MIN	8.5	8.2	8.1	10	12	10	9.7	9.4	9.3	7.8	9.1	9.3
CFSM	1.18	1.12	1.93	1.69	2.81	1.95	1.91	2.08	1.92	1.19	2.14	1.91
IN.	1.36	1.25	2.23	1.95	2.93	2.25	2.13	2.40	2.14	1.38	2.47	2.13

CAL YR 1973 TOTAL 6,939.0 MEAN 19.0 MAX 200 MIN 8.1 CFSM 2.48 IN 33.74
WTR YR 1974 TOTAL 5,062.6 MEAN 13.9 MAX 55 MIN 7.8 CFSM 1.82 IN 24.62

PEAK DISCHARGE (BASE, 60 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-30	0530	2.58	95	6-17	1115	2.36	81
5-13	0330	2.23	72	8- 4	2215	3.46	151
5-27	1330	2.21	71	9- 7	1015	2.13	66

02105500 Cape Fear River at William O. Huske Lock near Tarheel, N. C.

LOCATION.--Lat 34°50'05", long 78°49'27", Bladen County, on right bank 100 ft (30 m) upstream from William O. Huske Lock, 1 mi (2 km) downstream from Cumberland-Bladen County line, 7 mi (11 km) north of Tarheel, 9 mi (14 km) upstream from Phillips Creek, and at mile 123 (198 km).

DRAINAGE AREA.--4,810 mi^2 (12,460 km^2), approximately.

PERIOD OF RECORD.--October 1937 to current year. Prior to October 1964, published as Cape Fear River at lock 3 near Tarheel, N. C.

GAGE.--Water-stage recorder and concrete lock and dam control. Datum of gage is 28.968 ft (8.829 m) above mean sea level. Prior to Jan. 8, 1939, nonrecording gage on upper lock wall 100 ft (30 m) downstream at same datum. Auxiliary water-stage recorder 1.8 mi (2.9 km) downstream from base gage; prior to Jan. 14, 1943, auxiliary nonrecording gage 400 ft (122 m) downstream on lower end of lock wall; Jan. 14, 1943 to Sept. 30, 1953, auxiliary water-stage recorder at site 600 ft (183 m) downstream.

AVERAGE DISCHARGE.--37 years, 4,943 ft^3/s (140.0 m^3/s), 13.95 in/yr (354 mm/yr).

EXTREMES.--Current year: Maximum discharge, 24,300 ft^3/s (688 m^3/s) Sept. 9; maximum gage height, 15.14 ft or 4.615 m Sept. 9; minimum discharge, 610 ft^3/s (17.3 m^3/s) Oct. 24 (gage height, 0.94 ft or 0.287 m); minimum daily, 626 ft^3/s (17.7 m^3/s) Oct. 24.

Period of record: Maximum discharge not determined; maximum gage height, 43.44 ft or 13.24 m Sept. 22, 1945; maximum daily discharge, 112,000 ft^3/s (3,170 m^3/s) Sept. 21, 1945; minimum discharge, 170 ft^3/s (4.81 m^3/s) Sept. 20, 1954; minimum daily, 208 ft^3/s (5.89 m^3/s) Sept. 13, 1954.

REMARKS.--Records excellent. Slight regulation at high flows, beginning December 1972, caused by storage in B. Everett Jordan Reservoir. Slight diurnal fluctuation and some regulation at short periods at low flow caused by powerplants above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	764	845	977	5,810	13,500	4,400	18,800	1,780	4,300	3,430	2,060	1,660
2	822	963	970	13,500	8,950	4,130	13,800	1,620	3,700	2,590	1,750	1,810
3	902	891	899	14,200	8,000	3,860	9,560	1,740	5,500	1,810	2,460	2,390
4	837	921	842	10,200	14,700	3,590	6,960	2,660	5,660	1,430	4,040	8,220
5	823	945	828	7,770	14,400	3,440	6,240	3,210	5,030	1,220	7,780	8,550
6	840	852	889	6,650	11,600	3,210	11,800	3,060	4,050	1,200	11,700	8,020
7	824	800	905	5,930	9,020	3,080	14,000	3,700	3,070	1,580	20,100	11,100
8	791	756	1,110	5,520	8,360	3,070	9,840	4,590	2,500	2,700	19,900	18,900
9	795	760	2,050	5,030	13,300	3,010	6,890	3,680	2,270	2,630	14,000	23,500
10	727	758	2,720	4,390	15,800	2,750	8,570	3,810	2,060	1,900	10,200	21,800
11	711	747	4,030	5,200	12,900	2,800	10,300	9,150	1,850	1,700	8,140	14,600
12	768	730	3,600	5,490	9,310	2,670	7,230	10,600	1,740	1,400	5,960	11,400
13	789	706	2,590	4,520	6,870	2,680	5,550	12,100	1,650	1,280	3,870	8,930
14	770	720	2,360	3,760	5,450	2,800	5,850	16,500	1,550	1,120	3,420	4,950
15	741	737	2,050	3,170	5,340	2,810	7,120	13,100	1,530	924	3,340	2,860
16	734	765	2,230	2,850	5,940	2,800	6,270	9,430	1,530	865	3,720	2,380
17	709	757	3,490	2,630	9,480	3,120	4,840	6,210	4,930	1,010	3,680	2,320
18	676	726	4,100	2,460	13,900	4,340	4,250	4,260	7,030	969	4,490	2,440
19	678	729	4,270	2,310	12,600	4,870	4,020	3,180	6,070	995	3,850	2,520
20	651	800	3,690	2,210	10,800	4,850	4,270	4,930	4,370	1,030	3,290	2,430
21	674	790	5,050	2,160	9,930	4,940	3,970	5,800	2,880	1,560	4,100	2,300
22	748	802	11,100	3,440	9,160	5,640	3,350	5,360	2,220	2,500	4,010	2,330
23	662	866	12,200	11,600	10,500	6,380	2,880	4,070	2,310	1,850	3,540	2,470
24	626	898	9,540	10,100	13,100	6,100	2,570	5,010	2,030	1,890	3,870	2,310
25	650	913	6,030	7,000	10,900	5,500	2,440	8,170	1,680	1,410	4,950	2,100
26	664	967	4,570	8,270	7,870	6,000	2,410	7,470	1,490	1,340	4,020	2,010
27	704	915	3,600	10,000	6,070	6,370	2,300	6,110	1,530	1,220	2,910	1,810
28	668	901	2,900	11,000	4,910	6,130	2,120	11,100	1,630	1,300	2,470	1,650
29	683	934	2,570	13,200	------	5,800	1,980	12,800	2,240	1,240	2,230	1,600
30	728	911	2,480	19,400	------	10,300	1,850	9,380	2,990	1,150	2,010	1,940
31	740	------	2,530	19,000	------	18,200	------	6,120	------	1,830	1,800	------
TOTAL	22,899	24,805	107,170	228,770	282,660	149,640	192,030	200,700	91,390	49,073	173,660	181,300
MEAN	739	827	3,457	7,380	10,100	4,827	6,401	6,474	3,046	1,583	5,602	6,043
MAX	902	967	12,200	19,400	15,800	18,200	18,800	16,500	7,030	3,430	20,100	23,500
MIN	626	706	828	2,160	4,910	2,670	1,850	1,620	1,490	865	1,750	1,600
CFSM	.15	.17	.72	1.53	2.10	1.00	1.33	1.35	.63	.33	1.16	1.26
IN.	.18	.19	.83	1.77	2.19	1.16	1.49	1.55	.71	.38	1.34	1.40

CAL YR 1973 TOTAL 2,398,960 MEAN 6,572 MAX 46,200 MIN 626 CFSM 1.37 IN 18.55
WTR YR 1974 TOTAL 1,704,097 MEAN 4,669 MAX 23,500 MIN 626 CFSM .97 IN 13.18

02105769 Cape Fear River at Lock 1 near Kelly, N. C.

LOCATION.--Lat 34°24'15", long 78°17'38", Bladen County, on right bank near upstream end of Lock No. 1, 1.3 mi (2.1 km) upstream from Natmore Creek, 2.0 mi (3.2 km) upstream from bridge on State Highway 141, 4.6 mi (7.4 km) southeast of Kelly, and at mile 67 (108 km).

DRAINAGE AREA.--5,220 mi^2 (13,520 km^2).

PERIOD OF RECORD.--July 1969 to current year.

GAGE.--Water-stage recorder with concrete lock and dam control. Datum of gage is 2.90 ft (0.884 m) below mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--5 years, 6,018 ft^3/s (170.4 m^3/s), 15.66 in/yr (398 mm/yr).

EXTREMES.--Current year: Maximum discharge, 20,800 ft^3/s (589 m^3/s) Aug. 10 (gage height, 20.60 ft or 6.279 m); minimum, 680 ft^3/s (19.3 m^3/s) Oct. 23 (gage height, 14.75 ft or 4.496 m).
Period of record: Maximum discharge, 56,300 ft^3/s (1,590 m^3/s) Feb. 8, 1973 (gage height, 24.77 ft or 7.550 m); minimum, 567 ft^3/s (16.1 m^3/s) Oct. 14, 1970 (gage height, 14.63 ft or 4.459 m).

REMARKS.--Records good. Slight regulation at high flow, beginning December 1972, caused by storage in B. Everett Jordan Reservoir. Slight diurnal fluctuation and some regulation for short periods at low flow caused by powerplants above station. The city of Wilmington diverted an average of 13.2 ft^3/s (0.37 m^3/s) for municipal water supply, most of which is returned as sewage below station. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	865	853	1,050	3,180	18,400	5,540	15,600	1,900	6,800	3,220	2,160	2,470
2	869	965	1,090	7,370	17,200	4,920	17,300	1,810	5,100	3,300	2,200	2,470
3	941	1,050	1,100	12,200	13,200	4,550	16,500	1,790	4,800	2,500	2,140	2,470
4	963	1,030	1,050	12,800	11,600	4,190	12,700	2,040	6,000	1,880	3,120	4,140
5	925	1,050	994	12,300	14,100	3,950	9,270	2,960	6,000	1,520	5,880	8,440
6	920	1,030	1,010	9,600	15,000	3,720	8,720	3,330	5,320	1,370	9,910	8,950
7	908	972	1,010	7,680	14,000	3,480	12,300	3,340	4,320	1,480	13,700	9,330
8	904	932	1,180	6,610	11,500	3,350	13,700	4,280	3,330	2,240	17,400	12,200
9	877	904	1,730	5,970	10,800	3,310	11,500	4,480	2,760	2,860	19,900	16,000
10	854	874	2,410	5,380	13,500	3,170	8,880	3,880	2,450	2,690	20,500	18,400
11	807	866	3,180	4,980	15,400	2,980	9,800	5,330	2,210	2,130	17,800	19,900
12	797	853	3,960	5,640	14,800	2,970	10,300	9,340	1,990	1,830	13,400	19,100
13	838	837	3,350	5,530	11,400	2,880	8,240	10,300	1,880	1,560	8,920	16,300
14	865	833	2,770	4,730	8,090	2,880	6,950	12,500	2,000	1,400	6,200	11,800
15	843	837	2,440	3,980	6,470	2,940	7,170	14,900	1,800	1,210	5,080	6,460
16	826	873	2,290	3,420	6,380	3,150	7,590	14,400	1,600	1,040	4,830	3,700
17	816	882	2,920	3,070	7,760	3,840	6,600	11,000	2,500	1,050	5,640	3,000
18	786	879	3,810	2,850	11,000	4,210	5,440	7,120	5,700	1,100	5,760	3,670
19	769	876	4,350	2,660	13,600	4,790	4,830	4,770	6,700	1,080	5,620	3,630
20	763	874	4,320	2,510	13,900	5,320	4,620	4,230	5,700	1,130	4,810	3,320
21	762	910	4,460	2,440	12,700	5,350	4,600	5,630	4,190	1,310	7,150	3,040
22	779	933	6,910	2,440	11,600	5,550	4,140	6,070	2,890	2,420	7,570	2,770
23	802	935	9,960	5,510	10,800	6,220	3,560	5,460	2,440	2,530	6,270	2,740
24	759	990	12,300	9,010	11,900	6,770	3,040	4,800	2,350	2,200	5,510	2,730
25	728	1,030	10,200	9,080	13,300	6,360	2,730	6,300	2,030	1,960	6,000	2,540
26	735	1,050	6,910	8,140	12,100	6,120	2,600	8,230	1,800	1,680	6,640	2,340
27	763	1,070	5,050	8,950	9,180	6,520	2,520	8,210	1,770	1,600	5,570	2,200
28	786	1,080	3,920	10,300	6,840	6,680	2,420	8,200	1,860	1,770	4,540	2,010
29	792	1,100	3,140	11,600	------	6,400	2,290	11,400	2,000	1,670	3,760	1,860
30	792	1,050	2,810	14,000	------	7,150	2,080	12,800	2,650	1,490	3,290	1,870
31	821	------	2,660	17,000	------	11,500	------	10,000	------	1,500	2,860	------
TOTAL	25,655	28,418	114,334	220,930	336,520	150,760	227,990	210,800	102,940	56,720	234,130	199,850
MEAN	828	947	3,688	7,127	12,020	4,863	7,600	6,800	3,431	1,830	7,553	6,662
MAX	963	1,100	12,300	17,000	18,400	11,500	17,300	14,900	6,800	3,300	20,500	19,900
MIN	728	833	994	2,440	6,380	2,880	2,080	1,790	1,600	1,040	2,140	1,860
CFSM	.16	.18	.71	1.37	2.30	.93	1.46	1.30	.66	.35	1.45	1.28
IN.	.18	.20	.81	1.57	2.40	1.07	1.62	1.50	.73	.40	1.67	1.42

CAL YR 1973 TOTAL 2,736,686 MEAN 7,498 MAX 54,400 MIN 728 CFSM 1.44 IN 19.50
WTR YR 1974 TOTAL 1,909,047 MEAN 5,230 MAX 20,500 MIN 728 CFSM 1.00 IN 13.60

02106000 Little Coharie Creek near Roseboro, N. C.

LOCATION.--Lat 34°57'13", long 78°29'17", Sampson County, on downstream end of center pier of bridge on State Highway 24, 1.2 mi (1.9 km) east of Roseboro, and 1.5 mi (2.4 km) upstream from Bearskin Swamp.

DRAINAGE AREA.--96.4 mi^2 (250 km^2).

PERIOD OF RECORD.--January 1950 to current year.

GAGE.--Water-stage recorder. Datum of gage is 80.52 ft (24.542 m) above mean sea level (levels by Corps of Engineers). Prior to Jan. 12, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years, 116 ft^3/s (3.285 m^3/s), 16.34 in/yr (415 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,360 ft^3/s (38.5 m^3/s) Aug. 9 (gage height, 8.12 ft or 2.475 m); minimum, 3.0 ft^3/s (0.85 m^3/s) Aug. 26, 27 (gage height, 1.42 ft or 0.433 m).

Period of record: Maximum discharge, 3,400 ft^3/s (96.3 m^3/s) Oct. 7, 1964 (gage height, 9.97 ft or 3.039 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Sept. 13, 14, 27, Oct. 1-11, 1954.

Flood in 1924 reached a stage of 11.6 ft (3.54 m), from information by North Carolina State Highway Commission.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	6.2	15	86	105	171	207	32	51	37	160	90
2	14	6.4	12	136	120	145	217	31	58	29	116	77
3	10	6.3	11	133	148	125	222	35	90	23	136	80
4	8.0	5.2	11	134	164	112	200	34	116	19	267	94
5	6.6	4.7	11	140	162	103	195	36	128	16	625	106
6	5.6	4.4	11	136	166	95	164	62	105	16	680	132
7	4.9	4.5	13	122	171	89	133	69	67	33	968	185
8	4.5	4.8	21	112	183	84	119	68	51	62	1,160	247
9	4.4	4.9	69	103	184	80	123	57	43	78	1,290	313
10	4.7	4.8	66	97	170	76	120	62	37	78	906	411
11	4.5	4.4	66	90	158	72	114	80	32	53	640	357
12	4.1	4.1	55	84	150	77	107	87	27	36	472	277
13	3.9	4.5	39	77	138	79	109	104	27	35	384	207
14	4.1	4.9	58	72	122	81	181	95	24	29	308	155
15	4.3	5.3	62	70	135	79	187	92	23	21	249	108
16	4.0	5.7	73	67	178	90	173	63	21	17	227	83
17	3.8	5.5	114	66	263	137	174	49	57	15	299	77
18	3.6	5.7	111	64	287	131	161	64	88	14	222	84
19	3.6	6.2	113	64	301	141	123	80	118	12	146	78
20	3.5	6.3	122	63	354	179	97	91	157	17	129	73
21	3.5	7.4	198	66	322	224	83	100	171	44	149	68
22	3.6	8.8	204	72	285	204	73	89	88	84	164	67
23	3.7	8.5	178	72	269	173	66	71	42	90	173	86
24	3.5	11	170	72	245	161	59	98	43	100	160	117
25	3.6	12	161	73	225	164	54	89	35	69	125	227
26	3.1	9.5	134	70	224	189	50	94	30	64	94	354
27	4.1	9.0	102	70	222	186	47	103	47	82	91	273
28	5.3	8.7	81	69	198	186	42	95	75	114	113	174
29	4.0	12	72	75	------	196	38	91	68	135	139	131
30	6.2	17	67	95	------	216	35	90	52	150	139	90
31	12	------	77	107	------	214	------	68	------	186	116	------
TOTAL	162.5	208.7	2,497	2,757	5,649	4,259	3,673	2,279	1,971	1,758	10,847	4,821
MEAN	5.24	6.96	80.5	88.9	202	137	122	73.5	65.7	56.7	350	161
MAX	14	17	204	140	354	224	222	104	171	186	1,290	411
MIN	3.1	4.1	11	63	105	72	35	31	21	12	91	67
CFSM	.05	.07	.84	.92	2.10	1.42	1.27	.76	.68	.59	3.63	1.67
IN.	.06	.08	.96	1.06	2.18	1.64	1.42	.88	.76	.68	4.19	1.86

CAL YR 1973 TOTAL 49,208.3 MEAN 135 MAX 2,340 MIN 3.1 CFSM 1.40 IN 18.99
WTR YR 1974 TOTAL 40,882.2 MEAN 112 MAX 1,290 MIN 3.1 CFSM 1.16 IN 15.78

02106500 Black River near Tomahawk, N. C.

LOCATION.--Lat 34°45'17", long 78°17'21", Sampson County, on left bank 30 ft (9 m) upstream from bridge on State Highway 411, 0.2 mi (0.3 km) downstream from Clear Run Swamp, and 3.8 mi (6.1 km) northeast of Tomahawk.

DRAINAGE AREA.--680 mi^2 (1,760 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 24.61 ft (7.501 m) above mean sea level. Oct. 1, 1951, to June 29, 1961, nonrecording gage on downstream side of bridge. June 30, 1961, to Sept. 30, 1964, water-stage recorder at present site at datum 25.00 ft (7.620 m) lower.

AVERAGE DISCHARGE.--23 years, 795 ft^3/s (22.51 m^3/s), 15.88 in/yr (403 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,060 ft^3/s (143 m^3/s) Aug. 11 (gage height, 17.08 ft or 5.206 m); minimum, 33 ft^3/s (0.93 m^3/s) Oct. 26, (gage height, 1.33 ft or 0.405 m).

Period of record: Maximum discharge, 11,200 ft^3/s (317 m^3/s) Oct. 9, 1964 (gage height, 21.14 ft or 6.443 m); minimum, 8.5 ft^3/s (0.24 m^3/s) Oct. 13, 1954 (gage height, 0.59 ft or 0.180 m, present site and datum).

Flood in 1928 reached a stage of 22.0 ft (6.71 m), present datum (discharge, 14,500 ft^3/s or 411 m^3/s) and floods in 1945 and 1948 reached a stage of 17.6 ft (5.36 m), present datum (discharge, 5,420 ft^3/s or 153 m^3/s), from information furnished by North Carolina State Highway Commission.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1723: 1955(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	54	92	555	1,210	1,190	1,860	311	503	332	1,250	897
2	55	57	93	832	1,240	1,070	1,910	279	597	244	1,300	777
3	79	57	97	1,160	1,310	980	1,900	266	887	191	1,240	779
4	179	51	80	1,240	1,390	881	1,820	266	980	159	1,180	777
5	150	46	86	1,220	1,490	777	1,810	292	1,030	139	1,490	904
6	86	40	83	1,180	1,540	701	2,090	445	1,090	146	1,980	1,110
7	69	37	88	1,100	1,580	642	2,310	540	875	378	2,450	1,270
8	60	43	113	978	1,540	593	2,390	502	582	743	3,050	1,350
9	56	45	297	883	1,540	555	2,360	439	454	759	3,980	1,400
10	55	44	513	798	1,520	540	2,130	484	381	538	4,750	1,400
11	50	46	478	729	1,490	516	1,830	576	309	404	5,030	1,380
12	49	47	415	671	1,410	494	1,560	620	263	338	4,870	1,330
13	53	50	351	613	1,290	524	1,310	783	232	241	4,370	1,260
14	53	51	327	555	1,130	574	1,370	940	221	180	4,110	1,190
15	57	57	394	538	1,030	559	1,480	906	224	152	3,980	1,060
16	47	61	436	527	1,150	607	1,680	733	217	126	3,720	840
17	46	55	661	498	1,420	1,130	1,940	536	218	113	3,870	651
18	44	55	873	469	1,630	1,440	2,100	410	252	159	3,730	745
19	41	58	869	477	1,810	1,520	1,920	553	306	183	3,300	749
20	40	54	836	494	2,050	1,570	1,620	711	319	140	2,910	618
21	40	55	1,070	507	2,180	1,550	1,310	790	327	200	2,600	525
22	40	60	1,340	616	2,160	1,490	975	636	355	653	2,470	468
23	40	58	1,400	673	2,060	1,490	832	511	367	747	2,450	531
24	39	75	1,420	630	1,910	1,540	713	691	297	563	2,440	576
25	39	76	1,350	572	1,750	1,560	615	816	346	392	2,450	563
26	36	74	1,180	567	1,600	1,580	513	699	287	351	2,700	671
27	37	70	968	572	1,470	1,570	464	908	276	527	2,600	777
28	37	73	834	536	1,320	1,560	428	1,120	533	771	2,300	837
29	45	76	737	531	------	1,550	386	1,070	607	895	1,800	865
30	50	89	650	765	------	1,620	346	893	464	950	1,560	827
31	58	------	576	1,100	------	1,760	------	665	------	1,010	1,180	------
TOTAL	1,792	1,714	18,707	22,586	43,220	34,133	43,972	19,391	13,799	12,724	87,110	27,127
MEAN	57.8	57.1	603	729	1,544	1,101	1,466	626	460	410	2,810	904
MAX	179	89	1,420	1,240	2,180	1,760	2,390	1,120	1,090	1,010	5,030	1,400
MIN	36	37	80	469	1,030	494	346	266	217	113	1,180	468
CFSM	.09	.08	.89	1.07	2.27	1.62	2.16	.92	.68	.60	4.13	1.33
IN.	.10	.09	1.02	1.24	2.36	1.87	2.41	1.06	.75	.70	4.77	1.48

CAL YR 1973 TOTAL 368,434 MEAN 1,009 MAX 8,720 MIN 36 CFSM 1.48 IN 20.16
WTR YR 1974 TOTAL 326,275 MEAN 894 MAX 5,030 MIN 36 CFSM 1.31 IN 17.85

02107000 South River near Parkersburg, N. C.

LOCATION.--Lat 34°48'45", long 78°27'26", Bladen County, on right bank 5 ft (2 m) downstream from bridge on Secondary Road 1503, 1.9 mi (3.1 km) southwest of Parkersburg, and 2.1 mi (3.4 km) upstream from Cypress Creek.

DRAINAGE AREA.--382 mi^2 (989 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 50.38 ft (15.356 m) above mean sea level. Prior to Oct. 13, 1961, nonrecording gage at present site at datum 50.00 ft (15.240 m) lower.

AVERAGE DISCHARGE.--23 years, 428 ft^3/s (12.12 m^3/s), 15.22 in/yr (387 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,910 ft^3/s (82.4 m^3/s) Aug. 9 (gage height, 12.14 ft or 3.700 m); minimum, 4.3 ft^3/s (0.12 m^3/s) Oct. 26; minimum gage height, 2.35 ft or 0.716 m Oct. 26-28.
Period of record: Maximum discharge, 5,900 ft^3/s (167 m^3/s) Oct. 10, 1964 (gage height, 14.32 ft or 4.365 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Oct. 3-6, 11-14, 1954.
Flood of 1918 or 1928 reached a stage of 15.88 ft (4.84 m), present datum, from highwater mark witnessed by local resident.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	5.4	11	301	393	987	752	170	302	296	229	287
2	11	5.4	13	383	417	915	781	147	309	218	240	253
3	11	5.5	14	444	470	840	819	135	333	157	235	235
4	13	5.3	13	466	543	765	849	124	336	119	279	222
5	14	5.6	13	477	582	697	898	123	341	94	486	219
6	13	5.9	14	487	594	634	889	146	395	82	961	240
7	11	6.4	14	493	610	576	834	148	438	122	2,100	325
8	9.5	6.3	19	492	659	524	761	143	451	145	2,650	407
9	8.9	6.4	63	491	703	477	716	135	418	149	2,890	525
10	8.4	6.2	92	490	751	435	685	140	369	188	2,810	750
11	8.0	6.1	92	478	820	404	670	139	312	255	2,690	1,040
12	7.4	6.2	88	457	891	382	656	151	257	309	2,640	1,230
13	6.8	6.2	80	424	929	366	646	208	212	305	2,570	1,230
14	6.5	6.8	84	400	925	349	663	221	175	265	2,340	1,130
15	6.4	6.9	92	383	909	333	674	206	148	184	2,030	988
16	6.3	7.2	110	368	901	342	689	198	130	121	1,790	857
17	5.8	6.9	187	353	935	432	692	185	142	107	1,860	754
18	5.3	6.6	229	338	989	457	684	165	160	87	1,570	699
19	5.2	6.6	241	325	1,110	439	652	186	174	64	1,330	624
20	5.2	6.9	252	316	1,270	426	611	241	216	58	1,280	538
21	5.2	7.4	319	313	1,330	433	575	254	266	68	1,240	460
22	5.0	8.5	382	323	1,300	463	550	240	310	151	1,220	398
23	5.0	9.4	420	321	1,240	487	520	243	351	162	1,220	348
24	4.8	9.3	429	313	1,170	492	473	292	463	139	1,070	298
25	4.6	9.1	421	305	1,110	499	415	301	630	132	1,510	267
26	4.4	9.3	404	305	1,080	539	368	274	662	151	1,430	263
27	4.4	9.5	384	299	1,060	579	320	283	621	190	1,110	276
28	4.4	9.6	361	286	1,040	604	272	306	577	208	790	321
29	5.3	9.6	332	288	------	632	231	307	503	184	574	403
30	5.6	11	305	335	------	695	199	304	392	153	436	489
31	5.4	------	286	376	------	733	------	306	------	161	347	------
TOTAL	228.8	217.5	5,764	11,830	24,731	16,936	18,544	6,421	10,393	5,024	43,927	16,076
MEAN	7.38	7.25	186	382	883	546	618	207	346	162	1,417	536
MAX	14	11	429	493	1,330	987	898	307	662	309	2,890	1,230
MIN	4.4	5.3	11	286	393	333	199	123	130	58	229	219
CFSM	.02	.02	.49	1.00	2.31	1.43	1.62	.54	.91	.42	3.71	1.40
IN.	.02	.02	.56	1.15	2.41	1.65	1.81	.63	1.01	.49	4.28	1.57

CAL YR 1973 TOTAL 192,498.3 MEAN 527 MAX 4,490 MIN 4.4 CFSM 1.38 IN 18.75
WTR YR 1974 TOTAL 160,092.3 MEAN 439 MAX 2,890 MIN 4.4 CFSM 1.15 IN 15.59

02107600 Northeast Cape Fear River near Seven Springs, N. C.

LOCATION.--Lat 35°10'20", long 77°55'56", Wayne County, on left bank at downstream side of bridge on Secondary Road 1948, at Wayne-Duplin County line, 4.5 mi (7.2 km) upstream from Buck Marsh Branch, and 6 mi (9.7 km) southwest of Seven Springs.

DRAINAGE AREA.--47.5 mi² (123 km²).

PERIOD OF RECORD.--July 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 89.93 ft (27.411 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 63.9 ft³/s (1.810 m³/s), 18.27 in/yr (464 mm/yr).

EXTREMES.--Current year: Maximum discharge, 634 ft³/s (18.0 m³/s) Aug. 10 (gage height, 7.43 ft or 2.265 m); minimum, 5.7 ft³/s (0.16 m³/s) Oct. 26, 27, 28 (gage height, 2.69 ft or 0.820 m).
Period of record: Maximum discharge, 2,740 ft³/s (77.6 m³/s) Oct. 6, 1964 (gage height, 9.59 ft or 2.923 m); minimum, 3.0 ft³/s (0.085 m³/s) Oct. 5, 1968 (gage height, 2.74 ft or 0.835 m).

REMARKS.--Records good except those for period of no gage-height record, which are fair. The operation of small mills on tributaries above the station may cause slight diurnal fluctuation during periods of low flow.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	10	7.7	45	80	37	166	17	23	11	20	46
2	10	8.8	7.5	60	68	36	119	17	36	9.6	32	81
3	11	7.9	7.4	80	86	35	80	22	58	8.6	56	138
4	10	7.7	7.3	69	112	33	66	21	61	7.8	45	109
5	9.0	7.4	7.6	58	110	31	120	23	40	7.7	116	84
6	8.0	7.3	8.0	54	85	30	160	37	27	11	202	93
7	7.0	7.2	9.0	50	65	29	140	42	22	18	225	126
8	6.7	7.3	12	47	65	28	130	32	21	20	152	131
9	6.6	7.7	16	45	72	26	130	25	19	15	208	113
10	6.4	7.8	30	42	68	25	150	28	16	11	588	91
11	6.3	7.6	25	39	56	24	130	29	13	10	342	48
12	6.3	7.6	20	36	47	32	110	29	12	9.1	152	48
13	6.2	7.8	17	32	42	45	90	42	13	8.0	103	40
14	6.2	8.0	20	29	40	46	130	52	13	7.4	312	29
15	6.2	8.0	25	28	62	36	220	34	13	7.0	342	29
16	5.9	8.2	30	28	109	46	170	22	12	6.6	175	35
17	5.9	8.0	40	28	176	151	130	18	15	8.6	128	45
18	5.9	7.7	52	27	175	184	100	19	19	7.8	100	60
19	5.9	7.4	48	28	121	121	85	68	15	7.0	83	64
20	5.9	7.3	45	29	101	166	70	83	12	6.8	70	51
21	5.9	7.8	60	36	91	209	60	66	10	22	62	40
22	5.9	8.0	80	51	77	146	50	39	9.4	45	59	30
23	5.8	7.9	100	56	70	107	45	32	8.7	36	62	25
24	5.9	7.7	85	42	65	90	39	42	10	16	84	20
25	6.1	7.6	70	41	56	89	35	43	12	17	156	19
26	5.9	7.4	60	41	48	123	32	30	11	38	136	18
27	5.7	7.4	50	39	43	136	28	55	15	51	101	17
28	5.7	7.9	45	35	40	110	25	82	23	62	81	16
29	15	8.2	40	51	------	96	23	62	22	46	71	15
30	16	8.1	37	83	------	226	21	35	16	25	59	15
31	12	------	34	96	------	268	------	27	------	18	47	------
TOTAL	232.8	234.7	1,095.5	1,425	2,230	2,761	2,854	1,173	597.1	574.0	4,369	1,676
MEAN	7.51	7.82	35.3	46.0	79.6	89.1	95.1	37.8	19.9	18.5	141	55.9
MAX	16	10	100	96	176	268	220	83	61	62	588	138
MIN	5.7	7.2	7.3	27	40	24	21	17	8.7	6.6	20	15
CFSM	.16	.16	.74	.97	1.68	1.88	2.00	.80	.42	.39	2.97	1.18
IN.	.18	.18	.86	1.12	1.75	2.16	2.24	.92	.47	.45	3.42	1.31

CAL YR 1973 TOTAL 25,345.8 MEAN 69.4 MAX 986 MIN 5.7 CFSM 1.46 IN 19.85
WTR YR 1974 TOTAL 19,222.1 MEAN 52.7 MAX 588 MIN 5.7 CFSM 1.11 IN 15.05

Note.--No gage-height record Nov. 18 to Jan. 3.

02108000 Northeast Cape Fear River near Chinquapin, N. C.

LOCATION.--Lat 34°49'45", long 77°49'57", Duplin County, on right bank 540 ft (165 m) downstream from bridge on State Highway 41, 0.5 mi (0.8 km) downstream from Muddy Creek, and 1.2 mi (1.9 km) west of Chinquapin.

DRAINAGE AREA.--600 mi^2 (1,550 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 17.28 ft (5.267 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--34 years, 733 ft^3/s (20.76 m^3/s), 16.59 in/yr (421 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,880 ft^3/s (138 m^3/s) Aug. 10 (gage height, 13.16 ft or 4.011 m); minimum, 21 ft^3/s (0.59 m^3/s) Oct. 26, 27 (gage height, 1.36 ft or 0.415 m).

Period of record: Maximum discharge, 20,400 ft^3/s (578 m^3/s) July 6, 1962 (gage height, 20.16 ft or 6.145 m); minimum, 5.3 ft^3/s (0.15 m^3/s) Oct. 10, 11, 1954.

Flood in 1908 reached a stage of 22.6 ft or 6.89 m at old bridge site 1,000 ft (305 m) upstream from gage. Flood in 1928 reached a stage of 0.8 ft (0.2 m) lower than that in 1908, from information by North Carolina State Highway Commission.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	41	57	481	1,450	742	2,070	261	1,200	235	582	885
2	50	40	57	556	1,560	664	2,190	226	1,150	164	585	646
3	64	39	55	670	1,720	603	2,100	205	1,140	121	666	525
4	90	38	54	728	1,890	552	1,890	195	1,280	93	758	483
5	75	35	54	752	1,950	509	1,740	197	1,390	76	1,140	510
6	62	33	55	777	1,870	478	1,810	263	1,390	75	1,800	606
7	57	33	59	784	1,680	454	1,940	349	1,200	171	2,790	837
8	52	33	79	762	1,510	429	1,970	365	911	472	3,650	1,170
9	48	32	247	719	1,410	403	1,990	358	681	619	4,120	1,460
10	45	32	335	665	1,320	377	2,020	343	484	524	4,780	1,480
11	42	32	366	614	1,220	353	1,940	337	348	415	4,740	1,250
12	41	33	355	565	1,080	351	1,720	328	256	334	4,330	969
13	37	33	367	518	941	386	1,480	339	203	241	3,880	768
14	35	33	431	476	829	420	1,450	369	177	143	3,600	627
15	33	35	476	446	801	426	1,460	374	165	102	3,400	522
16	32	35	492	424	1,000	467	1,760	345	154	84	3,200	429
17	30	35	695	404	1,460	967	2,240	323	143	121	3,400	360
18	29	35	829	383	1,770	1,310	2,400	295	130	111	3,300	453
19	28	35	846	375	1,910	1,460	2,100	421	122	104	3,200	479
20	27	35	802	368	2,000	1,530	1,650	778	112	88	3,130	426
21	26	37	909	379	2,040	1,570	1,260	1,050	104	89	2,980	375
22	25	38	1,050	482	2,010	1,540	988	1,060	94	298	2,660	349
23	25	38	1,090	548	1,930	1,470	813	919	90	497	2,400	311
24	24	40	1,040	558	1,740	1,420	701	937	88	494	2,280	269
25	23	41	979	557	1,460	1,440	616	994	90	406	2,380	246
26	22	41	947	567	1,190	1,640	536	964	91	444	2,540	246
27	22	41	903	581	984	1,820	462	1,120	107	781	2,490	255
28	22	43	830	566	846	1,840	399	1,660	199	891	2,250	257
29	26	46	729	585	------	1,720	347	2,110	309	740	2,000	257
30	28	50	624	816	------	1,720	301	1,980	303	673	1,700	249
31	32	------	537	1,200	------	1,880	------	1,620	------	618	1,280	------
TOTAL	1,208	1,112	16,349	18,306	41,571	30,941	44,343	21,085	14,111	10,224	82,011	17,699
MEAN	39.0	37.1	527	591	1,485	998	1,478	680	470	330	2,646	590
MAX	90	50	1,090	1,200	2,040	1,880	2,400	2,110	1,390	891	4,780	1,480
MIN	22	32	54	368	801	351	301	195	88	75	582	246
CFSM	.07	.06	.88	.99	2.48	1.66	2.46	1.13	.78	.55	4.41	.98
IN.	.07	.07	1.01	1.13	2.58	1.92	2.75	1.31	.87	.63	5.08	1.10

CAL YR 1973 TOTAL 365,835 MEAN 1,002 MAX 7,890 MIN 22 CFSM 1.67 IN 22.68

WTR YR 1974 TOTAL 298,960 MEAN 819 MAX 4,780 MIN 22 CFSM 1.37 IN 18.54

02108500 Rockfish Creek near Wallace, N. C.

LOCATION.--Lat 34°44'32", long 78°02'22", Duplin County, on right bank at downstream side of bridge on State Highway 41, 1.5 mi (2.4 km) upstream from Doctors Creek, and 2.5 mi (4.0 km) west of Wallace.

DRAINAGE AREA.--63.8 mi^2 (165 km^2).

PERIOD OF RECORD.--July 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 29.36 ft (8.949 m) above mean sea level. Prior to Oct. 1, 1958 nonrecording gage at site 1.0 mi (1.6 km) downstream at different datum. Oct. 1, 1958, to June 1, 1960, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--19 years, 99.4 ft^3/s (2.815 m^3/s), 21.16 in/yr (537 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,390 ft^3/s (39.4 m^3/s) Aug. 6 (gage height, 10.31 ft or 3.142 m); minimum, 2.6 ft^3/s (0.074 m^3/s) Oct. 28; minimum gage height, 0.81 ft or 0.247 m Oct. 21.

Period of record: Maximum discharge, 4,940 ft^3/s (140 m^3/s) Aug. 18, 1971 (gage height, 12.98 ft or 3.956 m); minimum daily, 0.4 ft^3/s (0.011 m^3/s) July 27-30, 1955.

Flood in 1948 reached a stage of about 15.5 ft (4.72 m) at former site and datum, from information by local resident (discharge, 2,800 ft^3/s or 79.3 m^3/s).

A discharge of 0.04 ft^3/s (0.001 m^3/s) was measured on Sept. 8, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	4.6	5.4	46	395	56	311	15	96	13	410	40
2	7.8	4.7	4.4	80	358	52	218	13	101	10	206	36
3	8.6	3.8	4.3	121	394	47	149	13	114	8.3	88	31
4	7.8	3.4	4.3	156	411	45	103	12	120	7.2	85	27
5	7.0	3.6	4.5	164	400	42	163	12	113	6.5	373	29
6	6.4	3.6	4.6	145	311	39	219	33	113	9.4	1,180	51
7	4.8	4.1	4.6	135	234	36	193	45	70	20	1,040	80
8	4.9	3.9	7.2	123	199	34	177	36	48	38	703	78
9	5.5	4.4	29	106	193	32	173	23	36	46	601	68
10	5.4	4.4	43	87	189	30	180	23	28	28	690	51
11	5.2	3.9	52	69	169	29	178	26	23	19	519	37
12	5.0	4.4	42	60	134	33	151	27	18	14	367	27
13	4.4	5.0	23	50	98	39	106	56	16	9.0	233	23
14	3.8	5.2	29	45	78	38	204	56	15	7.0	409	19
15	4.3	5.3	40	43	81	34	304	46	24	6.1	768	16
16	4.6	4.9	47	44	126	60	262	24	17	5.7	609	14
17	4.2	4.2	85	44	249	248	186	17	14	7.2	566	18
18	3.8	4.1	114	40	344	401	124	13	12	6.8	499	38
19	4.0	4.4	127	39	318	358	76	57	10	5.4	544	41
20	3.3	4.8	98	42	285	238	54	128	9.0	5.0	457	31
21	2.9	5.4	114	51	290	171	42	160	8.6	17	265	22
22	3.3	5.9	180	74	281	141	37	162	8.1	54	181	18
23	3.6	5.5	275	82	211	129	34	137	7.3	38	169	17
24	3.6	5.6	210	93	161	131	30	137	7.7	17	206	15
25	3.6	5.7	144	74	130	117	27	133	9.9	11	241	13
26	3.6	5.1	102	51	96	185	24	120	9.0	13	286	13
27	3.5	5.1	82	47	73	197	22	601	17	59	240	12
28	2.7	5.7	69	48	61	178	20	628	49	231	175	13
29	4.7	5.6	60	90	------	156	18	475	47	45	122	12
30	5.8	6.2	52	174	------	230	17	292	25	19	72	11
31	5.3	------	47	304	------	303	------	180	------	75	48	------
TOTAL	149.4	142.5	2,103.3	2,727	6,269	3,829	3,802	3,700	1,187.6	850.6	12,352	901
MEAN	4.82	4.75	67.8	88.0	224	124	127	119	39.6	27.4	398	30.0
MAX	8.6	6.2	275	304	411	401	311	628	120	231	1,180	80
MIN	2.7	3.4	4.3	39	61	29	17	12	7.3	5.0	48	11
CFSM	.08	.07	1.06	1.38	3.51	1.94	1.99	1.87	.62	.43	6.24	.47
IN.	.09	.08	1.23	1.59	3.66	2.23	2.22	2.16	.69	.50	7.20	.53

CAL YR 1973 TOTAL 43,461.4 MEAN 119 MAX 1,700 MIN 2.7 CFSM 1.87 IN 25.34
WTR YR 1974 TOTAL 38,013.4 MEAN 104 MAX 1,180 MIN 2.7 CFSM 1.63 IN 22.16

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-27	1500	9.03	850	8-10	0400	8.69	747
8- 6	1200	10.31	1,390	8-15	1400	9.04	854

02109500 Waccamaw River at Freeland, N. C.

LOCATION.--Lat 34°05'43", long 78°32'56", Brunswick County, on left bank 150 ft (46 m) downstream from New Britton Bridge on State Highway 130, 1 mi (2 km) southwest of Freeland, 7 mi (11 km) downstream from Juniper Creek, and 117 mi (188 km) upstream from mouth in Winyah Bay.

DRAINAGE AREA.--706 mi^2 (1,829 km^2).

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 15.52 ft (4.730 m) above mean sea level. Prior to July 15, 1943, nonrecording gage 150 ft (46 m) upstream at same datum. Auxiliary nonrecording gage 3.3 mi (5.3 km) downstream from base gage Oct. 7, 1949 to July 14, 1952. Since July 15, 1952 auxiliary water-stage recorder at same site and datum.

AVERAGE DISCHARGE.--35 years, 697 ft^3/s (19.74 m^3/s), 13.41 in/yr (341 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,220 ft^3/s (148 m^3/s) Aug. 14 (gage height, 15.16 ft or 4.621 m from high-water mark in well); minimum, 19 ft^3/s (0.54 m^3/s) Nov. 17, 18, 19, 20, 21, Dec. 1, 3, 7; minimum gage height, 1.55 ft or 0.472 m Nov. 18, 19, 20, 21.
Period of record: Maximum discharge, 10,200 ft^3/s (289 m^3/s) Sept. 25, 1955; maximum gage height, 16.63 ft (5.069 m) Sept. 26, 1955; minimum discharge, 0.1 ft^3/s (0.003 m^3/s) Aug. 30, Sept. 9, 10, 28, Oct. 4-14, 1954.

REMARKS.--Records good except those for period of no gage-height record, which are fair.

REVISIONS.--WSP 1172: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	48	19	578	623	1,560	1,180	525	917	962	410	1,940
2	84	41	20	549	705	1,440	1,160	461	953	984	400	1,830
3	85	38	19	526	780	1,370	1,110	402	990	938	400	1,840
4	90	33	20	509	869	1,190	1,060	350	998	861	440	1,990
5	95	32	20	501	982	1,100	1,110	324	983	787	500	2,090
6	119	32	21	504	1,120	1,010	1,200	316	1,010	714	560	2,140
7	203	30	19	517	1,260	915	1,360	302	1,100	666	640	2,170
8	265	29	25	524	1,480	834	1,460	284	1,190	662	800	2,130
9	267	28	61	525	1,710	774	1,590	264	1,210	681	1,000	2,040
10	242	26	77	518	1,930	708	1,670	252	1,150	712	1,600	1,910
11	214	24	82	513	2,080	654	1,700	248	1,050	737	3,100	1,780
12	192	23	82	499	2,120	603	1,680	262	917	741	4,100	1,670
13	170	23	86	487	2,070	559	1,650	291	798	714	4,800	1,570
14	153	22	99	470	1,990	525	1,660	307	708	672	5,000	1,470
15	136	20	119	461	1,940	493	1,610	302	688	619	4,850	1,360
16	125	20	126	461	1,910	469	1,580	287	719	548	4,420	1,210
17	114	19	158	459	1,960	476	1,550	267	761	477	3,870	1,130
18	105	19	193	454	2,040	508	1,530	244	756	450	3,440	1,080
19	94	20	213	451	2,100	532	1,500	236	719	440	3,260	1,020
20	87	20	238	444	2,130	540	1,470	370	685	430	3,020	949
21	79	20	315	450	2,130	557	1,420	491	666	480	2,740	882
22	74	20	429	461	2,130	577	1,340	551	643	500	2,680	822
23	67	20	502	465	2,100	604	1,210	572	595	500	2,640	770
24	62	20	552	460	2,040	674	1,110	619	528	490	2,790	720
25	58	20	587	450	1,950	792	1,010	670	461	480	3,000	692
26	53	20	614	439	1,850	915	903	714	410	470	3,270	699
27	49	20	634	427	1,760	1,030	809	795	405	460	3,300	717
28	49	22	645	412	1,660	1,100	739	886	616	450	3,140	700
29	49	20	640	400	------	1,130	662	950	759	440	2,860	680
30	50	21	625	450	------	1,160	593	964	874	430	2,530	600
31	49	------	605	539	------	1,180	------	948	------	420	2,210	------
TOTAL	3,555	750	,845	14,903	47,419	25,979	38,626	14,454	24,259	18,915	77,770	40,601
MEAN	115	25.0	253	481	1,694	838	1,288	466	809	610	2,509	1,353
MAX	267	48	645	578	2,130	1,560	1,700	964	1,210	984	5,000	2,170
MIN	49	19	19	400	623	469	593	236	405	420	400	600
CFSM	.16	.04	.36	.68	2.40	1.19	1.82	.66	1.15	.86	3.55	1.92
IN.	.19	.04	.41	.79	2.50	1.37	2.04	.76	1.28	1.00	4.10	2.14

CAL YR 1973 TOTAL 327,750 MEAN 898 MAX 6,210 MIN 19 CFSM 1.27 IN 17.27
WTR YR 1974 TOTAL 315,076 MEAN 863 MAX 5,000 MIN 19 CFSM 1.22 IN 16.60

Note.--No gage-height record July 19 to Aug. 15.

02111000 Yadkin River at Patterson, N. C.

LOCATION.--Lat 35°59'29", long 81°33'30", Caldwell County, on left bank 200 ft (61 m) upstream from bridge on State Highway 268, 0.4 mi (0.6 km) upstream from Warrior Creek, 0.5 mi (0.8 km) south of Patterson, 2 mi (3 km) downstream from Walnut Branch, and at mile 416 (670 km).

DRAINAGE AREA.--29.0 mi^2 (75.1 km^2).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 1,211.47 ft (369.256 m) above mean sea level. Prior to Feb. 9, 1940 nonrecording gage at present site, at datum 1.00 ft (0.305 m) higher. Prior to Oct. 20, 1970 at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--35 years, 48.9 ft^3/s (1.385 m^3/s), 22.90 in/yr (582 mm/yr).

EXTREMES.--Current year: Maximum discharge, 872 ft^3/s (24.7 m^3/s) Apr. 4 (gage height, 4.36 ft or 1.329 m); minimum, 26 ft^3/s (0.74 m^3/s) Nov. 20; minimum gage height, 1.12 ft (0.341 m) Oct. 26, 27, 28, Nov. 20; minimum daily, 27 ft^3/s (0.76 m^3/s) Nov. 17-20.

Period of record: Maximum discharge, 16,200 ft^3/s (459 m^3/s) Aug. 13, 1940 (gage height, 12.70 ft or 3.871 m, datum then in use), from rating curve extended above 1,400 ft^3/s (39.6 m^3/s) on basis of computation of peak flow over dam 1 mi (1.6 km) upstream at gage heights 4.58 ft (1.396 m), 6.60 ft (2.012 m), 7.70 ft (2.347 m), 12.70 ft (3.871 m); minimum observed, 3.0 ft^3/s (0.085 m^3/s) May 15, 1940.

REMARKS.--Records good. Occasional slight regulation at low flow by paper mill and detention dam 1 mi (1.6 km) upstream.

REVISIONS (WATER YEARS).--WSP 1303: 1940(m), 1947-48(M). WSP 1553: 1948(P). WSP 1723: Drainage area, 1951(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	34	44	161	74	69	78	52	51	50	34	38
2	126	30	40	118	83	66	77	52	47	45	34	66
3	80	29	38	102	82	63	71	54	42	45	176	117
4	55	30	37	97	74	61	524	51	40	45	167	74
5	48	31	252	87	69	61	361	77	39	72	120	49
6	44	29	119	81	70	64	202	65	90	63	201	220
7	42	29	77	76	70	59	139	54	191	65	125	169
8	42	29	64	70	85	56	124	52	99	54	124	96
9	45	29	93	83	77	55	107	57	88	107	171	73
10	46	28	73	76	71	54	92	52	90	88	119	65
11	41	28	62	75	68	53	84	53	78	65	99	63
12	40	28	57	69	64	58	80	112	65	58	100	60
13	39	28	58	64	62	65	100	77	59	52	93	60
14	38	28	55	62	63	55	97	63	57	48	75	56
15	37	28	52	61	60	53	98	58	63	44	67	52
16	35	29	52	59	66	54	89	55	71	43	68	50
17	35	27	49	57	65	52	83	53	59	42	62	50
18	33	27	45	55	66	50	78	68	52	42	57	48
19	33	27	44	54	71	56	74	64	48	40	59	44
20	33	27	84	55	69	61	70	56	58	40	51	41
21	32	73	173	124	64	100	67	54	57	39	50	40
22	32	51	96	85	222	82	66	53	53	37	47	38
23	32	36	77	75	151	70	72	89	47	37	50	37
24	32	33	68	74	109	64	63	64	45	38	45	36
25	31	32	63	77	92	63	60	54	45	40	43	36
26	31	33	366	79	80	60	58	53	42	72	42	35
27	31	39	311	113	75	58	57	62	66	45	41	36
28	33	112	166	105	72	57	56	50	100	52	42	64
29	43	68	116	99	------	77	55	48	69	42	43	40
30	32	50	96	88	------	108	54	48	56	38	40	35
31	32	------	136	80	------	92	------	45	------	35	38	------
TOTAL	1,321	1,102	3,063	2,561	2,274	1,996	3,236	1,845	1,967	1,583	2,483	1,888
MEAN	42.6	36.7	98.8	82.6	81.2	64.4	108	59.5	65.6	51.1	80.1	62.9
MAX	126	112	366	161	222	108	524	112	191	107	201	220
MIN	31	27	37	54	60	50	54	45	39	35	34	35
CFSM	1.47	1.27	3.41	2.85	2.80	2.22	3.72	2.05	2.26	1.76	2.76	2.17
IN.	1.69	1.41	3.93	3.29	2.92	2.56	4.15	2.37	2.52	2.03	3.19	2.42

CAL YR 1973 TOTAL 30,866 MEAN 84.6 MAX 1,120 MIN 27 CFSM 2.92 IN 39.59
WTR YR 1974 TOTAL 25,319 MEAN 69.4 MAX 524 MIN 27 CFSM 2.39 IN 32.48

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 5	1100	3.29	487	4- 4	1600	4.36	872
12-26	1800	3.86	664	9- 6	1630	3.18	454

02111180 Elk Creek at Elkville, N. C.

LOCATION.--Lat 36°04'16", long 81°24'13", Wilkes County, on left bank 700 ft (213 m) upstream from bridge on State Highway 268, in community of Elkville, and 3,400 ft (1,040 m) upstream from mouth.

DRAINAGE AREA.--50.9 mi^2 (131.8 km^2).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,082.40 ft (329.916 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 103 ft^3/s (2.917 m^3/s), 27.48 in/yr (698 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,290 ft^3/s (121 m^3/s) Apr. 4 (gage height, 6.01 ft or 1.832 m); minimum, 42 ft^3/s (1.19 m^3/s) Nov. 18, 19 (gage height, 1.05 ft or 0.320 m).
Period of record: Maximum discharge, 8,660 ft^3/s (245 m^3/s) June 15, 1969 (gage height, 8.33 ft or 2.539 m), from rating curve extended above 2,400 ft^3/s (68.0 m^3/s) on basis of contracted-opening measurement at gage height, 7.28 ft (2.219 m); minimum, 16 ft^3/s (0.45 m^3/s) Oct. 3, 1968 (gage height, 0.83 ft or 0.253 m).
The flood of Aug. 13, 1940 reached a stage of about 22 ft or 6.7 m (discharge, about 70,000 ft^3/s or 1,980 m^3/s, on basis of several contracted-opening and slope-area measurements). A discharge of 6.0 ft^3/s (0.17 m^3/s) was measured Sept. 19, 1956.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	55	81	256	139	127	160	110	105	120	58	64
2	184	49	74	204	152	119	153	108	104	100	58	94
3	99	47	69	180	166	114	135	116	86	95	306	199
4	78	45	65	173	155	109	1,870	107	84	100	333	157
5	70	49	505	156	144	105	913	145	85	178	287	99
6	66	53	246	147	142	109	450	136	113	136	626	660
7	62	47	148	141	142	100	312	114	392	115	230	528
8	62	47	117	129	164	98	275	106	220	110	243	236
9	65	45	182	146	158	96	245	121	192	120	262	169
10	64	45	140	141	145	94	201	109	183	164	215	158
11	62	44	114	141	138	92	169	107	142	120	178	186
12	58	44	100	130	130	95	163	368	118	105	161	155
13	57	44	98	120	125	114	209	242	115	95	138	160
14	57	44	96	115	128	96	211	168	110	90	108	143
15	55	44	88	114	119	91	206	147	113	85	93	125
16	53	45	87	110	123	94	175	131	115	82	85	113
17	51	44	84	103	125	91	166	125	112	80	85	101
18	49	44	77	100	130	87	156	116	104	75	81	99
19	49	42	75	98	142	99	150	112	95	70	106	90
20	49	44	137	99	150	117	139	114	114	70	83	85
21	49	119	422	234	140	180	134	118	97	70	77	82
22	49	112	199	178	557	175	135	113	127	65	71	79
23	49	74	150	153	372	145	146	154	103	65	92	77
24	47	66	125	143	210	130	130	111	87	65	74	75
25	47	62	113	146	170	121	122	98	85	70	82	75
26	47	61	953	148	150	114	119	96	86	108	71	73
27	44	67	638	210	135	110	110	122	91	79	69	73
28	47	156	268	197	129	109	110	102	624	92	66	129
29	66	130	187	184	------	135	118	99	238	75	65	86
30	51	95	158	166	------	191	113	95	176	63	62	74
31	47	------	191	152	------	180	------	88	------	58	60	------
TOTAL	1,929	1,863	5,987	4,714	4,680	3,637	7,695	3,998	4,416	2,920	4,525	4,444
MEAN	62.2	62.1	193	152	167	117	257	129	147	94.2	146	148
MAX	184	156	953	256	557	191	1,870	368	624	178	626	660
MIN	44	42	65	98	119	87	110	88	84	58	58	64
CFSM	1.22	1.22	3.79	2.99	3.28	2.30	5.05	2.53	2.89	1.85	2.87	2.91
IN.	1.41	1.36	4.38	3.45	3.42	2.66	5.62	2.92	3.23	2.13	3.31	3.25

CAL YR 1973 TOTAL 59,435 MEAN 163 MAX 3,040 MIN 42 CFSM 3.20 IN 43.44
WTR YR 1974 TOTAL 50,808 MEAN 139 MAX 1,870 MIN 42 CFSM 2.73 IN 37.13

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 5	1345	3.06	1,140	5-12	1415	2.67	829
12-26	1615	4.25	2,160	6-28	0345	3.47	1,470
2-22	1145	2.84	962	8- 6	0100	3.98	1,910
4- 4	1245	6.01	4,290	9- 6	1845	3.77	1,720

02111500 Reddies River at North Wilkesboro, N. C.

LOCATION.--Lat 36°10'29", long 81°10'09", Wilkes County, on left bank 400 ft (122 m) upstream from bridge on Secondary Road 1517, 1.2 mi (1.9 km) northwest of North Wilkesboro, 1.4 mi (2.3 km) upstream from North Wilkesboro municipal dam, and 2.3 mi (3.7 km) upstream from mouth.

DRAINAGE AREA.--93.9 mi^2 (243.2 km^2).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 978.62 ft (298.283 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 140 ft^3/s (3.965 m^3/s), 20.25 in/yr (514 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,460 ft^3/s (183 m^3/s) Apr. 4 (gage height, 12.01 ft or 3.661 m); minimum, 85 ft^3/s (2.41 m^3/s) Nov. 17, 18, 20, 21 (gage height, 1.29 ft or 0.393 m).
Period of record: Maximum discharge, 27,000 ft^3/s (765 m^3/s) Aug. 14, 1940 (gage height, 22.02 ft or 6.712 m), from rating curve extended above 2,200 ft^3/s (62.3 m^3/s) on basis of computation of peak flow over dam; minimum, 22 ft^3/s (0.62 m^3/s) Aug. 17, 1954 (gage height, 0.63 ft or 0.192 m).

REMARKS.--Records good. Slight diurnal fluctuation at low flow during growing season.

REVISIONS (WATER YEARS).--WSP 1433: 1944.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	190	111	116	407	189	219	206	171	193	179	119	153
2	428	97	108	294	218	209	202	173	263	165	118	163
3	222	96	105	261	227	203	187	206	171	156	315	325
4	165	93	105	258	214	198	2,610	178	159	157	326	195
5	145	103	689	239	197	194	961	210	152	273	261	139
6	129	97	318	226	201	196	483	209	159	265	369	837
7	124	93	199	219	206	190	373	181	606	222	240	481
8	126	93	167	201	249	181	335	172	329	197	260	258
9	129	92	296	246	222	178	305	253	245	187	254	210
10	133	90	214	229	206	176	270	193	232	178	208	190
11	124	90	176	220	197	171	252	181	210	166	199	271
12	118	90	157	203	187	180	244	410	182	179	190	198
13	116	90	157	190	183	214	280	304	169	153	175	205
14	114	90	154	186	189	176	259	227	175	146	155	182
15	109	90	143	184	181	171	247	204	179	140	151	167
16	106	90	143	180	197	174	230	194	181	137	147	161
17	102	87	138	174	201	167	223	180	167	135	150	161
18	100	86	129	168	206	162	217	176	153	161	146	160
19	100	87	128	166	216	171	211	197	148	150	308	146
20	100	86	236	166	212	176	205	211	225	144	181	142
21	99	170	455	423	195	273	200	202	195	143	164	140
22	99	156	240	256	654	212	201	185	177	132	155	137
23	108	113	195	219	402	188	221	241	155	130	152	132
24	106	103	174	209	301	180	196	197	149	137	158	130
25	102	100	167	232	261	172	190	173	145	138	151	131
26	93	99	1,350	231	237	167	187	169	147	162	145	128
27	92	105	763	304	228	163	184	214	144	160	142	127
28	97	187	375	263	221	159	180	170	498	242	142	209
29	143	156	288	240	------	215	178	164	281	143	143	146
30	103	124	247	219	------	325	175	164	207	136	143	130
31	100	------	330	206	------	245	------	158	------	122	141	------
TOTAL	4,022	3,164	8,462	7,219	6,597	6,005	10,212	6,267	6,396	5,135	5,908	6,154
MEAN	130	105	273	233	236	194	340	202	213	166	191	205
MAX	428	187	1,350	423	654	325	2,610	410	606	273	369	837
MIN	92	86	105	166	181	159	175	158	144	122	118	127
CFSM	1.38	1.12	2.91	2.48	2.51	2.07	3.62	2.15	2.27	1.77	2.03	2.18
IN.	1.59	1.25	3.35	2.86	2.61	2.38	4.05	2.48	2.53	2.03	2.34	2.44

CAL YR 1973 TOTAL 83,245 MEAN 228 MAX 2,370 MIN 86 CFSM 2.43 IN 32.98
WTR YR 1974 TOTAL 75,541 MEAN 207 MAX 2,610 MIN 86 CFSM 2.20 IN 29.93

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	1630	7.65	2,770	4- 4	1430	12.01	6,460

02112000 Yadkin River at Wilkesboro, N. C.

LOCATION.--Lat 36°09'09", long 81°08'45", Wilkes County, on right bank 150 ft (46 m) upstream from bridge on U. S. Highway 421A between North Wilkesboro and Wilkesboro, 150 ft (46 m) downstream from Reddies River, 0.5 mi (0.8 km) northeast of Wilkesboro, and 382 mi (615 km) upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--493 mi^2 (1,277 km^2).

PERIOD OF RECORD.--April 1903 to June 1909, October 1920 to current year. Prior to October 1928, published as "at North Wilkesboro".

GAGE.--Water-stage recorder. Datum of gage is 942.35 ft (287.228 m) above mean sea level. Apr. 10, 1903 to June 30, 1909 and Oct. 17, 1920 to Apr. 10, 1929, nonrecording gage at site 1.2 mi (1.9 km) downstream at different datum. Apr. 11, 1929 to Jan. 9, 1930, nonrecording gage at present site and datum. Datum used 1920-29 was about 1.2 ft (0.366 m) lower than that used 1903-09.

AVERAGE DISCHARGE.--59 years (1903-8, 1920-74), 810 ft^3/s (22.94 m^3/s), 22.31 in/yr (567 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 9,740 ft^3/s (276 m^3/s) Apr. 4 (gage height, 11.28 ft or 3.438 m); minimum, 203 ft^3/s (5.75 m^3/s) Oct. 30 (gage height, 1.69 ft or 0.515 m); minimum daily, 498 ft^3/s (14.1 m^3/s) Oct. 30.

Period of record: Maximum discharge, 160,000 ft^3/s (4,530 m^3/s) Aug. 14, 1940 (gage height, 37.6 ft or 11.46 m, from floodmarks), from rating curve extended above 20,000 ft^3/s (566 m^3/s) on basis of slope-area measurement of peak flow; minimum, 86 ft^3/s (2.44 m^3/s) Dec. 4, 1965; minimum daily, 110 ft^3/s (3.12 m^3/s) Sept. 18, 19, 1956.

Flood in July 1916 reached a stage of 34.5 ft or 10.52 m (present site and datum), from floodmark (discharge, 116,000 ft^3/s or 3,290 m^3/s from rating curve extended as explained above).

REMARKS.--Records good. Flow regulated by W. Kerr Scott Reservoir 5.5 mi (8.8 km) upstream since 1962 (see p. 134).

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1433: 1903-9, 1922, 1925-26(M), 1930, 1932, 1934, 1946-48(M), drainage area at former site.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	907	597	709	2,580	1,170	1,110	1,390	958	1,010	879	603	725
2	1,950	572	657	2,360	1,220	1,070	1,260	1,070	1,310	971	598	753
3	1,500	569	609	1,540	1,430	1,010	1,170	1,210	1,050	916	1,620	1,420
4	872	562	627	1,450	1,240	1,080	5,080	985	888	888	3,070	1,510
5	787	572	2,590	1,470	1,090	979	2,880	1,230	824	1,350	2,070	1,030
6	771	558	2,870	1,260	1,140	1,150	6,680	1,300	896	1,630	2,060	2,270
7	701	551	1,720	1,230	1,260	1,030	6,440	1,220	2,190	1,740	2,050	4,550
8	691	547	972	1,190	1,300	889	4,240	997	1,720	1,420	1,520	2,120
9	702	547	1,650	1,280	1,360	886	1,780	1,320	1,430	1,050	1,680	1,240
10	705	542	1,420	1,300	1,250	904	1,280	1,150	1,360	1,120	1,600	1,170
11	702	577	1,100	1,280	1,180	896	1,440	1,010	1,390	1,130	1,200	1,450
12	661	589	1,000	1,180	1,060	912	1,540	1,500	1,190	1,090	1,210	1,130
13	622	580	939	1,010	916	1,400	1,630	2,080	978	880	1,130	1,000
14	613	562	882	1,010	1,080	1,000	1,610	1,660	1,020	881	1,020	1,070
15	588	553	886	1,080	1,090	720	1,610	1,140	974	769	855	951
16	585	551	1,020	1,020	1,040	800	1,580	1,080	1,400	838	939	907
17	610	545	843	918	1,160	920	1,410	1,010	1,180	801	913	914
18	596	542	666	868	1,120	864	1,270	1,080	869	776	876	913
19	586	537	639	932	1,160	960	1,270	1,180	815	805	1,270	788
20	584	535	1,110	1,000	1,200	1,110	1,250	1,170	920	879	1,050	817
21	577	678	2,450	2,730	1,160	1,460	1,210	1,090	1,020	947	799	734
22	574	766	1,990	1,720	2,570	1,630	1,190	1,090	1,150	678	813	723
23	585	788	1,380	1,200	2,590	1,320	1,430	1,380	1,030	625	784	696
24	582	619	1,010	1,110	1,630	1,080	1,170	1,240	779	707	777	722
25	576	565	957	1,400	1,280	984	979	1,030	808	720	772	726
26	561	564	3,940	1,310	1,250	1,050	1,100	934	845	784	686	648
27	561	660	3,460	1,680	1,220	1,020	1,160	1,160	824	917	699	631
28	562	996	4,550	1,810	1,150	920	1,070	1,110	2,020	1,180	701	1,210
29	632	1,380	4,440	1,280	------	1,290	1,070	902	2,400	1,010	643	999
30	498	759	1,470	1,150	------	2,090	1,020	877	1,240	725	670	759
31	579	------	1,620	1,290	------	1,650	------	855	------	616	725	------
TOTAL	22,020	18,963	50,176	42,638	36,316	34,184	58,209	36,018	35,530	29,722	35,403	34,576
MEAN	710	632	1,619	1,375	1,297	1,103	1,940	1,162	1,184	959	1,142	1,153
MAX	1,950	1,380	4,550	2,730	2,590	2,090	6,680	2,080	2,400	1,740	3,070	4,550
MIN	498	535	609	868	916	720	979	855	779	616	598	631
(†)	-3	0	+23	-23	0	0	0	0	-2	0	+2	0
MEAN‡	707	632	1,642	1,352	1,297	1,103	1,940	1,162	1,182	959	1,144	1,153
CFSM‡	1.43	1.28	3.33	2.74	2.63	2.24	3.94	2.36	2.40	1.95	2.32	2.34
IN.‡	1.65	1.43	3.84	3.16	2.74	2.58	4.40	2.72	2.68	2.25	2.68	2.61

CAL YR 1973 TOTAL 475,708 MEAN 1,303 MAX 6,350 MIN 498 MEAN‡ 1,298 CFSM‡ 2.63 IN‡ 35.74
WTR YR 1974 TOTAL 433,755 MEAN 1,188 MAX 6,680 MIN 498 MEAN‡ 1,186 CFSM‡ 2.41 IN‡ 32.72

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir; furnished by Corps of Engineers.

‡ Adjusted for change in W. Kerr Scott Reservoir.

02112120 Roaring River near Roaring River, N. C.

LOCATION.--Lat 36°14'59", long 81°02'41", Wilkes County, on left bank at downstream end of old bridge pier, 800 ft (244 m) upstream from bridge on Secondary Road 1990, 3.8 mi (6.1 km) northeast of village of Roaring River, and 4.1 mi (6.6 km) upstream from mouth.

DRAINAGE AREA.--122 mi^2 (316 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements water years, 1925, 1947, 1949-56, 1963. April 1964 to current year.

GAGE.--Water stage recorder. Datum of gage is 964.85 ft (294.086 m) above mean sea level. Prior to May 1, 1964, nonrecording gage on downstream side of bridge at same site and datum.

AVERAGE DISCHARGE.--10 years, 185 ft^3/s (5.239 m^3/s), 20.59 in/yr (523 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,670 ft^3/s (246 m^3/s) Apr. 4 (gage height, 13.87 ft or 4.228 m); minimum, 114 ft^3/s (3.23 m^3/s) Aug. 30; minimum gage height, 1.60 ft (0.488 m) Nov. 17, 18, 19-21.
Period of record: Maximum discharge, 13,200 ft^3/s (374 m^3/s) Sept. 21, 1971 (gage height, 17.32 ft or 5.279 m), from rating curve extended as explained below; minimum, 53 ft^3/s (1.50 m^3/s) July 7, 8, 1964.
Flood of 1916 reached a stage of about 28 ft or 8.5 m (estimated discharge, 37,000 ft^3/s or 1,050 m^3/s) and the flood of August 1940 about 24 ft or 7.3 m (estimated discharge, 26,000 ft^3/s or 736 m^3/s), from stage information by local residents and rating curve extended above 2,400 ft^3/s (68.0 m^3/s) on basis of slope-area measurements at gage heights 10.83 ft (3.301 m), 14.40 ft (4.389 m), the Aug. 14, 1940 peak (discharge, 29,200 ft^3/s or 827 m^3/s) at the Gordon Cotton Mill dam 2.4 mi (3.9 km) downstream, and step-backwater profile study. A discharge of 24.2 ft^3/s (0.69 m^3/s) was measured Sept. 18, 1956.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	161	159	572	285	255	259	217	359	207	149	122
2	490	144	151	428	307	243	252	219	568	200	150	135
3	246	138	147	384	324	237	235	252	301	193	332	246
4	204	138	146	382	307	230	3,670	220	254	193	399	198
5	180	146	827	355	284	226	1,230	248	235	291	323	135
6	166	141	395	334	290	228	600	253	236	311	227	577
7	160	135	281	322	298	221	456	220	478	291	203	347
8	158	135	231	296	354	214	412	213	336	278	260	212
9	163	135	569	354	318	210	380	409	298	259	322	182
10	169	130	353	327	295	207	338	282	317	250	260	167
11	157	130	273	316	283	203	317	252	266	244	218	259
12	152	130	239	292	263	214	304	422	243	227	207	189
13	149	130	236	276	260	258	348	352	230	211	193	205
14	149	130	226	272	256	211	323	285	222	201	174	164
15	141	130	209	267	249	204	310	264	230	196	166	155
16	139	130	208	259	273	210	292	249	238	200	159	150
17	134	124	200	252	280	203	289	235	222	185	156	151
18	133	124	184	243	284	197	270	226	207	180	153	157
19	132	127	180	240	290	203	263	233	201	179	181	139
20	132	124	384	238	284	209	261	274	271	172	150	133
21	131	198	620	496	263	315	252	234	266	168	143	131
22	131	197	346	348	667	259	250	230	272	165	137	128
23	131	149	285	302	433	230	280	287	221	167	135	126
24	129	141	253	293	344	219	245	241	212	182	130	123
25	127	138	247	321	305	210	242	220	205	198	129	126
26	126	137	1,850	327	278	206	237	216	205	189	125	123
27	124	145	926	420	267	201	226	272	204	192	122	123
28	132	252	504	370	259	198	223	220	296	223	121	211
29	195	214	399	347	------	262	222	214	250	182	120	141
30	149	171	350	318	------	397	222	211	222	162	119	124
31	146	------	476	300	------	305	------	211	------	153	121	------
TOTAL	5,070	4,424	11,854	10,251	8,600	7,185	13,208	7,881	8,065	6,449	5,784	5,379
MEAN	164	147	382	331	307	232	440	254	269	208	187	179
MAX	490	252	1,850	572	667	397	3,670	422	568	311	399	577
MIN	124	124	146	238	249	197	222	211	201	153	119	122
CFSM	1.34	1.20	3.13	2.71	2.52	1.90	3.61	2.08	2.20	1.70	1.53	1.47
IN.	1.55	1.35	3.61	3.13	2.62	2.19	4.03	2.40	2.46	1.97	1.76	1.64

CAL YR 1973 TOTAL 98,997 MEAN 271 MAX 2,710 MIN 124 CFSM 2.22 IN 30.19
WTR YR 1974 TOTAL 94,150 MEAN 258 MAX 3,670 MIN 119 CFSM 2.11 IN 28.71

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 5	1400	5.52	2,010	4- 4	1430	13.87	8,670
12-26	1700	9.25	4,400				

02112250 Yadkin River at Elkin, N. C.

LOCATION.--Lat 36°14'40", long 80°50'42", Yadkin County, on right bank at downstream side of bridge on U. S. Highway 21 at Elkin, 0.3 mi (0.5 km) downstream from Elkin River and 362 mi (582 km) upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--854 mi^2 (2,212 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 866.03 ft (263.966 m) above mean sea level. Prior to Aug. 28, 1964, nonrecording gage on upstream side of bridge at same datum.

AVERAGE DISCHARGE.--10 years, 1,391 ft^3/s (39.39 m^3/s), 22.12 in/yr (562 mm/yr) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 18,200 ft^3/s (515 m^3/s) Apr. 4 (gage height, 18.73 ft or 5.709 m); minimum, 725 ft^3/s (20.5 m^3/s) Oct. 31 (gage height, 2.30 ft or 0.701 m); minimum daily, 891 ft^3/s (25.2 m^3/s) Nov. 20.

Period of record: Maximum discharge, 24,700 ft^3/s (700 m^3/s) Aug. 10, 1970 (gage height, 23.52 ft or 7.169 m); minimum, 338 ft^3/s (9.57 m^3/s) July 28, 29, 1966.

Flood of July 1916 reached a stage of 36.0 ft (10.97 m), from information by North Carolina State Highway Commission. Flood of August 1940 reached a stage of 37.5 ft (11.43 m). A discharge of 172 ft^3/s (4.87 m^3/s) was measured on Sept. 19,1956.

REMARKS.--Records good. Considerable regulation by W. Kerr Scott Reservoir. (See p. 134).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,280	1,030	1,150	4,370	1,900	1,780	2,400	1,420	1,710	1,270	929	1,020
2	2,860	990	1,050	3,870	1,810	1,730	2,020	1,490	2,200	1,280	918	1,030
3	2,340	923	1,020	2,660	2,120	1,590	1,900	1,660	1,720	1,310	1,390	1,550
4	1,600	951	1,020	2,270	2,120	1,680	10,000	1,570	1,460	1,200	4,170	2,180
5	1,290	974	3,000	2,350	1,760	1,600	9,920	1,600	1,280	1,650	3,420	1,550
6	1,220	977	4,000	2,100	1,690	1,690	6,690	1,920	1,310	2,550	2,210	2,840
7	1,200	944	2,700	1,940	2,030	1,720	7,270	1,700	2,410	2,400	2,740	5,400
8	1,140	943	1,620	1,860	2,150	1,510	6,120	1,530	3,030	2,130	2,090	3,670
9	1,170	940	2,730	1,940	2,240	1,470	3,180	1,800	1,780	1,570	2,140	1,830
10	1,170	921	2,650	2,080	1,940	1,470	2,170	2,100	1,830	1,500	2,330	1,570
11	1,150	910	1,770	1,990	1,900	1,480	2,110	1,700	1,950	1,510	1,720	1,880
12	1,130	976	1,590	1,890	1,760	1,480	2,330	1,800	1,720	1,520	1,600	1,750
13	1,080	962	1,450	1,680	1,580	1,890	2,360	3,100	1,440	1,270	1,570	1,470
14	1,060	943	1,460	1,540	1,640	1,820	2,490	2,300	1,390	1,250	1,450	1,420
15	1,040	934	1,350	1,650	1,750	1,360	2,310	1,800	1,430	1,220	1,220	1,390
16	999	923	1,500	1,610	1,650	1,340	2,350	1,600	1,860	1,180	1,270	1,280
17	1,020	899	1,450	1,530	1,840	1,520	2,050	1,550	1,770	1,240	1,250	1,240
18	1,010	900	1,190	1,410	1,860	1,430	1,950	1,500	1,350	1,170	1,230	1,370
19	1,000	903	1,130	1,410	1,840	1,440	1,880	1,610	1,230	1,170	1,490	1,150
20	1,000	891	2,000	1,450	1,890	1,680	1,810	1,880	1,330	1,170	1,540	1,150
21	991	984	4,660	4,040	1,840	2,400	1,820	1,590	1,740	1,380	1,160	1,120
22	979	1,330	3,330	3,520	3,350	2,490	1,760	1,580	1,690	1,120	1,130	1,070
23	990	1,190	2,310	2,160	4,110	2,120	1,980	1,960	1,620	1,020	1,130	1,030
24	985	1,060	1,720	1,820	2,830	1,780	1,980	1,870	1,240	1,070	1,090	1,020
25	960	934	1,490	2,030	2,100	1,590	1,510	1,630	1,210	1,120	1,090	1,060
26	950	954	6,130	2,090	1,980	1,610	1,550	1,380	1,270	1,140	1,050	987
27	944	1,030	8,090	2,570	1,900	1,640	1,700	1,680	1,220	1,330	980	961
28	954	1,500	5,060	2,710	1,850	1,520	1,550	1,650	1,900	1,450	986	1,520
29	1,130	1,900	6,340	2,560	------	1,760	1,590	1,420	3,110	1,500	965	1,550
30	1,000	1,450	2,710	1,900	------	3,960	1,500	1,350	2,050	1,120	939	1,110
31	932	------	2,650	1,890	------	2,750	------	1,320	------	1,000	977	------
TOTAL	36,574	31,166	80,320	68,890	57,430	55,300	90,250	53,060	51,250	42,810	48,174	48,168
MEAN	1,180	1,039	2,591	2,222	2,051	1,784	3,008	1,712	1,708	1,381	1,554	1,606
MAX	2,860	1,900	8,090	4,370	4,110	3,960	10,000	3,100	3,110	2,550	4,170	5,400
MIN	932	891	1,020	1,410	1,580	1,340	1,500	1,320	1,210	1,000	918	961
(†)	-3	0	+23	-23	0	0	0	0	-2	0	+2	0
MEAN‡	1,177	1,039	2,614	2,199	2,051	1,784	3,008	1,712	1,706	1,381	1,556	1,606
CFSM‡	1.38	1.22	3.06	2.57	2.40	2.09	3.52	2.00	2.00	1.62	1.82	1.88
IN.‡	1.59	1.36	3.53	2.96	2.50	2.41	3.93	2.31	2.23	1.87	2.10	2.10

CAL YR 1973 TOTAL 753,124 MEAN 2,063 MAX 12,500 MIN 891 MEAN‡ 2,058 CFSM‡ 2.41 IN‡ 32.71
WTR YR 1974 TOTAL 663,392 MEAN 1,818 MAX 10,000 MIN 891 MEAN‡ 1,818 CFSM‡ 2.13 IN‡ 28.89

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir; furnished by Corps of Engineers.

‡ Adjusted for change in W. Kerr Scott Reservoir.

02112360 Mitchell River near State Road, N. C.

LOCATION.--Lat 36°18'58", long 80°48'36", Surry County, on right bank 18 ft (5 m) upstream from bridge on Secondary Road 1001, 1.8 mi (2.9 km) upstream from Grass Creek, and 3.3 mi (5.3 km) east of State Road.

DRAINAGE AREA.--80.4 mi^2 (208.2 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1952-58, 1963. April 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 927.12 ft (282.586 m) above mean sea level. Prior to Aug. 29, 1964, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--10 years, 126 ft^3/s (3.568 m^3/s), 21.28 in/yr (541 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,840 ft^3/s (109 m^3/s) Apr. 4 (gage height, 9.23 ft or 2.813 m); minimum daily, 80 ft^3/s (2.27 m^3/s) Oct. 22.

Period of record: Maximum discharge, 6,450 ft^3/s (183 m^3/s) Aug. 30, 1964 (gage height, 14.85 ft or 4.526 m); minimum, 35 ft^3/s (0.99 m^3/s) Aug. 17, 19, 1967; minimum gage height, 1.73 ft (0.527 m) July 28, 29, 1966.

Maximum stage known since at least 1900, about 18 ft (5.49 m) in August 1940, from information by local resident (estimated discharge, 9,000 ft^3/s or 255 m^3/s). A discharge of 16.5 ft^3/s (0.47 m^3/s) was measured on Sept. 19, 1956.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	104	94	378	168	157	176	146	322	133	89	82
2	450	92	90	247	172	153	168	146	336	128	88	82
3	160	90	88	216	189	151	159	161	190	121	121	101
4	130	90	87	196	183	148	1,770	150	163	121	191	123
5	110	92	449	190	165	146	876	156	150	146	165	88
6	103	92	233	175	166	148	424	165	145	170	180	232
7	95	88	150	175	178	145	322	148	293	296	139	188
8	98	88	132	162	218	141	276	139	200	165	167	128
9	98	88	269	184	193	138	262	323	184	151	178	115
10	98	85	177	170	176	138	233	189	183	138	147	108
11	93	85	144	170	171	138	216	173	158	128	139	129
12	92	85	130	157	161	145	209	310	145	127	138	117
13	90	85	127	148	161	170	251	268	136	118	129	150
14	88	85	133	144	161	145	224	199	132	116	118	112
15	88	85	119	143	160	140	216	183	137	111	110	105
16	85	85	119	141	167	145	198	178	149	114	104	100
17	82	83	128	137	172	140	189	163	136	109	105	102
18	82	81	115	133	174	136	187	164	125	108	101	110
19	82	83	113	131	173	139	181	180	119	106	111	98
20	84	83	288	130	175	144	175	219	241	124	111	94
21	82	102	483	431	164	208	170	187	207	113	100	93
22	80	124	231	221	290	173	169	161	161	106	97	92
23	82	96	183	185	224	155	201	173	141	103	95	89
24	86	92	162	174	193	151	174	150	131	111	94	85
25	86	90	151	189	178	147	164	137	125	111	91	86
26	85	88	964	187	165	141	161	134	125	113	89	85
27	85	94	743	241	161	139	159	176	125	130	86	84
28	88	148	312	214	158	138	158	142	186	110	84	131
29	126	129	240	203	------	194	158	135	173	101	83	105
30	98	99	211	188	------	299	151	132	145	95	82	89
31	94	------	275	177	------	210	------	152	------	89	81	------
TOTAL	3,360	2,811	7,140	5,937	5,016	4,862	8,377	5,439	5,163	3,912	3,613	3,303
MEAN	108	93.7	230	192	179	157	279	175	172	126	117	110
MAX	450	148	964	431	290	299	1,770	323	336	296	191	232
MIN	80	81	87	130	158	136	151	132	119	89	81	82
CFSM	1.34	1.17	2.86	2.39	2.23	1.95	3.47	2.18	2.14	1.57	1.46	1.37
IN.	1.55	1.30	3.30	2.75	2.32	2.25	3.88	2.52	2.39	1.81	1.67	1.53

CAL YR 1973 TOTAL 66,332 MEAN 182 MAX 1,580 MIN 80 CFSM 2.26 IN 30.69
WTR YR 1974 TOTAL 58,933 MEAN 161 MAX 1,770 MIN 80 CFSM 2.00 IN 27.27

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	1830	6.13	2,160	4- 4	1400	9.23	3,840

02113000 Fisher River near Copeland, N. C.

LOCATION.--Lat 36°20'27", long 80°40'20", Surry County, on left bank 500 ft (152 m) upstream from bridge on State Highway 268, 1 mi (2 km) upstream from Cody Creek, and 2 mi (3 km) northwest of Copeland.

DRAINAGE AREA.--121 mi^2 (313 km^2).

PERIOD OF RECORD.--October 1931 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 913 ft or 278 m (by barometer). Prior to Sept. 5, 1936, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--43 years, 180 ft^3/s (5.098 m^3/s), 20.17 in/yr (512 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,420 ft^3/s (182 m^3/s) Apr. 4 (gage height, 11.12 ft or 3.389 m); minimum, 96 ft^3/s (2.72 m^3/s) Nov. 20, Sept. 2; minimum gage height, 2.37 ft (0.722 m) Sept. 2.
Period of record: Maximum discharge, 27,300 ft^3/s (773 m^3/s) Aug. 14, 1940 (gage height, 18.4 ft or 5.61 m, from floodmarks) from rating curve extended above 6,200 ft^3/s (176 m^3/s) on basis of slope-area measurement of peak flow; minimum, 14 ft^3/s (0.40 m^3/s) Aug. 28, 1956.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1303: 1933(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	134	120	621	226	212	259	175	460	156	106	100
2	482	120	113	356	230	205	236	177	454	148	104	99
3	250	115	109	303	263	198	219	205	250	144	186	172
4	173	113	109	308	250	195	3,650	183	204	140	384	222
5	150	115	612	289	219	195	1,520	184	190	159	274	119
6	134	113	361	259	219	197	612	210	184	181	457	483
7	132	109	202	250	242	193	436	181	640	186	216	443
8	134	109	170	226	361	187	379	172	339	187	327	197
9	134	109	732	259	289	184	367	550	250	204	291	161
10	129	106	331	242	242	180	300	298	248	159	211	143
11	127	104	215	246	222	179	277	229	212	143	176	227
12	122	104	182	230	208	189	262	478	187	141	172	161
13	120	106	179	208	202	235	306	420	177	132	158	148
14	122	106	182	198	205	188	287	264	179	127	143	134
15	115	106	161	195	202	179	272	231	206	122	135	127
16	113	106	164	189	222	182	240	218	200	172	132	124
17	106	100	170	185	246	181	231	215	186	130	142	125
18	109	100	147	176	259	172	225	202	165	127	128	142
19	109	100	145	173	242	174	217	237	160	125	141	119
20	111	100	506	173	242	187	210	252	513	120	147	114
21	109	113	987	1,120	215	356	205	201	291	121	128	111
22	106	173	377	421	516	268	204	198	202	116	119	111
23	109	120	263	294	391	214	244	271	175	113	114	106
24	109	113	222	254	294	198	207	220	161	127	113	102
25	106	109	202	285	259	183	199	187	152	124	109	104
26	106	106	1,570	280	230	179	196	177	153	167	106	103
27	104	115	1,230	396	222	176	191	244	152	274	103	103
28	109	170	477	327	215	175	187	195	215	146	101	150
29	192	170	346	308	------	300	184	176	231	126	100	133
30	137	127	303	267	------	685	179	172	173	121	101	107
31	122	------	430	242	------	369	------	199	------	111	101	------
TOTAL	4,389	3,491	11,317	9,280	7,133	6,915	12,501	7,321	7,309	4,549	5,225	4,690
MEAN	142	116	365	299	255	223	417	236	244	147	169	156
MAX	482	173	1,570	1,120	516	685	3,650	550	640	274	457	483
MIN	104	100	109	173	202	172	179	172	152	111	100	99
CFSM	1.17	.96	3.02	2.47	2.11	1.84	3.45	1.95	2.02	1.21	1.40	1.29
IN.	1.35	1.07	3.48	2.85	2.19	2.13	3.84	2.25	2.25	1.40	1.61	1.44

CAL YR 1973 TOTAL 97,278 MEAN 267 MAX 3,140 MIN 99 CFSM 2.21 IN 29.91
WTR YR 1974 TOTAL 84,120 MEAN 230 MAX 3,650 MIN 99 CFSM 1.90 IN 25.86

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	2130	8.35	3,970	4- 4	1700	11.12	6,420
1-21	1030	6.42	2,430	6-20	1930	6.47	2,470

02113850 Ararat River at Ararat, N. C.

LOCATION.--Lat 36°24'16", long 80°33'43", Surry County, on right bank at upstream side of bridge pier on Secondary Road 2019, at Ararat, and 300 ft (91 m) downstream from Flat Shoal Creek.

DRAINAGE AREA.--231 mi^2 (598 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 880.97 ft (268.520 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 296 ft^3/s (8.383 m^3/s), 17.40 in/yr (442 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,300 ft^3/s (292 m^3/s) Apr. 4 (gage height, 14.40 ft or 4.389 m); minimum, 144 ft^3/s (4.08 m^3/s) Aug. 2, 28, 29 (gage height, 1.14 ft or 0.347 m); minimum daily, 149 ft^3/s (4.22 m^3/s) Aug. 28.

Period of record: Maximum discharge, 10,800 ft^3/s (306 m^3/s) June 21, 1972 (gage height, 14.72 ft or 4.487 m); minimum, 20 ft^3/s (0.57 m^3/s) Aug. 17, 18, Oct. 7, 8, 1966 (gage height, 0.65 ft or 0.198 m); minimum daily, 56 ft^3/s (1.59 m^3/s) July 28, 1966.

Maximum stage known since at least 1904, 21.4 ft (6.52 m) June 14, 1947 (result of failure of dams upstream, discharge about 31,000 ft^3/s (878 m^3/s), from information by local residents.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	219	180	1,020	460	394	478	356	670	248	154	157
2	569	186	176	650	534	378	442	363	870	255	152	156
3	386	180	176	569	576	370	402	418	520	235	353	228
4	321	172	172	596	527	356	5,800	370	402	224	745	393
5	191	176	1,000	548	471	356	2,960	363	356	268	514	182
6	176	172	569	499	485	363	1,010	418	342	321	522	909
7	180	168	335	492	520	356	745	356	426	614	277	843
8	281	168	268	434	690	342	680	342	386	314	472	347
9	235	168	1,130	513	583	335	680	850	342	314	438	261
10	219	164	555	499	506	328	602	590	342	275	295	229
11	197	164	378	478	478	335	562	548	402	246	242	807
12	191	164	335	442	450	370	534	870	307	246	230	346
13	186	164	335	394	442	450	583	730	287	225	223	290
14	180	164	342	386	471	349	555	541	300	215	203	232
15	176	164	300	378	442	335	527	478	328	208	190	207
16	172	164	307	363	513	342	485	442	349	221	188	199
17	164	156	314	349	576	335	485	410	314	182	188	215
18	160	160	268	335	555	314	485	402	274	181	178	245
19	164	160	261	328	548	321	457	418	261	184	183	203
20	168	160	900	321	534	356	434	386	402	180	360	191
21	164	186	1,450	1,850	485	710	426	378	386	173	217	185
22	164	255	638	755	825	520	426	370	307	171	184	187
23	168	186	478	541	644	410	534	527	268	173	173	179
24	164	176	402	470	513	370	442	402	248	211	161	174
25	164	172	370	500	471	349	426	349	235	206	158	177
26	160	168	1,780	480	426	342	410	328	261	302	161	176
27	156	180	2,010	600	410	335	402	471	255	395	157	171
28	164	281	775	580	402	328	394	349	335	234	149	244
29	349	268	620	540	------	569	378	321	394	192	171	205
30	213	202	555	500	------	1,030	370	328	274	172	228	169
31	186	------	730	480	------	620	------	342	------	160	170	------
TOTAL	6,636	5,467	18,109	16,890	14,537	12,668	23,114	13,816	10,843	7,545	8,036	8,507
MEAN	214	182	584	545	519	409	770	446	361	243	259	284
MAX	569	281	2,010	1,850	825	1,030	5,800	870	870	614	745	909
MIN	156	156	172	321	402	314	370	321	235	160	149	156
CFSM	.93	.79	2.53	2.36	2.25	1.77	3.33	1.93	1.56	1.05	1.12	1.23
IN.	1.07	.88	2.92	2.72	2.34	2.04	3.72	2.22	1.75	1.22	1.29	1.37

CAL YR 1973 TOTAL 160,570 MEAN 440 MAX 4,460 MIN 156 CFSM 1.90 IN 25.86
WTR YR 1974 TOTAL 146,168 MEAN 400 MAX 5,800 MIN 149 CFSM 1.73 IN 23.54

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	2300	8.18	4,530	4- 4	2200	14.40	10,300
1-21	1300	6.47	3,360				

02114450 Little Yadkin River at Dalton, N. C.

LOCATION.--Lat 36°17'56", long 80°24'53", Stokes County, on left bank 1,200 ft (370 m) downstream from bridge on U. S. Highway 52, 1.0 mi (1.6 km) southwest of Dalton, 1.3 mi (2.1 km) downstream from Southern Railway bridge, and 2.0 mi (3.2 km) downstream from Danbury Creek.

DRAINAGE AREA.--42.8 mi^2 (110.9 km^2).

PERIOD OF RECORD.--August 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 813.7 ft (248.02 m) above mean sea level (North Carolina State Highway Commission bench mark).

AVERAGE DISCHARGE.--14 years, 46.6 ft^3/s (1.320 m^3/s), 14.79 in/yr (376 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,790 ft^3/s (107 m^3/s) Jan. 21 (gage height, 10.43 ft or 3.179 m); minimum, 16 ft^3/s (0.45 m^3/s) Oct. 22-28, July 31, Aug. 1, 2; minimum gage height, 0.58 ft (0.177 m) Aug. 1, 2.
Period of record: Maximum discharge, 8,290 ft^3/s (235 m^3/s) June 21, 1972 (gage height, 18.81 ft or 5.733 m), from rating curve extended above 2,700 ft^3/s (76.5 m^3/s) on basis of slope-area measurement at gage height, 17.86 ft (5.444 m); minimum, 1.4 ft^3/s (0.40 m^3/s) July 29, 1966.

REMARKS.--Records good except those in April and June, which are fair.

REVISIONS.--WSP 2104: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	23	23	203	55	47	71	40	238	33	17	22
2	44	20	23	87	55	46	62	44	192	29	17	25
3	26	20	22	66	60	45	54	49	94	25	42	65
4	22	19	22	119	60	44	1,200	41	62	24	610	54
5	20	23	149	76	51	42	804	46	55	25	370	28
6	19	22	67	61	62	49	151	52	53	73	716	773
7	18	20	40	56	105	42	91	41	51	143	105	192
8	21	20	37	49	187	40	80	39	47	39	105	70
9	22	21	346	100	97	39	108	70	42	32	88	50
10	21	20	78	73	70	38	80	53	41	30	87	41
11	20	20	50	61	61	38	77	45	42	27	47	36
12	19	21	41	52	56	42	73	125	38	27	43	33
13	19	21	47	46	53	45	80	77	37	25	38	30
14	20	21	51	44	51	39	72	51	38	24	33	29
15	19	21	42	43	51	38	69	45	37	23	31	28
16	18	21	49	41	65	43	64	42	58	22	30	28
17	17	20	58	39	76	41	197	39	50	22	29	31
18	17	20	47	38	69	39	201	37	43	22	28	34
19	18	21	42	37	70	39	84	65	37	21	37	28
20	18	21	298	37	67	42	70	116	112	21	29	26
21	17	24	952	1,240	57	239	63	56	74	21	26	26
22	17	28	118	138	72	93	57	47	52	20	25	25
23	16	23	73	83	64	61	105	98	43	20	24	25
24	16	22	61	72	57	52	64	59	37	22	24	23
25	16	22	55	71	54	48	52	45	35	21	24	24
26	16	23	213	91	50	46	47	41	35	21	24	24
27	16	37	140	111	49	44	46	77	35	50	23	24
28	19	53	73	105	48	42	45	50	40	24	22	31
29	37	34	64	101	------	121	45	43	42	21	22	27
30	20	26	67	71	------	321	42	43	37	19	22	23
31	20	------	159	61	------	119	------	42	------	18	26	------
TOTAL	654	707	3,507	3,472	1,872	2,024	4,254	1,718	1,797	944	2,764	1,875
MEAN	21.1	23.6	113	112	66.9	65.3	142	55.4	59.9	30.5	89.2	62.5
MAX	46	53	952	1,240	187	321	1,200	125	238	143	716	773
MIN	16	19	22	37	48	38	42	37	35	18	17	22
CFSM	.49	.55	2.64	2.62	1.56	1.53	3.32	1.29	1.40	.71	2.08	1.46
IN.	.57	.61	3.05	3.02	1.63	1.76	3.70	1.49	1.56	.82	2.40	1.63

CAL YR 1973 TOTAL 23,382 MEAN 64.1 MAX 1,240 MIN 16 CFSM 1.50 IN 20.32
WTR YR 1974 TOTAL 25,588 MEAN 70.1 MAX 1,240 MIN 16 CFSM 1.64 IN 22.24

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	0630	7.68	2,620	8- 4	2130	8.08	2,780
1-21	0730	10.43	3,790	8- 6	1100	10.25	3,710
4- 4	1530	10.05	3,620	9- 6	1930	8.88	3,100

02115360 Yadkin River at Enon, N. C.

LOCATION.--Lat 36°07'55", long 80°26'39", Forsyth County, on left bank 100 ft (30 m) upstream from bridge on Secondary Road 1525, 1.5 mi (2.4 km) east of Enon, 4 mi (6.4 km) upstream from Forbush Creek, and 324 mi (521 km) upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--1,680 mi^2 (4,350 km^2), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 701.71 ft (213.881 m) above mean sea level, unadjusted. Prior to Nov. 6, 1968, nonrecording gage on downstream side of bridge at same site and datum.

AVERAGE DISCHARGE.--10 years, 2,504 ft^3/s (70.91 m^3/s), 20.24 in/yr (514 mm/yr) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 40,900 ft^3/s (1,160 m^3/s) Apr. 5 (gage height, 23.78 ft or 7.25 m); minimum, 1,570 ft^3/s (44.5 m^3/s) Nov. 19 (gage height, 3.97 ft or 0.121 m); minimum daily, 1,580 ft^3/s (44.7 m^3/s) Nov. 19.

Period of record: Maximum discharge, 73,300 ft^3/s (2,080 m^3/s) June 21, 1972 (gage height, 27.83 ft or 8.483 m); minimum observed 625 ft^3/s (17.7 m^3/s) Aug. 17, 1967; minimum gage height observed, 2.29 ft (0.698 m) July 28, 1966.

Flood of Aug. 15, 1940 reached a stage of 737.5 ft (224.79 m) msl (35.8 ft or 10.91 m, gage datum), from information by Corps of Engineers.

REMARKS.--Records good. Some regulation by W. Kerr Scott Reservoir. (See p. 134).

REVISIONS (WATER YEARS).--WRD N. C. 1972: 1970(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,050	1,820	1,980	9,170	3,440	3,090	4,450	2,730	4,340	2,600	1,630	1,720
2	3,330	1,830	1,860	6,590	3,240	3,020	3,800	2,700	4,300	2,200	1,610	1,760
3	4,980	1,720	1,790	5,160	3,570	2,940	3,510	2,940	4,280	2,200	1,720	2,040
4	3,170	1,700	1,760	4,490	3,820	2,860	15,700	3,030	3,040	2,130	5,140	3,900
5	2,330	1,700	3,390	4,290	3,330	2,920	32,800	2,730	2,640	2,130	8,610	2,760
6	2,080	1,730	8,310	3,890	3,120	2,930	10,700	3,380	2,500	3,420	5,300	5,670
7	1,990	1,670	4,890	3,620	3,670	3,010	10,600	3,080	3,000	5,630	4,290	11,500
8	1,970	1,650	3,340	3,400	4,540	2,810	9,760	2,880	5,380	3,560	3,740	6,710
9	2,130	1,650	5,990	3,580	4,680	2,640	6,830	3,680	3,530	2,970	4,280	3,630
10	2,010	1,620	5,820	4,030	3,740	2,600	4,400	4,190	3,240	2,520	3,900	2,720
11	1,980	1,590	3,560	3,640	3,440	2,580	3,830	3,160	3,340	2,460	3,150	3,150
12	1,930	1,610	2,890	3,560	3,220	2,620	3,890	3,350	3,030	2,430	2,710	3,120
13	1,870	1,650	2,680	3,180	3,010	2,970	4,010	5,580	2,700	2,310	2,680	2,670
14	1,830	1,650	2,760	2,940	2,900	3,260	4,410	4,460	2,440	2,050	2,440	2,400
15	1,800	1,640	2,490	2,880	3,050	2,700	4,100	3,530	2,580	2,020	2,240	2,300
16	1,750	1,640	2,510	2,920	3,060	2,440	3,900	2,990	2,830	1,960	2,020	2,160
17	1,710	1,620	2,830	2,810	3,590	2,560	3,950	2,850	3,110	2,020	2,100	2,090
18	1,700	1,590	2,420	2,660	3,520	2,590	4,470	2,790	2,640	1,950	2,050	2,250
19	1,700	1,580	2,130	2,550	3,430	2,500	3,480	3,020	2,240	1,910	2,100	2,130
20	1,690	1,580	3,190	2,600	3,600	2,690	3,340	3,860	2,160	1,920	2,620	1,930
21	1,690	1,600	13,100	12,700	3,400	4,810	3,240	3,070	3,740	2,040	2,270	1,930
22	1,660	2,130	6,900	7,990	3,900	5,410	3,170	2,900	2,810	2,040	1,920	1,860
23	1,660	2,040	4,470	4,710	7,300	3,910	3,730	3,420	2,790	1,790	1,890	1,820
24	1,680	1,900	3,450	3,660	5,140	3,340	3,660	3,900	2,430	1,790	1,820	1,740
25	1,670	1,760	2,910	3,590	3,910	2,970	3,080	3,080	2,130	1,860	1,770	1,750
26	1,660	1,700	5,830	3,980	3,410	2,810	2,900	2,650	2,180	1,870	1,760	1,770
27	1,630	1,830	19,200	4,630	3,270	2,820	3,000	3,090	2,170	2,540	1,670	1,700
28	1,640	2,110	7,930	4,950	3,150	2,770	2,980	3,080	2,320	2,300	1,650	1,950
29	2,070	3,120	8,450	4,990	------	3,330	2,880	2,730	4,220	2,350	1,660	2,790
30	2,110	2,760	6,210	3,910	------	8,770	2,810	2,520	3,820	2,060	1,720	2,100
31	1,730	------	4,200	3,460	------	6,720	------	2,460	------	1,750	1,730	------
TOTAL	63,200	54,190	149,240	136,530	103,450	103,390	173,380	99,830	91,930	72,780	84,190	86,020
MEAN	2,039	1,806	4,814	4,404	3,695	3,335	5,779	3,220	3,064	2,348	2,716	2,867
MAX	4,980	3,120	19,200	12,700	7,300	8,770	32,800	5,580	5,380	5,630	8,610	11,500
MIN	1,630	1,580	1,760	2,550	2,900	2,440	2,810	2,460	2,130	1,750	1,610	1,700
(†)	-3	0	+23	-23	0	0	0	0	-2	0	+2	0

CAL YR 1973 TOTAL 1,358,060 MEAN 3,721 MAX 23,300 MIN 1,580 MEAN‡ 3,716 CFSM‡ 2.21 IN‡ 30.03
WTR YR 1974 TOTAL 1,218,130 MEAN 3,337 MAX 32,800 MIN 1,580 MEAN‡ 3,337 CFSM‡ 1.99 IN‡ 26.97

† Change in contents, equivalent in cubic feet per second W. Kerr Scott Reservoir; furnished by Corps of Engineers.

‡ Adjusted for change in contents in W. Kerr Scott Reservoir.

02115856 Salem Creek near Atwood, N. C.

LOCATION.--Lat 36°02'16", long 80°18'18", Forsyth County, on left bank 5 ft (1.5 m) upstream from bridge at Winston-Salem Elledge Wastewater Treatment Plant, 2,700 ft (820 m) upstream from effluent outfall, 4,100 ft (1,250 m) upstream from bridge on Secondary Road 1120, 1.4 mi (2.3 km) southeast of Atwood, and 3.4 mi (5.5 km) upstream from mouth.

DRAINAGE AREA.--64.4 mi^2 (166.8 km^2).

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

GAGE.--Water-stage recorder and concrete control since Dec. 1, 1972. Datum of gage is 693.97 ft (211.522 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 2,700 ft^3/s (76.5 m^3/s) Sept. 6 (gage height, 13.51 ft or 4.118 m); minimum, 18 ft^3/s (0.51 m^3/s) Oct. 22; minimum daily, 20 ft^3/s (0.57 m^3/s) Oct. 21, 22; minimum gage height, 1.85 ft or 0.564 m Oct. 17,22.
Period of record: Maximum discharge, 3,620 ft^3/s (103 m^3/s) May 13, 1971 (gage height, 16.30 ft or 4.968 m); minimum, 14 ft^3/s (0.40 m^3/s) Aug. 21, Sept. 30, 1971; minimum daily, 16 ft^3/s (0.45 m^3/s) Sept. 26, 29, 30, 1971; minimum gage height, 0.59 ft (0.180 m) Oct. 15, 16, 1972.

REMARKS.--Records good. Flow regulated by Salem Lake in the headwaters. The city of Winston-Salem diverted an average of 23.6 ft^3/s (0.67 m^3/s) from Salem Lake for water supply. Diurnal fluctuation at low flow caused by filtration plant and industry. Creek channel improved by dredging in 1916, 1934-35, 1961, 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	37	27	221	69	49	87	37	112	31	36	68
2	286	26	24	115	75	47	99	61	75	31	33	61
3	45	27	25	107	112	46	67	40	52	30	93	60
4	33	25	27	117	81	47	199	36	42	29	266	36
5	31	34	107	75	62	46	294	100	39	36	566	31
6	29	26	37	65	157	75	115	73	37	34	111	1,010
7	27	25	31	64	162	49	75	46	38	33	79	655
8	34	26	97	53	244	46	144	40	35	30	56	155
9	29	25	356	153	121	44	173	358	34	30	50	78
10	27	23	50	91	80	43	86	292	96	33	72	61
11	25	23	38	78	68	42	66	155	51	28	41	62
12	25	24	34	66	63	52	61	280	35	29	37	74
13	24	25	92	53	59	58	63	117	34	28	34	60
14	24	27	47	48	56	44	56	66	34	27	67	51
15	23	27	48	47	88	42	54	52	42	28	35	48
16	23	71	60	46	151	136	48	46	98	29	41	47
17	22	26	58	44	96	77	121	42	59	28	32	62
18	22	23	46	42	75	57	103	140	43	28	31	44
19	22	24	41	41	107	59	59	60	36	29	39	37
20	21	25	448	40	74	57	50	197	156	28	37	36
21	20	73	1,180	868	63	290	47	90	73	25	30	52
22	20	35	365	313	151	115	46	59	59	27	29	61
23	21	26	110	110	92	69	88	167	40	27	29	36
24	21	25	75	88	68	59	47	74	35	95	29	34
25	22	25	61	107	59	81	44	52	32	49	45	34
26	22	33	96	502	56	62	40	49	60	33	56	34
27	24	44	70	330	54	54	39	202	39	31	30	34
28	62	69	56	223	50	52	38	68	37	28	29	136
29	220	33	53	171	------	217	38	51	42	28	50	38
30	33	29	117	102	------	340	37	47	31	27	44	36
31	31	------	199	79	------	162	------	42	------	26	98	------
TOTAL	1,367	961	4,075	4,459	2,593	2,617	2,484	3,139	1,596	995	2,225	3,231
MEAN	44.1	32.0	131	144	92.6	84.4	82.8	101	53.2	32.1	71.8	108
MAX	286	73	1,180	868	244	340	294	358	156	95	566	1,010
MIN	20	23	24	40	50	42	37	36	31	25	29	31

CAL YR 1973 TOTAL 30,069 MEAN 82.4 MAX 1,180 MIN 20
WTR YR 1974 TOTAL 29,742 MEAN 81.5 MAX 1,180 MIN 20

02115860 Muddy Creek near Muddy Creek, N. C.

LOCATION.--Lat 36°00'01", long 80°20'25", Forsyth County, on right bank 100 ft (30 m) upstream from bridge on Secondary Road 2995, 0.2 mi (0.3 km) downstream from Salem Creek, and 1.8 mi (2.9 km) east of community of Muddy Creek.

DRAINAGE AREA.--178 mi^2 (461 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 682.67 ft (208.078 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 220 ft^3/s (6.23 m^3/s), 16.78 in/yr (426 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,580 ft^3/s (130 m^3/s) Dec. 21 (gage height, 15.98 ft or 4.871m); minimum, 89 ft^3/s (2.52 m^3/s) Aug. 1 (gage height, 2.35 ft or 0.716 m); minimum daily, 99 ft^3/s (2.80 m^3/s) Oct. 21.
Period of record: Maximum discharge, 14,500 ft^3/s (411 m^3/s) June 22, 1972 (gage height, 21.26 ft or 6.480 m); minimum, 21 ft^3/s (0.59 m^3/s) Oct. 6, 1968 (gage height, 1.26 ft or 0.384 m); minimum daily, 35 ft^3/s (0.99 m^3/s) Oct. 6, 1968.
Flood of June 1957 reached a stage of about 23 ft (7.01 m), from information by local resident.

REMARKS.--Records fair. Records on falling stages, following peaks above 14 ft (4.27 m), may be affected by backwater and are subject to error. Some regulation by Salem Lake and considerable diurnal fluctuation from sewage effluent and waste water. The city of Winston-Salem diverted an average of 23.6 ft^3/s (0.67 m^3/s) from Salem Lake in the basin and 25.0 ft^3/s (0.71 m^3/s) from the Yadkin River for water supply. An average of about 39.6 ft^3/s (1.12 m^3/s) sewage effluent was returned to Salem Creek 3.5 mi (5.6 km) above the station. The creek channel was dredged in 1935-36 by the Work Projects Administration.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	291	171	141	1,120	270	199	340	169	478	137	113	255
2	1,180	143	126	423	261	186	364	220	298	139	126	231
3	434	134	127	432	307	174	278	188	363	137	176	170
4	200	123	133	436	328	181	372	164	228	126	744	172
5	160	146	318	324	244	181	1,820	261	203	137	2,390	134
6	137	144	240	267	366	250	783	256	195	182	416	2,120
7	117	133	160	260	641	197	354	191	193	149	296	3,010
8	133	135	193	232	766	185	293	175	179	142	220	535
9	138	135	1,540	474	443	175	954	897	167	144	224	296
10	128	124	393	354	298	163	391	764	226	144	232	235
11	123	114	246	287	267	166	294	370	238	132	161	202
12	120	123	210	252	249	181	260	954	180	129	152	183
13	112	130	289	209	237	222	252	424	173	119	146	171
14	104	133	299	204	228	178	241	273	167	108	175	155
15	112	131	227	205	273	172	225	235	166	119	141	138
16	116	203	275	199	387	294	215	217	254	125	141	140
17	112	133	314	194	407	266	259	204	208	122	127	156
18	110	117	256	187	303	197	594	267	181	123	113	175
19	112	124	226	179	337	198	268	270	165	122	123	145
20	106	127	1,160	170	299	212	217	476	275	117	144	136
21	99	178	4,180	2,910	250	933	197	284	245	105	122	135
22	107	181	1,810	1,370	414	496	200	231	200	113	118	170
23	114	131	468	453	315	278	303	444	157	114	114	133
24	116	122	342	351	243	232	214	294	153	181	109	127
25	114	117	284	405	233	264	196	214	146	178	101	127
26	115	136	342	1,360	218	247	187	189	190	124	167	126
27	111	173	351	957	210	226	175	563	160	123	118	125
28	109	307	261	548	204	216	162	268	156	109	113	291
29	551	237	230	613	------	647	172	223	168	106	124	141
30	183	160	376	370	------	1,390	173	211	138	105	178	129
31	153	------	565	301	------	617	------	202	------	100	197	------
TOTAL	5,817	4,465	16,082	16,046	8,998	9,523	10,753	10,098	6,250	4,011	7,821	10,263
MEAN	188	149	519	518	321	307	358	326	208	129	252	342
MAX	1,180	307	4,180	2,910	766	1,390	1,820	954	478	182	2,390	3,010
MIN	99	114	126	170	204	163	162	164	138	100	101	125

CAL YR 1973 TOTAL 109,951 MEAN 301 MAX 4,180 MIN 92
WTR YR 1974 TOTAL 110,127 MEAN 302 MAX 4,180 MIN 99

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 2	1230	12.28	2,500	1-26	1500	13.29	2,900
12- 9	0700	11.68	2,300	8- 5	0700	15.01	3,860
12-21	1200	15.98	4,580	9- 6	2130	15.74	4,390
1-21	1200	15.00	3,850				

02115900 South Fork Muddy Creek near Clemmons, N. C.

LOCATION.--Lat 36°00'22", long 80°18'07", Forsyth County, on right bank 5 ft (1.5 m) upstream from bridge on Secondary Road 2902, 1.9 mi (3.1 km) downstream from Leak Creek, and 4.2 mi (6.8 km) southeast of Clemmons.

DRAINAGE AREA.--42.2 mi^2 (109.3 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 684 ft or 208.5 m (from topographic map).

AVERAGE DISCHARGE.--10 years, 43.1 ft^3/s (1.221 m^3/s), 13.87 in/yr (352 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,170 ft^3/s (33.1 m^3/s) Sept. 6 (gage height, 12.14 ft or 3.700 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Oct. 18, 21, July 21, 22, 31, Aug. 1.
Period of record: Maximum discharge, 2,980 ft^3/s (84.4 m^3/s) Aug. 10, 1970 (gage height, 16.30 ft or 4.968 m); minimum, 3.8 ft^3/s (0.11 m^3/s) Oct. 3, 1968.
In the period 1930-64, three floods equalled or exceeded 15 ft (4.57 m). The highest was about 16.3 ft (4.97 m) on Aug. 31, 1959 as a result of dam failure (from information by local resident).

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. Creek channel improvement by dredging was done in 1915-16 by the county and in 1934-35 by Work Projects Administration.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	25	21	185	59	42	79	33	75	25	19	60
2	146	22	21	85	59	41	66	42	60	24	20	37
3	52	21	21	104	71	40	59	38	50	23	20	66
4	31	21	21	98	79	39	86	34	40	23	39	33
5	27	23	45	74	55	38	163	44	38	26	294	27
6	23	21	34	62	76	46	85	50	34	30	74	621
7	22	21	25	54	154	41	66	36	32	25	52	499
8	23	21	34	45	179	38	80	34	31	23	44	129
9	24	21	213	89	97	39	158	135	30	22	42	86
10	23	20	64	71	72	40	77	179	50	25	47	70
11	22	20	43	59	65	38	66	69	35	24	34	58
12	22	21	35	49	59	38	60	128	30	23	31	49
13	21	21	48	40	57	48	62	99	30	22	30	43
14	21	21	53	39	54	40	57	60	29	20	39	38
15	21	21	42	38	53	36	55	45	31	22	33	35
16	21	25	60	37	72	52	50	40	48	22	29	34
17	20	21	69	35	80	56	58	36	45	23	28	35
18	19	20	54	34	64	40	66	70	31	22	25	38
19	20	20	44	33	72	44	51	45	29	21	26	31
20	20	20	279	32	65	50	46	70	34	20	28	29
21	19	28	955	572	55	114	44	45	42	19	24	30
22	20	33	214	133	101	71	44	40	33	19	23	39
23	20	23	106	77	67	55	48	83	29	20	22	31
24	20	22	79	64	53	50	41	55	28	30	21	26
25	20	21	66	82	50	52	39	40	25	26	32	26
26	20	22	66	360	45	53	38	37	30	22	48	25
27	20	24	69	205	44	48	36	110	31	22	23	25
28	21	31	56	129	43	46	35	50	30	21	21	78
29	99	26	51	145	------	194	35	45	34	21	21	37
30	29	22	89	83	------	310	34	40	28	20	20	27
31	24	------	90	68	------	129	------	36	------	19	39	------
TOTAL	931	678	3,067	3,181	2,000	1,968	1,884	1,868	1,092	704	1,248	2,362
MEAN	30.0	22.6	98.9	103	71.4	63.5	62.8	60.3	36.4	22.7	40.3	78.7
MAX	146	33	955	572	179	310	163	179	75	30	294	621
MIN	19	20	21	32	43	36	34	33	25	19	19	25
CFSM	.71	.53	2.34	2.44	1.69	1.50	1.48	1.43	.86	.54	.95	1.86
IN.	.82	.60	2.70	2.80	1.76	1.73	1.66	1.64	.96	.62	1.10	2.08

CAL YR 1973 TOTAL 21,962 MEAN 60.2 MAX 955 MIN 17 CFSM 1.42 IN 19.31
WTR YR 1974 TOTAL 20,983 MEAN 57.5 MAX 955 MIN 19 CFSM 1.36 IN 18.45

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	1430	12.07	1,150	9- 6	2230	12.14	1,170
1-21	1330	10.28	842				

NOTE.--No gage-height record May 15-20, May 27 to June 13, July 6 to Aug. 2.

02116500 Yadkin River at Yadkin College, N. C.

LOCATION.--Lat 35°51'24", long 80°23'10", Davidson County, near left bank on downstream end of pier of bridge on U. S. Highway 64, 1.5 mi (2.4 km) south of Yadkin College, 6.2 mi (10.0 km) downstream from Reedy Creek, and 295 mi (475 km) upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--2,280 mi^2 (5,900 km^2), approximately.

PERIOD OF RECORD.--July 1928 to current year.

GAGE.--Water-stage recorder. Datum of gage is 638.65 ft (194.661 m) above mean sea level (levels by Corps of Engineers). Prior to July 26, 1957 at site on left bank 80 ft (24 m) downstream at same datum.

AVERAGE DISCHARGE.--46 years, 2,941 ft^3/s (83.29 m^3/s), 17.52 in/yr (445 mm/yr) unadjusted.

EXTREMES.--Current year: Maximum discharge, 38,300 ft^3/s (1,080 m^3/s) Apr. 6 (gage height, 23.76 ft or 7.242 m); minimum, 1,700 ft^3/s (48.1 m^3/s) Oct. 27 (gage height, 1.68 ft or 0.512 m); minimum daily, 1,860 ft^3/s (52.7 m^3/s) Oct. 28.

Period of record: Maximum discharge, 80,200 ft^3/s (2,270 m^3/s) Aug. 15, 1940 (gage height, 33.75 ft or 10.287 m); minimum observed 177 ft^3/s (5.01 m^3/s) Oct. 12, 1954 (gage height, -0.42 ft or -0.128 m); minimum daily, 330 ft^3/s (9.35 m^3/s) Oct. 9, 1954, Sept. 23, 1956.

Flood of July 1916, reached a stage of 36.3 ft (11.06 m), from floodmarks (discharge, 94,300 ft^3/s or 2,670 m^3/s).

REMARKS.--Records good. Diurnal fluctuation during low flow caused by small hydroelectric plant with little storage capacity 10 mi (16 km) upstream. Since August 1962, some regulation by W. Kerr Scott Reservoir. (See p. 134). Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 852: 1935-37(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,320	2,030	2,530	10,200	3,990	3,480	5,360	3,260	4,070	3,500	1,990	2,320
2	4,250	2,120	2,210	8,390	3,880	3,390	4,730	3,220	4,490	2,700	1,910	2,360
3	5,750	2,050	2,110	7,000	3,950	3,340	4,170	3,380	5,630	2,580	1,920	2,360
4	3,780	1,970	2,080	5,630	4,540	3,210	6,130	3,470	3,890	2,590	4,000	3,520
5	2,970	2,020	2,220	5,270	4,100	3,230	26,900	3,370	3,330	2,470	14,700	3,740
6	2,420	2,000	7,880	4,780	3,630	3,370	32,800	3,680	3,020	3,130	6,930	5,090
7	2,300	1,980	5,750	4,310	4,960	3,340	13,300	3,720	3,000	5,190	5,590	17,700
8	2,260	1,930	4,060	3,920	5,610	3,300	10,400	3,380	4,900	4,390	4,420	9,950
9	2,360	1,920	6,210	4,120	6,260	3,070	10,600	4,640	4,600	3,620	4,870	5,570
10	2,310	1,940	7,860	4,900	4,710	3,000	6,330	6,370	3,500	3,050	4,520	3,620
11	2,250	1,900	4,620	4,360	4,050	2,940	4,920	4,390	3,700	2,790	4,060	3,120
12	2,190	1,900	3,330	4,130	3,780	2,940	4,630	4,320	3,600	2,760	3,240	3,740
13	2,150	1,940	3,060	3,740	3,570	3,180	4,770	6,230	3,300	2,710	3,030	3,180
14	2,100	1,980	3,320	3,390	3,350	3,450	5,040	5,280	3,000	2,460	3,010	2,850
15	2,040	1,940	3,020	3,240	3,480	3,310	4,920	4,480	3,100	2,340	2,770	2,640
16	1,990	1,960	2,980	3,290	3,690	2,970	4,500	3,640	3,500	2,290	2,550	2,580
17	1,940	1,940	3,380	3,220	4,480	3,190	4,370	3,360	3,700	2,250	2,480	2,450
18	1,940	1,900	3,160	3,040	4,150	3,020	5,660	3,250	3,100	2,270	2,460	2,540
19	1,920	1,890	2,670	2,970	4,050	2,920	4,360	3,680	2,800	2,180	2,390	2,590
20	1,900	1,880	3,560	2,940	4,190	3,060	3,970	4,300	2,660	2,150	2,610	2,290
21	1,920	1,900	17,100	12,500	3,840	4,580	3,790	4,000	3,710	2,200	2,830	2,230
22	1,930	2,150	16,100	18,500	4,210	7,750	3,720	3,450	3,610	2,340	2,340	2,330
23	1,900	2,480	6,340	6,870	6,860	4,840	3,980	3,700	3,270	2,150	2,190	2,180
24	1,890	2,210	4,520	4,830	6,220	4,050	4,290	4,620	3,000	2,040	2,190	2,090
25	1,900	2,100	3,610	4,590	4,760	3,570	3,940	3,750	2,700	2,610	2,140	2,060
26	1,890	2,000	3,460	6,160	3,910	3,350	3,460	3,310	2,650	2,270	2,170	2,080
27	1,880	2,060	16,700	6,900	3,650	3,240	3,450	3,900	2,700	2,340	2,120	2,060
28	1,860	2,340	13,500	6,210	3,570	3,230	3,570	3,910	2,700	2,930	2,010	2,320
29	2,480	3,070	8,080	6,600	------	3,870	3,380	3,380	3,500	2,530	2,010	2,850
30	2,520	3,160	8,600	5,350	------	11,400	3,360	3,140	4,500	2,500	2,110	2,730
31	2,160	------	5,290	4,270	------	10,600	------	3,020	------	2,140	2,170	------
TOTAL	73,470	62,660	179,310	175,620	121,440	124,190	204,800	121,600	105,230	83,470	103,730	107,140
MEAN	2,370	2,089	5,784	5,665	4,337	4,006	6,827	3,923	3,508	2,693	3,346	3,571
MAX	5,750	3,160	17,100	18,500	6,860	11,400	32,800	6,370	5,630	5,190	14,700	17,700
MIN	1,860	1,880	2,080	2,940	3,350	2,920	3,360	3,020	2,650	2,040	1,910	2,060
(†)	-3	0	+23	-23	0	0	0	0	-2	0	+2	0

CAL YR 1973 TOTAL 1,650,740 MEAN 4,523 MAX 31,200 MIN 1,860 MEAN‡ 4,518 CFSM‡ 1.98 IN‡ 26.90
WTR YR 1974 TOTAL 1,462,660 MEAN 4,007 MAX 32,800 MIN 1,860 MEAN‡ 4,007 CFSM‡ 1.76 IN‡ 23.86

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir; furnished by Corps of Engineers.

‡ Adjusted for change in W. Kerr Scott Reservoir.

02117030 Humpy Creek near Fork, N. C.

LOCATION.--Lat 35°51'17", long 80°26'24", Davie County, on left bank 9 ft (3 m) upstream from culvert on Secondary Road 1813, 1.9 mi (3.1 km) south of Fork, and 2.3 mi (3.7 km) upstream from mouth.

DRAINAGE AREA.--1.05 mi^2 (2.72 km^2).

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

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Altitude of gage is 695 ft or 212 m (from topographic map).

AVERAGE DISCHARGE.--6 years, 1.10 ft^3/s (0.031 m^3/s), 14.23 in/yr (361 mm/yr).

EXTREMES.--Current year: Maximum discharge, 81 ft^3/s (2.29 m^3/s) May 9 (gage height, 2.57 ft or 0.783 m), from rating curve extended as explained below; minimum, 0.34 ft^3/s (0.010 m^3/s) Aug. 28, 30 (gage height, 0.56 ft or 0.171 m).
Period of record: Maximum discharge, 161 ft^3/s (4.56 m^3/s) Oct. 25, 1971 (gage height, 4.57 ft or 1.393 m), from rating curve extended above 65 ft^3/s (1.84 m^3/s) on basis of computation of flow through culvert; minimum daily, 0.12 ft^3/s (0.003 m^3/s) Oct. 1-6, 1968.
A discharge of 0.08 ft^3/s (0.002 m^3/s) was measured on Sept. 23, 1968.

REMARKS.--Records fair. Diurnal fluctuation at low flow during growing season. Recording rain gage discontinued Mar. 14, 1974. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.85	.55	.51	4.6	1.3	1.0	2.0	.84	.80	.63	.49	.64
2	2.5	.50	.52	1.9	1.4	.96	1.6	.95	1.9	.59	.56	.57
3	.76	.50	.52	3.9	1.6	.93	1.4	.88	1.2	.56	.64	1.1
4	.61	.50	.50	2.3	1.6	.92	3.2	.84	.88	.70	2.0	.60
5	.55	.50	.86	1.7	1.3	.90	4.6	1.6	.80	.69	14	.53
6	.50	.47	.62	1.4	1.8	1.0	2.1	1.2	.78	.68	1.4	7.7
7	.50	.47	.55	1.3	2.2	.95	1.6	.91	.81	.65	1.0	2.3
8	.55	.47	.78	1.0	4.5	.90	3.0	.88	.76	.62	.91	1.2
9	.55	.50	2.2	1.8	2.1	.93	3.2	10	.72	.59	.84	.92
10	.55	.47	.86	1.5	1.5	.93	1.9	11	.73	.57	.74	.76
11	.52	.47	.67	1.4	1.4	.91	1.6	2.1	.70	.56	.67	.65
12	.50	.47	.61	1.1	1.2	1.0	1.4	2.3	.65	.54	.63	.68
13	.50	.50	.94	.98	1.1	1.0	1.5	1.6	.63	.52	.58	.70
14	.47	.50	.88	.95	1.1	.93	1.4	1.2	.64	.52	.56	.62
15	.47	.50	.86	.91	1.1	.89	1.2	1.0	.78	.52	.55	.59
16	.47	.52	1.2	.88	1.8	1.3	1.1	.92	.87	.93	.74	.56
17	.42	.47	1.1	.84	1.6	1.2	1.1	.84	.73	.57	.61	.68
18	.44	.50	.89	.79	1.4	1.0	1.1	.80	.63	.55	.54	.62
19	.44	.47	.79	.78	1.6	1.2	1.0	.82	.60	.54	.55	.55
20	.44	.46	8.0	.81	1.2	1.2	.98	.82	2.2	.52	.52	.52
21	.44	.46	15	18	1.2	3.3	.97	.80	1.1	.54	.50	.62
22	.47	.54	2.5	2.8	3.4	1.8	.96	.77	.90	.52	.49	.68
23	.47	.54	1.5	1.7	1.8	1.4	1.0	4.1	.71	.54	.47	.57
24	.47	.52	1.2	1.5	1.5	1.3	.90	1.4	.64	1.6	.47	.54
25	.44	.52	1.1	1.9	1.3	1.3	.91	1.0	.60	1.2	.45	.55
26	.44	.52	1.2	5.5	1.2	1.3	.88	.97	.65	.73	.46	.52
27	.44	.58	1.2	3.0	1.1	1.2	.88	2.7	.73	.65	.44	.51
28	.55	.62	.95	6.1	1.0	1.2	.84	1.3	.83	.59	.49	.98
29	1.0	.53	.89	3.2	------	14	.84	1.0	.80	.55	.46	.61
30	.55	.50	1.3	1.8	------	13	.84	.95	.66	.51	.43	.52
31	.55	------	2.3	1.5	------	3.3	------	.85	------	.48	.43	------
TOTAL	18.41	15.12	53.00	77.84	45.3	63.15	46.00	57.34	25.43	19.96	33.62	28.59
MEAN	.59	.50	1.71	2.51	1.62	2.04	1.53	1.85	.85	.64	1.08	.95
MAX	2.5	.62	15	18	4.5	14	4.6	11	2.2	1.6	14	7.7
MIN	.42	.46	.50	.78	1.0	.89	.84	.77	.60	.48	.43	.51
CFSM	.56	.48	1.63	2.39	1.54	1.94	1.46	1.76	.81	.61	1.03	.90
IN.	.65	.54	1.88	2.76	1.60	2.24	1.63	2.03	.90	.71	1.19	1.01

CAL YR 1973 TOTAL 546.18 MEAN 1.50 MAX 34 MIN .38 CFSM 1.43 IN 19.35
WTR YR 1974 TOTAL 483.76 MEAN 1.33 MAX 18 MIN .42 CFSM 1.27 IN 17.14

PEAK DISCHARGE (BASE, 40 CFS, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-21	0525	2.02	43	5- 9	2345	2.57	81
3-29	1835	2.39	67	8- 5	0500	2.33	63

02118000 South Yadkin River near Mocksville, N. C.

LOCATION.--Lat 35°50'39", long 80°39'38", Rowan County, on right bank at downstream side of bridge on Secondary Road 1972, 1 mi (2 km) upstream from Little Creek, 4 mi (6.4 km) downstream from Fifth Creek, 4.5 mi (7.2 km) upstream from Hunting Creek, and 6.5 mi (10.5 km) southwest of Mocksville.

DRAINAGE AREA.--313 mi^2 (811 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 663.6 ft (202.265 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 335 ft^3/s (9.487 m^3/s), 14.53 in/yr (369 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,290 ft^3/s (93.2 m^3/s) Apr. 6 (gage height, 10.18 ft or 3.103 m); minimum, 146 ft^3/s (4.13 m^3/s) Aug. 1, 2 (gage height, 2.08 ft or 0.634 m).
Period of record: Maximum discharge, 11,800 ft^3/s (334 m^3/s) Oct. 17, 1964 (gage height, 18.23 ft or 5.557 m); minimum, 30 ft^3/s (0.85 m^3/s) Aug. 14, 16, 1956.
The flood of Oct. 3, 1929 reached a stage of 22.6 ft (6.89 m), from floodmark established by local resident (discharge, about 22,000 ft^3/s or about 620 m^3/s).

REMARKS.--Records good. The city of Statesville diverted an average of 9.9 ft^3/s (0.28 m^3/s) for water supply and waste-treatment dilution. The Alexander Water Corporation withdraws an average of 1.1 ft^3/s (0.031 m^3/s) for water supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	206	199	224	1,170	468	353	820	307	308	234	148	172
2	332	196	212	735	444	346	621	302	316	221	179	198
3	416	187	202	815	492	337	552	329	302	213	179	212
4	242	185	199	665	470	331	723	321	280	205	331	497
5	210	185	264	620	409	324	2,240	351	266	216	1,820	400
6	192	185	669	524	403	343	3,090	478	260	305	631	590
7	181	183	380	469	570	352	1,410	379	264	355	349	1,640
8	185	181	287	419	740	324	746	327	273	332	328	830
9	185	183	434	415	708	315	888	727	268	258	540	435
10	187	183	512	435	546	307	654	933	256	231	859	346
11	187	179	361	408	478	302	561	560	351	224	444	297
12	183	179	296	392	430	299	512	537	290	213	328	271
13	179	181	277	358	408	377	509	683	248	203	285	253
14	176	183	338	338	390	360	551	506	239	194	255	253
15	172	183	306	330	379	318	486	416	266	188	231	230
16	170	192	325	323	422	327	446	380	346	224	238	224
17	162	192	408	314	520	355	422	352	380	195	230	218
18	159	185	361	303	445	323	413	326	291	183	220	224
19	161	183	305	294	443	320	400	318	253	178	224	219
20	165	183	489	290	472	361	384	333	239	174	257	203
21	165	187	1,620	1,990	416	692	374	328	268	172	216	196
22	165	224	1,190	2,690	499	1,050	365	319	268	172	198	216
23	165	224	555	1,160	570	578	406	595	272	168	191	204
24	168	201	438	614	474	469	407	584	239	175	185	191
25	168	201	380	610	429	430	357	378	225	206	181	187
26	165	198	448	954	395	421	345	323	230	208	206	187
27	165	229	1,520	895	371	390	337	506	240	183	183	184
28	168	252	1,130	720	362	374	330	420	252	221	174	302
29	240	329	564	798	------	909	323	337	273	197	172	368
30	256	261	589	616	------	2,700	315	318	270	170	181	240
31	201	------	620	521	------	2,170	------	314	------	157	178	------
TOTAL	6,076	6,013	15,903	21,185	13,153	16,857	19,987	13,287	8,233	6,575	10,141	9,987
MEAN	196	200	513	683	470	544	666	429	274	212	327	333
MAX	416	329	1,620	2,690	740	2,700	3,090	933	380	355	1,820	1,640
MIN	159	179	199	290	362	299	315	302	225	157	148	172
CFSM	.63	.64	1.64	2.18	1.50	1.74	2.13	1.37	.88	.68	1.04	1.06
IN.	.72	.71	1.89	2.52	1.56	2.00	2.38	1.58	.98	.78	1.21	1.19

CAL YR 1973 TOTAL 187,206 MEAN 513 MAX 5,100 MIN 159 CFSM 1.64 IN 22.25
WTR YR 1974 TOTAL 147,397 MEAN 404 MAX 3,090 MIN 148 CFSM 1.29 IN 17.52

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-22	1500	9.12	2,760	4- 6	1400	10.18	3,290
3-30	1230	9.24	2,820				

02118500 Hunting Creek near Harmony, N. C.

LOCATION.--Lat 36°00'01", long 80°44'45", Iredell County, on right bank at downstream side of bridge on Secondary Road 2115, 0.8 mi (1.3 km) downstream from Kennedy Creek, 1 mi (2km) east of Houstonville, 2 mi (3 km) downstream from U. S. Highway 21, and 3.5 mi (5.6 km) northeast of Harmony.

DRAINAGE AREA.--153 mi^2 (396 km^2).

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1723.

GAGE.--Water-stage recorder. Datum of gage is 734.78 ft (223.961 m) above mean sea level, unadjusted. Prior to Apr. 5, 1951, nonrecording gage on upstream side of bridge at same datum.

AVERAGE DISCHARGE.--24 years, 200 ft^3/s (5.664 m^3/s), 17.75 in/yr (451 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,470 ft^3/s (127 m^3/s) Sept. 6 (gage height, 13.21 ft or 4.026 m); minimum, 105 ft^3/s (2.97 m^3/s) Aug. 1 (gage height, 1.28 ft or 0.390 m).
Period of record: Maximum discharge, 12,700 ft^3/s (360 m^3/s) June 21, 1972 (gage height, 24.30 ft or 7.407 m, from high-water mark in well); minimum, 18 ft^3/s (0.51 m^3/s) Oct. 8, 1954.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	138	135	552	265	229	391	221	273	154	116	145
2	306	126	124	389	258	225	352	229	213	147	120	151
3	216	119	117	345	262	223	314	250	200	143	139	187
4	157	121	115	377	271	218	1,380	225	188	141	271	441
5	142	126	622	335	238	216	2,690	257	181	168	843	178
6	132	127	473	301	252	265	721	303	181	280	251	1,610
7	127	118	229	286	316	234	454	236	214	187	213	1,220
8	146	119	175	260	403	219	414	221	210	162	321	348
9	181	121	453	289	359	210	441	328	192	153	357	249
10	141	114	326	290	297	204	355	345	186	148	341	209
11	140	112	209	273	271	196	333	268	197	152	202	186
12	134	114	165	265	250	202	321	363	173	144	175	172
13	132	116	172	238	241	253	366	380	167	136	238	165
14	131	117	187	230	237	206	342	273	164	132	166	159
15	127	117	152	228	234	192	325	238	180	128	150	156
16	123	121	171	223	257	199	301	221	243	126	181	156
17	119	115	201	218	294	200	294	209	202	125	204	159
18	115	113	157	210	273	182	288	216	171	126	149	176
19	118	114	141	207	280	179	279	262	161	123	151	151
20	118	113	579	208	288	194	270	397	161	123	148	145
21	118	120	1,540	2,020	254	657	264	245	175	124	138	142
22	117	155	495	641	363	500	264	228	234	123	130	145
23	118	126	312	382	351	317	316	300	180	119	126	138
24	117	119	250	322	294	266	270	269	160	136	123	133
25	116	116	222	325	269	239	248	217	155	211	120	132
26	115	117	1,100	363	244	229	249	202	169	137	120	132
27	113	170	1,320	420	236	212	242	299	169	201	117	129
28	119	246	456	380	232	207	237	229	180	146	116	304
29	228	242	334	370	------	582	233	206	196	126	120	207
30	145	155	314	311	------	1,290	226	208	167	116	161	152
31	130	------	313	283	------	614	------	199	------	109	125	------
TOTAL	4,435	3,947	11,559	11,541	7,789	9,359	13,180	8,044	5,642	4,546	6,132	7,977
MEAN	143	132	373	372	278	302	439	259	188	147	198	266
MAX	306	246	1,540	2,020	403	1,290	2,690	397	273	280	843	1,610
MIN	113	112	115	207	232	179	226	199	155	109	116	129
CFSM	.93	.86	2.44	2.43	1.82	1.97	2.87	1.69	1.23	.96	1.29	1.74
IN.	1.08	.96	2.81	2.81	1.89	2.28	3.20	1.96	1.37	1.11	1.49	1.94

CAL YR 1973 TOTAL 194,280 MEAN 532 MAX 5,170 MIN 112 CFSM 3.48 IN 47.24
WTR YR 1974 TOTAL 94,151 MEAN 258 MAX 2,690 MIN 109 CFSM 1.69 IN 22.89

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-21	0930	8.18	2,030	4- 4	2230	12.35	3,990
12-26	2230	10.73	3,180	8- 5	0400	8.61	2,220
1-21	1200	11.95	3,780	9- 6	2300	13.21	4,470

02125000 Big Bear Creek near Richfield, N. C.

LOCATION.--Lat 35°20'02", long 80°20'09", Stanly County, on left bank 300 ft (91 m) downstream from Little Creek, 400 ft (122 m) upstream from bridge on Secondary Road 1134, and 10 mi (16 km) southwest of Richfield.

DRAINAGE AREA.--55.7 mi^2 (144 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 426.62 ft (130.034 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--20 years, 55.1 ft^3/s (1.560 m^3/s), 13.43 in/yr (341 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,730 ft^3/s (50.0 m^3/s) Apr. 5 (gage height, 6.66 ft or 2.030 m); minimum daily, 0.30 ft^3/s (0.008 m^3/s) Oct. 23-27, Nov. 6-8, 29, Dec. 1-4; minimum gage height, 0.76 ft (0.232 m) Oct. 18.

Period of record: Maximum discharge, 11,100 ft^3/s (314 m^3/s) Aug. 22, 1967 (gage height, 15.95 ft or 4.862 m); no flow at times 1954, 1961-64, 1966-69, 1972.

Flood of August 1921 reached a stage of about 19 ft (5.8 m), from information by North Carolina State Highway Commission.

REMARKS.--Records good except those below 1 ft^3/s (0.03 m^3/s), which are poor.

REVISIONS (WATER YEARS).--WSP 1503: 1955, 1956(M). WSP 1553: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.50	.30	74	67	31	63	10	71	5.4	.77	2.0
2	1.4	.40	.30	69	252	28	43	9.5	93	4.5	114	4.3
3	1.4	.40	.30	76	684	25	33	14	73	3.8	24	1.9
4	1.1	.40	.30	70	372	23	280	11	30	3.4	7.4	1.7
5	.90	.40	.40	77	152	21	768	11	20	8.6	8.3	1.4
6	.70	.30	.50	61	115	19	180	15	16	27	9.1	21
7	.50	.30	.40	90	211	18	92	12	14	13	6.2	119
8	.50	.30	.60	64	562	16	81	9.3	12	20	27	25
9	.60	.40	4.6	62	241	15	247	14	11	10	18	12
10	.60	.40	2.6	71	133	14	104	205	9.3	23	8.8	8.0
11	.60	.40	1.4	56	93	13	65	44	8.1	7.2	5.7	6.0
12	.50	.40	1.1	43	69	13	49	123	7.5	5.2	4.2	4.9
13	.40	.40	1.2	30	57	14	140	87	7.0	4.1	3.4	4.2
14	.40	.40	1.6	25	52	13	113	32	6.6	3.4	2.8	3.7
15	.40	.40	1.6	25	51	11	69	19	6.5	3.0	6.9	3.4
16	.40	.40	2.8	24	227	13	45	14	34	2.6	6.7	3.3
17	.50	.40	6.3	21	266	16	66	11	33	2.3	4.2	3.5
18	.40	.40	5.4	17	132	14	192	9.5	11	2.0	3.2	3.6
19	.40	.40	4.9	15	127	13	76	74	7.8	1.9	26	3.1
20	.40	.40	51	15	160	18	48	263	6.7	1.8	11	2.7
21	.40	.40	205	460	94	21	36	60	6.5	1.6	4.9	2.5
22	.40	.40	56	169	220	24	30	34	5.9	1.7	3.8	2.5
23	.30	.40	28	87	145	18	26	319	5.3	1.6	3.1	2.3
24	.30	.40	18	62	90	16	22	174	5.1	1.6	2.7	2.1
25	.30	.40	12	256	65	16	18	65	4.3	1.6	2.4	2.1
26	.30	.40	9.9	238	48	23	17	36	4.6	1.5	2.4	2.1
27	.30	.40	8.4	207	41	25	15	144	9.7	1.4	2.1	2.1
28	.40	.40	13	293	35	23	13	73	5.7	1.3	1.7	17
29	2.7	.30	148	425	------	111	12	40	15	1.2	1.5	9.8
30	1.5	.37	679	155	------	302	11	29	7.4	1.0	1.4	4.6
31	.60	------	142	95	------	132	------	21	------	.88	1.3	------
TOTAL	20.70	11.67	1,406.90	3,432	4,761	1,059	2,954	1,982.3	547.0	167.58	324.97	281.8
MEAN	.67	.39	45.4	111	170	34.2	98.5	63.9	18.2	5.41	10.5	9.39
MAX	2.7	.50	679	460	684	302	768	319	93	27	114	119
MIN	.30	.30	.30	15	35	11	11	9.3	4.3	.88	.77	1.4
CFSM	.01	.007	.82	1.99	3.05	.61	1.77	1.15	.33	.10	.19	.17
IN.	.01	.007	.94	2.29	3.18	.71	1.97	1.32	.37	.11	.22	.19

CAL YR 1973 TOTAL 23,025.21 MEAN 63.1 MAX 2,310 MIN .30 CFSM 1.13 IN 15.38
WTR YR 1974 TOTAL 16,948.92 MEAN 46.4 MAX 768 MIN .30 CFSM .83 IN 11.32

PEAK DISCHARGE (BASE, 2,400 CFS).--No peak above base.

02126000 Rocky River near Norwood, N. C.

LOCATION.--Lat 35°08'50", long 80°10'26", Stanly County, on left bank 1,000 ft (300 m) downstream from Lanes Creek, 1.5 mi (2.4 km) upstream from bridge on Secondary Road 1935, 6 mi (10 km) southwest of Norwood, and 11.2 mi (18.0 km) upstream from mouth.

DRAINAGE AREA.--1,370 mi^2 (3,550 km^2), approximately.

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 212.91 ft (64.895 m) above mean sea level, (levels by Corps of Engineers).

AVERAGE DISCHARGE.--45 years, 1,296 ft^3/s (36.70 m^3/s), 12.85 in/yr (326 mm/yr).

EXTREMES.--Current year: Maximum discharge, 16,800 ft^3/s (476 m^3/s) Feb. 8 (gage height, 13.72 ft or 4.182 m); minimum, 91 ft^3/s (2.58 m^3/s) Oct. 23 (gage height, 0.46 ft or 0.140 m); minimum daily, 94 ft^3/s (2.66 m^3/s) Oct. 23.

Period of record: Maximum discharge, 105,000 ft^3/s (2,970 m^3/s) Sept. 18, 1945 (gage height, 46.37 ft or 14.134 m, from floodmark); minimum, 17 ft^3/s (0.48 m^3/s) Oct. 8, 1954 (gage height, 0.00 ft or 0.000 m).

Flood in August 1908 reached a stage of 35 ft (10.7 m), from information by local residents (discharge, 67,600 ft^3/s or 1,910 m^3/s).

REMARKS.--Records good. Some low flow regulation in October and November.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 852: 1937. WSP 1052: 1936(M). WSP 1503: 1935, 1945.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	184	152	9,890	1,720	861	2,340	317	419	292	267	139
2	185	150	137	7,110	3,030	788	1,310	309	818	207	1,780	2,100
3	207	146	121	2,470	11,400	706	978	318	1,460	178	5,960	462
4	224	137	120	1,420	9,860	634	1,970	460	688	163	1,430	333
5	177	119	137	1,390	4,240	601	13,500	400	451	170	3,600	217
6	144	108	149	1,210	2,540	610	11,900	417	363	384	4,610	2,410
7	128	111	205	1,370	4,450	565	3,590	565	322	789	1,190	9,840
8	112	117	202	1,570	12,200	504	1,800	416	313	1,700	1,460	3,590
9	103	124	205	1,000	9,710	478	3,360	443	296	847	2,500	1,330
10	109	123	413	1,040	4,010	448	2,920	1,700	255	525	2,090	680
11	121	121	349	994	2,590	419	1,590	1,900	234	414	942	488
12	126	109	222	820	1,730	403	1,140	942	236	286	526	385
13	122	105	188	654	1,330	421	1,060	3,320	241	231	396	321
14	119	111	190	538	1,170	419	2,180	1,330	212	191	653	330
15	106	124	229	512	1,210	395	1,610	687	203	164	370	287
16	99	132	235	526	2,860	387	1,150	503	528	154	648	233
17	106	135	317	505	8,460	453	861	417	2,020	154	566	805
18	110	135	513	468	4,030	488	2,340	355	637	151	400	3,190
19	111	123	407	419	2,710	425	1,500	342	348	148	300	690
20	108	114	410	382	3,340	617	946	3,580	385	141	270	400
21	107	123	4,080	6,610	2,320	671	736	935	2,320	346	260	300
22	101	137	3,960	8,130	3,670	764	627	545	734	836	250	220
23	94	148	1,220	3,580	5,280	697	578	2,240	329	254	219	190
24	100	147	646	1,670	2,660	526	539	4,340	244	180	270	170
25	105	143	467	3,980	1,760	486	480	1,380	229	169	211	160
26	109	130	385	5,250	1,290	647	434	733	212	156	176	155
27	109	125	349	4,980	1,060	730	405	1,630	247	154	163	153
28	106	137	358	3,510	941	638	374	1,970	243	281	157	150
29	113	150	331	10,200	------	991	342	942	379	307	157	150
30	203	154	310	5,120	------	7,220	327	637	529	197	151	150
31	246	------	2,430	2,770	------	5,340	------	518	------	653	145	------
TOTAL	4,055	3,922	19,437	90,088	111,571	29,332	62,887	34,591	15,895	10,822	32,117	30,028
MEAN	131	131	627	2,906	3,985	946	2,096	1,116	530	349	1,036	1,001
MAX	246	184	4,080	10,200	12,200	7,220	13,500	4,340	2,320	1,700	5,960	9,840
MIN	94	105	120	382	941	387	327	309	203	141	145	139
CFSM	.10	.10	.46	2.12	2.91	.69	1.53	.81	.39	.25	.76	.73
IN.	.11	.11	.53	2.45	3.03	.80	1.71	.94	.43	.29	.87	.82

CAL YR 1973 TOTAL 598,565 MEAN 1,640 MAX 52,700 MIN 94 CFSM 1.20 IN 16.25
WTR YR 1974 TOTAL 444,745 MEAN 1,218 MAX 13,500 MIN 94 CFSM .89 IN 12.08

PEAK DISCHARGE (BASE, 16,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 8	1700	13.72	16,800	4- 5	1400	13.62	16,600

02128000 Little River near Star, N. C.

LOCATION.--Lat 35°23'11", long 79°49'56", Montgomery County, on left bank 9 ft (3 m) downstream from bridge on Secondary Road 1340, 50 ft (15 m) upstream from Black Rock Branch, 0.2 mi (0.3 km) upstream from Norfolk Southern Railway bridge, 0.3 mi (0.5 km) downstream from West Fork Little River, and 3 mi (5 km) west of Star.

DRAINAGE AREA.--105 mi^2 (272 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-54. April 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 409.00 ft (124.663 m) above mean sea level.

AVERAGE DISCHARGE.--20 years, 106 ft^3/s (3.002 m^3/s), 13.71 in/yr (348 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,460 ft^3/s (69.7 m^3/s) Sept. 7 (gage height, 7.59 ft or 2.313 m); minimum, 5.1 ft^3/s (0.14 m^3/s) Oct. 22, 23, 24-26; minimum gage height, 1.23 ft (0.375 m) Oct. 19, 21, 22, 23.
Period of record: Maximum discharge, 10,400 ft^3/s (295 m^3/s) Oct. 15, 1954 (gage height, 16.46 ft or 5.017 m); minimum, 0.24 ft^3/s (0.007 m^3/s) Oct. 4, 5, 1968 (gage height, 0.68 ft or 0.207 m), may be affected by upstream storage releases for water supply.
Flood in September 1945 reached a stage of about 20 ft (6.1 m), from information by local resident.

REMARKS.--Records good except those below 20 ft^3/s (0.56 m^3/s), which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	13	11	910	96	85	142	63	65	48	31	27
2	12	11	11	235	145	83	112	61	65	40	42	98
3	13	9.7	11	102	633	81	99	70	65	35	102	79
4	12	9.7	11	84	453	78	98	72	59	32	77	85
5	12	9.2	13	89	188	76	1,030	66	53	38	145	52
6	11	9.2	16	81	127	75	288	82	51	208	149	449
7	11	9.2	17	93	245	73	151	79	49	99	75	1,530
8	9.7	9.7	26	83	634	72	125	63	47	278	60	229
9	9.7	10	118	74	375	71	327	80	46	69	84	106
10	9.7	10	86	89	170	71	183	397	45	46	74	75
11	9.7	9.7	39	81	128	68	124	144	45	39	53	60
12	8.7	10	27	67	107	70	109	140	40	34	45	52
13	8.7	10	26	58	97	76	165	183	37	31	41	46
14	8.7	11	31	52	94	72	443	97	49	28	38	42
15	8.2	11	28	51	98	66	167	75	62	26	37	39
16	7.8	12	38	51	128	71	121	67	66	25	64	37
17	7.3	12	97	50	245	130	103	62	124	22	51	37
18	6.5	12	73	47	155	96	151	59	66	21	41	40
19	6.1	12	40	46	126	79	125	66	46	20	35	37
20	6.1	12	69	45	214	91	100	73	41	19	35	35
21	5.8	12	338	722	139	105	90	66	42	929	35	33
22	5.4	12	130	401	261	144	87	61	39	151	32	33
23	5.4	14	63	128	318	93	85	318	37	62	29	31
24	5.1	16	45	93	141	82	80	337	47	45	28	32
25	5.1	16	39	162	114	85	75	101	39	37	28	30
26	5.4	13	36	229	99	102	73	75	55	34	26	29
27	5.4	12	36	137	90	105	72	469	81	61	24	28
28	5.4	12	35	179	87	98	69	184	72	164	23	43
29	6.9	12	32	610	------	157	67	97	105	51	22	83
30	7.8	12	36	193	------	672	65	79	73	40	20	39
31	8.2	------	156	120	------	297	------	70	------	34	18	------
TOTAL	255.8	343.4	1,734	5,362	5,707	3,524	4,926	3,856	1,711	2,766	1,564	3,536
MEAN	8.25	11.4	55.9	173	204	114	164	124	57.0	89.2	50.5	118
MAX	13	16	338	910	634	672	1,030	469	124	929	149	1,530
MIN	5.1	9.2	11	45	87	66	65	59	37	19	18	27
CFSM	.08	.11	.53	1.65	1.94	1.09	1.56	1.18	.54	.85	.48	1.12
IN.	.09	.12	.61	1.90	2.02	1.25	1.75	1.37	.61	.98	.55	1.25

CAL YR 1973 TOTAL 47,485.2 MEAN 130 MAX 3,870 MIN 5.1 CFSM 1.24 IN 16.82
WTR YR 1974 TOTAL 35,285.2 MEAN 96.7 MAX 1,530 MIN 5.1 CFSM .92 IN 12.50

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
7-21	1200	7.41	2,350	9- 7	0230	7.59	2,460

02129000 Pee Dee River near Rockingham, N. C.

LOCATION.--34°56'46", long 79°52'11", Richmond County, on left bank at bridge on U. S. Highway 74, 2.5 mi (4.0 km) upstream from Falling Creek, 3.3 mi (5.3 km) downstream from Blewett Falls hydroelectric plant, 6 mi (10 km) west of Rockingham, and 192 mi (309 km) upstream from mouth in Winyah Bay.

DRAINAGE AREA.--6,870 mi^2 (17,790 km^2), approximately.

PERIOD OF RECORD.--August 1906 to January 1912, October 1927 to current year. Published as Yadkin River near Pee Dee, N. C., August 1906 to January 1912.

GAGE.--Water-stage recorder. Datum of gage is 120.68 ft (36.783 m) above mean sea level (levels by Corps of Engineers). August 1906 to January 1912 nonrecording gage at site 3.3 mi (5.3 km) upstream at different datum. September 1927 to Sept. 30, 1931, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--52 years (1906-11, 1927-74), 7,867 ft^3/s (222.8 m^3/s), 15.55 in/yr (395 mm/yr) unadjusted.

EXTREMES.--Current year: Maximum discharge, 58,600 ft^3/s (1,660 m^3/s) Apr. 6 (gage height, 10.84 ft or 3.304 m); minimum, 230 ft^3/s (6.51 m^3/s) May 1 (gage height, 0.82 ft or 0.250 m); minimum daily, 341 ft^3/s (9.66 m^3/s) July 28.

Period of record: Maximum discharge, 276,000 ft^3/s (7,820 m^3/s) Aug. 27, 1908 (gage height, 31.28 ft or 9.534 m, present site and datum, from records of State Highway Commission); minimum, 50 ft^3/s (1.42 m^3/s) Dec. 2, 3, 1951; minimum daily, 58 ft^3/s (1.64 m^3/s) Dec. 2, 1951, result of abnormally low shutdown of Blewett Falls hydroelectric plant to produce steady flow for current-meter measurements at this gaging station; minimum discharge from normal regulations, 96 ft^3/s (2.72 m^3/s) Oct. 25, 1943; minimum daily, 120 ft^3/s (3.40 m^3/s) Oct. 8, 1961.

REMARKS.--Records good. Flow regulated since 1928 by Blewett Falls Lake and five other reservoirs upstream. (See p. 135). Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1203: 1928-37. WSP 1303: 1928-42 (monthly and yearly runoff), 1943-46 (adjusted monthly runoff). WSP 1503: 1906-12, 1928-32(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,800	5,570	1,320	26,000	13,200	12,100	15,000	3,330	12,200	5,570	5,430	498
2	5,530	5,440	445	32,500	12,500	11,200	14,200	6,580	8,840	7,510	5,370	1,100
3	6,980	4,710	5,560	25,200	26,100	11,000	13,400	5,190	4,520	8,310	8,730	8,130
4	4,710	2,440	5,490	18,300	31,000	10,600	12,800	4,320	7,960	2,100	9,950	9,850
5	4,790	4,630	5,320	14,400	20,700	10,900	33,700	5,340	9,280	5,460	7,640	6,850
6	711	4,790	5,980	12,500	16,000	10,600	51,800	10,100	10,300	3,060	24,500	10,300
7	600	5,750	5,880	10,400	16,400	10,400	50,400	10,100	9,120	3,020	24,500	29,900
8	4,840	5,310	3,450	9,900	23,600	10,200	28,800	9,880	4,150	9,520	16,700	28,900
9	5,050	6,650	625	10,300	32,200	10,100	25,200	8,580	3,990	11,600	14,600	15,300
10	5,150	3,250	3,380	11,200	21,100	10,100	25,700	8,810	4,680	10,600	14,400	10,300
11	4,880	1,490	5,800	11,600	16,700	10,100	14,900	9,550	5,240	6,030	11,800	10,000
12	4,670	3,950	8,180	11,000	13,800	10,000	10,700	11,300	7,450	7,500	10,400	10,100
13	592	3,500	8,890	10,400	13,500	9,510	11,400	15,200	8,100	3,360	9,190	9,320
14	478	5,310	9,580	10,400	13,600	5,370	17,300	11,700	3,440	457	8,390	6,440
15	5,010	6,750	9,280	10,100	11,900	6,180	13,000	13,200	2,320	4,560	10,200	420
16	4,710	5,790	3,630	10,200	10,600	5,170	11,500	13,000	1,350	6,790	10,200	4,990
17	3,650	2,700	6,380	10,100	20,500	860	13,100	12,000	6,440	6,860	7,250	8,160
18	4,100	447	6,230	10,100	19,900	5,510	12,400	11,400	10,100	8,220	412	10,600
19	4,580	4,710	8,590	10,100	15,400	6,820	12,900	6,880	10,200	9,130	3,930	10,500
20	2,980	5,530	10,200	10,100	16,100	10,100	12,100	6,990	7,970	1,190	6,990	10,800
21	478	5,790	10,200	10,800	16,600	10,000	11,600	12,600	7,530	375	9,570	8,370
22	1,620	875	14,300	27,100	15,400	6,190	10,700	11,500	7,580	5,630	6,020	538
23	5,570	4,460	13,900	26,200	19,500	6,720	10,200	10,700	1,760	7,820	5,580	2,420
24	4,750	799	12,300	19,000	16,200	1,020	10,200	16,300	3,870	4,550	2,000	8,270
25	4,300	524	10,600	15,800	14,700	6,270	10,100	16,300	4,860	3,430	429	9,100
26	4,920	3,110	10,500	19,500	13,300	10,200	10,000	11,500	5,610	1,330	3,920	9,130
27	836	5,180	10,500	21,000	13,900	10,000	7,780	14,600	7,720	402	8,080	9,130
28	620	6,700	10,400	22,400	13,100	10,100	2,180	15,100	8,920	341	7,710	2,050
29	4,500	5,390	11,200	31,900	------	10,600	5,130	14,100	1,600	4,250	4,550	792
30	4,840	6,360	10,500	26,600	------	19,600	8,550	12,300	383	6,910	3,210	5,400
31	4,160	------	17,500	17,100	------	24,600	------	12,000	------	4,950	2,150	------
TOTAL	115,425	127,905	251,110	512,200	487,500	292,120	486,740	330,450	187,483	160,835	263,801	257,658
MEAN	3,723	4,264	8,100	16,520	17,410	9,423	16,220	10,660	6,249	5,188	8,510	8,589
MAX	6,980	6,750	17,500	32,500	32,200	24,600	51,800	16,300	12,200	11,600	24,500	29,900
MIN	478	447	445	9,900	10,600	860	2,180	3,330	383	341	412	420
(†)	-453	-1,231	+2,428	-44	-951	+430	-45	-18	+371	-496	-76	-410

CAL YR 1973 TOTAL 4,058,361 MEAN 11,120 MAX 120,000 MIN 439 MEAN‡ 11,150 CFSM‡ 1.62 IN‡ 22.03
WTR YR 1974 TOTAL 3,473,227 MEAN 9,516 MAX 51,800 MIN 341 MEAN‡ 9,486 CFSM‡ 1.38 IN‡ 18.74

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir, furnished by Corps of Engineers; High Rock and Badin Lakes, furnished by Yadkin, Inc.; Tuckertown Reservoir, furnished by Duke Power Co.; and Lake Tillery and Blewett Falls Lake, furnished by Carolina Power and Light Co.

‡ Adjusted for change in contents.

02133500 Drowning Creek near Hoffman, N. C.

LOCATION.--Lat 35°03'38", long 79°29'39", Richmond County, on right bank 10 ft (3 m) downstream from bridge on U. S. Highway 1, 0.8 mi (1.3 km) downstream from Deep Creek, 1 mi (2 km) upstream from Seaboard Coast Line Railroad bridge, and 4 mi (6 km) northeast of Hoffman.

DRAINAGE AREA.--178 mi^2 (461 km^2).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft or 82 m (from topographic map).

AVERAGE DISCHARGE.--35 years, 261 ft^3/s (7.392 m^3/s) 19.91 in/yr (506 mm/yr).

EXTREMES.--Current year: Maximum discharge, 606 ft^3/s (17.2 m^3/s) Feb. 5 (gage height, 5.81 ft or 1.771 m); minimum, 56 ft^3/s (1.59 m^3/s) July 21 (gage height, 1.89 ft or 0.576 m).
Period of record: Maximum discharge, 10,900 ft^3/s (309 m^3/s) Sept. 18, 1945 (gage height, 10.29 ft or 3.136 m); minimum, 22 ft^3/s (0.62 m^3/s) Oct. 5, 1968.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 972: 1941(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	106	110	286	291	233	492	138	170	110	202	112
2	106	105	106	324	306	223	442	131	160	93	202	170
3	107	102	105	340	309	215	342	135	187	84	236	196
4	105	100	106	330	407	208	276	149	202	77	374	275
5	99	101	108	293	552	202	309	153	176	76	442	424
6	94	101	114	236	557	195	402	187	143	90	556	442
7	90	102	119	219	465	188	501	232	132	107	511	411
8	89	104	138	216	451	184	452	224	124	126	419	403
9	93	107	244	216	464	178	372	175	120	109	350	406
10	98	107	336	217	471	172	333	183	116	119	340	352
11	99	107	360	198	442	168	347	200	109	124	247	258
12	96	108	279	186	366	168	341	206	101	92	207	182
13	93	111	181	175	303	179	307	303	94	78	221	169
14	93	112	166	164	268	185	330	403	95	70	452	156
15	96	112	167	162	263	176	327	406	146	66	504	142
16	94	110	191	165	306	172	308	327	170	65	300	138
17	91	108	254	164	426	203	267	220	207	69	204	147
18	90	107	300	159	465	220	256	174	265	63	202	191
19	90	108	285	154	450	216	277	152	223	62	174	211
20	91	109	252	153	395	213	279	145	130	60	138	174
21	92	110	282	164	333	256	270	148	130	66	140	137
22	92	120	347	194	312	289	229	144	172	126	158	138
23	93	123	363	202	326	283	200	147	178	161	145	146
24	94	118	330	186	325	272	187	198	117	168	141	138
25	94	115	272	173	365	282	176	262	101	119	158	127
26	92	116	206	192	346	298	168	304	99	129	136	125
27	91	116	188	208	288	296	164	396	154	122	134	121
28	92	116	185	205	250	276	158	389	177	102	146	119
29	94	114	172	221	------	258	152	405	153	97	163	120
30	102	118	164	262	------	301	145	346	130	85	129	114
31	107	------	208	279	------	380	------	237	------	131	111	------
TOTAL	2,959	3,293	6,638	6,643	10,502	7,089	8,809	7,219	4,481	3,046	7,842	6,244
MEAN	95.5	110	214	214	375	229	294	233	149	98.3	253	208
MAX	107	123	363	340	557	380	501	406	265	168	556	442
MIN	89	100	105	153	250	168	145	131	94	60	111	112
CFSM	.54	.62	1.20	1.20	2.11	1.29	1.65	1.31	.84	.55	1.42	1.17
IN.	.62	.69	1.39	1.39	2.19	1.48	1.84	1.51	.94	.64	1.64	1.30

CAL YR 1973 TOTAL 122,100 MEAN 335 MAX 3,160 MIN 89 CFSM 1.88 IN 25.52
WTR YR 1974 TOTAL 74,765 MEAN 205 MAX 557 MIN 60 CFSM 1.15 IN 15.63

PEAK DISCHARGE (BASE, 850 CFS).--No peak above base.

02134500 Lumber River at Boardman, N. C.

LOCATION.--Lat 34°26'32", long 78°57'38", Robeson County, on right bank 50 ft (15 m) downstream from bridge on U. S. Highway 74, 1 mi (2 km) downstream from Seaboard Coast Line Railroad bridge at Boardman, 1.5 mi (2.4 km) downstream from Big Swamp, and 40.5 mi (65.2 km) upstream from mouth.

DRAINAGE AREA.--1,220 mi^2 (3,160 km^2), approximately.

PERIOD OF RECORD.--September 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 72.05 ft (21.961 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 30, 1936, nonrecording gage at site 100 ft (30 m) downstream at same datum. Sept. 30, 1936, to June 8, 1943, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--45 years, 1,329 ft^3/s (37.64 m^3/s) 14.79 in/yr (376 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,890 ft^3/s (252 m^3/s) Aug. 11 (gage height, 9.83 ft or 3.000 m); minimum, 186 ft^3/s (5.27 m^3/s) Oct. 30 (gage height, 1.47 ft or 0.448 m).

Period of record: Maximum discharge, 13,400 ft^3/s (379 m^3/s) Sept. 24, 1945 (gage height, 10.64 ft or 3.243 m); minimum, 66 ft^3/s (1.87 m^3/s) Oct. 9, 1968.

Flood of August 1928 reached a stage of 11.8 ft (3.60 m), from floodmark witnessed by local resident (discharge 25,000 ft^3/s or 708 m^3/s).

Flood of July 22, 1901, the highest during the period 1896-1913, reached a stage of 10.8 ft or 3.29 m, from observations by Butters Lumber Co. (discharge, 14,800 ft^3/s or 419 m^3/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 892: Drainage area. WSP 1303: 1932(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	434	248	293	1,400	1,770	2,470	1,580	776	2,120	624	1,110	1,790
2	414	252	294	1,500	1,870	2,320	1,620	704	2,110	622	1,080	1,670
3	404	257	307	1,560	1,940	2,170	1,630	657	2,070	592	1,080	1,450
4	377	247	314	1,680	2,050	2,040	1,670	620	2,050	559	1,100	1,300
5	361	256	295	1,880	2,110	1,920	1,810	572	1,970	512	1,430	1,160
6	351	257	311	2,000	2,170	1,820	1,860	580	1,830	475	2,160	1,150
7	343	236	306	2,060	2,210	1,730	1,860	583	1,640	472	3,660	1,190
8	353	259	329	2,140	2,290	1,620	1,860	519	1,480	604	6,220	1,180
9	312	282	425	2,150	2,310	1,510	1,900	519	1,330	885	7,420	1,250
10	294	269	461	2,160	2,340	1,420	1,900	524	1,170	1,010	8,450	1,460
11	295	247	513	2,140	2,430	1,330	1,860	524	1,050	994	8,750	1,720
12	287	229	536	2,100	2,520	1,250	1,810	632	943	971	8,120	1,890
13	287	242	555	2,020	2,550	1,180	1,780	715	854	970	6,440	1,990
14	285	253	598	1,920	2,560	1,110	1,770	761	788	958	5,030	2,080
15	299	256	646	1,810	2,610	1,050	1,740	783	814	941	4,080	2,180
16	289	268	759	1,670	2,660	1,170	1,680	808	876	891	3,910	2,200
17	263	274	823	1,560	2,780	1,310	1,640	815	904	788	4,040	2,220
18	272	253	914	1,510	2,820	1,380	1,670	804	839	634	3,750	2,310
19	263	256	1,020	1,470	2,850	1,430	1,630	935	768	489	3,540	2,340
20	260	273	1,120	1,400	2,850	1,450	1,530	1,170	735	472	3,480	2,540
21	236	274	1,270	1,360	2,800	1,500	1,460	1,350	728	591	3,690	2,550
22	246	272	1,300	1,330	2,790	1,510	1,420	1,570	738	692	3,480	2,340
23	262	272	1,330	1,290	2,800	1,490	1,370	1,840	750	895	3,170	2,100
24	256	260	1,400	1,260	2,820	1,480	1,300	2,050	759	975	3,110	1,910
25	254	258	1,490	1,240	2,870	1,480	1,230	2,040	759	903	3,040	1,780
26	241	274	1,540	1,190	2,860	1,480	1,150	1,980	728	833	2,890	1,670
27	243	278	1,540	1,140	2,760	1,440	1,080	2,200	710	828	2,730	1,570
28	239	282	1,520	1,110	2,610	1,450	1,030	2,430	721	1,010	2,550	1,480
29	241	300	1,490	1,160	------	1,490	981	2,590	729	1,070	2,360	1,390
30	200	297	1,440	1,350	------	1,560	885	2,530	640	1,130	2,150	1,290
31	209	------	1,410	1,590	------	1,560	------	2,320	------	1,090	1,940	------
TOTAL	9,070	7,881	26,549	50,150	70,000	48,120	46,706	36,901	33,603	24,480	115,960	53,150
MEAN	293	263	856	1,618	2,500	1,552	1,557	1,190	1,120	790	3,741	1,772
MAX	434	300	1,540	2,160	2,870	2,470	1,900	2,590	2,120	1,130	8,750	2,550
MIN	200	229	293	1,110	1,770	1,050	885	519	640	472	1,080	1,150
CFSM	.24	.22	.70	1.33	2.05	1.27	1.28	.98	.92	.65	3.07	1.45
IN.	.28	.24	.81	1.53	2.13	1.47	1.42	1.13	1.02	.75	3.54	1.62

CAL YR 1973 TOTAL 717,298 MEAN 1,965 MAX 9,100 MIN 200 CFSM 1.61 IN 21.87

WTR YR 1974 TOTAL 522,570 MEAN 1,432 MAX 8,750 MIN 200 CFSM 1.17 IN 15.93

02137000 Mill Creek at Old Fort, N. C.

LOCATION.--Lat 35°37'59", long 82°11'14", McDowell County, on right bank at downstream side of bridge on Secondary Road 1119, 2,200 ft (670 m) downstream from Jarrett Creek, 0.5 mi (0.8 km) northwest of Old Fort, and 1 mi (2 km) upstream from mouth.

DRAINAGE AREA.--20.7 mi^2 (53.6 km^2).

PERIOD OF RECORD.--May to December 1907, (gage heights and discharge measurements only), August 1930 to July 1931, April 1960 to current year. Records of discharge for 1907, published in WSP 242, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 1,445.92 ft (440.716 m) above mean sea level. May to September 1907, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum. August 1930 to July 1931, nonrecording gage at present site at datum 1.00 ft (0.305 m) lower.

AVERAGE DISCHARGE.--14 years (1960-74), 42.0 ft^3/s (1.189 m^3/s), 27.55 in/yr (700 mm/yr).

EXTREMES.--Current year: Maximum discharge, 588 ft^3/s (16.7 m^3/s) Dec. 26 (gage height, 4.46 ft or 1.359 m); minimum, 11 ft^3/s (0.31 m^3/s) Nov. 7, 10, 17, 18, 19, 20 (gage height, 1.25 ft or 0.381 m).
Period of record: Maximum discharge, 2,420 ft^3/s (68.5 m^3/s) May 28, 1973 (gage height, 8.03 ft or 2.448 m); minimum, 4.7 ft^3/s (0.13 m^3/s) Sept. 3, 4, 1930.
Flood of Aug. 13, 1940 reached a stage of 11.1 ft (3.38 m), from floodmarks (discharge, 7,880 ft^3/s or 223 m^3/s). Flood in July 1916 reached a stage about 4 ft (1.2 m) higher than that of Aug. 13, 1940, from information by local residents.
A discharge of 3.02 ft^3/s (0.086 m^3/s) was measured on Oct. 10, 1954.

REMARKS.--Records good. Some regulation at times during periods of low flow caused by reservoirs in the headwaters. Town of Old Fort diverted an average of 0.95 ft^3/s (0.027 m^3/s) for municipal water supply.

REVISIONS (WATER YEARS).--WSP 1503: 1931. See PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	16	30	145	53	51	60	38	48	34	23	32
2	59	13	27	106	77	49	67	38	45	32	23	33
3	33	13	25	104	84	47	63	41	41	34	150	39
4	26	13	24	93	72	45	258	41	39	38	92	35
5	23	13	106	81	63	44	185	85	37	83	67	31
6	21	13	62	72	64	44	116	67	50	78	135	59
7	19	13	45	64	65	42	91	53	158	70	88	49
8	19	12	39	57	73	41	87	48	111	61	141	42
9	20	13	38	65	67	40	81	45	95	52	127	38
10	24	12	34	60	61	39	71	42	75	47	87	37
11	20	12	31	62	57	38	65	42	64	43	77	35
12	19	12	29	57	52	39	62	141	55	39	78	34
13	18	12	31	52	50	38	96	84	50	37	80	38
14	17	12	30	51	51	36	80	65	47	35	75	33
15	16	12	29	51	48	36	71	57	57	34	73	33
16	15	14	29	47	55	37	65	52	66	33	74	31
17	15	12	27	43	53	36	60	54	52	36	73	33
18	14	12	26	42	52	35	56	51	46	35	70	30
19	14	12	26	41	54	38	54	52	43	32	63	28
20	14	12	44	42	51	41	51	54	41	31	54	28
21	14	42	69	76	48	73	49	51	45	29	50	27
22	14	25	46	58	163	55	49	49	41	28	46	27
23	14	18	40	53	100	46	50	72	38	30	44	26
24	14	16	37	50	81	43	46	58	40	30	42	25
25	13	15	36	48	70	42	44	50	40	34	40	25
26	13	21	266	52	61	40	43	51	36	28	39	25
27	13	37	162	94	57	39	41	57	40	31	37	27
28	14	104	93	76	54	38	40	48	45	27	37	36
29	17	51	73	70	------	65	39	45	39	26	35	26
30	13	36	63	63	------	96	38	51	36	24	34	24
31	14	------	130	57	------	73	------	47	------	23	33	------
TOTAL	610	618	1,747	2,032	1,836	1,426	2,178	1,729	1,620	1,194	2,087	986
MEAN	19.7	20.6	56.4	65.5	65.6	46.0	72.6	55.8	54.0	38.5	67.3	32.9
MAX	59	104	266	145	163	96	258	141	158	83	150	59
MIN	13	12	24	41	48	35	38	38	36	23	23	24
CFSM	.95	1.00	2.72	3.16	3.17	2.22	3.51	2.70	2.61	1.86	3.25	1.59
IN.	1.10	1.11	3.14	3.65	3.30	2.56	3.91	3.11	2.91	2.15	3.75	1.77

CAL YR 1973 TOTAL 18,679 MEAN 51.2 MAX 622 MIN 12 CFSM 2.47 IN 33.57
WTR YR 1974 TOTAL 18,063 MEAN 49.5 MAX 266 MIN 12 CFSM 2.39 IN 32.46

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	1500	4.46	588				

02138000 Catawba River near Marion, N. C.

LOCATION.--Lat 35°42'26", long 82°02'00", McDowell County, on right bank 15 ft (5 m) downstream from bridge on U. S. Highway 221, 0.2 mi (0.3 km) downstream from Tom Creek, 2.2 mi (3.5 km) northwest of Marion, and at mile 294 (473 km). Records include flow of small tributary on right bank 250 ft (76 m) downstream.

DRAINAGE AREA.--171 mi^2 or 443 km^2 (including area of small downstream tributary).

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,208 ft (368.2 m) above mean sea level.

AVERAGE DISCHARGE.--33 years, 336 ft^3/s (9.516 m^3/s), 26.68 in/yr (678 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,220 ft^3/s (148 m^3/s) Aug. 3 (gage height, 8.66 ft or 2.640 m); minimum, 151 ft^3/s (4.28 m^3/s) Nov. 18 (gage height, 1.29 ft or 0.393 m); minimum daily, 153 ft^3/s (4.33 m^3/s) Nov. 11, 18.

Period of record: Maximum discharge, 19,700 ft^3/s (558 m^3/s) Aug. 28, 1949 (gage height, 15.02 ft or 4.578 m); from rating curve extended as explained below; minimum, 28 ft^3/s (0.79 m^3/s) Sept. 30, Oct. 1, 5, 1954 (gage height, 0.50 ft or 0.152 m).

Flood of Aug. 13, 1940 reached a stage of 19.34 ft or 5.895 m (discharge, 71,400 ft^3/s or 2,020 m^3/s, from rating curve extended above 10,000 ft^3/s or 283 m^3/s on basis of contracted opening measurements at gage height, 15.02 or 4.578 m and 19.34 ft or 5.895 m).

REMARKS.--Records good. Some diurnal fluctuation and regulation for short periods of low flow caused by Lake Tahoma hydroelectric plant above station. About 3.4 ft^3/s (0.096 m^3/s) is diverted by the town of Marion for water supply.

REVISIONS (WATER YEARS).--WSP 1032: 1942, 1943(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	937	232	367	1,470	483	473	532	335	348	334	253	323
2	1,180	209	316	987	608	451	557	352	365	300	263	323
3	656	169	287	961	654	436	504	373	345	303	2,470	337
4	414	162	279	833	571	422	2,110	298	328	417	1,420	338
5	331	174	1,190	720	508	413	1,690	909	309	1,300	913	310
6	291	173	785	645	515	412	977	685	517	858	1,260	571
7	268	209	525	587	529	403	745	489	1,500	660	850	531
8	259	205	435	520	666	370	700	417	861	594	1,360	424
9	263	194	498	594	551	304	682	376	778	522	1,290	377
10	294	155	425	556	518	346	586	335	659	483	836	372
11	260	153	390	572	515	365	542	314	603	478	733	411
12	247	154	354	527	471	357	507	993	488	401	783	371
13	238	160	345	485	447	361	781	598	426	324	1,240	429
14	233	203	345	467	451	338	668	511	385	345	755	375
15	223	198	277	446	422	329	598	444	417	346	665	338
16	220	205	296	440	492	284	543	413	582	359	606	343
17	209	156	326	425	508	296	510	410	460	468	643	348
18	204	153	312	407	496	312	485	446	396	378	759	332
19	204	167	294	399	504	342	452	570	364	340	692	300
20	204	196	519	403	479	381	425	473	455	276	531	303
21	200	676	977	822	448	594	430	443	395	274	483	316
22	198	443	565	576	1,660	464	432	412	352	294	449	246
23	222	285	470	509	985	397	467	644	341	314	425	249
24	234	227	436	476	728	330	405	501	335	308	349	266
25	219	196	418	447	626	381	391	426	373	304	381	272
26	196	244	2,730	471	558	376	385	401	318	274	383	263
27	165	476	1,810	916	511	360	311	532	488	275	360	270
28	174	1,190	937	714	491	341	349	406	597	325	365	523
29	227	674	669	636	------	582	358	374	507	298	315	323
30	216	438	608	565	------	696	332	406	404	289	326	303
31	214	------	1,160	518	------	651	------	381	------	248	327	------
TOTAL	9,400	8,496	19,366	19,094	16,425	12,659	18,454	14,767	14,696	12,689	22,486	10,487
MEAN	303	283	625	616	587	415	615	476	490	409	725	350
MAX	1,180	1,190	2,730	1,470	1,660	696	2,110	993	1,500	1,300	2,470	571
MIN	165	153	277	399	422	284	311	298	309	248	253	246
CFSM	1.77	1.66	3.66	3.60	3.43	2.43	3.60	2.78	2.87	2.39	4.24	2.05
IN.	2.04	1.85	4.21	4.15	3.57	2.80	4.01	3.21	3.20	2.76	4.89	2.28

CAL YR 1973 TOTAL 177,668 MEAN 487 MAX 6,960 MIN 153 CFSM 2.85 IN 38.65
WTR YR 1974 TOTAL 179,219 MEAN 491 MAX 2,730 MIN 153 CFSM 2.87 IN 38.99

PEAK DISCHARGE (BASE, 3,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	1930	8.46	5,060	8- 3	1930	8.66	5,220
4- 4	1900	6.51	3,500				

02138500 Linville River near Nebo, N. C.

LOCATION.--Lat 35°47'43", long 81°53'27", Burke County, in Pisgah National Forest, on right bank 280 ft (85 m) upstream from bridge on State Highway 126, 0.2 mi (0.3 km) downstream from Shooks Creek, 0.5 mi (0.8 km) upstream from Lake James, 2.0 mi (3.2 km) northeast of Longtown, and 6.0 mi (9.7 km) northeast of Nebo.

DRAINAGE AREA.--67.2 mi^2 (174.0 km^2).

PERIOD OF RECORD.--May 1907 to August 1908 (fragmentary). June 1922 to current year. Published as "at Fonta Flora" prior to 1908 and as "at Branch" 1923-70. Records for October to December 1908, "at Fonta Flora", published in WSP 242 have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,204.87 ft (367.244 m) above mean sea level. May 1907 to August 1908 nonrecording gage about 1.2 mi (1.9 km) downstream at different datum. June 1922 to Aug. 27, 1937, nonrecording gage, and Aug. 28, 1937 to Sept. 30, 1970, water-stage recorder at site 300 ft (91 m) downstream at datum 1.00 ft (0.305 m) higher. Oct. 1, 1970 to Sept. 30, 1973 at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--52 years (1922-74), 145 ft^3/s (4.11 m^3/s), 29.30 in/yr (744 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,200 ft^3/s (119 m^3/s) Apr. 4 (gage height, 5.93 ft or 1.807 m); minimum, 35 ft^3/s (0.99 m^3/s) Nov. 14, 15 (gage height, 0.97 ft or 0.296 m).

Period of record: Maximum discharge, 39,500 ft^3/s (1,120 m^3/s) Aug. 13, 1940 (gage height, 11.4 ft or 3.47 m, site and datum then in use), from rating curve extended above 6,400 ft^3/s (181 m^3/s) on basis of slope-area measurement of peak flow; minimum, 2 ft^3/s (0.057 m^3/s) Jan. 9, 1956 (result of freezeup); minimum daily, 8 ft^3/s (0.23 m^3/s) Sept. 7-9, 1925.

Flood of July 1916 reached a stage of about 11 ft (3.4 m) former site and datum (discharge, 34,600 ft^3/s or 980 m^3/s).

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 892: 1929, 1935, 1937. WSP 1503: 1923(M), 1924-28. 1930, 1932-33(M), 1938(M), 1939(P). WSP 1723: Drainage area. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	71	162	614	202	153	180	104	169	171	56	92
2	472	71	141	398	208	144	176	101	158	151	60	88
3	241	69	127	331	278	131	164	109	132	136	548	202
4	158	59	120	302	220	123	2,010	108	119	137	630	307
5	130	54	495	275	208	117	1,200	136	109	177	381	158
6	104	58	312	238	200	131	574	181	184	200	502	635
7	96	46	243	226	197	125	399	133	665	180	393	804
8	91	58	201	202	223	113	329	115	397	155	373	364
9	87	48	194	252	211	106	319	113	280	158	445	261
10	106	58	175	288	180	100	251	114	265	154	274	219
11	91	53	154	246	170	96	220	111	232	139	250	304
12	84	49	141	239	160	98	204	238	191	126	258	324
13	79	46	138	206	152	144	272	297	165	116	285	473
14	74	39	135	193	148	121	253	183	153	107	202	308
15	70	40	130	187	147	104	225	160	189	100	176	241
16	66	62	130	176	147	104	202	148	233	94	192	212
17	61	53	125	164	151	119	187	135	225	106	248	190
18	58	43	120	154	147	104	178	138	167	105	176	182
19	56	42	120	147	158	108	166	129	147	101	157	160
20	89	54	230	143	183	212	157	121	140	93	143	146
21	93	146	500	266	171	304	148	117	184	86	135	137
22	79	214	270	232	953	339	143	115	165	79	123	130
23	108	186	220	193	547	214	155	169	143	76	143	122
24	78	145	200	180	300	183	142	171	130	78	119	114
25	71	109	180	180	230	164	130	124	147	78	110	112
26	58	102	1,200	182	195	151	123	113	125	82	147	108
27	47	105	700	254	173	137	119	153	128	80	115	108
28	46	283	500	235	162	144	114	134	316	92	104	183
29	75	333	346	244	------	166	110	115	288	81	106	142
30	95	209	288	229	------	264	107	127	202	67	98	111
31	75	------	319	217	------	217	------	161	------	60	91	------
TOTAL	3,223	2,905	8,316	7,393	6,421	4,736	8,957	4,373	6,148	3,565	7,040	6,937
MEAN	104	96.8	268	238	229	153	299	141	205	115	227	231
MAX	472	333	1,200	614	953	339	2,010	297	665	200	630	804
MIN	46	39	120	143	147	96	107	101	109	60	56	88
CFSM	1.55	1.44	3.99	3.54	3.41	2.28	4.45	2.10	3.05	1.71	3.38	3.44
IN.	1.78	1.61	4.60	4.09	3.55	2.62	4.96	2.42	3.40	1.97	3.90	3.84

CAL YR 1973 TOTAL 72,800 MEAN 199 MAX 4,160 MIN 39 CFSM 2.96 IN 40.30
WTR YR 1974 TOTAL 70,014 MEAN 192 MAX 2,010 MIN 39 CFSM 2.86 IN 38.76

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	Unknown	Unknown	Unknown	9- 6	2200	4.08	1,690
4- 4	1730	5.93	4,200				

02139650 East Prong near Morganton, N. C.

LOCATION.--Lat 35°44'29", long 81°39'39", Burke County, on right bank 55 ft (17 m) downstream from bridge on Secondary Road 1704, 0.5 mi (0.8 km) upstream from mouth, and 1.4 mi (2.3 km) east of courthouse, Morganton.

DRAINAGE AREA.--8.94 mi^2 (23.15 km^2).

PERIOD OF RECORD.--October 1966 to September 1974 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,032.77 ft (314.788 m) above mean sea level (city of Morganton bench mark).

AVERAGE DISCHARGE.--8 years, 14.1 ft^3/s (0.399 m^3/s), 21.42 in/yr (544 mm/yr).

EXTREMES.--Current year: Maximum discharge, 592 ft^3/s (16.8 m^3/s) Dec. 26 (gage height, 8.30 ft or 2.530 m); minimum daily, 7.3 ft^3/s (0.207 m^3/s) Nov. 20.
Period of record: Maximum discharge, 935 ft^3/s (26.5 m^3/s) Aug. 9, 1970 (gage height, 9.07 ft or 2.765 m); minimum, 4.2 ft^3/s (0.12 m^3/s) Sept. 8, 1968.
Flood of Aug. 13, 1940 reached a stage of about 15 ft (4.6 m), from information by local resident.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. Recording rain gage discontinued Apr. 29, 1974.

REVISIONS (WATER YEARS).--WSP 2104: 1969(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	8.5	9.2	42	18	15	20	12	13	11	7.9	8.6
2	32	8.5	8.9	24	26	15	19	12	12	9.9	7.9	8.9
3	16	8.5	8.9	38	25	15	16	12	11	9.6	86	19
4	15	8.5	9.2	32	20	14	242	13	10	9.6	28	12
5	13	8.5	54	24	18	14	85	30	9.6	24	20	9.2
6	12	8.0	17	19	20	14	31	16	10	16	13	172
7	12	8.0	13	16	21	14	23	13	22	14	13	57
8	11	8.0	12	14	34	13	22	12	12	13	15	32
9	16	8.0	16	15	24	13	20	11	11	12	19	24
10	13	8.0	13	13	20	13	17	11	14	17	18	21
11	11	8.0	12	15	18	12	15	10	12	14	15	19
12	11	7.5	12	14	16	13	15	22	11	12	16	21
13	10	7.5	13	13	15	13	20	16	9.9	11	22	27
14	10	7.5	12	12	15	12	16	14	12	11	15	24
15	9.5	7.5	13	12	15	12	15	13	15	10	14	19
16	9.5	7.5	13	12	24	14	14	12	37	9.9	15	18
17	9.0	7.5	12	12	20	13	14	14	15	12	15	18
18	9.0	7.5	12	11	18	12	13	13	12	9.2	13	17
19	9.0	7.5	12	11	19	13	13	13	11	9.2	13	16
20	9.0	7.3	52	15	17	13	13	13	12	9.2	12	16
21	9.0	13	74	149	16	38	13	12	12	8.9	11	15
22	8.5	9.2	22	33	90	18	13	12	15	8.9	10	15
23	8.5	8.2	16	22	30	15	15	34	11	9.2	10	15
24	8.0	8.2	15	19	22	14	13	15	10	9.6	10	15
25	8.0	8.2	15	18	19	13	13	14	11	9.2	9.6	15
26	8.0	8.6	248	24	17	12	12	13	10	8.9	9.6	15
27	8.0	9.2	55	38	16	12	13	18	20	9.2	9.6	15
28	10	18	26	31	15	12	13	13	61	11	9.6	28
29	12	11	21	28	------	56	12	12	17	8.6	8.9	14
30	9.0	9.6	19	22	------	63	12	12	13	8.6	8.9	9.2
31	9.0	------	48	19	------	28	------	12	------	8.2	8.2	------
TOTAL	350.0	261.0	883.2	767	628	548	772	449	451.5	343.9	483.2	714.9
MEAN	11.3	8.70	28.5	24.7	22.4	17.7	25.7	14.5	15.1	11.1	15.6	23.8
MAX	32	18	248	149	90	63	242	34	61	24	86	172
MIN	8.0	7.3	8.9	11	15	12	12	10	9.6	8.2	7.9	8.6
CFSM	1.26	.97	3.19	2.76	2.51	1.98	2.87	1.62	1.69	1.24	1.75	2.66
IN.	1.46	1.09	3.68	3.19	2.61	2.28	3.21	1.87	1.88	1.43	2.01	2.97

CAL YR 1973 TOTAL 6,793.2 MEAN 18.6 MAX 500 MIN 7.3 CFSM 2.08 IN 28.27
WTR YR 1974 TOTAL 6,651.7 MEAN 18.2 MAX 248 MIN 7.3 CFSM 2.04 IN 27.68

PEAK DISCHARGE (BASE, 200 CFS)

NOTE.--No gage height record Oct. 1 to Nov. 19.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	1515	8.30	592	6-16	1645	5.17	200
1-21	0715	7.43	414	6-28	0045	5.50	223
2-22	0830	5.69	237	8- 3	0315	5.25	206
4- 4	1415	8.19	564	9- 6	1245	7.33	398

02141150 Lower Creek at Mulberry Street at Lenoir, N. C.

LOCATION.--Lat 35°54'20", long 81°31'59", Caldwell County, on left bank at upstream side of bridge on Mulberry Street, 1,100 ft (335 m) downstream from Zacks Fork Creek, and 0.8 mi (1.3 km) southeast of courthouse, Lenoir.

DRAINAGE AREA.--31.8 mi^2 (82.4 km^2).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,071.45 ft (326.578 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 40.2 ft^3/s (1.138 m^3/s), 17.17 in/yr (436 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,680 ft^3/s (47.6 m^3/s) July 7 (gage height, 8.21 ft or 2.502 m); minimum, 18 ft^3/s (0.51 m^3/s) Nov. 17; minimum daily, 20 ft^3/s (0.57 m^3/s) Nov. 17; minimum gage height, 0.95 ft (0.290 m) Nov. 19, 20, 21.

Period of record: Maximum discharge, 3,430 ft^3/s (97.1 m^3/s) Aug. 10, 1970 (gage height, 11.03 ft or 3.362 m in gage well, 11.50 ft or 3.505 m, from outside gage); minimum, 5.8 ft^3/s (0.16 m^3/s) July 17, 1970; minimum daily, 7.7 ft^3/s (0.22 m^3/s) July 17, 20, 1970; minimum gage height, 0.55 ft (0.168 m) Oct. 1, 1968, July 17, 1970.

The flood of Aug. 13, 1940 reached a stage of 1,087.0 ft (331.32 m) above mean sea level (discharge, 20,000 ft^3/s or 566 m^3/s) at mouth of Zacks Fork Creek 1,100 ft (335 m) upstream.

REMARKS.--Records good. At times slight fluctuation and diversions by industrial and recreational development. The City of Lenoir diverted an average of 1.52 ft^3/s (0.043 m^3/s) for water supply from Zacks Fork Creek. Since 1940 various creek channel improvements and changes related to highway and industrial development. A significant channel change occurred in 1969 as a result of construction.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	26	36	176	47	44	62	35	41	36	23	35
2	208	23	33	95	58	42	61	36	39	32	24	31
3	101	23	30	80	60	42	53	37	34	30	318	44
4	50	24	30	82	53	40	794	35	31	30	128	36
5	41	23	357	68	47	40	277	63	29	55	79	27
6	36	21	92	63	54	43	113	47	34	71	55	291
7	34	21	57	58	56	39	82	39	102	500	48	100
8	32	21	49	51	96	38	87	36	49	68	63	55
9	46	22	133	61	70	38	76	48	41	61	51	43
10	40	21	69	54	59	37	63	39	50	47	47	41
11	33	22	52	55	52	36	58	37	40	45	43	38
12	30	21	44	49	47	43	55	75	34	40	66	101
13	29	21	46	47	45	48	88	49	32	37	56	60
14	29	21	42	45	45	39	65	41	43	33	41	41
15	27	21	40	44	43	37	58	38	60	30	36	37
16	26	21	43	42	57	39	52	36	67	37	34	34
17	25	20	40	40	52	38	50	40	45	51	33	32
18	24	21	36	38	50	36	48	40	37	31	33	31
19	24	21	35	38	54	42	45	43	33	30	32	29
20	24	21	106	49	57	43	43	40	33	37	30	28
21	25	53	158	230	46	115	43	38	33	31	28	28
22	24	34	72	90	154	69	46	36	40	28	28	28
23	23	28	57	66	84	54	59	91	31	30	27	26
24	23	26	48	57	65	49	43	50	29	28	27	25
25	22	25	46	53	56	46	41	41	29	28	25	25
26	22	34	561	59	50	43	39	41	30	29	24	24
27	22	57	173	98	47	42	39	51	53	31	24	31
28	27	146	87	72	44	41	38	38	73	29	23	91
29	33	58	68	63	------	100	37	36	53	26	23	34
30	24	41	61	55	------	151	36	37	39	24	23	28
31	25	------	240	50	------	84	------	35	------	23	23	------
TOTAL	1,196	937	2,941	2,128	1,648	1,598	2,651	1,348	1,284	1,608	1,515	1,474
MEAN	38.6	31.2	94.9	68.6	58.9	51.5	88.4	43.5	42.8	51.9	48.9	49.1
MAX	208	146	561	230	154	151	794	91	102	500	318	291
MIN	22	20	30	38	43	36	36	35	29	23	23	24
CFSM	1.21	.98	2.98	2.16	1.85	1.62	2.78	1.37	1.35	1.63	1.54	1.54
IN.	1.40	1.10	3.44	2.49	1.93	1.87	3.10	1.58	1.50	1.88	1.77	1.72

CAL YR 1973 TOTAL 23,597 MEAN 64.6 MAX 1,370 MIN 20 CFSM 2.03 IN 27.60
WTR YR 1974 TOTAL 20,328 MEAN 55.7 MAX 794 MIN 20 CFSM 1.75 IN 23.78

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 2	2145	5.38	791	7- 7	0315	8.21	1,680
12- 5	1115	5.82	897	8- 3	1745	5.50	820
12-26	1530	7.22	1,320	9- 6	1530	5.28	767
12-31	1945	4.26	552	9-12	1745	4.29	558
4- 4	1715	7.92	1,570				

02142000 Lower Little River near All Healing Springs, N. C.

LOCATION.--Lat 35°56'50", long 81°13'57", Alexander County, on left bank at upstream side of bridge on Secondary Road 1313, 0.3 mi (0.5 km) downstream from Grassy Creek, 0.4 mi (0.6 km) upstream from Lambert Creek, 2.2 mi (3.5 km) northeast of All Healing Springs, and 4 mi (6.4 km) northwest of Taylorsville.

DRAINAGE AREA.--31.2 mi^2 (80.8 km^2).

PERIOD OF RECORD.--October to December 1952 (monthly discharge only), January 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,070 ft or 326 m (by barometer). Prior to June 13, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--22 years, 36.5 ft^3/s (1.034 m^3/s), 15.89 in/yr (404 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,210 ft^3/s (34.3 m^3/s) Apr. 4 (gage height, 9.53 ft or 2.905 m); minimum, 17 ft^3/s (0.48 m^3/s) Aug. 31, Sept. 1 (gage height, 1.24 ft or 0.378 m).
Period of record: Maximum discharge, 4,850 ft^3/s (137 m^3/s) Aug. 10, 1970 (gage height, 15.68 ft or 4.779 m); minimum, 2.9 ft^3/s (0.082 m^3/s) Sept. 20, 21, 1955.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	23	24	123	46	38	76	36	34	26	23	24
2	60	21	23	79	46	37	74	37	33	26	23	46
3	33	21	23	66	45	36	61	37	30	25	37	47
4	27	21	22	73	42	35	575	35	29	26	59	46
5	25	21	162	61	39	34	350	51	28	56	72	29
6	23	20	65	55	44	38	142	45	30	44	47	173
7	23	20	39	50	47	34	100	38	54	43	40	92
8	23	21	32	44	68	33	92	36	36	33	50	56
9	23	21	106	47	60	32	88	51	33	34	47	46
10	23	20	57	44	51	32	72	44	31	32	42	39
11	22	20	40	45	47	31	65	38	30	31	36	37
12	22	20	34	41	43	35	60	66	28	28	33	32
13	21	20	34	38	41	41	78	51	27	27	30	30
14	22	20	31	36	40	34	65	42	54	26	27	28
15	21	20	30	36	38	33	60	38	60	24	28	27
16	21	21	32	34	45	36	55	36	68	27	26	27
17	20	20	32	33	44	34	53	34	47	25	26	27
18	20	20	29	31	44	33	50	33	37	24	25	27
19	20	20	28	31	47	35	48	42	32	24	34	24
20	20	19	77	31	45	36	46	44	32	26	26	23
21	20	27	144	211	41	130	45	39	32	25	24	23
22	20	25	68	100	92	84	45	37	36	23	23	22
23	20	21	49	67	70	59	52	68	30	25	22	22
24	20	21	40	57	56	50	44	47	28	25	22	21
25	20	20	37	52	49	46	42	39	28	23	22	21
26	20	21	310	57	44	43	41	37	28	26	21	21
27	19	29	195	82	41	40	40	46	28	43	20	21
28	21	73	90	75	39	39	39	36	37	56	20	56
29	27	34	63	67	------	128	38	34	34	27	19	28
30	21	27	56	58	------	221	36	34	29	24	19	24
31	21	------	81	51	------	114	------	32	------	23	19	------
TOTAL	736	707	2,053	1,875	1,354	1,651	2,632	1,283	1,063	927	962	1,139
MEAN	23.7	23.6	66.2	60.5	48.4	53.3	87.7	41.4	35.4	29.9	31.0	38.0
MAX	60	73	310	211	92	221	575	68	68	56	72	173
MIN	19	19	22	31	38	31	36	32	27	23	19	21
CFSM	.76	.76	2.12	1.94	1.55	1.71	2.81	1.33	1.13	.96	.99	1.22
IN.	.88	.84	2.45	2.24	1.61	1.97	3.14	1.53	1.27	1.11	1.15	1.36

CAL YR 1973 TOTAL 20,683 MEAN 56.7 MAX 1,070 MIN 19 CFSM 1.82 IN 24.66
WTR YR 1974 TOTAL 16,382 MEAN 44.9 MAX 575 MIN 19 CFSM 1.44 IN 19.53

PEAK DISCHARGE (BASE, 550 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	1700	6.79	666	4- 4	1500	9.53	1,210

02142900 Long Creek near Paw Creek, N. C.

LOCATION.--Lat 35°19'42", long 80°54'35", Mecklenburg County, on left bank at upstream side of bridge on Secondary Road 2042, 600 ft (183 m) downstream from McIntyre Creek, 1.2 mi (1.9 km) upstream from Gutter Branch, and 3.6 mi (5.8 km) north of community of Paw Creek.

DRAINAGE AREA.--16.1 mi^2 (41.7 km^2).

PERIOD OF RECORD.--June 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 648.7 ft (197.72 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 15.4 ft^3/s (0.436 m^3/s),13.03 in/yr (331 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,180 ft^3/s (33.4 m^3/s) Sept. 6 (gage height, 9.86 ft or 3.005 m); minimum, 1.5 ft^3/s (0.042 m^3/s) Oct. 25 (gage height, 1.01 ft or 0.308 m); minimum daily, 1.7 ft^3/s (0.048 m^3/s) Oct. 18.

Period of record: Maximum discharge, 2,250 ft^3/s (63.7 m^3/s) Feb. 2, 1973 (gage height, 11.20 ft or 3.414 m); minimum, 0.65 ft^3/s (0.018 m^3/s) July 28, 29, 1966; minimum gage height, 0.93 ft (0.283 m) Sept. 15, 1972,

REMARKS.--Records good except those for periods of indefinite stage-discharge relation or no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.7	3.8	2.9	195	15	11	17	10	5.2	5.7	9.2	3.2
2	7.7	2.5	2.9	25	114	11	15	12	5.3	10	45	4.6
3	4.0	2.5	2.8	16	236	10	20	21	5.4	3.9	13	2.7
4	3.1	2.5	3.0	17	110	9.8	250	12	4.5	3.5	61	3.1
5	2.7	2.4	9.5	16	28	9.6	150	9.6	4.2	3.7	8.9	2.8
6	2.4	2.3	6.8	12	38	9.4	80	38	4.1	9.3	17	377
7	2.5	2.5	4.1	13	68	9.1	15	18	4.1	5.3	34	94
8	2.6	2.2	4.9	10	200	9.0	35	12	4.2	4.7	30	18
9	2.9	2.5	21	15	46	9.0	66	13	4.0	3.7	16	11
10	2.8	2.5	6.4	15	24	8.7	25	28	3.7	3.3	9.8	7.3
11	2.7	2.5	4.8	12	19	9.0	16	12	9.8	3.0	6.3	5.9
12	2.6	2.5	4.2	9.7	16	9.5	15	8.7	3.8	3.0	5.2	6.6
13	2.5	2.5	7.1	8.0	14	9.0	22	58	3.3	2.8	4.7	4.7
14	2.5	2.8	8.2	7.8	15	8.5	17	17	45	2.7	4.2	4.3
15	2.3	2.8	6.0	8.3	14	8.5	14	10	20	2.7	8.4	4.0
16	2.3	3.0	13	7.8	104	12	11	7.8	37	2.5	18	4.1
17	2.0	3.0	19	7.3	51	9.7	11	10	18	2.4	10	4.1
18	1.7	3.0	9.4	6.8	25	8.4	15	4.9	8.2	2.2	9.7	4.8
19	1.9	3.0	6.4	6.8	46	12	11	4.8	5.8	2.3	4.8	3.7
20	1.9	3.0	108	7.1	27	19	9.6	4.9	7.7	2.4	4.0	3.5
21	1.9	3.3	84	345	18	40	8.8	5.0	10	2.3	3.8	3.5
22	2.0	4.3	20	38	38	16	8.6	4.7	5.1	2.3	3.6	5.0
23	2.0	3.0	11	22	21	9.0	9.4	38	8.7	2.4	3.3	3.6
24	2.0	3.6	8.1	17	16	10	8.1	11	6.1	2.6	3.6	3.2
25	1.9	3.0	6.9	51	14	15	7.3	6.5	4.1	2.7	3.2	3.5
26	2.0	3.6	11	91	12	10	7.1	5.5	3.9	2.4	3.0	3.6
27	2.1	3.9	11	43	11	7.0	6.9	43	16	4.5	2.9	3.7
28	3.1	4.3	7.2	75	11	7.0	4.7	10	9.2	2.9	2.6	97
29	15	3.0	6.4	79	------	220	8.2	7.1	15	2.6	2.7	11
30	3.2	2.9	18	26	------	105	11	6.6	5.5	2.3	2.5	5.8
31	2.6	------	76	19	------	40	------	5.7	------	2.0	2.7	------
TOTAL	98.6	88.7	510.0	1,221.6	1,351	681.2	894.7	454.8	286.9	108.1	353.1	709.3
MEAN	3.18	2.96	16.5	39.4	48.3	22.0	29.8	14.7	9.56	3.49	11.4	23.6
MAX	15	4.3	108	345	236	220	250	58	45	10	61	377
MIN	1.7	2.2	2.8	6.8	11	7.0	4.7	4.7	3.3	2.0	2.5	2.7
CFSM	.20	.18	1.02	2.45	3.00	1.37	1.85	.91	.59	.22	.71	1.47
IN.	.23	.20	1.18	2.82	3.12	1.57	2.07	1.05	.66	.25	.82	1.64

CAL YR 1973 TOTAL 6,301.7 MEAN 17.3 MAX 570 MIN 1.7 CFSM 1.07 IN 14.56
WTR YR 1974 TOTAL 6,758.0 MEAN 18.5 MAX 377 MIN 1.7 CFSM 1.15 IN 15.61

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-21	0730	9.12	886	9- 6	2045	9.86	1,180

NOTE.--Indefinite stage-discharge relation Oct. 14 to Nov. 29. No gage-height record Mar. 7 to Apr. 12.

02143000 Henry Fork near Henry River, N. C.

LOCATION.--Lat 35°41'06", long 81°24'03", Catawba County, on left bank 325 ft (99 m) downstream from bridge (relocated) on Secondary Road 1124, at site of Old Link Ford, 1.2 mi (1.9 km) downstream from Burke-Catawba County line, and 2 mi (3 km) southeast of village of Henry River.

DRAINAGE AREA.--80 mi^2 (207 km^2), approximately.

PERIOD OF RECORD.--July 1925 to November 1931, December 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 891.0 ft (271.6 m) above mean sea level. July 1925 to November 1931, at site 450 ft (137 m) upstream at same datum.

AVERAGE DISCHARGE.--38 years (1925-31, 1942-74), 129 ft^3/s (3.653 m^3/s), 21.90 in/yr (556 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,660 ft^3/s (75.3 m^3/s) Dec. 26 (gage height, 6.83 ft or 2.082 m); minimum, 59 ft^3/s (1.67 m^3/s) Oct. 27, 28, Nov. 7, 10, 11, 12, 17-21 (gage height, 1.20 ft or 0.366 m); minimum daily, 59 ft^3/s (1.67 m^3/s) Nov. 10, 11, 17-20.

Period of record: Maximum discharge, 15,300 ft^3/s (433 m^3/s) Oct. 2, 1929 (gage height, 18.40 ft or 5.608 m, site then in use), from rating curve extended above 2,300 ft^3/s (65.1 m^3/s) on basis of computation of peak flow over dam at Henry River, at gage height 29.2 ft (8.90 m); minimum, 3 ft^3/s (0.085 m^3/s) Dec. 20, 1942; minimum daily, 4 ft^3/s (0.11 m^3/s) Nov. 15, Dec. 20, 1942.

Maximum stage known, 29.2 ft (8.90 m) Aug. 13, 1940 at former site, from floodmarks (discharge, 31,300 ft^3/s or 886 m^3/s). The flood of July 16, 1916 reached a stage of about 23 ft (7.0 m) at former site (discharge, 20,700 ft^3/s or 586 m^3/s).

REMARKS.--Records good. The mill above the station which in previous years has caused diurnal fluctuation and some regulation was inactive. An average of about 2.0 ft^3/s (0.057 m^3/s) was diverted for water supply by town of Morganton and wasted into Catawba River.

REVISIONS (WATER YEARS).--WSP 952: 1928, 1930.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	159	68	71	359	160	150	223	125	124	139	78	84
2	346	63	67	247	179	145	193	127	124	122	81	84
3	144	61	64	257	220	141	171	133	120	112	232	89
4	99	61	63	240	196	137	843	129	116	113	318	158
5	87	61	558	212	168	134	994	281	109	350	189	93
6	78	60	256	182	166	136	384	268	118	397	135	525
7	74	60	134	160	185	131	266	185	154	205	122	363
8	72	60	106	142	244	127	237	156	138	157	136	178
9	74	61	171	139	248	124	236	193	122	139	416	137
10	75	59	128	134	197	122	200	177	124	132	284	119
11	74	59	105	137	175	120	183	154	166	127	171	109
12	71	60	92	130	158	120	176	364	131	118	206	102
13	70	60	99	119	150	123	200	297	115	108	221	112
14	70	60	105	116	147	117	185	193	109	105	136	164
15	68	60	98	117	140	115	175	164	118	101	119	110
16	66	62	108	113	173	122	164	147	222	98	134	104
17	64	59	117	108	187	122	159	142	171	144	211	100
18	61	59	103	104	174	114	156	144	122	122	131	99
19	62	59	92	102	178	119	150	138	111	108	123	92
20	62	59	195	102	178	126	146	133	119	108	109	89
21	61	94	547	1,130	158	252	141	131	124	104	103	87
22	61	107	230	406	460	198	142	129	126	95	97	93
23	62	70	152	239	367	152	184	269	111	95	94	88
24	62	64	124	190	233	139	149	182	103	102	92	84
25	61	62	113	176	194	133	141	144	106	101	89	85
26	60	66	1,090	192	170	127	137	135	104	94	89	84
27	60	77	701	271	159	124	135	193	124	95	87	86
28	63	125	264	268	153	122	131	147	523	102	84	227
29	96	113	186	242	------	458	130	135	264	93	83	118
30	68	81	166	202	------	678	126	133	174	87	84	93
31	64	------	167	176	------	347	------	129	------	81	80	------
TOTAL	2,594	2,070	6,472	6,712	5,517	5,275	6,857	5,377	4,392	4,054	4,534	3,956
MEAN	83.7	69.0	209	217	197	170	229	173	146	131	146	132
MAX	346	125	1,090	1,130	460	678	994	364	523	397	416	525
MIN	60	59	63	102	140	114	126	125	103	81	78	84
CFSM	1.05	.86	2.61	2.71	2.46	2.13	2.86	2.16	1.83	1.64	1.83	1.65
IN.	1.21	.96	3.01	3.12	2.57	2.45	3.19	2.50	2.04	1.89	2.11	1.84

CAL YR 1973 TOTAL 68,926 MEAN 189 MAX 3,400 MIN 59 CFSM 2.36 IN 32.05
WTR YR 1974 TOTAL 57,810 MEAN 158 MAX 1,130 MIN 59 CFSM 1.98 IN 26.88

PEAK DISCHARGE (BASE, 2,800 CFS).--No peak above base.

02143040 Jacob Fork at Ramsey, N. C.

LOCATION.--Lat 35°35'26", long 81°34'02", Burke County, on left bank 16 ft (5 m) downstream from bridge on Secondary Road 1924, 0.6 mi (1.0 km) downstream from Queens Creek, and 0.6 mi (1.0 km) north of Ramsey.

DRAINAGE AREA.--25.4 mi^2 (65.8 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1960-61. October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,103.00 ft (336.194 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 49.3 ft^3/s (1.396 m^3/s), 26.36 in/yr (670 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,130 ft^3/s (32.0 m^3/s) Aug. 9 (gage height, 7.05 ft or 2.149 m); minimum, 16 ft^3/s (0.45 m^3/s) Oct. 19-21, 22, 23, 24, 25; minimum gage height, 1.88 ft (0.573 m) Oct. 25.
Period of record: Maximum discharge, 4,520 ft^3/s (128 m^3/s) Aug. 9, 1970 (gage height, 16.92 ft or 5.157 m); minimum, 7.3 ft^3/s (0.21 m^3/s) July 28, 29, 1966 (gage height, 1.67 ft or 0.509 m).
Flood of August 1940 reached a stage of about 39 ft (11.9 m), from information by local resident. Flood of July 1916 reached a stage of about 19 ft (5.8 m), from information by North Carolina State Highway Commission.

REMARKS.--Records fair. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	24	25	163	51	47	66	35	38	46	25	28
2	101	22	23	90	70	45	59	36	38	39	28	30
3	39	22	22	86	96	43	53	37	36	36	62	27
4	29	22	22	85	72	41	315	37	34	37	76	27
5	25	21	283	72	58	40	294	113	33	230	50	26
6	23	21	78	61	59	40	111	92	33	213	39	93
7	21	21	42	54	66	39	78	59	42	106	35	67
8	21	21	33	46	106	38	76	49	39	81	56	44
9	21	21	45	48	93	37	80	126	36	64	346	37
10	22	21	38	46	67	36	66	82	59	54	89	34
11	21	21	33	46	59	36	58	59	113	50	58	34
12	20	22	30	42	52	36	55	260	44	47	50	32
13	20	22	33	38	49	36	61	114	40	42	44	31
14	19	21	36	36	48	35	57	69	67	40	38	30
15	19	21	35	39	45	34	54	55	60	38	37	30
16	18	24	37	38	55	39	50	49	58	38	66	29
17	18	22	40	36	59	36	47	45	44	142	54	29
18	17	22	35	35	59	35	46	46	37	51	42	28
19	16	21	31	34	63	37	44	43	34	41	51	26
20	16	21	59	37	60	39	42	41	37	37	40	26
21	16	33	184	360	51	76	41	41	35	34	37	30
22	17	29	67	108	203	60	41	41	34	34	33	33
23	16	22	46	69	108	46	53	78	32	37	33	28
24	16	21	38	58	72	42	43	52	30	36	33	25
25	17	21	35	53	61	40	40	42	31	33	32	25
26	17	23	398	66	53	38	39	42	31	31	32	24
27	17	26	187	103	49	37	38	64	50	31	31	24
28	19	54	78	92	48	37	37	48	214	30	30	128
29	29	36	59	85	------	147	36	42	106	30	29	43
30	23	27	57	69	------	214	35	41	60	29	28	32
31	22	------	70	58	------	101	------	39	------	26	28	------
TOTAL	741	725	2,199	2,253	1,932	1,607	2,115	1,977	1,545	1,783	1,632	1,100
MEAN	23.9	24.2	70.9	72.7	69.0	51.8	70.5	63.8	51.5	57.5	52.6	36.7
MAX	101	54	398	360	203	214	315	260	214	230	346	128
MIN	16	21	22	34	45	34	35	35	30	26	25	24
CFSM	.94	.95	2.79	2.86	2.72	2.04	2.78	2.51	2.03	2.26	2.07	1.44
IN.	1.09	1.06	3.22	3.30	2.83	2.35	3.10	2.90	2.26	2.61	2.39	1.61

CAL YR 1973 TOTAL 22,127 MEAN 60.6 MAX 967 MIN 16 CFSM 2.39 IN 32.41
WTR YR 1974 TOTAL 19,609 MEAN 53.7 MAX 398 MIN 16 CFSM 2.11 IN 28.72

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 5	1200	5.87	838	4- 4	1930	5.41	722
12-26	1730	6.56	1,010	8- 9	0400	7.05	1,130
1-21	0800	5.05	640				

02143500 Indian Creek near Laboratory, N. C.

LOCATION.--Lat 35°25'20", long 81°15'52", Lincoln County, on left bank 250 ft (76 m) upstream from remains of Rudisill Mill dam, 0.5 mi (0.8 km) upstream from bridge on Secondary Road 1252, 1.5 mi (2.4 km) upstream from mouth, 1.5 mi (2.4 km) south of Laboratory, and 3.5 mi (5.6 km) south of Lincolnton.

DRAINAGE AREA.--68.4 mi^2 (177.2 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 736 ft or 224 m (by barometer).

AVERAGE DISCHARGE.--23 years, 91.1 ft^3/s (2.580 m^3/s), 18.09 in/yr (459 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,800 ft^3/s (51.0 m^3/s) Apr. 5 (gage height, 5.13 ft or 1.564 m); minimum, 28 ft^3/s (0.79 m^3/s) Oct. 27, 28 (gage height, 0.89 ft or 0.271 m).
Period of record: Maximum discharge, 8,450 ft^3/s (239 m^3/s) Aug. 10, 1970 (gage height, 10.61 ft or 3.234 m); minimum, 4.6 ft^3/s (0.13 m^3/s) Oct. 8, 1954.
Peak discharge of flood in October 1929 was 9,920 ft^3/s (281 m^3/s); flood in July 1916, 7,840 ft^3/s (222 m^3/s); flood in August 1940, 6,000 ft^3/s (170 m^3/s). Discharge based on computation of peak flow over dam 1 mi (2 km) downstream, using floodmarks and information by local resident.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WRD N. C. 1971: 1970(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	38	36	623	98	87	158	68	71	75	32	35
2	111	36	36	194	156	84	144	75	70	65	39	35
3	56	35	36	205	291	81	134	83	64	68	49	40
4	42	35	35	216	216	79	682	72	60	65	81	54
5	36	35	84	161	135	76	1,520	145	58	144	143	38
6	33	33	68	128	135	79	303	126	58	116	56	133
7	31	33	46	115	168	79	198	90	81	192	51	111
8	45	33	42	99	295	76	175	79	79	313	143	62
9	44	35	115	105	179	76	201	684	66	95	127	50
10	36	33	71	105	132	73	141	290	60	77	308	45
11	35	33	58	96	111	71	128	149	134	72	91	42
12	33	33	46	87	101	71	118	237	69	83	67	40
13	33	35	56	79	100	73	151	169	60	65	59	38
14	33	35	66	76	103	68	125	116	58	56	52	36
15	33	35	56	79	97	68	115	100	59	51	50	36
16	31	35	73	76	198	73	105	90	151	49	49	37
17	31	35	81	73	170	81	96	83	101	47	49	38
18	30	33	63	68	125	71	93	78	68	46	46	41
19	30	35	56	68	134	84	90	75	58	45	52	39
20	30	35	118	71	122	105	87	76	65	45	45	37
21	30	38	201	1,190	105	175	84	77	75	50	43	36
22	30	47	105	480	234	125	84	75	57	43	40	38
23	30	38	79	172	144	99	96	113	55	43	40	42
24	31	35	68	142	118	90	81	92	47	46	38	37
25	30	36	63	155	105	93	79	72	46	44	38	37
26	30	36	158	215	96	93	78	67	50	42	42	36
27	30	42	216	191	90	84	77	132	151	42	40	35
28	30	44	108	181	90	81	76	84	295	49	37	109
29	54	44	84	212	------	400	71	73	239	40	36	54
30	36	36	190	138	------	610	68	72	99	37	35	43
31	35	------	243	111	------	234	------	71	------	33	34	------
TOTAL	1,180	1,086	2,757	5,911	4,048	3,639	5,558	3,813	2,604	2,238	2,012	1,454
MEAN	38.1	36.2	88.9	191	145	117	185	123	86.8	72.2	64.9	48.5
MAX	111	47	243	1,190	295	610	1,520	684	295	313	308	133
MIN	30	33	35	68	90	68	68	67	46	33	32	35
CFSM	.56	.53	1.30	2.79	2.12	1.71	2.70	1.80	1.27	1.06	.95	.71
IN.	.64	.59	1.50	3.21	2.20	1.98	3.02	2.07	1.42	1.22	1.09	.79

CAL YR 1973 TOTAL 39,276 MEAN 108 MAX 1,960 MIN 25 CFSM 1.58 IN 21.36
WTR YR 1974 TOTAL 36,300 MEAN 99.5 MAX 1,520 MIN 30 CFSM 1.45 IN 19.74

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-21	2100	4.78	1,550	4- 5	0900	5.13	1,800

02144000 Long Creek near Bessemer City, N. C.

LOCATION.--Lat 35°18'23", long 81°14'03", Gaston County, on right bank 700 ft (213 m) upstream from bridge on Secondary Road 1456, 2 mi (3 km) northeast of Bessemer City limits, and 8.2 mi (13.2 km) upstream from mouth.

DRAINAGE AREA.--31.4 mi^2 (81.3 km^2).

PERIOD OF RECORD.--October 1952 to current year. Monthly discharge only for some periods, published in WSP 1723.

GAGE.--Water-stage recorder. Datum of gage is 706.1 ft (215.22 m) above mean sea level.

AVERAGE DISCHARGE.--22 years, 35.0 ft^3/s (0.991 m^3/s), 15.14 in/yr (385 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,160 ft^3/s (32.9 m^3/s) June 28 (gage height, 5.61 ft or 1.710 m); minimum, 12 ft^3/s (0.34 m^3/s) Oct. 18, 28, July 31, Aug. 1, 29, 30, 31, Sept. 1, 20-22, 23-28; minimum gage height, 1.39 ft (0.424 m) Sept. 22, 27.

Period of record: Maximum discharge, 6,500 ft^3/s (184 m^3/s) Oct. 16, 1971 (gage height, 9.10 ft or 2.774 m), from rating curve extended above 2,100 ft^3/s (59.5 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 0.4 ft^3/s (0.011 m^3/s) Oct. 7, 1954; minimum daily, 0.8 ft^3/s (0.023 m^3/s) Oct. 7, 1954.

Flood of July 1916 reached a stage of 26 ft (7.92 m) at site on left bank 1,500 ft (460 m) upstream, from information by local resident.

REMARKS.--Records good. Bessemer City diverts water supply from above gaging station and returns waste waters to South Fork Catawba River below mouth of Long Creek, causing some diurnal fluctuation; an average of 2.6 ft^3/s (0.074 m^3/s) was diverted during the year.

REVISIONS (WATER YEARS).--WSP 1723: 1959-60(M). WSP 1904: 1959-60.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	18	14	360	39	37	49	28	25	25	62	14
2	88	14	14	68	122	37	49	32	23	21	84	14
3	30	14	14	59	273	36	169	66	22	19	47	21
4	23	14	15	68	88	35	703	34	21	21	69	19
5	18	14	34	51	55	35	613	52	20	51	54	13
6	16	13	25	42	60	34	100	45	20	43	27	49
7	15	13	18	39	91	33	69	35	27	30	29	32
8	16	14	16	32	196	32	80	32	27	28	75	22
9	17	14	54	36	76	33	98	46	23	26	45	19
10	15	13	26	36	57	31	58	34	20	24	76	18
11	15	14	20	33	50	31	51	31	20	22	33	16
12	15	13	18	30	45	31	48	41	18	21	25	15
13	14	14	19	27	41	31	96	33	17	20	23	14
14	15	14	18	26	42	29	62	29	17	19	20	13
15	14	15	19	29	40	29	54	27	16	18	28	13
16	13	16	28	27	106	34	47	26	25	17	28	13
17	13	14	34	25	70	34	44	25	25	16	23	13
18	13	14	24	24	51	30	41	25	17	15	20	15
19	13	14	21	23	61	32	40	24	16	14	20	13
20	13	13	55	24	50	35	38	24	22	14	18	12
21	13	15	76	483	43	65	37	26	26	14	17	12
22	13	17	41	79	107	40	36	25	19	13	16	13
23	13	15	31	51	55	35	40	40	19	14	16	13
24	13	14	27	44	47	33	34	29	20	15	15	12
25	13	14	25	54	43	38	33	25	18	15	15	12
26	13	14	44	71	40	39	33	23	43	14	21	12
27	13	15	44	60	39	35	33	49	234	13	15	12
28	13	18	31	70	38	34	32	28	393	15	13	32
29	27	18	26	73	------	171	31	25	54	14	13	16
30	17	14	60	50	------	136	29	24	33	14	12	13
31	15	------	198	43	------	65	------	23	------	13	12	------
TOTAL	588	436	1,089	2,137	2,025	1,350	2,847	1,006	1,280	618	971	505
MEAN	19.0	14.5	35.1	68.9	72.3	43.5	94.9	32.5	42.7	19.9	31.3	16.8
MAX	88	18	198	483	273	171	703	66	393	51	84	49
MIN	13	13	14	23	38	29	29	23	16	13	12	12
CFSM	.61	.46	1.12	2.19	2.30	1.39	3.02	1.04	1.36	.63	1.00	.54
IN.	.70	.52	1.29	2.53	2.40	1.60	3.37	1.19	1.52	.73	1.15	.60

CAL YR 1973 TOTAL 16,139 MEAN 44.2 MAX 1,350 MIN 12 CFSM 1.41 IN 19.12
WTR YR 1974 TOTAL 14,852 MEAN 40.7 MAX 703 MIN 12 CFSM 1.30 IN 17.60

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-31	2230	4.97	837	4- 4	2200	5.56	1,130
1-21	0830	5.19	945	6-28	0430	5.61	1,160
4- 3	2300	5.56	1,130				

02146300 Irwin Creek near Charlotte, N. C.

LOCATION.--Lat 35°11'51", long 80°54'10", Mecklenburg County, on left bank at sewage-disposal plant of city of Charlotte, 2,200 ft (671 m) upstream from Southern Railway bridge, 0.7 mi (1.1 km) upstream from Taggart Creek, 4.2 mi (6.8 km) southwest of city hall, Charlotte.

DRAINAGE AREA.--30.5 mi^2 (79.0 km^2).

PERIOD OF RECORD.--May 1962 to current year. Prior to October 1963, published as Sugar (Irwin) Creek at Charlotte.

GAGE.--Water-stage recorder. Datum of gage is 591.53 ft (180.298 m) above mean sea level (city of Charlotte bench mark).

AVERAGE DISCHARGE.--12 years, 40.4 ft^3/s (1.14 m^3/s),18.01 in/yr (457 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,760 ft^3/s (106 m^3/s) Sept. 6 (gage height, 13.80 ft or 4.206 m); minimum, 6.1 ft^3/s (0.173 m^3/s) July 25 (gage height, 0.71 ft or 0.216 m); minimum daily, 8.1 ft^3/s (0.229 m^3/s) Nov. 24.

Period of record: Maximum discharge, 3,760 ft^3/s (106 m^3/s) Sept. 6, 1974 (gage height, 13.80 ft or 4.206 m); minimum, 3.9 ft^3/s (0.110 m^3/s) Aug. 7, 8, 1966.

Maximum stage known since at least 1927, about 17.3 ft or 5.27 m Apr. 6, 1936, at site 400 ft (122 m) downstream from information by plant employee. Peak may have been affected by failure of Lakewood Dam 5 mi (8.0 km) upstream. Flood of Jan. 6, 1962 reached a stage of 14.32 ft (4.365 m), from floodmarks (discharge, 4,120 ft^3/s (117 m^3/s). Flood of Apr. 11, 1962 reached a stage of 15.18 ft (4.627 m), from floodmarks (discharge, 4,740 ft^3/s (134 m^3/s), on basis of slope-area measurement of peak flow).

REMARKS.--Records good. Fluctuation at low flow caused by wash water, from city of Charlotte water filtration plants and industry, diverted into the basin from the Catawba River (city water supply). Creek channel improved by dredging in 1917 and maintained by Mecklenburg County Drainage Commission to present time.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	24	10	298	31	25	34	17	37	13	253	18
2	54	12	9.2	41	283	23	29	18	19	12	455	24
3	16	11	11	33	236	22	36	77	16	12	102	13
4	13	11	10	49	94	22	418	18	16	11	273	14
5	13	12	65	30	44	21	300	43	15	15	42	12
6	12	11	16	22	106	21	61	35	15	144	50	1,330
7	11	11	11	74	111	21	38	20	46	109	47	177
8	12	9.7	34	24	321	20	132	17	16	29	179	47
9	13	10	81	56	65	18	86	74	13	19	216	33
10	13	9.4	14	30	40	17	39	20	13	15	41	26
11	13	9.3	12	25	35	18	31	17	14	12	25	23
12	12	9.2	11	19	30	20	28	241	13	22	23	22
13	13	10	26	16	28	19	62	32	14	12	23	18
14	12	10	16	19	39	18	35	22	104	9.3	19	16
15	12	10	22	19	28	18	27	19	24	11	47	13
16	12	11	59	17	243	26	23	19	133	11	121	22
17	13	9.1	65	16	69	18	47	17	35	11	49	32
18	27	8.8	21	16	46	18	37	14	19	11	54	25
19	13	9.7	15	14	93	29	24	16	17	9.6	23	21
20	10	10	241	28	48	48	21	18	141	8.8	15	20
21	11	15	129	499	31	82	19	17	38	14	16	24
22	11	12	30	53	230	26	20	15	19	10	15	24
23	12	9.4	21	35	52	18	24	243	15	9.5	14	18
24	12	8.1	18	42	36	21	19	31	15	10	14	18
25	11	8.5	15	296	32	47	18	20	15	8.2	14	16
26	9.8	16	29	271	28	24	17	22	14	9.9	13	18
27	8.8	12	20	92	25	21	16	170	36	212	13	16
28	36	19	16	225	24	21	17	27	21	23	13	425
29	95	11	15	111	------	358	16	21	48	14	13	32
30	14	11	57	49	------	185	16	20	15	12	12	18
31	18	------	260	37	------	51	------	16	------	12	11	------
TOTAL	597.6	340.2	1,359.2	2,556	2,448	1,296	1,690	1,356	956	831.3	2,205	2,515
MEAN	19.3	11.3	43.8	82.5	87.4	41.8	56.3	43.7	31.9	26.8	71.1	83.8
MAX	95	24	260	499	321	358	418	243	141	212	455	1,330
MIN	8.8	8.1	9.2	14	24	17	16	14	13	8.2	11	12
CFSM	.63	.37	1.44	2.70	2.87	1.37	1.85	1.43	1.05	.88	2.33	2.75
IN.	.73	.41	1.66	3.12	2.99	1.58	2.06	1.65	1.17	1.01	2.69	3.07

CAL YR 1973 TOTAL 17,661.0 MEAN 48.4 MAX 1,600 MIN 8.1 CFSM 1.59 IN 21.54
WTR YR 1974 TOTAL 18,150.3 MEAN 49.7 MAX 1,330 MIN 8.1 CFSM 1.63 IN 22.14

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-21	0500	8.68	1,520	8- 4	0100	7.79	1,260
3-29	1545	9.62	1,830	8- 9	1515	8.31	1,410
4- 4	2245	8.31	1,410	9- 6	1645	13.80	3,760
8- 1	2030	10.12	2,000	9-28	0515	11.61	2,590
8- 2	1245	9.98	1,950				

02146500 Little Sugar Creek near Charlotte, N. C.

LOCATION.--Lat 35°09'13", long 80°51'18", Mecklenburg County, on right bank 10 ft (3 m) upstream from bridge on Tyvola Road at sewage-disposal plant of city of Charlotte, 1,500 ft (457 m) downstream from Briar Creek, and 4.8 mi (7.7 km) south of city hall, Charlotte.

DRAINAGE AREA.--41.0 mi^2 (106 km^2).

PERIOD OF RECORD.--July 1924 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 568.58 ft (173.303 m) above mean sea level (city of Charlotte bench mark). Prior to Apr. 26, 1927, nonrecording gage and Apr. 26, 1927 to Sept. 30, 1958, water-stage recorder at site 1,000 ft (305 m) upstream at datum 2.7 ft (0.82 m) higher.

AVERAGE DISCHARGE.--50 years, 46.4 ft^3/s (1.314 m^3/s), 15.35 in/yr (390 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,630 ft^3/s (103 m^3/s) Sept. 28 (gage height, 11.75 ft or 3.581 m); minimum daily, 4.8 ft^3/s or 0.137 m^3/s Oct. 21, 26, 27.

Period of record: Maximum discharge, 8,440 ft^3/s (239 m^3/s) June 15, 1973 (gage height, 17.6 ft or 5.36 m in gage well, 18.2 ft or 5.55 m from floodmarks), from rating curve extended above 3,400 ft^3/s (96.3 m^3/s) on basis of slope-area measurement at gage height, 13.10 ft or 3.993 m and step backwater method at gage heights 17.52 ft or 5.340 m, 19.02 ft or 5.797 m, and 21.52 ft or 6.559 m; minimum, 1.2 ft^3/s (0.034 m^3/s) Sept. 27, 1954.

REMARKS.--Records good. At times small amounts of cooling and wash water, diverted into the basin from Catawba River through city of Charlotte storm sewers. Since 1911 the creek channel has been dredged and improved.

REVISIONS (WATER YEARS).--WSP 1052: 1939-44. WSP 1503: 1924-27(M), 1928-30, 1931(M), 1932-34. WSP 1723: Drainage area. WSP 1904: 1959-61.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	29	6.7	332	29	21	29	13	17	8.3	116	45
2	62	8.3	6.4	38	293	21	25	14	17	8.0	485	29
3	12	7.2	6.5	29	201	20	31	56	12	7.7	146	9.2
4	8.6	6.6	7.0	52	60	19	495	14	11	7.8	213	8.0
5	8.0	6.8	91	33	36	19	346	39	10	100	21	7.3
6	7.1	5.7	17	22	263	18	60	40	10	201	39	713
7	6.5	5.6	8.7	86	129	18	37	16	22	401	35	189
8	6.6	6.0	39	26	335	18	113	16	13	125	202	23
9	6.9	6.3	112	62	63	18	96	141	10	31	192	16
10	7.7	5.6	14	30	39	17	37	22	10	16	32	14
11	7.5	5.2	10	23	33	17	29	18	12	12	18	14
12	5.9	5.8	9.4	20	28	19	27	407	9.1	11	14	42
13	5.9	6.2	36	17	26	18	83	35	9.5	9.7	13	21
14	5.8	6.4	17	21	44	16	37	21	47	9.1	16	10
15	5.5	6.6	26	23	27	16	29	17	22	8.8	37	9.6
16	5.7	7.2	87	18	256	31	22	14	75	8.6	66	9.9
17	5.4	6.4	83	17	73	18	53	13	28	8.4	29	39
18	5.0	6.2	23	16	39	16	42	12	9.9	8.0	65	18
19	5.2	6.4	14	15	90	30	22	11	9.1	7.9	25	10
20	5.2	6.6	267	18	60	41	22	18	433	7.6	11	9.4
21	4.8	11	150	298	32	87	18	12	54	22	10	9.5
22	5.0	11	26	38	145	22	18	12	16	7.9	9.5	11
23	5.2	7.0	17	25	43	18	21	331	11	7.6	11	8.0
24	5.0	7.0	14	49	30	17	16	26	9.7	7.6	8.7	7.6
25	5.0	6.8	13	372	27	64	15	15	9.3	14	8.0	7.8
26	4.8	7.5	26	259	23	25	15	19	9.2	7.2	8.3	7.9
27	4.8	8.7	19	95	22	19	14	219	46	99	8.2	7.9
28	8.2	18	14	308	22	21	14	21	16	22	17	689
29	127	9.8	15	127	------	391	13	16	20	8.4	13	23
30	8.7	6.6	55	49	------	193	13	14	9.1	7.6	7.7	14
31	13	------	322	35	------	43	------	13	------	6.2	7.5	------
TOTAL	488.0	243.5	1,551.7	2,553	2,468	1,311	1,792	1,635	986.9	1,206.4	1,883.9	2,022.1
MEAN	15.7	8.12	50.1	82.4	88.1	42.3	59.7	52.7	32.9	38.9	60.8	67.4
MAX	127	29	322	372	335	391	495	407	433	401	485	713
MIN	4.8	5.2	6.4	15	22	16	13	11	9.1	6.2	7.5	7.3
CFSM	.38	.20	1.22	2.01	2.15	1.03	1.46	1.29	.80	.95	1.48	1.64
IN.	.44	.22	1.41	2.32	2.24	1.19	1.63	1.48	.90	1.09	1.71	1.83

CAL YR 1973 TOTAL 20,900.6 MEAN 57.3 MAX 1,540 MIN 4.8 CFSM 1.40 IN 18.96
WTR YR 1974 TOTAL 18,141.5 MEAN 49.7 MAX 713 MIN 4.8 CFSM 1.21 IN 16.46

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-12	1045	9.15	2,230	8- 2	1245	9.01	2,150
6-20	1830	10.55	3,000	9- 6	1445	9.06	2,180
7- 7	2015	9.92	2,640	9-28	0515	11.75	3,630

02146600 McAlpine Creek at Sardis Road near Charlotte, N. C.

LOCATION.--Lat 35°08'13", long 80°46'06", Mecklenburg County, near left bank on downstream end of bridge pier at Sardis Road (Secondary Road 3356), 1.7 mi (2.7 km) downstream from Irvins Creek, and 7 mi (11 km) southeast of city hall, Charlotte.

DRAINAGE AREA.--38.3 mi^2 (99.2 km^2).

PERIOD OF RECORD.--April 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 553.39 ft (168.673 m) above mean sea level (city of Charlotte bench mark).

AVERAGE DISCHARGE.--12 years, 35.3 ft^3/s (1.00 m^3/s), 12.51 in/yr (318 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,570 ft^3/s (44.5 m^3/s) Jan. 1 (gage height, 9.89 ft or 3.014 m); minimum, 2.8 ft^3/s (0.079 m^3/s) Aug. 1 (gage height, 0.99 ft or 0.302 m).
Period of record: Maximum discharge, 3,990 ft^3/s (113 m^3/s) Apr. 11, 1962 (gage height, 13.82 ft or 4.212 m); minimum, no flow Nov. 15, 1972, result of upstream construction.
Flood of Jan. 6, 1962 reached a stage of about 14.0 ft (4.27 m), from floodmarks (discharge 4,150 ft^3/s or 118 m^3/s).

REMARKS.--Records good. Diurnal fluctuation at low flow probably caused by two small sewage treatment plants diverting water into the basin from the Catawba River (city water supply). Creek channel improved by dredging in 1917 and maintained by the Mecklenburg County Drainage Commission to present time. This drainage basin is adjacent to the city of Charlotte. The drainage basin is urban and has an impervious area of about 10 percent, expected development by 1995 is 22 percent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	10	5.5	539	30	23	32	11	9.9	5.7	37	111
2	15	6.0	5.6	63	256	22	26	12	9.3	5.1	248	36
3	8.8	5.9	5.6	34	279	21	23	20	8.9	4.6	68	11
4	7.2	5.7	5.9	42	79	21	239	13	8.1	4.3	35	9.3
5	6.1	5.8	17	39	41	20	429	18	7.8	5.0	36	6.8
6	5.8	5.7	9.0	27	74	19	72	23	7.8	14	25	312
7	5.2	5.9	6.4	76	157	19	39	14	9.6	95	19	377
8	5.5	5.9	13	34	372	18	58	13	8.1	153	71	38
9	5.8	5.5	41	36	97	18	113	35	7.7	88	88	22
10	5.8	5.6	11	32	52	18	39	17	7.1	67	28	16
11	5.5	5.3	7.7	26	39	17	29	14	6.4	17	14	13
12	5.2	5.8	6.8	22	32	17	25	94	6.2	10	11	35
13	5.2	5.8	24	18	29	17	80	24	6.3	8.8	15	57
14	4.9	6.0	16	18	32	16	45	15	6.2	7.8	11	16
15	4.9	5.9	14	20	30	16	33	13	7.7	6.9	59	11
16	4.9	6.3	35	18	235	19	24	12	11	6.2	30	9.4
17	4.6	5.8	39	17	117	19	25	11	11	5.4	17	203
18	4.6	5.7	17	15	52	16	26	11	6.8	5.1	22	28
19	4.6	5.9	11	15	87	19	21	9.8	6.0	4.8	11	14
20	4.9	5.9	150	15	61	25	19	9.9	5.8	4.7	8.5	11
21	4.6	7.2	194	239	36	23	18	10	67	4.4	7.8	10
22	4.6	7.5	35	54	217	19	18	9.7	21	15	7.5	9.3
23	4.6	6.1	20	31	64	17	18	116	9.0	6.1	6.7	8.7
24	4.6	6.2	16	35	39	17	17	25	7.2	4.7	6.4	8.0
25	4.6	6.2	13	278	32	29	17	15	5.9	4.8	6.2	8.1
26	4.4	6.3	14	132	26	24	15	12	5.3	5.7	5.8	8.1
27	4.3	6.4	15	95	24	19	14	54	6.2	4.9	5.4	7.3
28	5.2	7.2	13	213	23	19	13	17	8.7	5.9	5.1	135
29	32	6.4	12	177	------	274	13	13	7.3	6.8	5.2	16
30	6.8	5.6	46	61	------	158	12	12	7.7	4.9	4.9	11
31	6.0	------	271	39	------	51	------	11	------	3.9	4.7	------
TOTAL	226.2	185.5	1,089.5	2,460	2,612	1,030	1,552	684.4	303.0	585.5	919.2	1,560.0
MEAN	7.30	6.18	35.1	79.4	93.3	33.2	51.7	22.1	10.1	18.9	29.7	52.0
MAX	32	10	271	539	372	274	429	116	67	153	248	377
MIN	4.3	5.3	5.5	15	23	16	12	9.7	5.3	3.9	4.7	6.8
CFSM	.19	.16	.92	2.07	2.44	.87	1.35	.58	.26	.49	.78	1.36
IN.	.22	.18	1.06	2.39	2.54	1.00	1.51	.66	.29	.57	.89	1.52

CAL YR 1973 TOTAL 16,630.1 MEAN 45.6 MAX 1,500 MIN 4.3 CFSM 1.19 IN 16.15
WTR YR 1974 TOTAL 13,207.3 MEAN 36.2 MAX 539 MIN 3.9 CFSM .95 IN 12.83

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1- 1	0345	9.89	1,570	4- 4	2345	9.88	1,560

02146700 McMullen Creek at Sharon View Road near Charlotte, N. C.

LOCATION.--Lat 35°08'26", long 80°49'12", Mecklenburg County, on left downstream side of culvert wingwall at Sharon View Road (Secondary Road 3673), 3.3 mi (5.3 km) south of Queens College, Charlotte, and 6.9 mi 11.1 km) upstream from mouth. Prior to Dec. 30, 1971, at site 154 ft (47 m) downstream.

DRAINAGE AREA.--6.98 mi^2 (18.08 km^2).

PERIOD OF RECORD.--April 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 592.91 ft (180.719 m) above mean sea level (city of Charlotte bench mark). Prior to Oct. 13, 1970, at site 73 ft (22.2 m) upstream at same datum. Oct. 13, 1970 to Dec. 30, 1971 at site 154 ft (47 m) downstream at datum 2.00 ft (0.610 m) lower.

AVERAGE DISCHARGE.--12 years, 6.71 ft^3/s (0.190 m^3/s), 13.05 in/yr (331 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,240 ft^3/s (35.1 m^3/s) July 7 (gage height, 7.89 ft or 2.405 m); minimum, 0.17 ft^3/s (0.005 m^3/s) Oct. 13 (gage height, 0.72 ft or 0.219 m).
Period of record: Maximum discharge, 1,240 ft^3/s (35.1 m^3/s) Apr. 11, 1962 (gage height, 8.15 ft or 2.484 m in gage well, 8.51 ft or 2.594 m outside gage) site and datum then in use; no flow Aug. 31, Sept. 1, 2, 1962, Sept. 19-23, 1963, Sept. 3, 4, Oct. 5, 1968, Oct. 8, 27, 28, 1970, Mar. 28, 1973.
Flood of Jan. 6, 1962 reached a stage of 7.5 ft (2.29 m), former site and datum, from floodmarks (discharge, 1,040 ft^3/s or 29.5 m^3/s).

REMARKS.--Records good. Occasional temporary and slight fluctuation during low flow from city of Charlotte sewage pump station and a small sewage treatment plant diverting water into the basin from Catawba River (city water supply). Creek channel improved by dredging in 1928. This drainage basin drains the eastern part of the city of Charlotte. In 1962 it had an impervious area of 6.3 percent and has increased somewhat since then.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	3.0	.38	103	2.8	2.4	2.8	.84	1.1	.57	6.2	28
2	5.1	.35	.35	6.1	65	2.4	2.4	1.1	1.0	.57	34	3.5
3	.56	.42	.37	3.4	41	2.4	2.1	5.5	1.1	.61	14	.80
4	.47	.62	.42	8.5	7.0	2.4	97	.97	1.7	.90	6.4	.83
5	.46	.51	10	4.9	3.6	2.4	62	6.6	.86	15	1.5	.53
6	.44	.52	1.5	3.0	29	2.1	6.6	3.2	.86	29	2.5	122
7	.37	.52	.64	2.0	35	2.1	3.6	1.1	6.4	165	4.6	59
8	.36	.54	5.3	1.5	91	2.0	18	.97	1.3	17	20	3.1
9	.34	.50	17	2.2	9.9	1.8	13	15	.97	36	37	1.7
10	.35	.55	1.3	2.2	4.9	1.9	3.5	1.4	.85	4.0	3.3	1.2
11	.38	.51	.79	1.7	3.7	1.9	2.5	1.1	1.0	1.8	1.5	1.1
12	.34	.30	.61	1.5	3.1	2.3	2.4	98	.76	1.3	1.3	8.5
13	.33	.31	6.8	1.3	2.9	2.5	26	3.9	.76	1.2	1.6	1.4
14	.32	.36	2.4	1.5	5.3	2.1	5.2	2.0	2.1	.99	1.2	.92
15	.27	.38	3.8	1.7	3.2	2.0	3.5	1.7	1.8	.98	25	.91
16	4.8	.49	14	1.6	72	3.5	2.4	1.4	10	.88	11	1.0
17	.81	.61	12	1.5	14	2.6	4.7	1.3	3.0	.76	2.6	8.2
18	.38	.44	2.5	1.6	5.1	2.2	3.1	1.1	1.2	.75	2.9	3.5
19	.69	.42	1.4	1.7	19	5.8	2.0	.99	1.0	.74	2.6	1.8
20	.46	.42	56	1.9	6.6	3.2	1.8	1.8	62	.72	.95	.77
21	.29	.87	33	60	3.5	4.8	1.5	1.4	4.1	4.5	.77	.62
22	.32	1.2	3.5	5.1	19	1.9	1.4	1.2	1.5	.82	.74	1.0
23	.38	.47	2.2	3.1	4.3	1.6	1.6	59	.99	.64	.67	.52
24	.42	.53	1.6	9.8	3.6	1.6	1.2	3.0	.65	.68	.63	.52
25	.42	.89	1.4	100	3.0	9.8	1.1	1.8	.72	1.5	.63	.46
26	.39	1.0	2.7	35	2.7	2.5	1.0	2.1	.97	.65	.68	.67
27	.35	1.3	2.0	15	2.7	2.0	1.3	28	6.3	2.5	.53	.48
28	1.9	1.6	1.2	95	3.0	2.1	.97	2.0	1.4	1.5	.52	97
29	14	1.0	2.5	24	------	66	.86	1.5	.87	.60	.85	2.3
30	.28	.40	17	6.1	------	26	.84	1.4	.64	.52	.53	1.3
31	.30	------	103	3.7	------	4.6	------	1.2	------	.48	.49	------
TOTAL	37.18	21.03	307.66	509.6	465.9	172.9	276.37	252.57	117.90	293.16	187.19	353.63
MEAN	1.20	.70	9.92	16.4	16.6	5.58	9.21	8.15	3.93	9.46	6.04	11.8
MAX	14	3.0	103	103	91	66	97	98	62	165	37	122
MIN	.27	.30	.35	1.3	2.7	1.6	.84	.84	.64	.48	.49	.46
CFSM	.17	.10	1.42	2.35	2.38	.80	1.32	1.17	.56	1.36	.87	1.69
IN.	.20	.11	1.64	2.72	2.48	.92	1.47	1.35	.63	1.56	1.00	1.88

CAL YR 1973 TOTAL 3,427.02 MEAN 9.39 MAX 288 MIN .27 CFSM 1.35 IN 18.26
WTR YR 1974 TOTAL 2,995.09 MEAN 8.21 MAX 165 MIN .27 CFSM 1.18 IN 15.96

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
5-12	1015	5.01	622	9-28	0500	5.73	751
7- 7	2000	7.89	1,240				

02146750 McAlpine Creek below McMullen Creek near Pineville, N. C.

LOCATION.--Lat 35°03'59", long 80°52'12", Mecklenburg County, on right bank at waste treatment plant of Charlotte, 150 ft (46 m) downstream from McMullen Creek, and 2.1 mi (3.4 km) south of Pineville.

DRAINAGE AREA.--92.4 mi^2 (239.3 km^2).

PERIOD OF RECORD.--April to September 1974.

GAGE.--Water-stage recorder. Datum of gage is 517.29 ft (157.670 m) above mean sea level.

EXTREMES.--April to September 1974: Maximum discharge during period, 1,950 ft^3/s (55.2 m^3/s) Apr. 5 (gage height, 6.54 ft or 1.993 m); minimum, 5.7 ft^3/s (0.150 m^3/s) Aug. 1, 2 (gage height, 0.93 ft or 0.283 m).
Maximum stage known since at least 1964, about 12.9 ft or 3.93 m (discharge, 9,010 ft^3/s or 255 m^3/s, on basis of step backwater rating) Apr. 1, 1973, from information by plant operator.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							79	23	18	9.1	6.0	29
2							62	23	20	8.3	258	169
3							54	44	37	7.7	316	21
4							188	27	19	7.5	104	17
5							1,500	25	16	22	166	13
6							306	53	17	183	103	421
7							105	29	19	160	53	1,110
8							93	24	19	603	117	116
9							324	62	15	102	357	49
10							106	36	14	54	401	35
11							72	26	13	23	54	27
12							61	190	12	17	35	22
13							129	70	12	15	36	242
14							100	35	12	14	41	46
15							77	26	17	13	59	32
16							56	24	13	11	158	25
17							50	22	25	9.9	63	644
18							61	21	13	9.4	42	375
19							46	19	11	9.0	29	57
20							41	20	55	8.7	19	37
21							39	19	110	19	16	30
22							37	19	21	16	15	27
23							38	249	14	11	14	23
24							33	74	11	9.1	14	20
25							34	33	9.4	10	13	18
26							31	24	11	8.9	13	18
27							30	110	18	10	12	17
28							28	39	15	17	13	323
29					------		26	26	13	9.4	14	47
30					------		25	23	11	7.8	14	27
31		------			------		------	20	------	6.4	11	------
TOTAL							3,831	1,435	610.4	1,411.2	2,566.0	4,037
MEAN							128	46.3	20.3	45.5	82.8	135
MAX							1,500	249	110	603	401	1,110
MIN							25	19	9.4	6.4	6.0	13
CFSM							1.39	.50	.22	.49	.90	1.46
IN.							1.54	.58	.25	.57	1.03	1.63

PEAK DISCHARGE (BASE, 1,380 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-5	1000	6.54	1,950				

SANTEE RIVER BASIN

02146800 Sugar Creek near Ft. Mill, S. C.

LOCATION.--Lat 35°00'21", long 80°54'09", York County, on right bank at downstream side of bridge on State Highway 160, 3,500 ft (1,070 m) downstream from Clems Branch, and 2.6 mi (4.2 km) east of Ft. Mill, S. C.

DRAINAGE AREA.--262 mi^2 (679 km^2).

PERIOD OF RECORD.--January to September 1974.

GAGE.--Water-stage recorder. Datum of gage is 484.98 ft (147.822 m) above mean sea level.

EXTREMES.--January to September 1974: Maximum discharge during period, 5,810 ft^3/s (165 m^3/s) Sept. 7 (gage height, 16.83 ft or 5.130 m); minimum, 77 ft^3/s (2.18 m^3/s) Aug. 1 (gage height, 2.56 ft or 0.780 m); minimum daily, 84 ft^3/s (2.38 m^3/s) Aug. 1.

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				3,650	325	218	382	128	122	88	84	94
2				1,320	1,040	207	300	129	147	90	1,010	339
3				417	2,360	199	249	248	191	87	1,330	120
4				415	1,140	188	488	160	123	85	1,240	106
5				387	490	189	4,180	128	111	100	758	100
6				284	405	183	1,380	256	109	606	387	997
7				557	1,260	184	475	154	110	489	316	4,630
8				397	2,530	178	373	129	175	1,400	483	842
9				285	1,660	171	1,030	307	106	235	796	283
10				382	542	164	445	240	97	262	1,160	202
11				260	399	154	318	144	104	143	248	162
12				228	328	160	270	858	98	136	173	145
13				190	287	181	384	730	96	128	157	666
14				170	272	162	407	201	96	107	170	227
15				201	308	155	321	162	321	98	197	169
16				184	977	162	234	147	110	100	1,220	145
17				172	1,720	198	214	137	343	99	975	781
18				163	519	153	326	128	119	96	352	903
19				152	539	158	214	120	100	95	302	232
20				148	622	238	193	128	134	93	160	174
21				1,550	342	294	176	126	894	93	143	151
22				1,180	1,010	264	167	122	160	117	132	164
23				376	976	170	179	203	116	93	122	116
24				294	394	160	165	1,140	100	92	115	126
25				1,840	311	205	155	218	99	97	109	113
26				2,000	263	282	150	152	98	93	104	118
27				1,320	240	185	145	682	123	339	108	118
28				764	228	180	136	564	154	318	106	1,930
29				2,300	------	635	130	183	142	115	127	858
30				687	------	3,080	133	150	105	104	104	230
31		------		418	------	789	------	135	------	92	99	------
TOTAL				22,691	21,487	9,846	13,719	8,309	4,803	6,090	12,787	15,241
MEAN				732	767	318	457	268	160	196	412	508
MAX				3,650	2,530	3,080	4,180	1,140	894	1,400	1,330	4,630
MIN				148	228	153	130	120	96	85	84	94
CFSM				2.79	2.93	1.21	1.74	1.02	.61	.75	1.57	1.94
IN.				3.22	3.05	1.40	1.95	1.18	.68	.86	1.82	2.16

PEAK DISCHARGE (BASE, 4,750 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1- 1	1600	15.54	4,780	9- 7	1145	16.83	5,810
4- 5	1345	16.08	5,210				

02146900 Twelve Mile Creek near Waxhaw, N. C.

LOCATION.--Lat 34°57'06", long 80°45'23", Union County, on left bank 90 ft (27 m) upstream from bridge on State Highway 16, 680 ft (207 m) downstream from West Fork Twelve Mile Creek, and 2.5 mi (4.0 km) north of Waxhaw.

DRAINAGE AREA.--72.4 mi^2 (187.5 km^2).

PERIOD OF RECORD.--Occasional low flow measurements, water years 1949-60, October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 489.04 ft (149.059 m) above mean sea level. Prior to Mar. 13, 1962, water-stage recorder at site 70 ft (21 m) downstream at same datum.

AVERAGE DISCHARGE.--14 years, 69.8 ft^3/s (1.977 m^3/s), 13.10 in/yr (333 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,240 ft^3/s (35.1 m^3/s) Jan. 21 (gage height, 10.66 ft or 3.249 m); minimum, 1.3 ft^3/s or 0.037 m^3/s Aug. 2 (gage height, 1.33 ft or 0.405 m).

Period of record: Maximum discharge, 7,700 ft^3/s (218 m^3/s) Apr. 1, 1973 (gage height, 19.92 ft or 6.072 m); no flow Oct. 6, 1968, Oct. 7-15, 1970.

Maximum stage known since at least 1900, 23.6 ft or 7.19 m Sept. 7, 1949, from floodmarks. No flow observed on Oct. 6, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	2.9	3.3	614	53	40	57	18	11	7.6	1.6	1.9
2	9.1	2.8	3.1	131	185	38	45	17	13	6.6	34	3.3
3	8.0	2.7	3.0	59	704	35	39	22	119	5.9	91	6.6
4	5.6	2.5	3.0	45	359	32	66	21	22	5.7	14	4.8
5	4.2	2.4	3.9	50	106	31	796	21	14	6.2	77	6.6
6	3.4	2.7	4.8	40	78	29	173	24	12	14	45	8.8
7	2.9	2.4	4.3	56	388	28	77	20	11	14	19	223
8	2.7	2.3	4.2	59	850	28	65	18	10	13	217	31
9	2.7	2.2	11	36	243	27	240	18	10	9.7	180	16
10	2.8	2.5	12	33	111	26	86	19	8.6	8.8	128	8.5
11	2.4	2.3	6.7	32	79	25	56	30	7.8	7.7	27	7.4
12	2.0	2.3	5.1	32	62	25	47	57	7.0	6.6	15	6.0
13	3.0	2.2	5.6	25	54	32	61	50	6.5	6.2	32	5.1
14	3.3	2.3	10	21	53	27	96	24	11	5.5	28	4.5
15	3.3	2.4	8.3	22	65	24	121	19	19	5.0	14	4.1
16	2.7	2.4	10	24	418	27	58	16	10	4.6	9.4	3.9
17	2.4	2.3	29	24	333	35	43	14	13	4.3	8.2	626
18	2.1	2.3	21	22	113	27	41	13	10	4.1	7.2	110
19	2.0	2.3	12	21	103	26	37	12	8.0	3.9	5.9	31
20	1.9	2.3	59	20	107	34	33	12	7.4	3.7	5.0	18
21	1.9	3.8	322	832	65	33	29	13	11	3.6	4.6	13
22	1.9	3.9	64	216	240	35	28	13	10	5.9	4.3	9.3
23	1.9	3.3	27	75	133	27	27	152	8.5	5.0	3.9	8.1
24	1.8	3.3	19	51	70	26	25	76	7.4	4.1	3.6	6.9
25	1.7	3.3	16	339	58	31	23	27	6.9	4.1	3.4	6.4
26	1.6	3.4	14	169	48	48	22	18	7.0	17	3.3	6.4
27	1.6	3.6	14	121	43	34	22	22	7.8	16	3.0	6.1
28	1.6	3.7	13	144	41	31	21	21	7.9	7.2	2.7	5.5
29	3.6	3.7	11	429	------	208	20	16	11	4.1	2.4	5.2
30	5.4	3.9	14	112	------	386	19	14	10	2.8	2.2	4.8
31	3.1	------	118	70	------	107	------	13	------	2.0	2.0	------
TOTAL	98.3	84.4	851.3	3,924	5,162	1,562	2,473	830	417.8	214.9	993.7	1,198.2
MEAN	3.17	2.81	27.5	127	184	50.4	82.4	26.8	13.9	6.93	32.1	39.9
MAX	9.1	3.9	322	832	850	386	796	152	119	17	217	626
MIN	1.6	2.2	3.0	20	41	24	19	12	6.5	2.0	1.6	1.9
CFSM	.04	.04	.38	1.75	2.54	.70	1.14	.37	.19	.10	.44	.55
IN.	.05	.04	.44	2.02	2.65	.80	1.27	.43	.21	.11	.51	.62

CAL YR 1973 TOTAL 29,400.8 MEAN 80.6 MAX 4,550 MIN 1.2 CFSM 1.11 IN 15.11
WTR YR 1974 TOTAL 17,809.6 MEAN 48.8 MAX 850 MIN 1.6 CFSM .67 IN 9.15

PEAK DISCHARGE (BASE, 1,500 CFS). -- No peak above base.

02149000 Cove Creek near Lake Lure, N. C.

LOCATION.--Lat 35°25'24", long 82°06'42", Rutherford County, on left bank 40 ft (12 m) upstream from bridge on U. S. Highways 64 and 74, 1 mi (2 km) upstream from mouth, and 5 mi (8 km) east of town of Lake Lure.

DRAINAGE AREA.--77.0 mi^2 (199.4 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-50. October 1950 to current year. Monthly discharge only for some periods, published in WSP 1723.

GAGE.--Water-stage recorder. Datum of gage is 815.4 ft (248.53 m) above mean sea level. Prior to Dec. 20, 1954, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years, 126 ft^3/s (3.568 m^3/s), 22.22 in/yr (564 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,430 ft^3/s(125 m^3/s) June 10 (gage height, 14.16 ft or 4.316 m); minimum, 76 ft^3/s (2.15 m^3/s) Oct. 27, 28 (gage height, 2.24 ft or 0.683 m).

Period of record: Maximum discharge, 7,050 ft^3/s (200 m^3/s) June 5, 1957 (gage height, 18.53 ft or 5.65 m); minimum, 21 ft^3/s (0.59 m^3/s) Sept. 8, 9, 28, 30, Oct. 1-3, 5-7, 11-13, 1954.

Flood of 1916 reached a stage of about 23 ft (7.0 m), from records of North Carolina State Highway Commission.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	508	91	123	637	176	174	186	142	175	188	129	168
2	343	84	113	325	231	166	179	143	161	169	149	189
3	203	84	107	282	249	162	185	144	146	158	1,410	179
4	149	84	103	268	215	157	1,360	143	139	180	789	167
5	123	86	601	238	190	155	748	279	134	493	444	160
6	113	82	279	218	188	151	373	217	219	244	877	258
7	107	84	181	203	190	147	278	175	755	225	448	225
8	105	84	153	186	238	143	267	160	499	326	505	187
9	101	86	171	195	215	141	261	156	298	239	492	174
10	101	82	145	186	193	139	220	150	906	216	403	167
11	99	82	133	186	181	137	204	146	767	206	477	163
12	95	84	127	176	169	137	194	312	310	184	630	221
13	93	84	133	164	162	137	313	208	235	170	685	430
14	91	84	127	162	166	129	251	169	203	162	378	227
15	87	84	125	162	155	129	222	155	214	154	308	189
16	87	87	127	155	203	133	199	149	209	149	276	178
17	84	82	121	151	195	127	189	145	185	218	255	172
18	84	82	115	147	176	125	180	146	167	169	314	168
19	84	82	111	145	186	131	175	155	158	153	340	157
20	84	80	171	147	174	139	168	181	228	153	250	153
21	84	228	402	372	162	238	164	160	217	164	230	152
22	82	157	213	244	875	166	166	155	190	143	215	151
23	84	109	171	200	389	147	199	249	176	147	207	147
24	84	99	151	186	268	141	164	189	155	151	199	143
25	82	95	143	176	223	137	158	159	157	144	193	144
26	80	95	1,490	193	200	133	155	152	148	139	189	143
27	80	119	728	334	188	131	154	217	278	164	182	144
28	82	359	340	265	178	131	150	162	509	240	177	264
29	99	195	254	233	------	271	147	152	331	153	183	161
30	84	139	231	205	------	356	145	150	222	141	184	146
31	84	------	399	190	------	236	------	169	------	132	171	------
TOTAL	3,666	3,273	7,788	6,931	6,335	4,946	7,754	5,389	8,491	5,874	11,689	5,527
MEAN	118	109	251	224	226	160	258	174	283	189	377	184
MAX	508	359	1,490	637	875	356	1,360	312	906	493	1,410	430
MIN	80	80	103	145	155	125	145	142	134	132	129	143
CFSM	1.53	1.42	3.26	2.91	2.94	2.08	3.35	2.26	3.68	2.45	4.90	2.39
IN.	1.77	1.58	3.76	3.35	3.06	2.39	3.75	2.60	4.10	2.84	5.65	2.67

CAL YR 1973 TOTAL 70,527 MEAN 193 MAX 1,650 MIN 80 CFSM 2.51 IN 34.07
WTR YR 1974 TOTAL 77,663 MEAN 213 MAX 1,490 MIN 80 CFSM 2.77 IN 37.52

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 5	1200	6.03	1,210	6-27	2400	5.43	1,030
12-26	1700	11.86	3,390	7- 5	0400	5.24	972
12-31	2300	5.97	1,190	8- 3	2000	11.56	3,270
2-22	0900	7.80	1,810	8- 6	0300	6.88	1,490
4- 4	1500	10.53	2,840	8-10	2300	5.00	900
6- 7	0400	6.17	1,260	8-12	2200	7.88	1,840
6-10	2300	14.16	4,430	9-13	0200	5.39	1,020

02149702 Green River near Saluda, N. C.

LOCATION.--Lat 35°18'20", long 82°16'31", Polk County, on left bank 90 ft (27 m) upstream from bridge on Secondary Road 1151, 2,100 ft (640 m) downstream from Laurel Branch, and 6.5 mi (10.5 km) northeast of Saluda.

DRAINAGE AREA.--104 mi^2 (269 km^2).

GAGE.--Water-stage recorder. Altitude of gage is 945 ft or 288 m (from topographic map).

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

EXTREMES.--Current year: Maximum discharge, 5,400 ft^3/s (153 m^3/s) Dec. 26 (gage height, 8.69 ft or 2.649 m); minimum, 69 ft^3/s (1.95 m^3/s) Nov. 17, 18, 19, 20 (gage height, 2.01 ft or 0.613 m); minimum daily, 78 ft^3/s (2.21 m^3/s) Oct. 21.
Period of record: Maximum discharge, 5,440 ft^3/s (154 m^3/s) May 28, 1973 (gage height, 8.72 ft or 2.658 m); minimum, 69 ft^3/s (1.95 m^3/s) Nov. 17, 18, 19, 20, 1973 (gage height, 2.01 ft or 0.613 m); minimum daily, 78 ft^3/s (2.21 m^3/s) Oct. 21, 1973.

REMARKS.--Records good. Flow regulated since 1920 by Lake Summit (capacity, 13,200 acre-ft or 16.3 hm^3) 11 mi (18 km) upstream in Henderson County. Lake is used for power development and recreation. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	440	146	151	1,400	366	377	348	320	238	215	131	162
2	608	132	143	808	410	253	323	274	188	290	201	137
3	475	134	198	714	582	373	596	294	232	109	892	178
4	287	108	209	684	506	377	1,730	298	229	168	729	182
5	171	131	1,100	611	406	377	1,340	384	227	434	501	180
6	161	134	670	572	406	373	785	471	247	525	698	249
7	153	132	490	548	447	369	650	359	469	443	521	307
8	212	134	471	525	525	296	638	263	410	327	497	234
9	212	132	390	539	413	207	627	383	238	227	490	137
10	153	98	235	516	348	256	567	440	348	253	443	132
11	125	94	234	520	341	355	558	217	180	185	328	131
12	146	116	288	479	384	362	525	645	218	177	338	124
13	146	129	240	330	323	355	506	505	227	161	414	157
14	89	93	308	377	421	348	511	385	299	206	312	143
15	190	120	165	373	456	283	438	368	201	179	201	133
16	173	134	163	369	479	215	448	370	229	182	227	128
17	138	98	167	355	497	199	492	360	244	203	220	132
18	136	94	253	262	399	256	410	330	158	206	207	207
19	112	112	151	299	413	369	391	201	168	203	302	114
20	106	120	399	309	327	359	250	305	327	175	288	157
21	78	238	743	726	296	447	332	386	224	175	183	130
22	132	171	472	539	1,050	443	425	243	218	118	199	135
23	136	198	312	506	732	265	512	348	180	276	193	122
24	136	136	197	502	577	265	333	348	212	157	180	127
25	136	166	208	492	539	277	346	265	302	151	143	126
26	134	148	2,830	465	520	299	272	277	204	174	214	121
27	132	232	2,080	438	502	256	289	366	280	195	184	174
28	82	457	814	548	474	268	306	348	290	151	165	335
29	151	385	606	525	------	650	287	334	235	145	185	353
30	138	403	667	506	------	661	368	348	116	137	191	184
31	136	------	832	465	------	529	------	262	------	130	187	------
TOTAL	5,624	4,925	16,186	16,302	13,139	10,719	15,603	10,697	7,338	6,677	9,964	5,131
MEAN	181	164	522	526	469	346	520	345	245	215	321	171
MAX	608	457	2,830	1,400	1,050	661	1,730	645	469	525	892	353
MIN	78	93	143	262	296	199	250	201	116	109	131	114

CAL YR 1973 TOTAL 155,694 MEAN 427 MAX 3,400 MIN 78
WTR YR 1974 TOTAL 122,305 MEAN 335 MAX 2,830 MIN 78

02151000 Second Broad River at Cliffside, N. C.

LOCATION.--Lat 35°14'08", long 81°45'57", Rutherford County, on left bank 0.2 mi (0.3 km) downstream from dam at Cliffside Mills, at Cliffside, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--211 mi² (546 km²).

PERIOD OF RECORD.--June 1925 to current year.

GAGE.--Water-stage recorder. Datum of gage is 670.5 ft (204.37 m) above mean sea level (levels by Soil Conservation Service).

AVERAGE DISCHARGE.--49 years, 305 ft³/s (8.638 m³/s), 19.63 in/yr (499 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,090 ft³/s (116 m³/s) Apr. 5 (gage height, 6.43 ft or 1.960 m); minimum, 11 ft³/s (0.31 m³/s) July 16 (gage height, 0.59 ft or 0.180 m); minimum daily, 151 ft³/s (4.28 m³/s) Oct. 27.

Period of record: Maximum discharge, 15,000 ft³/s (425 m³/s) Aug. 14, 1940 (gage height, 17.93 ft or 5.465 m); minimum, 4 ft³/s (0.11 m³/s) Sept. 27, 1935, Aug. 3, 1937, July 24, 1943; minimum daily, 6 ft³/s (0.17 m³/s) June 9, 1940.

REMARKS.--Records good. Considerable diurnal fluctuation and some low-flow regulation by mills above station.

REVISIONS (WATER YEARS).--WSP 892: 1928(M), drainage area. WSP 1553: 1935-39(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	682	219	233	1,810	435	375	584	309	343	336	214	203
2	607	206	217	932	592	361	517	325	331	298	383	202
3	457	198	205	790	1,040	355	749	342	319	277	320	217
4	323	199	204	745	846	341	2,030	311	297	269	655	212
5	284	203	578	609	590	338	3,830	469	279	312	448	199
6	235	194	898	518	506	334	1,430	582	271	561	399	239
7	230	180	406	468	527	330	794	417	553	494	340	345
8	226	185	317	412	765	323	659	365	548	406	408	251
9	251	186	308	397	719	312	721	1,090	438	348	749	230
10	233	183	276	407	571	317	578	785	364	335	488	209
11	228	181	257	376	492	313	519	461	1,120	292	387	202
12	222	182	242	367	438	308	484	550	722	274	347	196
13	221	184	246	328	407	308	543	517	442	256	328	414
14	214	187	279	320	401	300	524	409	365	250	296	321
15	209	184	255	316	398	295	474	357	332	237	271	255
16	209	188	274	310	465	311	432	323	330	267	262	237
17	209	185	263	301	572	320	406	316	441	250	335	221
18	200	184	244	290	469	303	393	305	321	276	270	224
19	200	185	235	286	462	299	375	304	292	244	463	209
20	203	179	280	287	469	364	361	334	281	231	339	197
21	204	197	859	1,230	402	550	354	316	332	260	289	194
22	204	361	568	908	829	629	353	317	302	229	255	229
23	203	238	401	582	1,020	430	434	405	322	229	236	223
24	205	210	342	486	618	381	385	433	284	262	225	199
25	200	199	310	468	509	368	355	323	273	247	219	198
26	243	199	636	486	444	352	339	306	266	236	218	201
27	151	228	2,520	643	410	327	326	438	319	228	207	196
28	199	247	971	657	393	319	323	365	659	245	204	726
29	221	397	567	753	------	477	323	310	564	485	204	368
30	210	236	588	564	------	1,430	312	300	399	274	207	268
31	201	------	595	489	------	862	------	306	------	217	201	------
TOTAL	7,884	6,304	14,574	17,535	15,789	12,632	19,907	12,690	12,109	9,125	10,167	7,585
MEAN	254	210	470	566	564	407	664	409	404	294	328	253
MAX	682	397	2,520	1,810	1,040	1,430	3,830	1,090	1,120	561	749	726
MIN	151	179	204	286	393	295	312	300	266	217	201	194
CFSM	1.20	1.00	2.23	2.68	2.67	1.93	3.15	1.94	1.91	1.39	1.55	1.20
IN.	1.39	1.11	2.57	3.09	2.78	2.23	3.51	2.24	2.13	1.61	1.79	1.34

CAL YR 1973 TOTAL 165,216 MEAN 453 MAX 5,470 MIN 151 CFSM 2.15 IN 29.13
WTR YR 1974 TOTAL 146,301 MEAN 401 MAX 3,830 MIN 151 CFSM 1.90 IN 25.79

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 5	1430	6.43	4,090				

02151500 Broad River near Boiling Springs, N. C.

LOCATION.--Lat 35°12'39", long 81°41'52", Cleveland County, on right bank 0.5 mi (0.8 km) upstream from Sandy Run Creek and bridge on Secondary Road 1186, 3 mi (5 km) downstream from Second Broad River, and 3.5 mi (5.6 km) southwest of Boiling Springs.

DRAINAGE AREA.--864 mi^2 (2,238 km^2).

PERIOD OF RECORD.--June 1925 to current year.

GAGE.--Water-stage recorder. Datum of gage is 639.92 ft (195.048 m) above mean sea level (Duke Power Co. bench mark). Prior to July 20, 1934, at site 500 ft (152 m) upstream at datum 1 ft (0.305 m) higher.

AVERAGE DISCHARGE.--49 years, 1,475 ft^3/s (41.77 m^3/s), 23.18 in/yr (589 mm/yr).

EXTREMES.--Current year: Maximum discharge,17,800 ft^3/s (504 m^3/s) Apr. 5 (gage height, 11.03 ft or 3.362 m); minimum, 563 ft^3/s (15.9 m^3/s) Oct. 23 (gage height, 1.88 ft or 0.573 m); minimum daily, 776 ft^3/s (22.0 m^3/s) Nov. 17.

Period of record: Maximum discharge, 73,300 ft^3/s (2,080 m^3/s) Aug. 16, 1928 (gage height, 24.3 ft or 7.4 m former site, present datum); minimum, 40 ft^3/s (1.13 m^3/s) Oct. 17, 1954 (gage height, 1.02 ft or 0.311 m); minimum daily, 105 ft^3/s (2.97 m^3/s) Oct. 10, 1954.

REMARKS.--Records good. Considerable diurnal fluctuation and some regulation caused by powerplants above station.

REVISIONS (WATER YEARS).--WSP 892: 1928, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,360	1,090	1,380	8,140	2,390	2,470	2,900	1,900	1,810	1,420	1,150	1,160
2	3,290	1,030	1,320	4,870	2,620	1,830	2,560	1,850	1,700	1,620	1,470	1,060
3	2,850	999	1,180	4,420	4,430	1,930	3,590	2,030	1,750	1,590	1,610	1,170
4	2,140	939	1,290	4,180	3,350	1,760	9,640	1,770	1,510	1,170	5,860	1,330
5	1,550	896	2,450	3,460	2,930	1,840	15,000	1,920	1,470	1,860	3,570	1,270
6	1,250	993	4,420	3,090	2,640	2,200	6,340	3,080	1,520	4,070	2,910	1,280
7	1,150	979	3,040	2,450	2,620	1,760	4,480	2,690	3,260	2,720	3,070	2,360
8	997	1,000	1,910	2,560	3,640	2,060	4,080	2,030	3,380	2,290	3,380	1,810
9	1,440	1,000	2,010	2,560	3,240	1,670	3,880	3,010	2,250	2,140	3,350	1,480
10	1,200	899	1,620	2,400	2,720	1,670	3,310	3,050	1,780	1,640	2,880	1,080
11	1,080	871	1,380	2,310	2,060	1,480	3,020	2,030	3,740	1,910	2,680	975
12	1,150	979	1,420	2,300	2,370	2,070	2,750	2,350	2,680	1,720	2,510	966
13	1,140	988	1,350	2,310	2,230	1,960	2,790	3,540	2,120	1,540	2,930	1,710
14	1,060	992	1,440	1,830	2,000	1,630	3,290	2,760	1,710	1,370	2,730	1,670
15	1,010	979	1,370	1,810	2,100	1,670	3,140	2,310	1,700	1,430	2,060	1,260
16	1,010	893	1,340	2,170	2,510	1,670	2,680	2,180	1,670	1,350	1,580	1,250
17	993	776	1,300	1,830	3,050	1,560	2,440	1,880	2,110	1,260	1,680	1,180
18	1,050	843	1,450	1,690	2,240	1,540	2,140	1,730	1,360	1,760	1,670	1,200
19	986	864	1,330	1,930	2,650	1,950	2,350	1,590	1,360	1,490	1,720	1,120
20	994	955	1,340	1,580	2,400	1,790	2,070	2,100	1,360	1,160	1,780	1,070
21	885	1,010	3,360	4,440	2,040	2,440	1,820	2,270	1,710	1,270	1,830	1,070
22	939	1,700	3,270	4,180	4,260	3,090	2,000	1,860	1,740	1,250	1,500	1,150
23	884	1,300	1,980	2,890	4,910	2,260	2,570	1,970	1,610	1,300	1,410	1,140
24	980	1,260	1,650	2,540	3,540	1,830	2,490	2,580	1,190	1,470	1,360	1,070
25	998	1,120	1,440	2,520	2,660	1,960	1,860	1,860	1,540	1,420	1,340	1,020
26	1,010	1,120	3,230	2,570	2,420	1,990	2,360	1,710	1,550	1,290	1,250	1,080
27	909	1,210	11,800	2,930	2,260	1,770	1,960	2,190	1,860	1,180	1,570	1,000
28	895	1,240	5,260	3,030	2,180	1,590	1,700	2,130	3,040	1,350	1,140	2,330
29	958	2,390	3,710	3,310	------	2,630	1,690	1,870	2,680	1,640	1,160	2,150
30	1,050	1,800	3,720	2,800	------	5,220	2,020	1,700	2,130	1,280	1,230	1,490
31	1,020	------	3,480	2,530	------	4,230	------	1,830	------	1,200	1,390	------
TOTAL	39,228	33,115	77,240	91,630	78,460	65,520	102,920	67,770	59,290	50,160	65,770	39,901
MEAN	1,265	1,104	2,492	2,956	2,802	2,114	3,431	2,186	1,976	1,618	2,122	1,330
MAX	3,290	2,390	11,800	8,140	4,910	5,220	15,000	3,540	3,740	4,070	5,860	2,360
MIN	884	776	1,180	1,580	2,000	1,480	1,690	1,590	1,190	1,160	1,140	966
CFSM	1.46	1.28	2.88	3.42	3.24	2.45	3.97	2.53	2.29	1.87	2.46	1.54
IN.	1.69	1.43	3.33	3.95	3.38	2.82	4.43	2.92	2.55	2.16	2.83	1.72

CAL YR 1973 TOTAL 846,961 MEAN 2,320 MAX 17,100 MIN 776 CFSM 2.69 IN 36.47
WTR YR 1974 TOTAL 771,004 MEAN 2,112 MAX 15,000 MIN 776 CFSM 2.44 IN 33.20

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	1200	9.02	13,300	4- 5	0500	11.03	17,800
1- 1	0930	7.46	10,100				

02152100 First Broad River near Casar, N. C.

LOCATION.--Lat 35°29'35", long 81°40'56", Cleveland County, on right bank 570 ft (174 m) upstream from bridge on Secondary Road 1530, 0.5 mi (0.8 km) upstream from No Business Creek, and 4.0 mi (6.4 km) southwest of Casar.

DRAINAGE AREA.--59.5 mi^2 (154.1 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-56, March 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 890 ft or 271 m (from topographic map).

AVERAGE DISCHARGE.--15 years, 92.0 ft^3/s (2.605 m^3/s), 21.00 in/yr (533 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,450 ft^3/s (41.1 m^3/s) Apr. 4 (gage height, 6.34 ft or 1.932 m); minimum, 44 ft^3/s (1.25 m^3/s) Nov. 6 (gage height, 1.05 ft or 0.320 m).
Period of record: Maximum discharge, 6,580 ft^3/s (186 m^3/s) Aug. 10, 1970 (gage height, 15.22 ft or 4.639 m); minimum, 17 ft^3/s (0.48 m^3/s) July 20, 1970 (gage height, 0.97 ft or 0.296 m). 0.296
Flood of 1916 and August 1940 reached a stage of about 25 ft (7.6 m), from information by local resident.
A discharge of 14.5 ft^3/s (0.41 m^3/s) was measured on Sept. 21, 1955.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	50	51	360	97	90	129	76	94	88	66	63
2	167	47	52	190	142	87	115	77	84	79	81	68
3	88	46	49	169	197	84	108	79	78	75	156	68
4	67	46	49	160	150	82	618	76	74	76	168	77
5	64	46	359	139	120	80	602	156	71	119	134	63
6	58	45	150	122	114	79	245	131	72	169	102	118
7	56	45	88	107	121	77	170	100	137	214	91	105
8	56	46	73	96	171	75	156	89	98	147	125	77
9	57	46	77	97	160	74	159	409	85	108	529	71
10	57	45	70	92	127	73	131	163	184	93	187	67
11	55	45	65	91	112	71	118	118	525	84	130	65
12	54	46	62	86	100	72	113	243	152	78	135	101
13	52	46	67	80	94	72	127	177	113	74	129	257
14	52	46	72	77	94	69	115	125	96	71	97	89
15	50	46	67	79	88	69	109	106	98	69	91	77
16	50	49	70	77	121	78	101	95	106	67	86	72
17	48	46	70	74	122	73	97	88	103	454	83	70
18	47	45	65	72	108	69	94	83	85	137	98	69
19	48	45	63	72	113	84	92	89	79	99	118	64
20	48	45	124	73	104	92	89	86	78	89	100	63
21	47	62	355	539	94	175	87	83	80	86	82	71
22	47	63	143	223	298	137	87	83	77	78	76	78
23	47	49	101	141	205	102	119	145	76	86	73	66
24	47	47	85	114	145	90	92	103	70	85	71	63
25	46	47	76	106	120	85	87	84	72	79	69	62
26	46	48	570	122	103	81	85	81	69	74	68	62
27	45	52	401	180	97	78	83	123	94	74	67	61
28	47	90	167	171	93	77	81	89	274	72	66	294
29	54	65	122	159	------	150	79	82	170	125	65	97
30	47	54	122	129	------	293	77	83	105	78	64	76
31	47	------	135	111	------	182	------	87	------	69	63	------
TOTAL	1,904	1,498	4,020	4,308	3,610	3,000	4,365	3,609	3,499	3,296	3,470	2,634
MEAN	61.4	49.9	130	139	129	96.8	146	116	117	106	112	87.8
MAX	210	90	570	539	298	293	618	409	525	454	529	294
MIN	45	45	49	72	88	69	77	76	69	67	63	61
CFSM	1.03	.84	2.18	2.34	2.17	1.63	2.45	1.95	1.97	1.78	1.88	1.48
IN.	1.19	.94	2.51	2.69	2.26	1.88	2.73	2.26	2.19	2.06	2.17	1.65

CAL YR 1973 TOTAL 41,054 MEAN 112 MAX 1,880 MIN 45 CFSM 1.88 IN 25.67
WTR YR 1974 TOTAL 39,213 MEAN 107 MAX 618 MIN 45 CFSM 1.80 IN 24.52

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	1830	6.30	1,440	6-11	0200	6.16	1,380
4- 4	1830	6.34	1,450	7-17	0500	6.28	1,430

02152610 Sugar Branch near Boiling Springs, N. C.

LOCATION.--Lat 35°15'00", long 81°37'20", Cleveland County, on left downstream wingwall of culvert on State Highway 150, 0.5 mi (0.8 km) upstream from mouth, and 2.8 mi (4.5 km) east of Boiling Springs.

DRAINAGE AREA.--1.49 mi^2 (3.86 km^2).

PERIOD OF RECORD.--Annual maximum, water years 1954-68, June 1968 to current year.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Datum of gage is 696.83 ft (212.394 m) above mean sea level. June 10, 1953 to May 31, 1968, crest-stage gage on left bank 31 ft (9 m) upstream from culvert entrance at datum 16.37 ft (4.990 m) higher.

AVERAGE DISCHARGE.--6 years, 2.44 ft^3/s (0.0691 m^3/s), 22.24 in/yr (565 mm/yr).

EXTREMES.--Current year: Maximum discharge, 692 ft^3/s (19.6 m^3/s) Apr. 3 (gage height, 5.78 ft or 1.762 m), from rating curve extended as explained below; minimum, 0.26 ft^3/s (0.007 m^3/s) Sept. 2 (gage height, 1.02 ft or 0.311 m).

Period of record: Maximum discharge, 1,110 ft^3/s (31.4 m^3/s) Oct. 16, 1971 (gage height, 6.58 ft or 2.01 m), from rating curve extended above 120 ft^3/s (3.40 m^3/s) on basis of computation of peak flow through culvert; minimum, 0.19 ft^3/s (0.005 m^3/s) Sept. 7, 1968 (gage height, 0.95 ft or 0.290 m).

REMARKS.--Records fair. Diurnal fluctuation at low flow during growing season. Recording rain gage discontinued Apr. 3, 1974.

REVISIONS (WATER YEARS).--WRD N. C. 1970: 1968(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.98	.74	.70	13	1.9	1.6	2.2	1.4	1.3	1.2	1.4	.46
2	.83	.68	.70	3.2	21	1.5	2.2	1.9	1.3	1.1	1.1	.42
3	.86	.68	.70	4.8	7.2	1.5	39	2.9	1.2	1.0	.89	3.6
4	.82	.68	.72	4.0	2.9	1.4	44	1.6	1.1	1.1	.83	1.0
5	.78	.68	4.8	2.4	2.4	1.5	19	2.4	1.1	1.1	.76	.64
6	.74	.66	2.0	2.1	2.6	1.5	4.0	1.9	1.1	1.1	.73	1.4
7	.72	.66	1.2	2.0	5.6	1.4	2.9	1.7	1.3	1.1	.73	.73
8	.72	.68	.95	1.8	8.6	1.4	4.6	1.6	1.9	1.0	2.7	.68
9	.72	.70	1.2	2.2	2.6	1.4	2.9	7.5	1.2	.96	1.4	.63
10	.74	.67	.80	1.9	2.3	1.4	2.4	2.1	1.2	.93	.86	.59
11	.72	.68	.75	1.8	2.1	1.4	2.3	2.9	1.1	.89	.79	.62
12	.71	.70	.66	1.6	2.3	1.4	2.2	8.2	1.1	.86	.76	.61
13	.70	.70	.83	1.5	2.0	1.3	4.2	2.3	1.0	.86	.76	.58
14	.71	.70	.76	1.5	1.9	1.3	2.3	2.1	1.0	.83	.73	.56
15	.69	.70	.86	1.5	3.6	1.3	2.1	1.9	1.0	.79	.70	.58
16	.68	.76	1.0	1.5	2.5	1.4	2.1	1.7	1.0	.76	.76	.59
17	.68	.69	1.0	1.4	2.1	1.3	2.0	1.6	1.0	.73	.70	.62
18	.64	.70	.83	1.4	2.7	1.3	2.0	1.5	.93	.73	.73	.61
19	.65	.70	.79	1.3	2.1	1.4	1.9	1.5	.93	.73	.70	.54
20	.65	.70	2.7	1.5	1.9	1.6	1.8	1.5	.96	.73	.61	.53
21	.65	.85	2.1	23	1.9	5.4	1.8	1.5	.93	.73	.61	.52
22	.64	.74	1.4	3.0	4.4	1.8	1.8	1.4	.89	.70	.58	.58
23	.65	.72	1.2	2.3	2.1	1.6	1.9	2.1	.93	.73	.56	.52
24	.66	.72	1.1	2.3	1.9	1.5	1.7	1.5	.83	.79	.56	.49
25	.65	.72	1.0	2.2	1.8	1.7	1.7	1.3	.83	.76	.53	.50
26	.64	.73	4.6	3.3	1.7	1.5	1.6	1.4	.83	.67	.51	.49
27	.63	.73	3.2	2.4	1.7	1.5	1.6	2.1	8.6	.70	.51	.49
28	.67	.82	2.3	4.2	1.6	1.5	1.5	1.4	5.9	.76	.48	1.3
29	1.0	.71	3.2	2.6	------	9.3	1.5	1.3	1.5	.64	.46	.56
30	.68	.70	3.0	2.3	------	12	1.5	1.3	1.3	.61	.44	.49
31	.69	------	19	2.1	------	2.6	------	1.3	------	.56	.46	------
TOTAL	22.30	21.30	66.05	102.1	97.4	68.7	162.7	66.8	45.26	26.15	24.34	21.93
MEAN	.72	.71	2.13	3.29	3.48	2.22	5.42	2.15	1.51	.84	.79	.73
MAX	1.0	.85	19	23	21	12	44	8.2	8.6	1.2	2.7	3.6
MIN	.63	.66	.66	1.3	1.6	1.3	1.5	1.3	.83	.56	.44	.42
CFSM	.48	.48	1.43	2.21	2.34	1.49	3.64	1.44	1.01	.56	.53	.49
IN.	.56	.53	1.65	2.55	2.43	1.72	4.06	1.67	1.13	.65	.61	.55

CAL YR 1973 TOTAL 1,055.29 MEAN 2.89 MAX 67 MIN .63 CFSM 1.94 IN 26.35
WTR YR 1974 TOTAL 725.03 MEAN 1.99 MAX 44 MIN .42 CFSM 1.34 IN 18.10

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4- 3	2000	5.78	692	4- 4	1245	3.28	204

Lakes and Reservoirs in South Atlantic Slope basin

02067800; 02067820 TALBOTT AND TOWNES RESERVOIRS 1/.--On Dan River. The two reservoirs are operated as a unit for storage of water for Pinnacles hydroelectric plant. Talbott Dam (drainage area, 20.2 mi^2 or 52.3 km^2), lat 36°40'36", long 80°23'51", Patrick County, Va., 4.5 mi (7.2 km) northeast of Kibler. Townes Dam (drainage area, 32.9 mi^2 or 85.2 km^2), lat 36°41'11", long 80°25'49", Patrick County, Va., 4 mi (6.4 km) north of Kibler. Records available, February 1939 to December 1945 and January 1948 to September 1960 (combined month-end contents only published in WSP 1723), October 1960 to current year.
Total capacity of Talbott Reservoir, 350,000,000 ft^3 (9,900,000 m^3) and Townes Reservoir, 60,000,000 ft^3 (1,700,000 m^3). Storage was started in Talbott Reservoir on Feb. 13, 1939, and in Townes Reservoir several months earlier. Records furnished by City of Danville, Va. (See sta 02068500)

02077280 HYCO LAKE.--Lat 36°30'28", long 79°02'48", Person County, at outlet control structure 0.4 mi (0.6 km) northwest of dam on Hyco River, 1.1 mi (1.8 km) southwest of McGehees Mill and 8 mi (13 km) northwest of Roxboro. Drainage area 189 mi^2 (499 km^2). Records available October 1964 to current year. Prior to October 1970 published as "Roxboro Steam-Electric Generating Plant Lake". Gage, water-stage recorder and tape gage. Prior to Feb. 11, 1965 staff gage at upstream end of outlet control structure. Datum of gage is 399.79 ft (121.856 m) above mean sea level, unadjusted (levels by Carolina Power and Light Co).
Lake, used for cooling water at the Roxboro Steam-electric Generating Plant of Carolina Power and Light Co. first began to fill Sept. 19, 1964 and first reached spillway elevation (9.97 ft or 3.039 m gage height) Mar. 19, 1965. Total capacity at top of spillway is 3,288,000,000 ft^3 (93,120,000 m^3). Lake cannot be drawn below -0.03 ft or -0.009 m (bottom of gated flume).

02079964 LAKE GASTON.--Lat 36°30'04", long 77°48'43", Halifax County, at Gaston Dam on Roanoke River, 0.2 mi (0.3 km) upstream from Black Gut Creek, and 2.7 mi (4.3 km) northwest of Thelma. Drainage area, 8,339 mi^2 (21,598 km^2). Records available, October 1962 to current year. Gage, water-stage recorder and staff gage. Datum of gage is at mean sea level.
Lake, used mainly for hydroelectric power development, was first filled Oct. 13-15, 1962, and has a total capacity of 22,434,000,000 ft^3 (635,330,000 m^3). Usable capacity is 20,127,000,000 ft^3 (570,000,000 m^3) between elevations 165 ft or 50.3 m and 203 ft or 61.9 m (top of spillway gates) of which 2,788,000,000 ft^3 (78,960,000 m^3) between elevations 200 ft (61.0 m) and 203 ft (61.9 m) is reserved for flood control. Storage for power generation is 10,673,000,000 ft^3 (302,260,000 m^3) between elevations 185 ft (56.4 m) and 200 ft (61.0 m). Records furnished by Virginia Electric and Power Co. (See sta 02080500)

02080100 ROANOKE RAPIDS LAKE.--Lat 36°29'10", long 77°39'31", Halifax County, at Roanoke Rapids Dam on Roanoke River, 1.5 mi (2.4 km) upstream from bridge on State Highway 48, and 2.2 mi (3.5 km) north of Roanoke Rapids. Drainage area, 8,395 mi^2 (21,743 km^2). Records available, June 1955 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, water-stage recorder and staff gage. Datum of gage is at mean sea level.
Lake, used for hydroelectric power development, was put in operation June 25, 1955, and has a total capacity of 3,360,220,000 ft^3 (95,161,400 m^3) at normal highwater elevation of 132.0 ft (40.23 m) and 3,515,290,000 ft^3 (99,553,000 m^3) at elevation 132.75 ft or 40.462 m (top of gates). Records furnished by Virginia Electric and Power Co. (See sta 02080500)

02086490 LAKE MICHIE.--Lat 36°09'02", long 78°49'49", Durham County, at Durham municipal dam on Flat River, 3 mi (5 km) southeast of Bahama, and 5 mi (8 km) upstream from confluence with Eno River. Drainage area, 170 mi^2 (440 km^2) approximately. Records available, October 1962 to current year. Gage, water-stage recorder and wire-weight gage at dam. Datum of gage is 0.47 ft (0.143 m) below mean sea level.
Lake, used for municipal water supply, began filling in May 1926 and reached spillway elevation Dec. 26, 1926. Total capacity is 618,000,000 ft^3 (17,500,000 m^3) between elevations (gage datum) 300.0 ft (91.44 m) and 341 ft or 103.9 m (crest of spillway). (See sta 02087000)

02111391 W. KERR SCOTT RESERVOIR.--Lat 36°08'04", long 81'13'30", Wilkes County, at W. Kerr Scott Dam on Yadkin River, 0.1 mi (0.2 km) upstream from Fish Trap Creek, 2.0 mi (3.2 km) upstream from Millers Creek, and 4.0 mi (6.4 km) west of Wilkesboro. Drainage area, 350 mi^2 (910 km^2), approximately. Records available, August 1962 to current year. Gage, water-stage recorder and staff gage at dam. Datum of gage is at mean sea level.
Lake, used for flood control, low-flow augmentation and recreation. Some storage was affected during construction in July 1962, but gates were closed Aug. 22, 1962, and reservoir reached minimum pool elevation on Sept. 11, 1962. Total capacity is 6,664,680,000 ft^3 (188,744,000 m^3) of which 6,316,200,000 ft^3 (178,870,000 m^3) is controlled storage. Records furnished by Corps of Engineers. (See sta 02129000)

02122400 HIGH ROCK LAKE.--Lat 35°36'02", long 80°14'06", Davidson County, at High Rock Dam on Yadkin River, 0.8 mi (1.3 km) northwest of High Rock, 2 mi (3 km) upstream from Lick Creek, and 256 mi (412 km) upstream from mouth of Pee Dee River in Winyah Bay. Drainage area, 4,000 mi^2 (10,400 km^2), approximately. Records available, November 1927 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, water-stage recorder and staff gage at dam. Datum of gage is 30.9 ft (9.42 m) below mean sea level.
Lake, used for hydroelectric power development, was first put in operation Nov. 7, 1927. Total capacity is 11,090,000,000 ft^3 (314,100,000 m^3) and usable capacity is 10,230,000,000 ft^3 (289,700,000 m^3) between elevations 625 ft (190 m) and 655 ft (200 m) gage datum (top of gates). Records furnished by Yadkin, Inc. (See sta 02129000)

02122699 TUCKERTOWN RESERVOIR.--Lat 35°29'03", long 80°10'30", Stanly County, at Tuckertown Dam on Yadkin River, 2.5 mi (4.0 km) upstream from Garr Creek, 3.8 mi (6.1 km) northeast of New London, and 250 mi (400 km) upstream from mouth of Pee Dee River in Winyah Bay. Drainage area, 4,120 mi^2 (10,670 km^2), approximately. Records available April 1962 to current year. Gage, remote water-stage recorder in powerhouse. Datum of gage is 30.9 ft (9.42 m) below mean sea level.
Lake, used for hydroelectric power development, was first filled Apr. 6, 1962. Total capacity is 1,852,400,000 ft^3 (52,460,000 m^3) and usable capacity is 293,800,000 ft^3 (8,320,000 m^3) between elevations 593 ft (181 m) and 596 ft (182 m) gage datum. Records furnished by Yadkin, Inc. (See sta 02129000)

1/ Included in this report because they materially affect runoff at Dan River near Francisco.

Lakes and Reservoirs in South Atlantic Slope basin--Continued

02122844 BADIN LAKE.--Lat 35°25'10", long 80°05'34", Stanly County, at Badin Dam on Yadkin River, 1.5 mi (2.4 km) northeast of Badin, 2.5 mi (4.0 km) upstream from Falls Dam, and 242 mi (389 km) upstream from mouth of Pee Dee River in Winyah Bay. Drainage area, 4,180 mi^2 (10,800 km^2), approximately. Records available, December 1917 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, water-stage recorder and staff gage at dam. Datum of gage is 30.9 ft (9.42 m) below mean sea level.

Lake (generally known as Narrows Reservoir), used for hydroelectric power development, was first put in operation July 12, 1917. Total capacity is 10,497,960,000 ft^3 (297,302,200 m^3) and usable capacity is 5,616,584,000 ft^3 (159,061,600 m^3) between elevations 510.00 ft (155.448 m) and 541.10 ft (164.927 m). Records furnished by Yadkin, Inc. (See sta 02129000)

02123736 LAKE TILLERY.--Lat 35°12'24", long 80°03'57", Stanly County, at Norwood Dam on Pee Dee River, 700 ft (213 m) upstream from Norfolk Southern Railroad bridge, 3.5 mi (5.6 km) southeast of Norwood, 5 mi (8 km) upstream from Rocky River, and 224 mi (360 km) upstream from mouth in Winyah Bay. Drainage area, 4,600 mi^2 (12,000 km^2), approximately. Records available, February 1928 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, water-stage recorder and float-tape gage at dam. Datum of gage is 38.67 ft (11.787 m) above mean sea level (levels by Carolina Power and Light Co.).

Lake, used for hydroelectric power development, was first put in operation during January 1928. Total capacity is 7,274,520,000 ft^3 (206,014,000 m^3) and usable capacity is 5,927,040,000 ft^3 (167,854,000 m^3) between elevations 200.5 ft (61.11 m) and 239.5 ft (73.00 m) gage datum (top of gates). Records furnished by Carolina Power and Light Co. (See sta 02129000).

02128800 BLEWETT FALLS LAKE.--Lat 34°58'58", long 79°52'40", Richmond County, at Blewett Falls Dam on Pee Dee River, 1.2 mi (1.9 km) upstream from Cartledge Creek, 6.5 mi (10.5 km) northwest of Rockingham, and 195 mi (314 km) upstream from mouth in Winyah Bay. Drainage area, 6,830 mi^2 (18,000 km^2), approximately. Records available, December 1929 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, self-synchronous motor, dial indicator and staff gage at dam. Datum of gage is 39.08 ft (11.912 m) above mean sea level (levels by Carolina Power and Light Co.).

Lake, used for hydroelectric power development was first put in use during 1911. Total capacity is 4,225,320,000 ft^3 (119,661,000 m^3) and usable capacity is 1,850,000,000 ft^3 (52,400,000 m^3) between elevations 120.0 ft (36.58 m) and 139.0 ft (42.37 m) gage datum (top of 4-foot flashboards). Records furnished by Carolina Power and Light Co. (See sta 02129000).

02138519 LAKE JAMES.--Lat 35°44'36", long 81°50'22", Burke County, at Linville Dam at intake tower on Catawba River, 2.1 mi (3.4 km) northeast of Bridgewater and 279 mi (449 km) upstream from mouth of Wateree River. Drainage area, 380 mi^2 (980 km^2), approximately. Records available, March 1920 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, float gage with self-synchronous motor to indicator in power house. Staff gage at Catawba River Dam is also read when lake elevation drops below 1,160 ft or 353.6 m (60 ft or 18.3 m, gage datum) and lake becomes two separate reservoirs. Datum of gage is 1,100.00 ft (335.280 m) above mean sea level (levels by Duke Power Co.).

Lake (generally known as Bridgewater Reservoir), used for hydroelectric power development, was first put in operation May 5, 1919. The total capacity at elevation 100.0 ft (30.48 m) gage datum (crest of spillway) is 12,581,800,000 ft^3 (356,317,000 m^3) and usable capacity is 7,943,700,000 ft^3 (224,970,000 m^3) between elevations (gage datum) 65 ft (19.8 m) and 100 ft (30.5 m). Records furnished by Duke Power Co.

02141490 RHODHISS LAKE.--Lat 35°46'54", long 81°26'42", Caldwell County, at Rhodhiss Dam on Catawba River, 0.8 mi (1.3 km) west of Rhodhiss, 1.8 mi (2.9 km) south of Granite Falls, and 243 mi (391 km) upstream from mouth of Wateree River. Drainage area, 1,090 mi^2 (2,820 km^2), approximately. Records available, September 1935 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, float gage, indicator and reference point at dam. Datum of gage is 895.1 ft (272.83 m) above mean sea level (levels by Duke Power Co.).

Lake, used for hydroelectric power development, was first put in operation Feb. 18, 1925. Total capacity is 3,188,592,000 ft^3 (90,300,900 m^3) and usable capacity is 1,717,000,000 ft^3 (48,630,000 m^3) between elevations (gage datum) 85.0 ft (25.91 m) and 100.0 ft or 30.48 m (crest of spillway). Records furnished by Duke Power Co.

02141961 LAKE HICKORY.--Lat 35°49'28", long 81°11'28", Alexander County, at Oxford Dam on Catawba River, 2 mi (3 km) upstream from Lower Little River, 7 mi (11 km) south of Taylorsville, and 226 mi (364 km) upstream from mouth of Wateree River. Drainage area, 1,310 mi^2 (3,390 km^2), approximately. Records available, September 1935 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year Gage, float gage and indicator at dam. Datum of gage is 835.0 ft (254.51 m) above mean sea level (levels by Duke Power Co.).

Lake, (generally known as Oxford Reservoir used for hydroelectric power development, was first put in operation Apr. 5, 1928. Total capacity is 5,552,985,000 ft^3 (157,260,500 m^3). Sept. 30, 1935 to Sept. 30, 1957, the usable capacity considered as 2,277,970,200 ft^3 (64,512,120 m^3) between elevations (gage datum) 85.0 ft (25.91 m) and 100.0 ft (30.48 m) (top of flood gates). From Apr. 30, 1928, to Aug. 31, 1935, and Oct. 31, 1957, to Sept. 30, 1964, usable capacity considered as 3,378,400,000 ft^3 (95,676,300 m^3) between elevations 75.0 ft (22.86 m) and 100.0 ft or 30.48 m (top of flood gates) from Oct. 1, 1964 to present, usable capacity considered as 2,277,800,000 ft^3 (64,507,000 m^3) between elevations (gage datum) 85.0 ft (25.91 m) and 100.0 ft or 30.48 m (top of flood gates). Records furnished by Duke Power Co.

02142441 LOOKOUT SHOALS LAKE.--Lat 35°45'57"long 81°05'36", Catawba County, at Lookout Shoals Dam on Catawba River, 4 mi (6 km) upstream from bridge on U. S. Highways 64 and 70, 4.2 mi (6.8 km) north of Catawba, and 216 mi (348 km) upstream from mouth of Wateree River. Drainage area, 1,450 mi^2 (3,760 km^2), approximately. Records available, December 1915 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, float gage, indicator and staff gage at dam. Datum of gage is 738.1 ft (224.97 m) above mean sea level (levels by Duke Power Co.).

Lake, used for hydroelectric power development, was first put in operation Dec. 2, 1915. Total capacity was originally, 1,355,190,000 ft^3 (38,379,000 m^3). Capacity has been reduced by silting. Prior to October 1957 the usable capacity considered as 473,980,000 ft^3 (13,423,000 m^3) and October 1957 to Sept. 30, 1964, as 388,300,000 ft^3 (11,000,000 m^3) between elevations (gage datum) 90.0 ft (27.43 m) and 100.0 ft (30.48 m) (crest of spillway). From Oct. 1, 1964 to present, usable capacity considered as 208,200,000 ft^3 (5,896,000 m^3) between elevations (gage datum) 95.0 ft (28.96 m) and 100.0 ft or 30.48 m (crest of spillway). Flood of July 16, 1916, washed out an earth dike. Records furnished by Duke Power Co.

Lakes and Reservoirs in South Atlantic Slope basin--Continued

02142647 LAKE NORMAN.--Lat 35°26'05", long 80°57'28", Mecklenburg County, at Cowans Ford Dam on Catawba River, 0.8 mi (1.3 km) upstream from Derr Creek, 7.8 mi (12.6 km) southwest of Davidson, and 182 mi (293 km) upstream from mouth of Wateree River. Drainage area, 1,790 mi^2 (4,640 km^2), approximately. Records available, March 1962 to current year. Gage, float gage with transmitter to dial meter in control room. Datum of gage is 660 ft (201.2 m) above mean sea level (levels by Duke Power Co.).

Lake, used for hydroelectric power development began filling in March 1962. Total capacity is 47,586,200,000 ft^3 (1,347,640,000 m^3) and usable capacity is 26,910,400,000 ft^3 (762,102,500 m^3) between elevations (gage datum) 75.0 ft (22.86 m) and 100 ft or 30.5 m (top of flood gates). Records furnished by Duke Power Co.

02142676 MOUNTAIN ISLAND LAKE.--Lat 35°20'03", long 80°59'12", Gaston County, at Mountain Island Dam on Catawba River, 1.5 mi (2.4 km) downstream from bridge on State Highway 16, 3 mi (5 km) northeast of Mount Holly, and 167 mi (269 km) upstream from mouth of Wateree River. Drainage area, 1,860 mi^2 (4,820 km^2), approximately. Records available, December 1923 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, float gage, indicator and staff gage at dam. Datum of gage is 547.5 ft (166.88 m) above mean sea level (levels by Duke Power Co.).

Lake, used for hydroelectric power development, was first put in operation Dec. 16, 1923. Total capacity is 2,495,988,000 ft^3 (70,686,380 m^3). Prior to October 1964 usable capacity was considered 1,132,000,000 ft^3 (32,060,000 m^3) between elevations (gage datum) 90.0 ft (27.43 m) and 100.0 ft or 30.48 m (crest of spillway) October 1964 to present considered as 845,000,000 ft^3 (23,900,000 m^3) between elevations (gage datum), 93.0 ft (28.35 m) and 100.0 ft or 30.48 m (crest of spillway). Records furnished by Duke Power Co.

OTHER RESERVOIRS.--The following smaller reservoirs in the South Atlantic Slope basins are described below, but records of contents are not published herein:

02077303 ROXBORO STEAM-ELECTRIC GENERATING PLANT AFTERBAY RESERVOIR.--Lat 36°31'51", long 78°59'50", Person County, cooling water reservoir for Carolina Power and Light Company plant, on Hyco River near McGehees Mill. Drainage area, 196 m^2 (508 km^2). Total capacity is approximately 522,720,000 ft^3 (144,803,000 m^3) with a surface area of about 650 acres (260 ha) at a normal elevation of 385 ft (117 m), above mean sea level. Dam completed May 30, 1974, and storage began Apr. 26, 1974; water in reservoir first reached normal water level elevation of 385 ft (117 m) on Aug. 22, 1974.

02087339 LAKE JOHNSON.--Lat 35°45'44", long 78°42'17", Wake County, part of Raleigh's municipal water supply, on Walnut Creek near Raleigh. Drainage area, 7.05 mi^2 (18.26 km^2). Total capacity is 98,900,000 ft^3 (2,800,000 m^3). Dam was completed in 1923 and spillway raised to its present elevation in 1951. (See sta 02087500)

02087344 LAKE RALEIGH.--Lat 35°45'56", long 78°40'38", Wake County, part of Raleigh's municipal water supply, on Walnut Creek near Raleigh. Drainage area, 12.3 mi^2 (31.9 km^2). Total capacity is 13,400,000 ft^3 (379,000 m^3). Dam completed in 1914 and raised to its present elevation in 1919. (See sta 02087500)

02087588 LAKE WHEELER.--Lat 35°41'30", long 78°41'31", Wake County, part of Raleigh's municipal water supply, on Swift Creek near Raleigh. Drainage area is 38 mi^2 (98 m^2), approximately. Total capacity is 267,400,000 ft^3 (7,573,000 m^3). Dam completed and storage began in 1956. (See sta 02087500)

02087701 LAKE BENSON.--Lat 35°39'44", long 78°36'42", Wake County, part of Raleigh's municipal water supply, on Swift Creek near Garner. Drainage area, 67 mi^2 (170 km^2), approximately. Total capacity is 133,700,000 ft^3 (3,786,000 m^3). Lake, formerly known as Rand's Mill, acquired by city of Raleigh in 1927 and spillway raised to its present elevation in 1954. (See sta 02087500)

02093981 LAKE HIGGINS.--Lat 36°10'11", long 79°52'49", Guilford County, part of Greensboro's municipal water supply, on Brush Creek near Greensboro. Drainage area, 12 mi^2 (31 km^2), approximately. Total capacity is 107,000,000 ft^3 (3,030,000 m^3). Reservoir first filled Mar. 1, 1957. (See sta 02094500)

02094117 LAKE BRANDT.--Lat 36°10'20", long 79°50'20", Guilford County, part of Greensboro's municipal water supply, on Reedy Fork and Horsepen Creek near Greensboro. Drainage area, 70.0 mi^2 (181.3 km^2), approximately. Total capacity is 294,000,000 ft^3 (8,326,000 m^3). Dam completed February 1923 and raised to present level 1959-60. Reservoir first filled at present level on Oct. 8, 1960. (See sta 02094500)

02094305 LAKE TOWNSEND.--Lat 36°11'25", long 79°43'57", Guilford County, part of Greensboro's municipal water supply, on Reedy Fork near Greensboro. Drainage area, 105 mi^2 (272 km^2). Total capacity is 869,000,000 ft^3 (24,600,000 m^3). Dam completed Oct. 18, 1968, and reservoir first filled Aug. 17, 1969. (See sta 02094500)

02096003 LAKE BURLINGTON.--Lat 36°10'25", long 79°24'53", Alamance County, part of Burlington's municipal water supply, on Stony Creek near Burlington. Drainage area, 44 mi^2 (1 4 km^2), approximately. Prior to October 1971 published as "Stony Creek Reservoir". Total capacity is 427,800,000 ft^3 (12,120,000 m^3). Dam completed August 1960 and reservoir first filled Jan. 28, 1961. (See sta 02096500)

02096432 STONY CREEK RESERVOIR.--Lat 36°07'37", long 79°24'20", Alamance County, part of Burlington's water supply on Stony Creek near Burlington. Drainage area, 95.0 mi^2 (246.0 km^2), approximately. Prior to October 1971 published as "Lake Burlington". Total capacity is 64,900,000 ft^3 (1,840,000 m^3). Dam completed and reservoir filled in 1928. (See sta 02096500)

02098495 OAK HOLLOW RESERVOIR.--Lat 36°00'42", long 79°59'11". Guilford County, part of High Point's municipal water supply, on West Fork Deep River, 1.8 mi (2.9 km) southwest of Deep River. Drainage area, 32 mi^2 (83 km^2), approximately. Total capacity is 468,000,000 ft^3 (13,300,000 m^3). Dead storage (non-withdrawal) is minor. Total surface area, about 725 acres (293 ha). Dam completed and storage began in May 1970. Reservoir first filled Dec. 24, 1970. (See sta 02099500)

02099096 HIGH POINT MUNICIPAL LAKE.--Lat 35°59'43", long 79°56'42", Guilford County, High Point's municipal water supply, on Deep River near High Point. Drainage area, 61.4 mi^2 (159 km^2). Total capacity is 220,588,000 ft^3 (6,247,050 m^3). Dam completed in 1926 and reservoir first filled in 1927. (See sta 02099500)

Lakes and Reservoirs in South Atlantic Slope basin--Continued

02102178 BUCKHORN RESERVOIR.--Lat 35°31'35", long 78°59'22", Chatham County, on Cape Fear River near Corinth. Drainage area, 3,200 mi² (8,290 km²), approximately. Usable capacity is 69,700,000 ft³ (19,700,000 m³). Completed and filled in 1908. Hydroelectric power operation stopped Dec. 31, 1962.

02121461 LEXINGTON-THOMASVILLE RESERVOIR.--Lat 35°51'54", long 80°11'41", Davidson County, Lexington and Thomasville's municipal water supply on Abbotts Creek near Lexington. Drainage area, 70.3 mi² (182 km²). Total capacity is 284,100,000 ft³ (8,046,000 m³) of which 281,400,000 ft³ (7,969,000 m³) is usable. Dam completed Aug. 8, 1957, and reservoir first filled Nov. 23, 1957.

02184122 LAKE TOXAWAY.--Lat 35°07'27", long 82°55'56", Translyvania County, recreation lake on Toxaway River at town of Lake Toxaway. Drainage area, 7.79 mi² (20.18 m²). Total surface area, about 640 acres (359 ha). Lake reached spillway elevation September 1961.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Combined contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
	02067800 02067820 Talbott & Townes Reservoirs			02077280 Hyco Lake			02079964 Lake Gaston			02080100 Roanoke Rapids Lake		
Sept. 30...........		358.3	-	8.91	3,115	-	199.35	19,036	-	131.5	3,252	-
Oct. 31...........		351.4	-6.9	8.32	3,017	-98	199.06	18,783	-253	132.1	3,382	+130
Nov. 30...........		347.6	-3.8	8.17	2,992	-25	199.79	19,419	+636	131.7	3,295	-87
Dec. 31...........		394.5	+46.9	11.43	3,527	-535	198.94	18,676	-743	131.2	3,198	-97
CAL YR 1973		-	+28.8	-	-	+117	-	-	-1,056	-	-	+263
Jan. 31...........		359.2	-35.3	10.64	3,392	-135	199.12	18,835	+159	128.8	2,760	-438
Feb. 28...........		365.7	+6.5	10.12	3,311	-81	199.79	19,419	+584	131.6	3,274	+514
Mar. 31...........		334.6	-31.1	10.27	3,335	+24	199.66	19,306	-113	130.5	3,062	-212
Apr. 30...........		348.8	+14.2	10.28	3,337	+2	200.91	20,395	+1,089	132.2	3,403	+341
May 31...........		341.1	-7.7	10.52	3,373	+36	199.03	18,757	-1,638	131.6	3,274	-129
June 30...........		362.0	+20.9	10.26	3,334	-39	199.30	18,992	+235	126.3	2,345	-929
July 31...........		334.6	-27.4	9.93	3,282	-52	199.32	19,009	+17	130.5	3,062	+717
Aug. 31...........		311.8	-22.8	10.24	3,330	+48	199.17	18,879	-130	127.8	2,597	-465
Sept. 30...........		365.7	+53.9	10.44	3,361	+31	199.36	19,044	+165	131.7	3,295	+698
WTR YR 1974		-	+7.4	-	-	+246	-	-	+8	-	-	+43

Date	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height	Contents (million cubic feet)	Change in contents (million cubic feet)
	02086490 Lake Michie			02111391 W. Kerr Scott Reservoir			02122400 High Rock Lake			02122699 Tuckertown Reservoir		
Sept. 30...........	336.59	527	-	1030.1	1,795	-	651.09	8,700	-	595.11	1,760	-
Oct. 31...........	333.78	476	-51	1030.0	1,786	-9	648.78	7,465	-1,235	595.18	1,767	+7
Nov. 30...........	331.24	432	-44	1030.0	1,786	0	641.95	4,495	-2,970	595.30	1,780	+13
Dec. 31...........	341.43	627	+195	1030.7	1,847	+61	655.00	11,090	+6,595	595.45	1,795	+15
CAL YR 1973	-	-	0	-	-	-157	-	-	+1,210	-	-	+6
Jan. 30.........	341.46	630	+3	1030.0	1,786	-61	654.67	10,879	-211	595.25	1,775	-20
Feb. 28...........	341.23	623	-7	1030.0	1,786	0	650.78	8,532	-2,347	593.52	1,606	-169
Mar. 31...........	341.64	632	+9	1030.0	1,786	0	652.59	9,577	+1,045	595.50	1,801	+195
Apr. 30...........	340.72	612	-20	1030.0	1,786	0	652.36	9,456	-121	595.15	1,764	-37
May 31...........	341.09	620	+8	1030.0	1,786	0	652.47	9,517	+61	595.33	1,783	+19
June 30...........	339.28	581	-39	1029.9	1,780	-6	653.66	10,243	+726	595.23	1,773	-10
July 31...........	337.77	551	-30	1029.9	1,780	0	652.28	9,396	-847	595.16	1,765	-8
Aug. 31...........	340.26	603	+52	1030.0	1,786	+6	651.32	8,813	-583	595.26	1,776	+11
Sept. 30...........	339.81	592	-11	1030.0	1,786	0	649.65	7,880	-933	595.17	1,766	-10
WTR YR 1974	-	-	+65	-	-	-9	-	-	-820	-	-	+6

Lakes and Reservoirs in South Atlantic Slope basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 to SEPTEMBER 1974

Date	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
	02122844 Badin Lake			02123736 Lake Tillery			02128800 Blewett Falls Lake			02138519 Lake James		
Sept. 30...........	540.50	10,357	-	239.0	5,815	-	138.3	1,776	-	88.7	9,675	-
Oct. 31...........	540.53	10,357	0	239.1	5,837	+22	138.2	1,766	-10	87.3	9,352	-323
Nov. 30...........	539.55	10,147	-210	239.0	5,815	-22	137.4	1,682	-84	86.3	9,127	-225
Dec. 31...........	540.82	10,427	+280	236.9	5,364	-451	140.8	2,030	+348	96.9	11,727	+2,600
CAL YR 1973	-	-	+303	-	-	-408	-	-	+490	-	-	+709
Jan. 31...........	540.44	10,451	+24	237.6	5,514	+150	138.9	1,840	-190	96.5	11,620	-107
Feb. 28...........	540.86	10,451	0	238.6	5,729	+215	139.7	1,920	+80	98.2	12,080	+460
Mar. 31...........	540.87	10,451	0	238.2	5,643	-86	140.3	1,980	+60	96.5	11,620	-460
Apr. 30...........	541.05	10,474	+23	238.3	5,664	+21	132.9	1,230	-750	97.9	11,998	+378
May 31...........	540.86	10,451	-23	237.8	5,557	-107	139.7	1,920	+690	97.1	11,781	-217
June 30...........	540.50	10,357	-94	239.4	5,903	+346	138.5	1,798	-122	98.8	12,246	+465
July 31...........	539.50	10,124	-233	238.3	5,664	-239	137.2	1,661	-137	97.7	11,943	-303
Aug. 31...........	540.41	10,334	+210	239.0	5,815	+151	137.8	1,724	+63	95.5	11,355	-588
Sept. 30...........	539.76	10,194	-140	239.1	5,837	+22	138.1	1,756	+32	96.9	11,727	+372
WTR YR 1974	-	-	-163	-	-	+22	-	-	-20	-	-	+2,052

Date	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
	02141490 Rhodhiss Lake			02141961 Lake Hickory			02142441 Lookout Shoals Lake			02142647 Lake Norman		
Sept. 30...........	97.2	1,311	-	96.1	1,608	-	98.1	126	-	94.8	40,630	-
Oct. 31...........	96.1	1,163	-148	96.0	1,592	-16	98.0	121	-5	95.2	41,140	+510
Nov. 30...........	98.6	1,509	+346	97.5	1,842	+250	98.6	147	+26	94.0	39,630	-1,510
Dec. 31...........	97.0	1,284	-225	99.2	2,136	+294	98.6	147	0	96.4	42,680	+3,050
CAL YR 1973	-	-	-167	-	-	+495	-	-	+4	-	-	+2,680
Jan. 31...........	96.9	1,270	-14	96.7	1,708	-428	97.4	94	-53	99.5	46,890	+4,210
Feb. 28...........	97.6	1,367	+97	97.3	1,808	+100	97.7	109	+15	99.3	46,610	-280
Mar. 31...........	98.0	1,423	+56	99.0	2,101	+293	98.1	126	+17	98.7	45,780	-830
Apr. 30...........	97.0	1,284	-139	97.6	1,859	-242	97.9	117	-9	97.3	43,880	-1,900
May 31...........	94.7	985	-299	97.2	1,791	-68	98.7	151	+34	95.5	41,520	-2,360
June 30...........	98.3	1,466	+481	97.3	1,808	+17	98.1	126	-25	97.6	44,280	+2,760
July 31...........	97.7	1,381	-85	97.7	1,876	+68	97.7	109	-17	96.4	42,680	-1,600
Aug. 31...........	98.0	1,423	+42	95.8	1,559	-317	97.5	100	-9	97.5	44,140	+1,460
Sept. 30...........	96.3	1,190	-233	96.2	1,625	+66	97.9	117	+17	97.9	44,680	+540
WTR YR 1974	-	-	-121	-	-	+17	-	-	-9	-	-	+4,050

Date	Gage height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
	02142676 Mountain Island Lake		
Sept. 30...........	95.7	296	-
Oct. 31...........	95.6	284	-12
Nov. 30...........	95.5	272	-12
Dec. 31...........	95.8	307	+35
CAL YR 1973	-	-	-35
Jan. 31...........	95.5	272	-35
Feb. 28...........	96.7	414	+142
Mar. 31...........	96.0	330	-84
Apr. 30...........	98.7	666	+336
May 31...........	97.6	525	-141
June 30...........	95.7	296	-229
July 31...........	95.7	296	0
Aug. 31...........	95.6	284	-12
Sept. 30...........	96.7	414	+130
WTR YR 1974	-	-	+118

KANAWHA RIVER BASIN

03161000 South Fork New River near Jefferson, N. C.

LOCATION.--Lat 36°23'40", long 81°24'27", Ashe County, on right bank 600 ft (183 m) upstream from bridge on State Highways 16 and 88, 0.2 mi (0.3 km) downstream from Bear Creek, and 4 mi (6.4 km) southeast of Jefferson.

DRAINAGE AREA.--207 mi^2 (536 km^2).

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 2,657.04 ft (809.866 m) above mean sea level, unadjusted. Prior to Oct. 14, 1934, nonrecording gage on bridge 400 ft (122 m) downstream at same datum. Oct. 14, 1934 to Mar. 25, 1935, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--50 years, 419 ft^3/s (11.87 m^3/s), 27.49 in/yr (698 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,910 ft^3/s(167.4 m^3/s) Apr. 4 (gage height, 7.63 ft or 2.326 m); minimum, 230 ft^3/s (6.51 m^3/s) Oct. 28 (gage height, 2.08 ft or 0.634 m).

Period of record: Maximum discharge, 52,800 ft^3/s (1,500 m^3/s) Aug. 14, 1940 (gage height, 22.50 ft or 6.858 m) from rating curve extended above 5,100 ft^3/s (144 m^3/s) on basis of slope-area measurement of peak flow; minimum, 52 ft^3/s (1.47 m^3/s) Dec. 24, 1943, result of freezeup; minimum daily, 65 ft^3/s (1.84 m^3/s) Sept. 9, 1925.

Flood of July 15, 1916 reached a stage of 18.0 ft (5.49 m), from floodmarks, witnessed by local resident (discharge, 35,200 ft^3/s or 997 m^3/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1275: 1925-26(M), 1928-30(M), 1931-32, 1933-35(M), 1941-42(m), 1944(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	341	333	397	1,180	506	591	722	427	751	614	356	344
2	733	313	360	904	531	570	660	426	607	548	415	345
3	537	278	337	799	800	533	638	585	502	540	1,050	459
4	369	264	325	748	678	509	3,320	545	445	591	1,630	732
5	334	277	763	718	586	489	3,430	490	412	986	914	441
6	301	355	977	655	555	510	1,520	599	718	1,090	900	971
7	286	293	591	653	574	502	1,140	500	1,900	757	795	2,070
8	291	273	494	605	598	476	959	451	1,170	649	808	921
9	386	266	507	725	604	455	955	464	899	692	973	700
10	465	257	481	830	526	440	810	468	908	742	679	650
11	360	245	420	686	509	433	734	444	714	587	619	908
12	316	247	376	704	483	453	692	997	599	563	579	704
13	298	248	400	613	469	684	782	1,180	548	512	525	889
14	288	246	494	572	506	541	793	692	538	481	479	785
15	280	240	452	559	499	475	774	591	550	454	453	644
16	269	249	411	537	496	462	679	595	609	434	433	579
17	261	249	410	509	516	503	646	526	617	428	441	539
18	254	243	381	484	508	460	627	485	484	436	490	563
19	251	239	377	468	548	463	594	480	446	557	982	493
20	250	236	527	461	628	718	567	479	447	453	552	455
21	248	385	1,370	717	581	839	548	469	464	421	476	438
22	247	879	843	719	1,580	975	535	458	562	408	429	428
23	249	459	634	563	1,560	703	565	523	502	395	570	406
24	248	364	546	533	937	621	545	554	437	404	476	390
25	244	326	503	578	770	565	502	438	419	409	410	388
26	246	326	1,340	579	680	538	485	417	399	486	417	379
27	239	326	2,720	635	633	509	470	541	441	451	383	372
28	240	486	1,320	612	597	490	458	476	2,090	470	379	701
29	320	709	934	629	------	530	448	417	1,040	416	433	577
30	341	474	799	570	------	824	436	464	729	417	382	415
31	297	------	766	535	------	878	------	493	------	391	355	------
TOTAL	9,789	10,085	21,255	20,080	18,458	17,739	26,034	16,674	20,947	16,782	18,783	18,686
MEAN	316	336	686	648	659	572	868	538	698	541	606	623
MAX	733	879	2,720	1,180	1,580	975	3,430	1,180	2,090	1,090	1,630	2,070
MIN	239	236	325	461	469	433	436	417	399	391	355	344
CFSM	1.53	1.62	3.31	3.13	3.18	2.76	4.19	2.60	3.37	2.61	2.93	3.01
IN.	1.76	1.81	3.82	3.61	3.32	3.19	4.68	3.00	3.76	3.02	3.38	3.36

CAL YR 1973 TOTAL 221,420 MEAN 607 MAX 8,700 MIN 236 CFSM 2.93 IN 39.79
WTR YR 1974 TOTAL 215,312 MEAN 590 MAX 3,430 MIN 236 CFSM 2.85 IN 38.69

PEAK DISCHARGE (BASE, 2,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	0530	5.93	3,320	6-28	1030	5.49	2,790
2-22	2230	5.54	2,850	9- 7	0600	5.57	2,880
4- 4	1800	7.63	5,910				

03439000 French Broad River at Rosman, N. C.

LOCATION.--Lat 35°08'32", long 82°49'28", Transylvania County, on left bank at upstream side of bridge on U. S. Highway 178 at Rosman, 1.0 mi (1.6 km) upstream from East Fork, and at mile 216.4 (348.2 km).

DRAINAGE AREA.--67.9 mi^2 (175.9 km^2).

PERIOD OF RECORD.--May 1907 to June 1909, October 1935 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,173.83 ft (662.583 m) above mean sea level. Prior to June 30, 1909, nonrecording gage at site 500 ft (152 m) downstream at different datum. Jan. 1, 1936, to July 6, 1937, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--40 years (1907-8, 1935-74), 237 ft^3/s (6.712 m^3/s), 47.40 in/yr (1,204 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,520 ft^3/s (128 m^3/s) Dec. 26 (gage height, 10.25 ft or 3.124 m); minimum, 69 ft^3/s (1.95 m^3/s) Nov. 17, 18, 19, 20 (gage height, 1.74 ft or 0.530 m).
Period of record: Maximum discharge, 13,500 ft^3/s (382 m^3/s) Oct. 4, 1964 (gage height, 14.95 ft or 4.557 m); minimum, 23 ft^3/s (0.65 m^3/s) Jan. 3, 1940 (gage height, 1.51 ft or 0.460 m), result of freezeup; minimum daily, 37 ft^3/s (1.05 m^3/s) Sept. 25-28, Oct. 5, 6, 25, 26, 1954.
Flood of July 1916 reached a stage of 13.9 ft (4.24 m), from floodmarks.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 1306: 1908(M). WSP 1910: 1936(M), 1938(M), 1939-40, 1942-43.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	90	211	841	317	340	267	252	277	164	146	189
2	168	77	184	614	526	324	336	255	296	156	141	184
3	123	75	168	552	508	311	427	245	263	158	999	191
4	104	75	173	562	422	299	1,620	255	247	201	554	178
5	100	74	1,110	476	374	290	849	320	236	266	415	169
6	98	72	450	431	378	282	580	297	414	222	525	204
7	96	72	322	410	395	274	477	259	449	253	386	184
8	94	74	272	369	410	265	485	246	341	270	672	169
9	92	77	244	429	363	259	449	238	356	235	523	161
10	93	72	218	393	336	253	392	233	317	226	460	157
11	86	71	199	407	319	247	363	230	272	203	401	165
12	85	71	188	369	304	249	364	864	254	186	425	154
13	82	71	202	340	293	240	752	436	240	173	398	169
14	82	71	185	331	328	231	509	349	230	164	367	149
15	80	71	182	321	302	225	445	314	226	156	332	145
16	78	73	178	303	405	245	401	295	236	163	330	141
17	76	70	166	289	358	227	374	287	212	163	316	141
18	75	69	156	278	324	219	352	277	202	181	283	137
19	75	70	152	271	347	230	336	288	195	150	287	131
20	75	69	408	295	309	242	320	277	198	150	259	129
21	74	774	376	578	292	400	310	269	194	150	267	127
22	74	262	266	364	1,390	283	310	285	186	139	254	127
23	74	161	237	328	634	256	324	547	178	148	235	124
24	73	132	217	312	506	242	292	362	173	184	226	121
25	72	119	277	297	441	239	281	310	183	190	216	122
26	72	201	2,470	329	396	229	274	317	169	152	207	120
27	71	321	1,120	582	373	226	266	468	181	148	199	148
28	78	918	668	442	354	225	259	340	218	143	262	296
29	99	374	538	410	------	338	254	309	204	138	222	169
30	77	258	513	365	------	353	247	289	174	127	198	143
31	80	------	860	336	------	292	------	279	------	121	191	------
TOTAL	2,757	4,984	12,910	12,624	11,704	8,335	12,915	9,992	7,321	5,480	10,696	4,744
MEAN	88.9	166	416	407	418	269	431	322	244	177	345	158
MAX	168	918	2,470	841	1,390	400	1,620	864	449	270	999	296
MIN	71	69	152	271	292	219	247	230	169	121	141	120
CFSM	1.31	2.44	6.13	5.99	6.16	3.96	6.35	4.74	3.59	2.61	5.08	2.33
IN.	1.51	2.73	7.07	6.92	6.41	4.57	7.08	5.47	4.01	3.00	5.86	2.60

CAL YR 1973 TOTAL 118,458 MEAN 325 MAX 3,490 MIN 69 CFSM 4.79 IN 64.90
WTR YR 1974 TOTAL 104,462 MEAN 286 MAX 2,470 MIN 69 CFSM 4.21 IN 57.23

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-21	1315	7.87	2,740	2-22	0600	9.01	3,460
12- 5	0700	6.76	2,120	4- 4	1230	8.17	2,920
12-26	1500	10.25	4,520	8- 3	1830	6.92	2,210

03441000 Davidson River near Brevard, N. C.

LOCATION.--Lat 35°16'23", long 82°42'21", Transylvania County, on right bank 150 ft (46 m) upstream from bridge on State Highway 280, 2.1 mi (3.4 km) downstream from Avery Creek, 3.3 mi (5.3 km) northeast of Brevard, and at mile 2.2 (3.5 km).

DRAINAGE AREA.--40.4 mi^2 (104.6 km^2).

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,115.13 ft (644.692 m) above mean sea level (levels by Tennessee Valley Authority). Prior to May 17, 1934, nonrecording gage, at site 50 ft (15 m) downstream at same datum.

AVERAGE DISCHARGE.--54 years, 128 ft^3/s (3.625 m^3/s), 43.03 in/yr (1,093 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,970 ft^3/s (84.1 m^3/s) Dec. 26 (gage height, 6.26 ft or 1.908 m); minimum, 35 ft^3/s (0.99 m^3/s) Nov. 11, 17, 18, 19, 20 (gage height, 0.54 ft or 0.165 m).
Period of record: Maximum discharge, 8,400 ft^3/s (238 m^3/s) Aug. 15, 1928 (gage height, 11.8 ft or 3.597 m); minimum, 13 ft^3/s (0.37 m^3/s) Oct. 11, 1954 (gage height, 0.31 ft or 0.094 m).
Studies by Tennessee Valley Authority indicate the flood of June 1876 is the highest known, since at least 1869.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 1336: 1921, 1922(M), 1923, 1924-25(M), 1926, 1927(M), 1929-32(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	49	120	588	176	194	151	137	142	97	80	78
2	118	40	102	399	344	184	206	139	153	89	73	77
3	71	38	91	348	310	175	236	134	131	88	567	84
4	59	38	91	342	251	166	1,080	126	121	117	326	78
5	53	38	608	289	220	161	565	198	114	139	226	74
6	49	37	262	260	224	158	363	170	187	151	235	119
7	48	37	187	248	228	151	290	144	194	135	200	93
8	49	38	157	220	251	145	298	134	162	131	380	80
9	49	39	141	288	217	140	274	128	155	125	303	75
10	47	36	122	253	199	136	238	123	145	121	249	73
11	46	36	108	253	186	132	218	121	125	107	235	71
12	46	36	102	224	175	131	220	522	115	97	257	92
13	44	36	108	205	168	125	513	251	108	90	260	95
14	43	36	98	196	181	121	329	197	104	84	204	73
15	42	36	98	187	165	118	277	175	175	80	189	71
16	41	38	94	175	223	125	253	163	173	83	174	68
17	40	35	86	166	200	116	226	158	125	80	159	68
18	39	35	81	158	182	112	211	150	112	76	154	66
19	40	35	80	153	188	121	199	148	105	73	147	61
20	40	35	265	164	173	124	188	148	143	73	127	60
21	40	409	258	323	163	210	181	145	127	75	122	60
22	39	131	167	207	875	148	179	143	109	67	116	59
23	39	78	143	186	386	132	186	311	100	70	110	57
24	38	65	129	176	300	124	166	195	94	96	105	55
25	38	59	164	168	258	125	159	165	94	80	101	56
26	38	110	1,550	188	229	119	154	175	89	74	100	55
27	37	212	720	350	215	116	149	282	106	71	100	80
28	41	603	414	252	203	115	145	191	158	82	93	154
29	53	234	325	226	------	188	141	169	137	66	89	73
30	40	153	308	203	------	225	136	156	107	62	84	61
31	42	------	610	188	------	172	------	147	------	59	81	------
TOTAL	1,521	2,802	7,789	7,583	6,890	4,509	7,931	5,545	3,910	2,838	5,646	2,266
MEAN	49.1	93.4	251	245	246	145	264	179	130	91.5	182	75.5
MAX	118	603	1,550	588	875	225	1,080	522	194	151	567	154
MIN	37	35	80	153	163	112	136	121	89	59	73	55
CFSM	1.22	2.31	6.21	6.06	6.09	3.59	6.53	4.43	3.22	2.26	4.51	1.87
IN.	1.40	2.58	7.17	6.98	6.34	4.15	7.30	5.11	3.60	2.61	5.20	2.09

CAL YR 1973 TOTAL 65,765 MEAN 180 MAX 1,910 MIN 35 CFSM 4.46 IN 60.56
WTR YR 1974 TOTAL 59,230 MEAN 162 MAX 1,550 MIN 35 CFSM 4.01 IN 54.54

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-21	1245	4.34	1,570	2-22	0530	5.42	2,310
11-28	0845	3.89	1,290	4- 4	1215	5.00	2,020
12- 5	0645	3.57	1,110	5-12	0730	3.51	1,080
12-26	1445	6.26	2,970	8- 3	1845	4.10	1,420
12-31	1845	3.80	1,240				

03441440 Little River above High Falls, near Cedar Mountain, N. C.

LOCATION.--Lat 35°11'32", long 82°36'49", Transylvania County, on left bank 100 ft (30.5 m) upstream from High Falls, 0.2 mi (0.3 km) upstream from Grassy Creek, 1.0 mi (1.6 km) downstream from Reasonover Creek, 3.8 mi (6.1 km) northeast of Cedar Mountain, and at mile 7.8 (12.6 km).

DRAINAGE AREA.--26.8 mi^2 (69.4 km^2).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,513.27 ft (766.045 m) above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--12 years, 107 ft^3/s (3.030 m^3/s), 54.22 in/yr (1,377 mm/yr) unadjusted.

EXTREMES.--Current year: Maximum discharge, 2,250 ft^3/s (63.7 m^3/s) Dec. 26 (gage height, 4.87 ft or 1.484 m); minimum, 22 ft^3/s (0.62 m^3/s) Nov. 20 (gage height, 1.27 ft or 0.387 m).
Period of record: Maximum discharge, 5,600 ft^3/s (159 m^3/s) Oct. 4, 1964 (gage height, 7.30 ft or 2.225 m); minimum, 13 ft^3/s (0.37 m^3/s) Oct. 7, 1970 (gage height, 1.23 ft or 0.375 m).

REMARKS.--Records good. E. I. du Pont de Nemours and Company plant 0.5 mi (0.8 km) above gage diverted about 1.22 ft^3/s (0.035 m^3/s) for industrial use. Since 1969, more than 7.82 mi^2 (20.25 km^2) of total drainage affected by occasional filling and/or draining of recreational lakes on tributaries upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	35	92	547	129	127	132	88	89	50	42	58
2	189	30	79	340	250	121	146	98	84	47	53	61
3	96	28	70	304	200	118	184	110	78	46	476	102
4	69	27	68	295	161	114	610	89	74	56	373	69
5	59	28	523	258	148	109	459	117	69	100	236	61
6	54	27	274	220	145	105	264	126	91	75	276	90
7	49	26	169	202	161	101	205	104	162	121	221	86
8	45	27	134	182	184	98	199	95	102	101	236	69
9	47	28	129	196	163	94	199	90	106	84	228	63
10	47	25	113	185	147	91	167	87	97	83	333	59
11	43	25	96	194	140	89	153	83	116	70	257	62
12	42	25	91	181	135	87	144	382	88	69	217	60
13	39	25	101	163	130	86	241	225	78	62	199	54
14	38	24	101	153	140	81	198	158	74	58	155	52
15	39	25	92	150	130	79	181	133	78	53	135	52
16	36	27	92	138	160	93	160	119	74	54	121	51
17	34	25	84	133	150	84	146	115	67	53	119	53
18	33	24	77	126	140	79	136	112	64	48	109	51
19	33	25	74	120	150	80	129	109	61	46	97	46
20	33	25	179	117	139	83	123	98	69	46	89	44
21	33	170	253	301	125	188	117	95	70	45	84	45
22	32	125	161	177	400	132	116	94	61	42	79	45
23	31	71	135	152	250	107	139	178	55	48	77	44
24	31	59	119	151	187	98	113	131	53	64	73	41
25	31	53	135	145	169	96	107	108	56	114	74	41
26	31	59	1,100	179	151	92	102	102	52	65	70	41
27	29	91	938	288	142	90	100	168	63	59	68	47
28	31	281	342	221	134	89	95	124	74	54	65	136
29	41	174	278	195	------	199	91	109	60	48	67	112
30	32	116	318	171	------	220	89	99	53	46	62	75
31	29	------	367	147	------	157	------	94	------	44	58	------
TOTAL	1,532	1,730	6,784	6,331	4,660	3,387	5,245	3,840	2,318	1,951	4,749	1,870
MEAN	49.4	57.7	219	204	166	109	175	124	77.3	62.9	153	62.3
MAX	189	281	1,100	547	400	220	610	382	162	121	476	136
MIN	29	24	68	117	125	79	89	83	52	42	42	41
CFSM	1.84	2.15	8.17	7.61	6.19	4.07	6.53	4.63	2.88	2.35	5.71	2.32
IN.	2.13	2.40	9.42	8.79	6.47	4.70	7.28	5.33	3.22	2.71	6.59	2.60

CAL YR 1973 TOTAL 50,322 MEAN 138 MAX 1,470 MIN 24 CFSM 5.15 IN 69.85
WTR YR 1974 TOTAL 44,397 MEAN 122 MAX 1,100 MIN 24 CFSM 4.55 IN 61.63

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	2200	4.87	2,250	8-3	2000	3.12	744
4- 4	1630	3.29	863				

03443000 French Broad River at Blantyre, N. C.

LOCATION.--Lat 35°17'56", long 82°37'27", Transylvania County, on left bank 40 ft (12 m) upstream from bridge on Secondary Road 1503, 700 ft (213 m) east of railroad at Blantyre, 3.5 mi (5.6 km) downstream from Little River, and at mile 183.7 (295.6 km).

DRAINAGE AREA.--296 mi^2 (767 km^2).

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,060.32 ft (627.986 m) above mean sea level (levels by Tennessee Valley Authority). Prior to July 5, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--54 years, 973 ft^3/s (27.56 m^3/s), 44.64 in/yr (1,134 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,200 ft^3/s (317 m^3/s) Dec. 27 (gage height, 20.00 ft or 6.096 m); minimum, 310 ft^3/s (8.78 m^3/s) Nov. 19, 20 (gage height, 4.29 ft or 1.308 m).
Period of record: Maximum discharge, 30,000 ft^3/s (850 m^3/s) Oct. 5, 1964 (gage height, 25.50 ft or 7.772 m, from floodmarks); minimum, 119 ft^3/s (3.37 m^3/s) Oct. 11, 1954 (gage height, 2.36 ft or 0.719 m).
Maximum stage since at least 1791, 27.1 ft (8.26 m) July 16, 1916, from floodmarks (from studies by Tennessee Valley Authority).

REMARKS.--Records good. Considerable diurnal fluctuation at low flow caused by powerplant about 8 mi (13 km) above station.

REVISIONS (WATER YEARS).--WSP 923: 1921-23, 1929, 1933, 1935-36(M), 1938, 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	794	396	1,040	4,640	1,530	1,410	1,220	977	1,120	689	555	714
2	1,100	364	898	4,290	2,190	1,330	1,300	1,040	1,160	662	768	809
3	808	337	819	3,100	2,470	1,270	1,500	1,010	1,120	652	2,310	944
4	638	332	774	2,820	2,060	1,220	4,090	961	1,020	723	3,880	937
5	584	332	3,010	2,480	1,800	1,160	5,480	1,240	961	1,130	2,760	805
6	551	324	3,490	2,160	1,720	1,140	4,210	1,390	1,080	1,020	2,530	922
7	527	323	1,820	2,010	1,850	1,100	2,490	1,110	2,080	1,090	2,250	987
8	529	330	1,350	1,820	2,040	1,060	2,020	1,010	1,390	1,090	2,390	844
9	516	342	1,230	1,850	1,850	1,030	2,140	974	1,260	982	2,390	801
10	448	324	1,080	1,980	1,660	1,010	1,780	947	1,200	916	2,630	770
11	434	322	970	1,850	1,560	988	1,600	936	1,230	873	2,350	767
12	422	322	902	1,860	1,460	977	1,500	2,510	1,060	830	1,900	747
13	411	323	901	1,670	1,400	977	2,730	2,630	993	750	2,110	748
14	401	322	963	1,560	1,440	932	2,480	1,690	951	704	1,690	678
15	398	323	879	1,530	1,470	908	2,030	1,430	1,000	668	1,510	674
16	387	335	888	1,450	1,830	938	1,770	1,290	1,190	654	1,510	650
17	379	329	849	1,380	1,910	961	1,620	1,240	960	679	1,390	552
18	367	315	798	1,310	1,620	829	1,560	1,270	897	657	1,260	548
19	365	314	776	1,270	1,600	828	1,410	1,190	809	638	1,190	518
20	364	314	1,380	1,240	1,580	939	1,350	1,240	814	619	1,110	499
21	352	1,200	2,480	2,680	1,420	1,560	1,280	1,150	952	640	1,040	494
22	347	1,950	1,530	2,190	3,620	1,550	1,250	1,120	797	597	1,050	545
23	347	862	1,220	1,740	3,780	1,110	1,420	1,830	746	587	1,060	570
24	346	626	1,080	1,560	2,580	1,020	1,220	1,710	751	693	971	547
25	342	564	1,140	1,490	1,940	985	1,160	1,320	790	997	940	536
26	338	627	4,300	1,510	1,700	968	1,120	1,200	776	716	846	534
27	338	1,500	10,100	2,800	1,570	941	1,070	1,900	771	707	830	543
28	344	2,890	6,330	2,290	1,480	945	1,040	1,500	847	897	840	1,240
29	439	2,690	3,450	2,130	------	1,250	1,020	1,300	873	690	954	862
30	372	1,350	2,760	1,870	------	2,020	999	1,190	741	599	848	747
31	342	------	2,850	1,670	------	1,490	------	1,130	------	563	751	------
TOTAL	14,330	20,882	62,057	64,200	53,130	34,846	55,859	41,435	30,339	23,712	48,613	21,532
MEAN	462	696	2,002	2,071	1,898	1,124	1,862	1,337	1,011	765	1,568	718
MAX	1,100	2,890	10,100	4,640	3,780	2,020	5,480	2,630	2,080	1,130	3,880	1,240
MIN	338	314	774	1,240	1,400	828	999	936	741	563	555	494
CFSM	1.56	2.35	6.76	7.00	6.41	3.80	6.29	4.52	3.42	2.58	5.30	2.43
IN.	1.80	2.62	7.80	8.07	6.68	4.38	7.02	5.21	3.81	2.98	6.11	2.71

CAL YR 1973 TOTAL 530,129 MEAN 1,452 MAX 11,200 MIN 314 CFSM 4.91 IN 66.62
WTR YR 1974 TOTAL 470,935 MEAN 1,290 MAX 10,100 MIN 314 CFSM 4.36 IN 59.19

PEAK DISCHARGE (BASE, 4,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-27	1545	20.00	11,200	4-5	0830	17.82	6,130
1- 1	1715	16.74	4,840				

03446000 Mills River near Mills River, N. C.

LOCATION.--Lat 35°23'56", long 82°35'46", Henderson County, on right bank 1.5 mi (2.4 km) downstream from confluence of North and South Forks, 1.8 mi (2.9 km) northwest of Mills River, 4.2 mi (6.8 km) northwest of Horseshoe, and at mile 4.6 (7.4 km).

DRAINAGE AREA.--66.7 mi^2 (172.8 km^2).

PERIOD OF RECORD.--September 1924 to September 1926, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,088.47 ft (636.566 m) above mean sea level (levels by Tennessee Valley Authority). Prior to Oct. 1, 1926, nonrecording gage at site 500 ft (152 m) upstream at datum 2.97 ft (0.905 m) higher.

AVERAGE DISCHARGE.--43 years, 165 ft^3/s (4.673 m^3/s), 33.59 in/yr (853 mm/yr) unadjusted.

EXTREMES.--Current year: Maximum discharge, 2,940 ft^3/s (83.3 m^3/s) Dec. 26 (gage height, 7.42 ft or 2.262 m); minimum, 54 ft^3/s (1.53 m^3/s) Nov. 10, 17, 18, 19, 20 (gage height, 1.68 ft or 0.512 m); minimum daily, 54 ft^3/s (1.53 m^3/s) Nov. 19, 20.

Period of record: Maximum discharge, 13,400 ft^3/s (379 m^3/s) Aug. 30, 1940 (gage height, 13.62 ft or 4.151 m), from rating curve extended above 6,200 ft^3/s (176 m^3/s) on basis of slope-area measurement of peak flow; minimum, 16 ft^3/s (0.45 m^3/s) Dec. 24, 1943 (gage height, 1.33 ft or 0.405 m), result of freezeup; minimum daily, 18 ft^3/s (0.51 m^3/s) Sept. 30, 1954.

The greatest flood since 1876 is probably that of Aug. 30, 1940.

REMARKS.--Records good. City of Hendersonville diverted an average of 5.23 ft^3/s (0.15 m^3/s) from North Fork and Bradley Creek for municipal water supply.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 923: 1935, 1937, 1939. WSP 1003: 1938, 1940-42. WSP 1143: 1940(P). WSP 1276: 1926.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	75	161	729	237	250	227	195	229	135	90	112
2	162	64	140	509	314	239	254	196	223	130	112	108
3	109	60	128	453	316	228	268	191	210	158	273	117
4	87	60	122	425	283	219	1,140	195	200	198	344	116
5	79	60	618	373	260	212	789	425	185	232	220	105
6	75	58	365	338	255	210	515	337	220	218	235	142
7	71	56	258	316	260	201	414	268	270	207	228	138
8	71	58	214	289	295	194	390	241	240	187	317	115
9	78	58	196	324	265	189	365	227	230	188	296	108
10	72	56	172	305	247	185	319	216	210	176	254	156
11	69	56	156	295	235	180	296	222	200	159	236	181
12	68	57	146	274	223	177	289	625	190	149	254	127
13	65	57	146	254	216	172	648	417	182	139	404	133
14	65	57	139	244	227	166	470	329	175	131	265	126
15	63	56	135	236	215	163	397	289	212	125	232	116
16	61	59	133	225	270	171	350	265	199	122	226	114
17	58	55	124	216	260	164	320	263	173	122	222	112
18	59	55	114	209	239	157	298	283	164	118	189	109
19	59	54	117	203	244	161	283	292	157	123	177	100
20	59	54	241	206	231	169	269	263	171	116	161	98
21	59	326	359	384	218	275	257	251	180	108	158	98
22	58	184	237	277	776	209	254	240	158	104	153	98
23	59	112	202	251	484	186	270	365	149	106	148	94
24	58	93	182	237	380	176	240	290	142	120	139	90
25	57	85	194	227	328	175	229	256	146	125	133	90
26	56	116	1,570	246	292	169	222	254	138	112	132	90
27	55	294	1,100	410	276	163	216	363	157	127	125	108
28	60	484	577	322	261	162	210	277	200	121	124	211
29	73	295	444	293	------	245	205	253	163	104	119	116
30	62	198	392	269	------	329	199	236	144	97	114	96
31	64	------	566	250	------	263	------	227	------	93	110	------
TOTAL	2,243	3,352	9,648	9,589	8,107	6,159	10,603	8,751	5,617	4,350	6,190	3,524
MEAN	72.4	112	311	309	290	199	353	282	187	140	200	117
MAX	162	484	1,570	729	776	329	1,140	625	270	232	404	211
MIN	55	54	114	203	215	157	199	191	138	93	90	90
CFSM	1.09	1.68	4.66	4.63	4.35	2.98	5.29	4.23	2.80	2.10	3.00	1.75
IN.	1.25	1.87	5.38	5.35	4.52	3.44	5.91	4.88	3.13	2.43	3.45	1.97

CAL YR 1973 TOTAL 89,774 MEAN 246 MAX 3,030 MIN 54 CFSM 3.69 IN 50.07
WTR YR 1974 TOTAL 78,133 MEAN 214 MAX 1,570 MIN 54 CFSM 3.21 IN 43.58

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	2000	7.42	2,940	4-4	1715	4.91	1,670
12-31	2215	3.97	1,060	8-3	2115	3.89	1,000
2-22	0915	4.31	1,290				

03448000 French Broad River at Bent Creek, N. C.

LOCATION.--Lat 35°30'07", long 82°35'35", Buncombe County, on left bank 50 ft (15 m) downstream from Bent Creek, 6.2 mi (10 km) upstream from Hominy Creek, 6.7 mi (10.8 km) south of Asheville, and at mile 157.7 (253.7 km).

DRAINAGE AREA.--676 mi^2 (1,751 km^2)..

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,995.91 ft (608.353 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--41 years, 1,670 ft^3/s (47.29 m^3/s), 33.55 in/yr (852 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,400 ft^3/s (323 m^3/s) Dec. 28 (gage height, 8.81 ft or 2.685 m); minimum, 575 ft^3/s (16.3 m^3/s) Nov. 20 (gage height, 2.58 ft or 0.786 m).
Period of record: Maximum discharge, 30,600 ft^3/s (867 m^3/s) Oct. 5, 1964 (gage height, 15.80 ft or 4.816 m); minimum, 230 ft^3/s (6.51 m^3/s) Oct. 4, 5, 10, 11, 12, 1954 (gage height, 2.05 ft or 0.625 m).
Maximum stage since at least 1791, 27.3 ft (8.32 m) July 15, 1916 (from floodmarks and studies by Tennessee Valley Authority). Flood in August 1928 reached a stage of about 16.1 ft (4.91 m), from floodmarks.

REMARKS.--Records good. Some diurnal fluctuation at low flow caused by powerplant about 34 mi (55 km) above station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS.--WSP 823: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,780	737	1,650	6,930	2,370	2,310	2,320	1,650	1,790	1,280	942	1,180
2	2,850	717	1,450	6,460	2,970	2,200	2,250	1,690	1,790	1,220	1,100	1,230
3	2,410	655	1,320	5,770	3,950	2,110	2,400	1,710	1,810	1,230	3,390	1,340
4	1,410	645	1,250	4,750	3,370	2,020	7,410	1,680	1,610	1,660	5,880	1,450
5	1,180	635	3,810	3,960	2,810	1,940	9,570	2,750	1,530	2,340	5,390	1,290
6	1,070	615	4,680	3,360	2,560	1,900	7,920	2,680	1,560	2,850	4,700	1,400
7	1,000	605	3,770	3,040	2,680	1,830	6,010	2,170	3,110	2,200	4,750	1,600
8	965	615	2,180	2,760	3,120	1,770	3,810	1,880	2,420	2,210	3,910	1,400
9	988	625	1,940	2,770	2,920	1,730	3,660	1,780	2,010	1,910	4,200	1,280
10	945	615	1,700	2,980	2,550	1,690	3,080	1,720	1,960	1,660	3,570	1,260
11	880	595	1,510	2,780	2,370	1,650	2,720	1,670	1,860	1,500	3,600	1,440
12	848	595	1,440	2,760	2,220	1,620	2,550	3,330	1,690	1,450	3,060	1,270
13	821	595	1,410	2,490	2,120	1,620	4,180	4,120	1,550	1,370	3,540	1,410
14	797	595	1,450	2,320	2,130	1,560	4,410	2,940	1,510	1,280	2,760	1,400
15	784	595	1,390	2,270	2,210	1,530	3,530	2,330	1,530	1,220	2,500	1,190
16	768	625	1,400	2,170	2,650	1,560	2,990	2,100	1,870	1,230	2,540	1,180
17	741	615	1,350	2,070	3,020	1,610	2,710	1,990	1,590	1,250	2,310	1,070
18	721	595	1,240	1,980	2,510	1,510	2,510	1,970	1,490	1,180	2,020	1,040
19	710	595	1,200	1,910	2,400	1,480	2,400	1,960	1,440	1,160	1,980	984
20	705	585	1,700	1,870	2,410	1,680	2,240	1,920	1,480	1,140	1,710	941
21	695	1,400	4,250	3,750	2,160	2,570	2,140	1,850	1,620	1,110	1,590	926
22	685	2,750	2,970	3,840	4,760	2,930	2,080	1,790	1,470	1,090	1,530	928
23	685	1,590	2,070	2,780	5,990	2,040	2,360	2,330	1,370	1,050	1,590	974
24	685	1,100	1,780	2,450	5,220	1,810	2,140	2,670	1,310	1,140	1,480	950
25	675	958	1,670	2,320	3,580	1,720	1,960	2,070	1,390	1,400	1,440	933
26	665	956	5,970	2,380	2,820	1,700	1,910	1,870	1,360	1,300	1,430	930
27	655	1,940	9,920	4,160	2,570	1,620	1,830	2,750	1,350	1,220	1,380	941
28	655	3,880	10,900	3,960	2,430	1,610	1,770	2,430	1,820	1,380	1,360	1,830
29	793	4,100	7,780	3,350	------	2,240	1,730	2,030	1,630	1,230	1,370	1,600
30	761	2,560	5,240	2,890	------	3,980	1,700	1,870	1,420	1,070	1,380	1,250
31	685	------	4,740	2,580	------	3,040	------	1,780	------	984	1,260	------
TOTAL	30,012	33,688	95,130	99,860	82,870	60,580	98,290	67,480	50,340	44,314	79,662	36,617
MEAN	968	1,123	3,069	3,221	2,960	1,954	3,276	2,177	1,678	1,429	2,570	1,221
MAX	2,850	4,100	10,900	6,930	5,990	3,980	9,570	4,120	3,110	2,850	5,880	1,830
MIN	655	585	1,200	1,870	2,120	1,480	1,700	1,650	1,310	984	942	926
CFSM	1.43	1.66	4.54	4.76	4.38	2.89	4.85	3.22	2.48	2.11	3.80	1.81
IN.	1.65	1.85	5.23	5.50	4.56	3.33	5.41	3.71	2.77	2.44	4.38	2.02

CAL YR 1973 TOTAL 885,902 MEAN 2,427 MAX 19,600 MIN 585 CFSM 3.59 IN 48.75
WTR YR 1974 TOTAL 778,843 MEAN 2,134 MAX 10,900 MIN 585 CFSM 3.16 IN 42.86

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-28	0945	8.81	11,400	4-5	0915	8.16	9,950
1- 1	0145	6.86	7,290	8-4	0015	6.41	6,440
2-23	1000	6.24	6,120				

03448500 Hominy Creek at Candler, N. C.

LOCATION.--Lat 35°32'28", long 82°40'35", Buncombe County, on left bank 0.1 mi (0.2 km) downstream from Pole Creek, 0.4 mi (0.6 km) downstream from bridge on State Highway 112, 1.0 mi (1.6 km) east of Candler, and at mile 10.3 (16.6 km).

DRAINAGE AREA.--79.8 mi^2 (206.7 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 2,065.83 ft (629.665 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--32 years, 94.2 ft^3/s (2.668 m^3/s), 16.03 in/yr (407 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,770 ft^3/s (50.1 m^3/s) Apr. 4 (gage height, 4.97 ft or 1.515 m); minimum, 42 ft^3/s (1.19 m^3/s) part of each day Oct. 17-23, 25-28 (gage height, 1.14 ft or 0.347 m).
Period of record: Maximum discharge, 6,800 ft^3/s (193 m^3/s) June 16, 1949 (gage height, 13.25 ft or 4.039 m); minimum, 13 ft^3/s (0.37 m^3/s) Sept. 2, 1953 (gage height, 0.80 ft or 0.244 m).
Flood of Aug. 30, 1940, reached a stage of 18.0 ft (5.49 m), from floodmarks (discharge, 13,100 ft^3/s or 371 m^3/s by conveyance method). Maximum stage since at least 1840, that of Aug. 30, 1940, from studies by Tennessee Valley Authority.

REMARKS.--Records good. Numerous small diversions for irrigation above station.

REVISIONS.--WSP 1113: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	50	69	328	95	146	167	118	132	88	60	59
2	101	45	64	257	215	138	187	119	125	85	61	58
3	69	44	61	247	206	132	188	119	119	83	151	66
4	60	45	60	229	164	127	994	120	112	93	118	63
5	54	45	187	192	142	124	531	343	109	124	109	59
6	51	44	110	168	134	135	334	249	129	100	82	81
7	49	44	87	153	134	120	264	181	134	91	79	73
8	51	45	77	137	152	116	265	159	138	88	118	64
9	51	46	75	180	130	113	239	148	152	111	128	60
10	49	44	68	153	120	109	206	141	155	95	109	61
11	48	45	64	172	114	107	189	136	128	89	92	63
12	47	45	63	146	108	107	192	405	118	83	96	80
13	47	45	71	133	104	104	404	248	112	78	96	83
14	47	45	65	125	131	101	258	202	107	76	104	62
15	45	45	64	120	112	99	227	183	106	74	93	60
16	45	54	65	112	160	120	203	164	116	72	106	57
17	43	45	62	106	143	107	188	157	103	78	97	57
18	43	45	59	103	129	101	176	182	97	72	83	58
19	43	45	58	100	133	127	167	160	94	81	85	54
20	43	44	166	98	121	133	159	143	151	77	74	52
21	43	259	195	143	114	184	152	138	135	70	70	53
22	43	103	118	113	717	144	149	135	105	68	68	53
23	44	69	99	106	320	127	158	199	102	69	66	51
24	43	61	88	104	242	119	142	146	96	75	65	50
25	43	57	87	107	205	119	138	132	95	77	64	51
26	43	58	544	104	177	113	134	149	90	74	62	51
27	42	61	349	114	163	110	129	196	109	80	62	52
28	48	215	202	112	153	109	126	143	125	69	70	76
29	52	104	158	109	------	223	124	135	103	65	61	56
30	45	79	147	103	------	330	121	138	92	62	59	50
31	47	------	459	99	------	199	------	130	------	60	57	------
TOTAL	1,606	1,976	4,041	4,473	4,838	4,143	6,911	5,318	3,488	2,507	2,645	1,813
MEAN	51.8	65.9	130	144	173	134	230	172	116	80.9	85.3	60.4
MAX	127	259	544	328	717	330	994	405	155	124	151	83
MIN	42	44	58	98	95	99	121	118	90	60	57	50
CFSM	.65	.83	1.63	1.80	2.17	1.68	2.88	2.16	1.45	1.01	1.07	.76
IN.	.75	.92	1.88	2.09	2.26	1.93	3.22	2.48	1.63	1.17	1.23	.85

CAL YR 1973 TOTAL 47,996 MEAN 131 MAX 1,290 MIN 42 CFSM 1.64 IN 22.37
WTR YR 1974 TOTAL 43,759 MEAN 120 MAX 994 MIN 42 CFSM 1.50 IN 20.40

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	1615	3.67	1,030	2-22	0545	4.61	1,560
12-31	1630	3.95	1,180	4- 4	1345	4.97	1,770

03450000 Beetree Creek near Swannanoa, N. C.

LOCATION.--Lat 35°39'11", long 82°24'20", Buncombe County, on left bank 0.5 mi (0.8 km) downstream from Wolfe Branch, 0.8 mi (1.3 km) upstream from Beetree Reservoir dam, 3.8 mi (6.1 km) north of Swannanoa, and 4.8 mi (7.7 km) above mouth.

DRAINAGE AREA.--5.46 mi^2 (14.14 km^2).

PERIOD OF RECORD.--February 1926 to current year.

GAGE.--Water-stage recorder and sharp-crested weir set in masonry control. Datum of gage is 2,728.39 ft (831.613 m) above mean sea level.

AVERAGE DISCHARGE.--48 years, 10.6 ft^3/s (0.300 m^3/s), 26.36 in/yr (670 mm/yr).

EXTREMES.--Current year: Maximum discharge, 155 ft^3/s (4.39 m^3/s) Dec. 26 (gage height, 3.39 ft or 1.033 m); minimum, 1.2 ft^3/s (0.034 m^3/s) Oct. 27, 28 (gage height, 0.82 ft or 0.250 m).
Period of record: Maximum discharge, 1,370 ft^3/s (38.8 m^3/s) Aug. 13, 1940 (gage height, 6.20 ft or 1.890 m), from rating curve extended above 240 ft^3/s (6.80 m^3/s) on basis of computation of peak flow over weir; minimum, 0.3 ft^3/s (0.008 m^3/s) Sept. 29, 30, Oct. 1, 1954 (gage height, 0.26 ft or 0.079 m).

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 893: 1928, 1936-37(M). WSP 953: 1929(M). WSP 1276: 1932.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	2.5	12	51	16	15	23	8.6	18	6.6	2.9	3.5
2	7.6	2.0	9.5	38	27	14	26	8.5	15	6.0	3.0	3.5
3	4.9	1.8	8.1	36	32	13	24	9.4	13	6.6	25	14
4	3.7	1.8	7.4	34	28	11	86	8.3	12	7.9	22	8.3
5	3.2	2.0	35	30	23	11	61	22	10	21	18	6.3
6	2.9	1.9	23	26	21	11	42	21	10	20	13	13
7	2.7	1.8	17	22	21	10	34	17	13	20	11	12
8	2.7	1.8	14	18	24	9.4	34	15	10	17	27	10
9	2.4	1.8	12	22	21	8.8	33	14	9.4	14	25	8.5
10	2.2	1.7	10	19	19	8.4	29	12	8.6	12	18	7.5
11	2.2	1.6	8.7	20	17	8.0	25	11	7.8	11	14	6.6
12	2.1	1.7	8.2	18	16	8.3	23	24	7.1	9.3	12	8.5
13	2.0	1.7	11	17	14	7.7	46	21	6.6	8.1	10	9.0
14	2.1	1.6	10	16	17	7.2	38	18	6.2	7.3	11	7.3
15	1.8	1.6	9.7	16	16	7.0	32	16	6.0	6.6	11	6.7
16	1.6	2.7	9.3	14	18	11	28	14	10	6.3	10	5.9
17	1.5	1.9	8.2	13	18	9.2	24	12	7.4	6.3	9.4	6.0
18	1.5	1.8	7.7	12	17	8.5	21	11	6.4	7.4	9.1	5.5
19	1.4	1.8	7.4	11	16	13	18	10	5.8	6.1	8.2	4.9
20	1.4	1.7	21	11	15	21	17	9.6	5.7	5.7	7.1	4.5
21	1.4	12	29	18	14	35	15	9.1	5.5	5.2	7.3	4.4
22	1.4	8.1	23	14	50	31	15	8.7	5.3	4.8	6.4	4.2
23	1.4	6.0	21	13	37	24	15	18	5.3	4.8	5.8	3.9
24	1.4	5.2	15	13	30	20	13	12	5.7	5.0	5.4	3.7
25	1.4	4.8	14	12	24	18	12	10	5.7	4.5	5.1	3.5
26	1.4	4.9	80	16	21	16	11	12	4.9	4.3	4.7	3.4
27	1.4	7.3	51	27	19	14	10	15	10	4.4	4.5	4.0
28	1.9	50	34	24	17	13	9.9	12	13	3.9	4.6	6.6
29	2.2	25	28	23	------	20	9.4	11	9.1	3.5	4.1	4.0
30	1.7	16	24	20	------	34	8.9	14	7.5	3.3	3.9	3.5
31	2.1	------	49	17	------	29	------	13	------	3.0	3.7	------
TOTAL	74.3	176.5	617.2	641	608	466.5	783.2	417.2	260.0	251.9	322.2	192.7
MEAN	2.40	5.88	19.9	20.7	21.7	15.0	26.1	13.5	8.67	8.13	10.4	6.42
MAX	7.6	50	80	51	50	35	86	24	18	21	27	14
MIN	1.4	1.6	7.4	11	14	7.0	8.9	8.3	4.9	3.0	2.9	3.4
CFSM	.44	1.08	3.64	3.79	3.97	2.75	4.78	2.47	1.59	1.49	1.90	1.18
IN.	.51	1.20	4.21	4.37	4.14	3.18	5.34	2.84	1.77	1.72	2.20	1.31

CAL YR 1973 TOTAL 5,059.4 MEAN 13.9 MAX 212 MIN 1.4 CFSM 2.55 IN 34.47
WTR YR 1974 TOTAL 4,810.7 MEAN 13.2 MAX 86 MIN 1.4 CFSM 2.42 IN 32.78

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	1415	3.39	155				

03451000 Swannanoa River at Biltmore, N. C.

LOCATION.--Lat 35°34'06", long 82°32'42", Buncombe County, on left bank at Biltmore, 100 ft (30.5 m) downstream from Biltmore Avenue Bridge, 200 ft (61 m) upstream from Southern Railway Bridge, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--130 mi^2 (337 km^2).

PERIOD OF RECORD.--October 1920 to September 1926, May 1934 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,976.58 ft (602.462 m) above mean sea level (levels by Tennessee Valley Authority). Dec. 1, 1920, to Sept. 30, 1926, nonrecording gage at site 100 ft (30.5 m) upstream at same datum.

AVERAGE DISCHARGE.--47 years (1920-26, 1933-74), 159 ft^3/s (4.503 m^3/s) unadjusted.

EXTREMES.--Current year: Maximum discharge, 2,620 ft^3/s (74.2 m^3/s) Apr. 4 (gage height, 6.94 ft or 2.115 m); minimum, 45 ft^3/s (1.27 m^3/s) Oct. 17, 18, 19, 20, 22 (gage height, 1.42 ft or 0.433 m); minimum daily, 50 ft^3/s (1.42 m^3/s) Oct. 22.

Period of record: Maximum discharge, 18,400 ft^3/s (521 m^3/s) Aug. 13, 1940 (gage height, 19.00 ft or 5.791 m), from rating curve extended above 8,400 ft^3/s (238 m^3/s) on basis of computation of peak flow over dam 3.6 mi (5.8 km) above station; minimum, 1.1 ft^3/s (0.031 m^3/s) Oct. 9, 14, 15, 1941; minimum daily, 1.2 ft^3/s (0.034 m^3/s) Oct. 14, 1941.

Maximum stage observed, 26 ft or 7.9 m (discharge, 40,000 ft^3/s or 1,130 m^3/s) in April 1791, from studies by Tennessee Valley Authority. Flood of July 1916 reached a stage of 20.7 ft or 6.31 m (discharge, 23,000 ft^3/s or 651 m^3/s), from flood profile by Tennessee Valley Authority. Flood of Aug. 16, 1928, reached a stage of 18.74 ft (5.712 m), from floodmarks (discharge, 17,800 ft^3/s or 504 m^3/s). High stages are subject to backwater from French Broad River.

REMARKS.--Records good. Considerable regulation by Lake Craig 3.6 mi (5.8 km) above station from 1925 to 1950 (reservoir silted). No diversion from Beetree Reservoir above station by city of Asheville for water supply since June 1963. City of Asheville diverted an average of 31.1 ft^3/s (0.88 m^3/s) for water supply from Burnett Lake on North Fork Swannanoa River 20 mi (32 km) above station (see p. 174); an average of 38.7 ft^3/s (1.10 m^3/s) was discharged as sewage effluent into the French Broad River below station. Textile mills, the town of Black Mountain, and recreational camps diverted about 8 ft^3/s (0.23 m^3/s) above station, of which about half was discharged into the French Broad River below station. Complete record of diversions and return water not available.

REVISIONS (WATER YEARS).--WSP 803: 1921(M), 1923(M), 1925(M). WSP 823: Drainage area. WSP 1306: 1921(M), 1924(M), 1926(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	169	65	116	954	241	231	337	157	267	125	82	89
2	208	56	108	643	392	218	381	160	235	113	73	86
3	117	59	97	611	470	207	347	185	202	112	581	255
4	90	60	98	516	392	189	1,670	180	191	159	598	173
5	79	61	421	437	329	180	1,290	509	161	463	377	123
6	76	63	234	372	303	191	750	410	177	324	312	195
7	71	63	177	320	310	180	546	317	269	338	242	207
8	75	64	162	278	355	170	484	269	252	269	382	174
9	68	66	157	317	326	162	488	242	234	225	428	145
10	69	64	128	294	293	159	419	220	200	203	408	141
11	66	67	115	304	269	146	360	215	176	170	306	135
12	73	62	110	285	252	147	335	385	157	155	242	130
13	73	63	110	255	242	147	706	301	142	137	267	161
14	67	63	112	237	262	137	542	261	127	124	268	125
15	57	65	115	242	243	131	452	232	127	111	266	112
16	58	80	120	220	315	154	374	214	148	102	201	103
17	54	57	109	203	293	156	344	189	148	100	207	109
18	54	69	101	189	257	139	308	194	134	142	273	95
19	51	63	99	182	263	167	280	174	120	154	262	82
20	55	63	220	179	243	226	260	173	115	137	175	75
21	55	291	333	367	228	418	244	168	120	121	165	79
22	50	149	200	279	741	408	237	166	142	100	156	81
23	55	93	173	246	548	326	270	287	146	103	149	74
24	60	66	154	225	432	275	221	241	117	103	133	69
25	56	83	155	223	352	245	202	210	123	91	124	72
26	53	82	1,150	240	300	221	193	210	107	91	110	72
27	53	132	706	382	275	202	185	269	142	135	109	101
28	64	420	368	355	255	191	181	201	239	93	104	147
29	75	200	346	347	------	348	169	185	165	88	95	89
30	56	136	335	300	------	558	162	204	139	79	88	70
31	59	------	697	268	------	428	------	217	------	76	88	------
TOTAL	2,266	2,955	7,549	10,270	9,182	7,067	12,737	7,345	5,022	4,743	7,271	3,569
MEAN	73.1	98.5	244	331	328	228	425	237	167	153	235	119
MAX	208	420	1,150	954	741	558	1,670	509	269	463	598	255
MIN	50	56	97	179	228	131	162	157	107	75	73	69

CAL YR 1973 TOTAL 84,880 MEAN 233 MAX 4,490 MIN 50
WTR YR 1974 TOTAL 79,975 MEAN 219 MAX 1,670 MIN 50

03451500 French Broad River at Asheville, N. C.

LOCATION.--Lat 35°36'32", long 82°34'41", Buncombe County, on right bank 27 ft (8.2 m) upstream from Pearson Bridge (Secondary Road 1348) at Asheville, 1.4 mi (2.3 km) downstream from bridge on U. S. Highways 19 and 23, 3.2 mi (5.1 km) downstream from Swannanoa River, and at mile 145.8 (234.6 km).

DRAINAGE AREA.--945 mi^2 (2,448 km^2).

PERIOD OF RECORD.--October 1895 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,950.28 ft (594.445 m) above mean sea level. Sept. 17, 1895, to Dec. 31, 1901, nonrecording gage at present site at different datum. Mar. 19, 1903 to July 15, 1916, and Jan. 1, 1917, to Sept. 30, 1922, nonrecording gage at Smith Bridge 1.5 mi (2.4 km) upstream at datum 11.52 ft (3.511 m) higher. Oct. 1, 1922, to Aug. 9, 1930, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--79 years, 2,078 ft^3/s (58.85 m^3/s), 29.86 in/yr (758 mm/yr).

EXTREMES.--Current year: Maximum discharge, 14,200 ft^3/s (402 m^3/s) Apr. 4 (gage height, 7.55 ft or 2.301 m); minimum, 827 ft^3/s (23.4 m^3/s) Nov. 20 (gage height, 1.39 ft or 0.424 m); minimum daily, 843 ft^3/s (23.9 m^3/s) Nov. 20.

Period of record: Maximum discharge, 110,000 ft^3/s (3,115 m^3/s) July 16, 1916 (gage height, 23.1 ft or 7.04 m, present site and datum, from floodmarks), from rating curve extended above 43,000 ft^3/s (1,218 m^3/s); minimum, 239 ft^3/s (6.77 m^3/s) at times in August and September 1925 (gage height, 0.16 ft or 0.049 m).

Maximum stage observed since at least 1791, that of July 16, 1916, and flood of June 17, 1876, reached a stage of 18 ft (5.5 m), from studies by Tennessee Valley Authority.

REMARKS.--Records good. Many small diversions from tributaries above station for water supply. Diversions by city of Asheville and others from upstream tributaries in the Swannanoa River basin totaled about 40 ft^3/s or 1.13 m^3/s (see sta 03451000) of which 38.7 ft^3/s (1.10 m^3/s) was discharged as sewage effluent 4 mi (6.4 km) below station. Slight diurnal fluctuation and occasional slight regulation at low flow caused by powerplant 46 mi (74 km) upstream and small reservoirs above station.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 1306: 1895-1909, 1901(M), 1914-15(M), 1917(M), 1920-22(M), 1927(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,020	999	2,140	9,150	2,910	2,960	3,220	2,190	2,440	1,630	1,200	1,410
2	3,280	978	1,840	8,020	4,090	2,630	3,100	2,210	2,340	1,540	1,320	1,440
3	3,060	919	1,680	7,300	4,940	2,730	3,110	2,270	2,370	1,510	3,810	1,740
4	1,800	906	1,610	6,020	4,390	2,610	10,000	2,220	2,150	2,050	7,070	1,820
5	1,500	896	4,790	4,980	3,640	2,510	12,700	3,810	2,020	2,800	6,420	1,570
6	1,370	876	5,440	4,230	3,260	2,500	10,200	3,310	2,020	3,640	5,230	1,720
7	1,290	866	4,360	3,800	3,300	2,420	7,780	3,030	3,530	2,830	5,530	2,110
8	1,260	868	2,710	3,450	3,830	2,320	5,140	2,600	3,180	2,770	4,620	1,770
9	1,270	883	2,450	3,460	3,770	2,250	4,820	2,440	2,620	2,600	5,080	1,600
10	1,240	878	2,150	3,770	3,280	2,220	4,100	2,340	2,510	2,190	4,360	1,540
11	1,160	867	1,960	3,540	3,030	2,150	3,620	2,280	2,350	1,970	4,340	1,760
12	1,120	856	1,820	3,500	2,850	2,110	3,420	4,310	2,180	1,850	3,500	1,560
13	1,090	853	1,800	3,150	2,730	2,110	5,660	5,120	2,010	1,720	4,180	1,740
14	1,060	854	1,590	2,930	2,750	2,040	5,560	3,870	1,910	1,600	3,550	1,760
15	1,040	859	1,790	2,870	2,650	1,990	4,740	3,020	1,910	1,520	3,030	1,450
16	1,010	912	1,800	2,750	3,180	2,080	4,000	2,720	2,250	1,460	3,070	1,420
17	963	885	1,730	2,600	3,850	2,150	3,590	2,540	2,050	1,590	2,900	1,350
18	940	871	1,610	2,490	3,230	1,970	3,320	2,530	1,650	1,520	2,630	1,280
19	936	853	1,560	2,400	3,040	1,970	3,180	2,560	1,760	1,520	2,560	1,220
20	933	843	2,100	2,370	3,070	2,340	3,000	2,430	1,810	1,480	2,160	1,170
21	939	1,850	5,240	4,490	2,790	3,230	2,860	2,390	2,100	1,430	2,020	1,150
22	916	3,380	3,840	4,550	6,380	3,960	2,770	2,310	1,910	1,370	1,920	1,160
23	912	2,210	2,710	3,340	7,490	2,840	3,050	2,950	1,760	1,340	1,970	1,180
24	912	1,500	2,350	2,950	6,520	2,520	2,840	3,370	1,640	1,430	1,860	1,160
25	911	1,310	2,200	2,820	4,670	2,450	2,620	2,710	1,700	1,700	1,770	1,140
26	897	1,260	8,050	2,930	3,620	2,300	2,510	2,440	1,660	1,650	1,680	1,140
27	885	2,240	12,000	4,960	3,300	2,200	2,430	3,340	1,710	1,590	1,600	1,180
28	925	4,800	12,400	4,650	3,120	2,170	2,360	3,100	2,400	1,660	1,600	2,070
29	1,060	4,810	9,430	4,000	------	2,890	2,300	2,600	2,170	1,550	1,620	1,960
30	1,030	3,210	6,430	3,470	------	5,440	2,240	2,430	1,810	1,340	1,620	1,500
31	950	------	6,230	3,130	------	4,270	------	2,360	------	1,240	1,480	------
TOTAL	38,684	44,292	118,150	124,070	105,880	80,540	130,540	88,300	64,120	56,090	95,700	45,070
MEAN	1,248	1,476	3,811	4,002	3,781	2,598	4,351	2,848	2,137	1,809	3,087	1,502
MAX	3,280	4,810	12,400	9,150	7,490	5,440	12,700	5,120	3,530	3,640	7,070	2,110
MIN	885	843	1,560	2,370	2,730	1,970	2,240	2,190	1,640	1,240	1,200	1,140
CFSM	1.32	1.56	4.03	4.23	4.00	2.75	4.60	3.01	2.26	1.91	3.27	1.59
IN.	1.52	1.74	4.65	4.88	4.17	3.17	5.14	3.48	2.52	2.21	3.77	1.77

CAL YR 1973 TOTAL 1,104,332 MEAN 3,026 MAX 25,200 MIN 843 CFSM 3.20 IN 43.47
WTR YR 1974 TOTAL 991,435 MEAN 2,716 MAX 12,700 MIN 843 CFSM 2.87 IN 39.03

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	1815	7.12	12,900	4-4	1830	7.55	14,200
12-31	2245	6.05	10,100				

03453500 French Broad River at Marshall, N. C.

LOCATION.--Lat 35°47'10", long 82°39'39", Madison County, on right bank 0.7 mi (1.1 km) upstream from Hayes Creek, 1.0 mi (1.6 km) downstream from Ivy River, 1.5 mi (2.4 km) southeast of Marshall, and at mile 126.7 (203.9 km).

DRAINAGE AREA.--1,332 mi^2 (3,450 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,646.79 ft (501.942 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--32 years, 2,435 ft^3/s (68.96 m^3/s), 24.83 in/yr (631 mm/yr).

EXTREMES.--Current year: Maximum discharge, 26,000 ft^3/s (736 m^3/s) Apr. 4 (gage height, 9.05 ft or 2.758 m); minimum, 995 ft^3/s (28.2 m^3/s) Nov. 20, 21 (gage height, 1.30 ft or 0.396 m); minimum daily, 1,010 ft^3/s (28.6 m^3/s) Nov. 20.

Period of record: Maximum discharge, 40,400 ft^3/s (1,144 m^3/s) Mar. 26, 1965 (gage height, 11.54 ft or 3.517 m); minimum, 193 ft^3/s (5.47 m^3/s) Sept. 13, 14, 1954 (gage height, 0.36 ft or 0.110 m); minimum daily, 292 ft^3/s (8.27 m^3/s) Sept. 27, 28, 1954.

Maximum stage observed since at least 1791, 22.0 ft (6.71 m) July 16, 1916 (discharge, 115,000 ft^3/s or 3,257 m^3/s), and flood of Aug. 30, 1940, reached a stage of 16.6 ft or 5.06 m (discharge, 70,000 ft^3/s or 1,982 m^3/s), from high-water marks, flood profiles, and studies by Tennessee Valley Authority.

REMARKS.--Records good. Small diversions from tributaries for water supply. Slight diurnal fluctuation and occasional slight regulation at low flow caused by small reservoirs above station. Prior to July 1963, some regulation by Weaverville plant of Carolina Power and Light Company 15 mi (24 km) upstream. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1436: 1954(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,950	1,180	2,560	11,100	3,520	3,490	4,110	2,590	3,310	2,010	1,430	1,690
2	3,720	1,170	2,160	8,870	4,660	3,320	3,890	2,600	3,020	1,890	1,430	1,670
3	3,530	1,110	1,960	6,330	6,710	3,180	3,830	2,800	2,970	1,900	3,060	1,890
4	2,190	1,070	1,860	7,110	5,560	3,050	17,300	2,600	2,690	2,300	7,500	2,210
5	1,780	1,070	4,380	5,880	4,540	2,930	15,300	4,670	2,490	3,150	6,910	1,880
6	1,590	1,070	5,920	5,010	4,030	3,030	11,300	5,190	2,410	4,230	5,310	1,930
7	1,490	1,040	5,070	4,480	4,000	3,040	8,690	3,960	3,670	3,470	5,820	2,490
8	1,430	1,030	3,280	4,040	4,660	2,840	6,230	3,320	3,770	3,440	4,980	2,110
9	1,440	1,050	2,780	4,400	4,550	2,740	5,710	3,070	3,130	3,350	5,450	1,900
10	1,450	1,040	2,520	4,660	3,970	2,670	4,980	2,890	3,000	2,870	4,700	1,880
11	1,340	1,030	2,240	4,570	3,640	2,600	4,400	2,780	2,910	2,510	4,740	2,070
12	1,300	1,020	2,050	4,380	3,390	2,570	4,080	5,610	2,640	2,310	3,910	2,080
13	1,260	1,020	2,040	3,860	3,230	2,580	6,810	5,970	2,430	2,120	4,450	2,520
14	1,230	1,020	2,160	3,540	3,390	2,470	6,780	4,730	2,290	1,960	3,910	2,170
15	1,200	1,020	2,040	3,430	3,500	2,400	5,720	3,720	2,240	1,860	3,530	1,830
16	1,180	1,100	2,000	3,270	4,110	2,490	4,800	3,330	2,780	1,810	3,390	1,730
17	1,140	1,070	1,970	3,100	4,950	2,620	4,310	3,080	2,660	1,910	3,320	1,680
18	1,110	1,030	1,810	2,950	4,160	2,450	3,990	3,020	2,280	1,840	2,940	1,580
19	1,100	1,020	1,770	2,830	3,830	2,610	3,750	2,990	2,140	1,910	3,000	1,500
20	1,090	1,010	2,290	2,760	3,810	3,660	3,530	2,840	2,100	1,820	2,510	1,420
21	1,080	2,140	5,790	4,140	3,440	5,020	3,350	2,840	2,520	1,710	2,360	1,380
22	1,070	3,780	4,560	5,150	7,490	5,540	3,240	2,750	2,420	1,640	2,250	1,400
23	1,060	2,730	3,230	4,020	8,390	4,020	3,540	3,760	2,140	1,570	2,250	1,380
24	1,060	1,820	2,770	3,490	7,300	3,380	3,320	4,000	2,000	1,640	2,160	1,380
25	1,060	1,570	2,530	3,350	5,620	3,090	3,050	3,280	2,040	1,850	2,040	1,360
26	1,050	1,480	8,020	3,280	4,330	2,960	2,930	2,940	2,000	1,990	1,970	1,350
27	1,030	2,170	12,900	4,650	3,900	2,810	2,850	3,940	1,980	2,410	1,360	1,350
28	1,040	4,870	12,600	5,320	3,670	2,740	2,770	3,740	3,060	1,960	1,920	2,170
29	1,210	5,380	10,000	4,830	------	3,190	2,710	3,140	2,810	1,690	1,910	2,330
30	1,220	3,930	7,050	4,250	------	6,310	2,650	3,440	2,270	1,640	1,920	1,780
31	1,160	------	8,880	3,820	------	5,530	------	3,220	------	1,480	1,790	------
TOTAL	44,560	51,040	131,190	144,870	123,350	101,330	159,920	108,860	78,170	68,440	104,720	54,110
MEAN	1,437	1,701	4,232	4,673	4,584	3,269	5,331	3,512	2,606	2,208	3,378	1,804
MAX	3,720	5,380	12,900	11,100	8,390	6,310	17,300	5,970	3,770	4,230	7,500	2,520
MIN	1,030	1,010	1,770	2,760	3,230	2,400	2,650	2,590	1,980	1,480	1,430	1,350
CFSM	1.08	1.28	3.18	3.51	3.44	2.45	4.00	2.64	1.96	1.66	2.54	1.35
IN.	1.24	1.43	3.66	4.05	3.58	2.83	4.47	3.04	2.18	1.91	2.92	1.51

CAL YR 1973 TOTAL 1,281,400 MEAN 3,511 MAX 26,200 MIN 1,010 CFSM 2.64 IN 35.79
WTR YR 1974 TOTAL 1,175,560 MEAN 3,221 MAX 17,300 MIN 1,010 CFSM 2.42 IN 32.83

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	1900	6.70	15,300	2-22	1530	5.32	10,000
12-31	1745	6.44	14,200	4- 4	1630	9.05	26,000

03455500 West Fork Pigeon River above Lake Logan, near Hazelwood, N. C.

LOCATION.--Lat 35°23'46", long 82°56'17", Haywood County, on right bank at upstream side of bridge on Secondary Road 1216, 600 ft (183 m) upstream from Big Creek, 1.1 mi (1.8 km) upstream from Lake Logan, 6.7 mi (10.8 km) southeast of Hazelwood, and at mile 9.3 (15.0 km).

DRAINAGE AREA.--27.6 mi^2 (71.5 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 2,976.00 ft (907.085 m) above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--20 years, 101 ft^3/s (2.860 m^3/s), 49.69 in/yr (1,262 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,600 ft^3/s (102 m^3/s) Nov. 21 (gage height, 5.98 ft or 1.823 m); minimum, 16 ft^3/s (0.45 m^3/s) Oct. 22, 24, 25, 26, 27, 28 (gage height, 0.90 ft or 0.274 m).
Period of record: Maximum discharge, 9,740 ft^3/s (276 m^3/s) Feb. 13, 1966 (gage height, 9.5 ft or 2.90 m, from floodmarks); minimum, 9.4 ft^3/s (0.27 m^3/s) Sept. 29, 30, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	33	79	409	127	131	112	84	100	53	32	42
2	73	21	69	304	573	121	230	89	107	51	40	42
3	32	19	61	316	392	112	243	83	88	63	464	50
4	26	19	65	388	249	103	1,060	79	81	81	141	46
5	23	20	509	256	204	101	373	167	76	110	146	42
6	22	19	139	217	228	106	262	127	405	145	83	70
7	21	18	108	231	259	95	216	97	195	101	74	58
8	27	20	94	177	256	89	279	89	150	89	397	46
9	24	24	86	380	195	85	249	85	125	80	230	42
10	23	19	76	235	172	82	194	89	112	80	150	40
11	21	18	69	273	155	79	174	87	100	67	138	37
12	21	18	66	204	145	80	180	596	92	61	128	51
13	20	19	83	177	135	75	430	164	85	56	114	57
14	19	18	68	174	189	71	219	131	81	52	92	39
15	19	18	72	169	142	68	187	118	82	50	88	37
16	18	24	66	145	195	105	167	108	91	54	86	35
17	17	19	56	132	155	78	155	123	74	54	78	35
18	17	18	55	123	140	71	142	114	68	51	82	34
19	17	18	56	114	144	100	132	100	65	49	81	31
20	17	18	270	120	130	122	124	95	90	47	66	29
21	17	624	166	252	120	232	117	92	76	42	68	33
22	17	85	128	137	690	127	128	99	66	40	69	33
23	17	51	93	127	208	104	141	234	68	42	62	29
24	17	43	85	127	180	95	110	113	60	51	57	27
25	16	41	138	132	157	96	105	98	70	43	54	27
26	16	99	1,380	150	151	89	97	134	58	45	51	27
27	16	146	312	277	140	85	94	223	62	46	51	28
28	26	614	195	210	133	86	90	120	87	40	54	68
29	33	136	183	183	------	193	86	107	75	35	50	37
30	20	95	210	152	------	214	82	100	58	34	45	28
31	23	------	776	137	------	130	------	100	------	31	43	------
TOTAL	755	2,334	5,813	6,428	5,964	3,325	6,178	4,045	2,947	1,843	3,314	1,200
MEAN	24.4	77.8	188	207	213	107	206	130	98.2	59.5	107	40.0
MAX	80	624	1,380	409	690	232	1,060	596	405	145	464	70
MIN	16	18	55	114	120	68	82	79	58	31	32	27
CFSM	.88	2.82	6.81	7.50	7.72	3.88	7.46	4.71	3.56	2.16	3.88	1.45
IN.	1.02	3.15	7.83	8.66	8.04	4.48	8.33	5.45	3.97	2.48	4.47	1.62

CAL YR 1973 TOTAL 42,015 MEAN 115 MAX 1,380 MIN 16 CFSM 4.17 IN 56.63
WTR YR 1974 TOTAL 44,146 MEAN 121 MAX 1,380 MIN 16 CFSM 4.38 IN 59.50

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-21	1115	5.98	3,600	2-22	0415	5.24	2,610
11-28	0715	5.01	2,330	4- 4	1015	5.81	3,360
12-26	1315	5.34	2,730				

03456000 West Fork Pigeon River below Lake Logan, near Waynesville, N. C.

LOCATION.--Lat 35°26'38", long 82°54'46", Haywood County, on right bank at downstream side of bridge on Secondary Road 1111 at Riverside Church, 2.6 mi (4.2 km) downstream from Little East Fork Pigeon River, 3.4 mi (5.5 km) downstream from Lake Logan, 3.8 mi (6.1 km) upstream from confluence with East Fork Pigeon River, and 5.3 mi (8.5 km) southeast of Waynesville.

DRAINAGE AREA.--55.3 mi^2 (143.2 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 2,725.08 ft (830.604 m) above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--20 years, 160 ft^3/s (4.531 m^3/s), 39.29 in/yr (998 mm/yr) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,840 ft^3/s (109 m^3/s) Apr. 4 (gage height, 6.82 ft or 2.079 m); minimum, 32 ft^3/s (0.91 m^3/s) Nov. 1 (gage height, 0.46 ft or 0.140 m); minimum daily, 35 ft^3/s (0.99 m^3/s) Nov. 2, 3.

Period of record: Maximum discharge, 8,930 ft^3/s (253 m^3/s) Feb. 13, 1966 (gage height, 9.62 ft or 2.932 m), from rating curve extended above 3,300 ft^3/s (93.5 m^3/s); minimum, 7.6 ft^3/s (0.22 m^3/s) Sept. 7, 1954, minimum gage height, 0.10 ft (0.030 m) Oct. 22, 23, 1963.

REMARKS.--Records good. Considerable regulation at times caused by Lake Logan (see p. 174).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	39	116	782	242	241	215	159	173	92	59	63
2	114	35	101	543	675	225	368	169	169	88	63	65
3	57	35	93	531	584	212	343	157	150	101	456	70
4	46	42	92	603	414	197	1,560	146	138	140	233	71
5	43	42	622	446	356	204	708	303	129	153	191	64
6	42	41	223	383	367	282	490	274	440	196	119	90
7	42	41	168	385	401	343	404	212	311	157	112	92
8	46	41	157	320	400	259	452	193	229	138	413	71
9	45	41	149	527	332	184	430	182	200	121	298	66
10	42	41	122	406	303	162	355	180	183	124	192	63
11	41	42	115	436	282	152	327	173	163	106	193	62
12	40	42	115	365	264	152	314	712	150	99	162	69
13	39	42	135	323	248	144	593	304	141	91	166	81
14	39	43	116	313	309	139	385	249	134	85	129	64
15	38	45	114	303	259	130	345	224	131	82	123	63
16	37	42	112	268	323	141	317	207	145	81	123	61
17	39	40	96	246	285	147	296	209	123	89	115	60
18	48	42	87	228	261	137	275	211	114	86	104	56
19	40	43	95	215	266	144	260	183	109	85	122	54
20	39	40	312	215	245	180	246	174	161	82	94	53
21	39	334	277	393	228	292	234	167	137	72	92	53
22	38	140	163	253	917	287	234	169	115	69	101	53
23	38	81	152	235	391	205	265	311	117	69	90	52
24	39	67	138	232	340	195	216	191	105	77	84	51
25	42	62	167	239	303	191	204	166	113	75	79	50
26	41	103	1,460	257	273	173	193	190	100	95	76	48
27	41	177	542	419	263	151	184	342	103	79	72	45
28	44	709	348	346	248	99	178	205	131	71	74	52
29	45	199	309	331	------	133	171	183	131	66	75	46
30	41	137	350	288	------	170	164	173	100	64	67	42
31	43	------	1,110	261	------	243	------	168	------	62	65	------
TOTAL	1,378	2,828	8,156	11,092	9,779	5,914	10,726	6,886	4,645	2,995	4,342	1,830
MEAN	44.5	94.3	263	358	349	191	358	222	155	96.6	140	61.0
MAX	114	709	1,460	782	917	343	1,560	712	440	196	456	92
MIN	37	35	87	215	228	99	164	146	100	62	59	42
(†)	-127	+175	+28	-25	+1	-391	+386	+2	-5	-21	+16	-18
MEAN‡	40.4	100	264	357	349	178	370	222	155	95.9	141	60.4
CFSM‡	0.73	1.81	4.77	6.46	6.31	3.22	6.69	4.01	2.80	1.73	2.55	1.09
IN.‡	0.84	2.02	5.50	7.44	6.58	3.71	7.47	4.63	3.12	2.00	2.93	1.22

CAL YR 1973 TOTAL 67,870 MEAN 186 MAX 1,930 MIN 35 MEAN‡ 186 CFSM‡ 3.36 IN.‡ 45.64
WTR YR 1974 TOTAL 70,571 MEAN 193 MAX 1,560 MIN 35 MEAN‡ 193 CFSM‡ 3.49 IN.‡ 47.46

† Change in contents, in cfs-days, in Lake Logan.
‡ Adjusted for change in lake contents.

03456500 East Fork Pigeon River near Canton, N. C.

LOCATION.--Lat 35°27'42", long 82°52'12", Haywood County, on right bank 800 ft (244 m) upstream from bridge on U. S. Highway 276, 0.3 mi (0.5 km) downstream from Dix Creek, 1.6 mi (2.6 km) upstream from confluence with West Fork Pigeon River, and 5.2 mi (8.4 km) southwest of Canton.

DRAINAGE AREA.--51.5 mi^2 (133.4 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 2,674.34 ft (815.139 m) above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--20 years, 141 ft^3/s (3.993 m^3/s), 37.18 in/yr (944 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,690 ft^3/s (105 m^3/s) Dec. 26 (gage height, 6.20 ft or 1.890 m); minimum, 28 ft^3/s (0.79 m^3/s) Oct. 17, 21, 22, 26, 27, 28 (gage height, 1.34 ft or 0.408 m).
Period of record: Maximum discharge, 12,000 ft^3/s (340 m^3/s) May 28, 1973 (gage height, 11.19 ft or 3.411 m), from rating curve extended above 4,600 ft^3/s (130 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 12 ft^3/s (0.34 m^3/s) Jan. 9, 1956, result of freezeup; minimum gage height, 0.81 ft (0.247 m) Dec. 15, 1958, result of freezeup.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 2110: 1966(M). WRD N. C. 1973: 1972(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	49	142	737	166	206	176	117	149	81	47	54
2	108	39	122	521	319	188	260	119	136	78	48	54
3	59	35	109	462	308	173	247	114	126	83	327	59
4	48	35	103	440	257	161	1,300	108	117	125	191	56
5	43	35	574	361	231	154	723	224	110	117	122	53
6	39	33	278	314	225	153	465	199	206	124	108	87
7	39	32	214	294	233	141	362	155	202	112	104	79
8	41	33	179	256	243	134	353	141	156	115	247	61
9	46	35	158	336	209	127	323	133	153	103	203	56
10	39	33	139	283	192	123	275	127	140	103	153	54
11	37	32	123	286	179	118	249	124	127	96	153	52
12	37	32	115	255	167	116	241	686	119	93	168	56
13	35	32	123	233	158	111	509	348	112	83	189	65
14	34	32	112	218	189	106	351	267	107	78	144	51
15	33	32	109	205	164	103	305	228	114	73	130	49
16	32	35	105	187	200	115	272	201	112	70	134	47
17	30	32	96	173	184	106	248	184	99	71	122	46
18	30	31	93	162	172	99	227	174	92	69	106	45
19	31	31	89	154	186	104	210	169	89	75	104	43
20	30	31	303	152	179	116	193	164	208	69	91	40
21	28	677	321	265	166	194	180	152	131	69	88	41
22	29	189	216	185	1,110	138	175	148	101	61	84	42
23	30	109	182	171	479	123	192	243	97	60	80	40
24	30	87	159	164	365	117	160	169	90	66	76	37
25	30	77	184	160	305	117	151	151	105	61	72	38
26	29	87	1,770	172	264	112	143	163	88	69	68	37
27	29	157	846	274	241	107	136	261	87	64	67	38
28	32	552	488	221	221	105	131	184	112	57	66	82
29	49	250	377	216	------	199	127	166	103	52	62	46
30	35	175	350	193	------	279	121	154	87	49	58	38
31	38	------	864	178	------	208	------	146	------	48	56	------
TOTAL	1,226	3,039	9,043	8,228	7,312	4,353	8,805	5,919	3,675	2,474	3,668	1,546
MEAN	39.5	101	292	265	261	140	294	191	123	79.8	118	51.5
MAX	108	677	1,770	737	1,110	279	1,300	686	208	125	327	87
MIN	28	31	89	152	158	99	121	108	87	48	47	37
CFSM	.77	1.96	5.67	5.15	5.07	2.72	5.71	3.71	2.39	1.55	2.29	1.00
IN.	.89	2.20	6.53	5.94	5.28	3.14	6.36	4.28	2.65	1.79	2.65	1.12

CAL YR 1973 TOTAL 69,083 MEAN 189 MAX 2,660 MIN 28 CFSM 3.67 IN 49.90
WTR YR 1974 TOTAL 59,288 MEAN 162 MAX 1,770 MIN 28 CFSM 3.15 IN 42.83

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-21	1315	6.03	3,470	2-22	0615	5.96	3,380
12-26	1730	6.20	3,690	4- 4	1245	5.43	2,730
12-31	1830	4.72	1,950	5-12	0845	4.40	1,650

03457000 Pigeon River at Canton, N. C.

LOCATION.--Lat 35°31'30", long 82°50'28", Haywood County, on left bank 100 ft (30 m) upstream from small tributary, 200 ft (61 m) downstream from Pigeon Street Bridge, 0.5 mi (0.8 km) from U. S. Highways 19 and 23 at Canton, and at mile 64.1 (103.1 km). Records include flow of small tributary.

DRAINAGE AREA.--133 mi^2 (344 km^2), includes that of small tributary below gage.

PERIOD OF RECORD.--May 1907 to June 1909, October 1928 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,572.22 ft (784.013 m) above mean sea level (levels by Tennessee Valley Authority). Prior to June 1909, nonrecording gage at bridge 0.4 mi (0.6 km) downstream at different datum. Dec. 6, 1928, to Jan. 3, 1929, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--47 years (1907-8, 1928-74), 318 ft^3/s (9.006 m^3/s), 32.47 in/yr (825 mm/yr) unadjusted.

EXTREMES.--Current year: Maximum discharge, 6,610 ft^3/s (187 m^3/s) Apr. 4 (gage height, 8.88 ft or 2.707 m from floodmark); minimum, 71 ft^3/s (2.01 m^3/s) Nov. 3 (gage height, 0.80 ft or 0.244 m); minimum daily discharge, 73 ft^3/s (2.07 m^3/s) Nov. 3.

Period of record: Maximum discharge, 31,600 ft^3/s (895 m^3/s) Aug. 30, 1940 (gage height, 20.75 ft or 6.325 m, from floodmarks in gage well); minimum, 15 ft^3/s (0.42 m^3/s) Jan. 8, 1956 (gage height, 0.04 ft or 0.012 m), result of freezeup; minimum daily, 27 ft^3/s (0.76 m^3/s) Sept. 7, 1954.

Flood of about 1810 is believed to have been approximately equal to that of Aug. 30, 1940, and flood of June 15, 1876, reached a stage of 18.3 ft or 5.58 m (discharge, 25,700 ft^3/s or 728 m^3/s), from studies by Tennessee Valley Authority.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Occasional diurnal fluctuation and considerable regulation at low flow caused by Lake Logan on West Fork Pigeon River 12 mi (19 km) upstream (see p. 174). Town of Canton diverted above station an average of 1.05 ft^3/s (0.030 m^3s) for municipal water supply.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 853: 1929-37(M). WSP 1306: 1908(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	92	263	1,910	402	453	300	280	360	202	128	134
2	230	77	227	1,220	1,060	417	660	294	331	195	136	133
3	127	73	204	1,140	1,080	386	620	281	309	188	735	151
4	99	78	191	1,200	756	359	3,100	266	285	309	576	146
5	91	79	1,280	912	637	351	1,300	591	268	318	350	135
6	87	77	549	763	619	422	950	549	629	334	254	175
7	86	76	387	739	688	484	780	386	646	330	247	210
8	96	76	323	607	711	407	860	346	428	292	676	154
9	102	78	294	938	581	313	820	325	396	274	566	140
10	88	76	260	773	517	288	698	315	360	265	380	136
11	84	76	225	793	472	273	624	305	328	236	389	134
12	83	77	217	676	435	267	580	1,480	302	228	337	174
13	81	76	250	585	409	250	1,240	740	286	206	410	182
14	80	76	232	542	518	240	828	565	272	193	306	141
15	78	79	216	520	438	230	714	490	276	184	280	132
16	77	80	217	456	551	250	630	440	293	177	278	127
17	74	75	190	416	499	260	574	417	256	188	271	124
18	83	75	164	386	447	240	524	426	238	184	234	120
19	78	77	181	362	467	250	482	382	226	191	253	114
20	76	74	561	350	436	320	447	371	346	183	209	111
21	75	924	712	696	399	540	416	349	350	169	200	111
22	75	401	385	442	2,100	500	399	344	253	156	208	114
23	74	202	339	401	1,010	360	479	605	244	154	194	108
24	75	157	303	387	788	340	377	400	226	170	184	105
25	76	136	310	399	660	350	354	349	244	162	172	106
26	76	146	3,050	415	562	310	336	360	218	200	164	104
27	76	335	1,730	730	522	270	321	689	214	181	158	101
28	79	1,310	953	566	479	180	310	430	270	158	160	151
29	95	493	729	582	------	260	300	384	276	144	155	113
30	80	320	790	483	------	330	290	359	219	137	144	98
31	82	------	2,040	437	------	310	------	345	------	132	138	------
TOTAL	2,783	5,971	17,772	20,826	18,243	10,210	20,313	13,863	9,349	6,440	8,892	3,984
MEAN	89.8	199	573	672	652	329	677	447	312	208	287	133
MAX	230	1,310	3,050	1,910	2,100	540	3,100	1,480	646	334	735	210
MIN	74	73	164	350	399	180	290	266	214	132	128	98
(†)	-95.2	+208.8	+57.3	+4.8	+31.6	-363.4	+413.8	+32.2	+25.1	+8.7	+63.9	+16.7
MEAN‡	86.7	206	575	672	653	318	691	448	312	208	289	133
CFSM‡	0.65	1.55	4.32	5.05	4.91	2.39	5.20	3.37	2.35	1.56	2.17	1.00
IN.‡	0.75	1.73	4.99	5.82	5.11	2.75	5.80	3.89	2.62	1.80	2.50	1.12

CAL YR 1973 TOTAL 146,126 MEAN 400 MAX 4,650 MIN 73 MEAN‡ 401 CFSM‡ 3.02 IN.‡ 40.98
WTR YR 1974 TOTAL 138,646 MEAN 380 MAX 3,100 MIN 73 MEAN‡ 381 CFSM‡ 2.86 IN.‡ 38.88

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	1730	8.35	5,940	2-22	0800	8.08	5,620
12-31	2000	7.32	4,750	4- 4	Unknown	8.88	6,610

NOTE.--No gage-height record Mar. 13 to Apr. 9.

† Diversion by city of Canton, and change in contents in Lake Logan, equivalent in cfs-days Records of diversion furnished by city of Canton.

‡ Adjusted for diversion and change in lake contents.

03459500 Pigeon River near Hepco, N. C.

LOCATION.--Lat 35°38'07", long 82°59'22", Haywood County, on left bank 95 ft (29 m) east of Interstate Highway 40, 0.8 mi (1.3 km) downstream from Jonathan Creek, 2.0 mi (3.2 km) south of Hepco, 2.4 mi (3.9 km) upstream from Fines Creek, and at mile 45.1 (72.6 km).

DRAINAGE AREA.--350 mi^2 (906 km^2).

PERIOD OF RECORD.--July 1927 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,335.95 ft (711.998 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--47 years, 669 ft^3/s (18.95 m^3/s), 25.96 in/yr (659 mm/yr).

EXTREMES.--Current year: Maximum discharge, 13,400 ft^3/s (379 m^3/s) Apr. 4 (gage height, 10.26 ft or 3.127 m); minimum, 193 ft^3/s (5.47 m^3/s) Oct. 7, 18 (gage height, 1.34 ft or 0.408 m).
Period of record: Maximum discharge, 32,700 ft^3/s (926 m^3/s) Aug. 30, 1940 (gage height, 15.82 ft or 4.822 m, from floodmark in gage house), from rating curve extended above 12,000 ft^3/s (340 m^3/s) on basis of slope-area measurements at gage heights 14.94 ft (4.554 m) and 15.82 ft (4.822 m); minimum, 81 ft^3/s (2.29 m^3/s) Sept. 30, 1941; minimum gage height, 0.81 ft (0.247 m) Sept. 8, 1954.
Floods of June 1876 and February 1902 reached a stage of about 18 ft (5.5 m), from flood profiles by Tennessee Valley Authority (discharge, about 42,000 ft^3/s or 1,190 m^3/s).

REMARKS.--Records good. Considerable regulation by Lake Junaluska on Richland Creek and Lake Logan on West Fork Pigeon River for periods of low flow (combined capacity of reservoirs, about 2,000 ft^3/s-day or about 4.894 hm^3). (see p. 174).

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 893: 1928-31, 1932(M), 1933-36, 1937-39(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	281	299	527	4,240	954	1,070	976	711	886	458	312	317
2	544	237	465	2,630	2,540	990	1,380	728	816	436	311	315
3	477	211	429	2,680	2,730	933	1,180	747	759	574	852	370
4	239	208	403	2,830	1,940	883	7,550	690	701	590	1,410	393
5	226	223	2,560	2,200	1,590	851	3,900	2,110	668	832	692	337
6	206	221	1,170	1,820	1,510	1,040	2,460	1,790	908	700	537	378
7	196	207	797	1,740	1,660	999	1,950	1,160	1,180	656	506	475
8	214	211	669	1,420	1,750	927	2,110	983	908	610	912	380
9	243	218	611	2,270	1,450	795	2,090	924	819	780	1,010	344
10	213	211	550	2,010	1,300	751	1,660	870	748	605	732	326
11	224	205	492	2,030	1,200	715	1,480	831	700	549	714	318
12	227	208	465	1,750	1,100	712	1,380	2,400	651	512	655	435
13	222	210	536	1,470	1,030	689	2,490	1,570	621	468	740	549
14	219	211	559	1,340	1,270	658	1,830	1,210	603	442	664	377
15	214	212	474	1,280	1,130	636	1,630	1,060	595	432	618	335
16	210	275	487	1,150	1,450	807	1,440	975	684	432	535	315
17	203	227	451	1,040	1,330	756	1,320	922	596	438	541	307
18	199	212	396	963	1,170	668	1,220	942	542	440	477	295
19	209	207	419	908	1,210	805	1,140	877	523	467	497	278
20	203	209	749	867	1,130	1,010	1,060	898	537	444	438	268
21	201	954	1,360	1,390	1,020	1,600	1,000	841	768	399	441	272
22	199	922	682	1,020	4,160	1,350	966	809	575	376	467	283
23	202	437	688	924	2,130	1,020	1,080	1,360	577	369	420	268
24	202	360	622	914	1,700	924	922	980	534	389	402	257
25	201	334	585	975	1,450	1,090	875	848	513	409	382	258
26	199	358	4,220	989	1,260	1,200	836	904	500	498	365	258
27	198	568	3,240	1,560	1,190	1,040	806	1,520	525	464	363	259
28	233	2,030	1,710	1,300	1,100	593	779	998	570	397	366	433
29	288	965	1,330	1,370	------	747	756	897	555	356	369	320
30	243	632	1,560	1,150	------	1,080	730	895	490	336	353	268
31	230	------	4,670	1,040	------	994	------	848	------	318	325	------
TOTAL	7,365	11,982	33,876	49,270	43,454	28,333	48,996	33,298	20,052	15,176	17,406	9,988
MEAN	238	399	1,093	1,589	1,552	914	1,633	1,074	668	490	561	333
MAX	544	2,030	4,670	4,240	4,160	1,600	7,550	2,400	1,180	832	1,410	549
MIN	196	205	396	867	954	593	730	690	490	318	311	257

CAL YR 1973 TOTAL 311,104 MEAN 852 MAX 10,500 MIN 196
WTR YR 1974 TOTAL 319,196 MEAN 875 MAX 7,550 MIN 196

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	2000	8.28	8,510	2-22	1130	7.94	7,790
12-31	2015	8.84	9,730	4- 4	1730	10.26	13,400

03460000 Cataloochee Creek near Cataloochee, N. C.
(Hydrologic bench-mark station)

LOCATION.--Lat 35°40'02", long 83°04'23", Haywood County, in Great Smoky Mountains National Park, on left bank 20 ft (6 m) downstream from bridge on State Highway 284, 500 ft (152 m) upstream from Little Cataloochee Creek, 2 mi (3 km) north of Cataloochee, and 3.7 mi (6.0 km) upstream from mouth.

DRAINAGE AREA.--49.2 mi^2 (127.4 km^2).

PERIOD OF RECORD.--October 1933 to September 1952, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,456.88 ft (748.857 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--31 years, 110 ft^3/s (3.115 m^3/s), 30.36 in/yr (771 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,770 ft^3/s (78.4 m^3/s) Dec. 31 (gage height, 6.43 ft or 1.960 m); minimum, 32 ft^3/s (0.91 m^3/s) Oct. 25, 26-28 (gage height, 2.11 ft or 0.643 m).
Period of record: Maximum discharge, 5,080 ft^3/s (144 m^3/s) Mar. 6, 1963 (gage height, 8.08 ft or 2.463 m); minimum, 9 ft^3/s (0.25 m^3/s) Jan. 2, 1940, Dec. 17, 24, 1943 (gage height, 1.87 ft or 0.57 m), result of freezeup.

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report. Records for Class A evaporation station 2.4 mi (3.9 km) upstream published in reports of National Climatic Center, NOAA, U. S. Department of Commerce.

REVISIONS.--WSP 823: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	58	120	1,010	171	180	182	112	194	66	47	52
2	45	42	103	602	510	166	206	114	215	65	47	51
3	42	40	92	617	613	155	180	146	193	76	103	59
4	40	39	86	696	437	146	705	113	175	73	86	57
5	40	51	400	564	343	148	565	411	160	90	71	50
6	39	42	231	442	318	137	387	396	153	75	57	65
7	38	39	174	380	330	152	306	262	141	91	55	58
8	42	40	145	304	357	144	359	215	130	103	77	52
9	44	41	126	560	324	139	373	195	122	121	85	50
10	39	37	111	542	284	135	320	175	118	102	80	46
11	38	37	99	739	251	129	278	165	111	86	73	48
12	37	37	92	604	225	128	269	263	104	78	111	82
13	37	37	122	437	208	121	648	204	99	72	104	69
14	37	35	190	362	224	115	452	187	97	68	77	59
15	36	36	91	302	191	111	366	174	93	66	77	52
16	36	58	83	256	223	155	302	162	112	67	70	49
17	35	39	83	227	204	123	265	159	90	65	68	46
18	34	37	83	204	195	116	234	163	84	78	67	47
19	35	37	78	186	211	175	211	152	81	68	66	45
20	34	37	117	172	201	241	192	143	80	66	59	44
21	34	127	137	175	188	487	177	154	102	61	59	47
22	33	76	119	152	496	387	171	143	82	58	60	46
23	33	58	109	145	375	256	175	222	93	58	56	43
24	33	53	103	146	302	237	152	176	81	58	53	42
25	33	65	98	153	256	217	143	157	81	56	53	42
26	32	96	475	162	225	196	135	181	74	79	51	41
27	32	121	369	244	204	177	129	209	88	60	49	42
28	78	422	256	226	188	157	123	176	80	54	49	56
29	55	210	221	218	------	211	119	163	72	52	58	42
30	41	147	239	204	------	211	114	200	69	51	60	39
31	44	------	1,380	186	------	193	------	186	------	48	51	------
TOTAL	1,223	2,195	6,067	11,219	8,059	5,735	8,238	5,878	3,374	2,211	2,079	1,525
MEAN	39.5	73.2	196	362	288	185	275	190	112	71.3	67.1	50.8
MAX	78	422	1,380	1,010	618	487	705	411	215	121	111	82
MIN	32	36	78	145	171	111	114	112	69	48	47	39
CFSM	.80	1.49	3.98	7.36	5.85	3.76	5.59	3.86	2.28	1.45	1.36	1.03
IN.	.92	1.66	4.59	8.48	6.09	4.34	6.23	4.44	2.55	1.67	1.57	1.15

CAL YR 1973 TOTAL 50,057 MEAN 137 MAX 2,690 MIN 32 CFSM 2.78 IN 37.85
WTR YR 1974 TOTAL 57,803 MEAN 158 MAX 1,380 MIN 32 CFSM 3.21 IN 43.70

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	1430	4.95	1,240	2-2	1600	4.75	1,080
12-31	1630	6.43	2,770	4-4	1345	4.80	1,120
1-11	1115	4.84	1,150				

03463300 South Toe River near Celo, N. C.

LOCATION.--Lat 35°49'52", long 82°11'04", Yancey County, on right bank on Secondary Road 1168, 800 ft (244 m) upstream from bridge on Secondary Road 1167, 0.3 mi (0.5 km) downstream from Whiteoak Creek, 1.9 mi (3.1 km) southeast of Celo, and at mile 20.1 (32.3 km).

DRAINAGE AREA.--43.4 mi^2 (112.4 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 2,658 ft (810.16 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 144 ft^3/s (4.078 m^3/s), 45.06 in/yr (1,145 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,660 ft^3/s (75.3 m^3/s) Dec. 26 (gage height, 4.00 ft or 1.219 m); minimum, 36 ft^3/s (1.02 m^3/s) Nov. 19, 20, 21 (gage height, 0.67 ft or 0.204 m).
Period of record: Maximum discharge, 13,900 ft^3/s (394 m^3/s) June 20, 1972 (gage height, 9.87 ft or 3.008 m), from rating curve extended above 4,500 ft^3/s (127 m^3/s) on basis of slope-area measurement of peak flow; minimum, 14 ft^3/s (0.40 m^3/s) Dec. 26, 1958, result of freezeup.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1910: 1958-59.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	322	63	141	522	155	175	206	108	189	102	67	76
2	422	49	123	365	306	166	241	107	166	95	68	74
3	209	46	109	350	307	155	219	119	145	111	543	170
4	152	45	102	330	238	148	1,060	104	133	120	325	137
5	123	43	811	284	201	145	534	311	124	230	206	100
6	103	44	310	252	216	188	369	235	140	219	205	351
7	91	40	224	235	247	171	304	168	585	196	177	396
8	119	41	187	210	286	147	311	148	299	158	292	222
9	102	42	177	297	237	137	302	140	300	143	242	172
10	90	39	153	252	207	129	249	130	274	131	189	160
11	81	38	134	255	192	123	227	127	240	116	181	149
12	76	38	125	229	177	128	214	712	195	107	161	262
13	72	38	151	204	168	133	465	321	174	97	159	283
14	71	38	154	195	191	117	289	235	159	90	150	180
15	65	38	135	198	173	112	249	203	153	84	157	154
16	60	49	131	183	178	144	223	185	228	85	152	137
17	56	41	116	170	164	131	207	168	169	83	154	128
18	55	38	117	159	155	117	193	158	143	317	131	120
19	54	37	103	151	172	168	180	153	131	141	122	106
20	53	37	285	145	173	234	169	142	125	113	110	100
21	53	347	355	284	161	483	159	138	124	98	118	95
22	50	162	215	198	828	271	153	130	124	89	107	90
23	47	98	177	178	352	212	161	242	110	88	103	84
24	45	82	160	168	278	187	141	169	109	85	94	80
25	43	75	158	165	236	176	133	143	122	81	88	78
26	39	84	1,410	176	213	163	129	147	99	109	84	75
27	38	131	629	269	194	153	123	189	122	117	84	79
28	45	549	381	212	184	147	119	146	176	92	89	136
29	62	245	304	206	------	238	116	135	133	81	81	85
30	43	170	281	183	------	343	111	246	113	74	90	73
31	52	------	601	167	------	246	------	201	------	70	78	------
TOTAL	2,893	2,787	8,459	7,192	6,589	5,587	7,556	5,860	5,304	3,722	4,807	4,352
MEAN	93.3	92.9	273	232	235	180	252	189	177	120	155	145
MAX	422	549	1,410	522	828	483	1,060	712	585	317	543	396
MIN	38	37	102	145	155	112	111	104	99	70	67	73
CFSM	2.15	2.14	6.29	5.35	5.41	4.15	5.81	4.35	4.08	2.77	3.57	3.34
IN.	2.48	2.39	7.25	6.16	5.65	4.79	6.48	5.02	4.55	3.19	4.12	3.73

CAL YR 1973 TOTAL 58,428 MEAN 160 MAX 1,640 MIN 25 CFSM 3.69 IN 50.08
WTR YR 1974 TOTAL 65,108 MEAN 178 MAX 1,410 MIN 37 CFSM 4.10 IN 55.81

PEAK DISCHARGE (BASE, 2,800 CFS).--No peak above base.

03479000 Watauga River near Sugar Grove, N. C.

LOCATION.--Lat 36°14'18", long 81°49'22", Watauga County, on right bank 250 ft (76 m) upstream from bridge on Secondary Road 1121, 300 ft (91 m) downstream from Cove Creek, 2.3 mi (3.7 km) southwest of Sugar Grove, and at mile 64.4 (103.6 km).

DRAINAGE AREA.--90.8 mi^2 (235.2 km^2).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,607.84 ft (794.870 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 168 ft^3/s (4.758 m^3/s), 25.13 in/yr (638 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,000 ft^3/s (170 m^3/s) Apr. 4 (gage height, 10.56 ft or 3.219 m); minimum, 41 ft^3/s (1.16 m^3/s) Oct. 26, 27, 28 (gage height, 1.56 ft or 0.475 m).

Period of record: Maximum discharge, 50,800 ft^3/s (1,440 m^3/s) Aug. 13, 1940 (gage height, 29.6 ft or 9.02 m, from profile based on floodmarks), from rating curve extended above 4,900 ft^3/s (139 m^3/s) on basis of slope-area measurement of peak flow; minimum, 6.5 ft^3/s (0.18 m^3/s) Jan. 1, 1954 (gage height, 1.13 ft or 0.344 m), result of freezeup; minimum daily, 13 ft^3/s (0.37 m^3/s) Sept. 19, 30, 1954.

Flood of July 1916 reached a stage of 22.1 ft (6.736 m), from floodmarks on barn 0.25 mi (0.4 km) above station as witnessed by local resident (discharge, 28,000 ft^3/s or 793 m^3/s, from rating curve extended above 4,900 ft^3/s or 139 m^3/s on basis of slope-area measurement at gage height 29.6 ft or 9.022 m).

REMARKS.--Records good. Slight diurnal fluctuation at low flow caused by small mills above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	87	142	855	197	234	461	119	526	292	74	81
2	219	68	122	568	356	206	411	116	294	242	75	137
3	113	59	110	442	515	191	340	160	226	216	402	202
4	79	56	102	424	422	179	3,180	124	186	215	352	230
5	62	99	491	372	321	182	1,540	156	162	319	220	123
6	60	81	356	332	283	206	775	170	582	248	185	899
7	56	68	230	332	262	191	518	134	763	210	155	686
8	107	63	185	281	284	177	439	122	567	232	217	336
9	98	63	181	446	251	168	414	132	553	232	245	265
10	101	56	154	433	228	160	313	125	562	222	181	688
11	73	53	136	444	217	153	289	117	382	202	161	804
12	65	53	125	407	199	197	266	643	293	181	149	459
13	60	52	179	324	194	276	352	461	244	161	135	562
14	59	52	229	277	212	222	311	304	236	149	120	489
15	55	50	189	250	189	197	294	251	321	141	115	332
16	51	56	171	224	204	213	258	224	385	134	127	267
17	48	50	156	202	210	204	242	188	305	127	232	246
18	46	48	150	184	206	185	223	170	243	124	168	220
19	46	47	133	172	241	322	206	183	209	145	202	185
20	45	46	421	163	273	571	190	162	207	139	132	166
21	45	369	914	313	244	823	178	152	199	125	116	158
22	45	308	442	233	1,260	657	172	144	383	110	104	149
23	44	160	305	205	718	432	193	235	265	108	102	137
24	43	122	244	197	460	336	164	185	218	112	94	128
25	43	110	216	218	353	281	151	154	190	105	87	124
26	42	103	1,240	219	305	245	143	155	168	100	85	119
27	41	103	1,130	240	254	220	137	206	208	103	82	114
28	48	283	575	252	232	207	132	156	929	100	122	205
29	87	262	396	261	------	272	127	145	565	87	86	139
30	66	174	350	234	------	447	121	203	382	86	81	114
31	64	------	540	216	------	619	------	245	------	77	77	------
TOTAL	2,103	3,201	10,314	9,720	9,090	8,973	12,540	6,041	10,753	5,044	4,683	8,764
MEAN	67.8	107	333	314	325	289	418	195	358	163	151	292
MAX	219	369	1,240	855	1,260	823	3,180	643	929	319	402	899
MIN	41	46	102	163	189	153	121	116	162	77	74	81
CFSM	.75	1.18	3.67	3.46	3.58	3.18	4.60	2.15	3.94	1.80	1.66	3.22
IN.	.86	1.31	4.23	3.98	3.72	3.68	5.14	2.47	4.41	2.07	1.92	3.59

CAL YR 1973 TOTAL 79,831 MEAN 219 MAX 5,250 MIN 36 CFSM 2.41 IN 32.71
WTR YR 1974 TOTAL 91,226 MEAN 250 MAX 3,180 MIN 41 CFSM 2.75 IN 37.37

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-26	2000	7.29	2,570	9- 6	1815	6.98	2,330
2-22	1030	7.56	2,800	9-10	2000	6.99	2,330
4- 4	1415	10.56	6,000				

03500000 Little Tennessee River near Prentiss, N. C.

LOCATION.--Lat 35°08'57", long 83°22'46", Macon County, on left bank 600 ft (183 m) upstream from Owenby Branch, 0.5 mi (0.8 km) upstream from Cartoogechaye Creek, 2 mi (3 km) north of Prentiss, and at mile 119.5 (192.3 km).

DRAINAGE AREA.--140 mi^2 (363 km^2).

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,008.39 ft (612.157 m) above mean sea level (levels by Tennessee Valley Authority). Since Oct. 1, 1954, auxiliary water-stage recorder 0.5 mi (0.8 km) downstream from base gage at same datum.

AVERAGE DISCHARGE.--31 years, 389 ft^3/s (11.02 m^3/s), 37.73 in/yr (958 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,310 ft^3/s (122 m^3/s) Apr. 4 (gage height, 10.11 ft or 3.082 m); minimum, 128 ft^3/s (3.62 m^3/s) Nov. 20 (gage height, 1.61 ft or 0.491 m).

Period of record: Maximum discharge, 12,200 ft^3/s (346 m^3/s) Oct. 4, 1964; maximum gage height, 17.30 ft (5.273 m) Oct. 4,1964; minimum discharge, 65 ft^3/s (1.84 m^3/s) Oct. 16, 17, 1954 (gage height, 1.21 ft or 0.369 m).

Flood in October 1898 reached a stage of about 15 ft (4.6 m), from profiles by Tennessee Valley Authority.

REMARKS.--Records good. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1236: 1949(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	253	178	420	2,980	647	611	525	461	613	335	267	353
2	307	152	354	1,500	1,090	588	785	454	689	319	262	348
3	235	146	314	1,150	1,360	567	884	472	596	365	1,360	406
4	209	144	303	1,400	996	546	3,070	452	536	393	2,440	375
5	195	142	1,760	1,120	837	531	2,740	741	500	439	1,220	341
6	183	138	1,050	944	814	521	1,310	791	880	557	917	402
7	177	135	642	929	936	505	1,060	576	1,310	399	762	424
8	172	141	526	810	944	490	993	517	855	492	1,280	364
9	172	165	465	982	830	480	989	492	718	492	1,210	342
10	171	144	412	995	754	469	831	480	648	442	861	328
11	169	138	373	982	705	455	761	480	596	422	741	318
12	168	137	348	939	662	448	728	1,610	549	368	689	319
13	163	135	346	802	634	443	1,290	1,200	521	334	644	455
14	163	135	342	757	679	425	954	781	493	323	598	337
15	161	134	322	768	659	416	870	673	476	300	615	317
16	155	138	323	705	881	438	776	614	478	318	645	302
17	150	133	298	658	820	422	722	590	444	303	552	295
18	146	130	281	622	707	402	680	588	425	364	507	294
19	146	131	274	594	705	402	649	540	413	300	481	283
20	146	130	386	574	657	478	619	515	397	365	464	276
21	146	610	490	920	607	804	597	499	412	320	532	278
22	145	537	369	704	1,590	612	588	519	390	280	718	287
23	144	305	338	637	1,090	508	648	797	395	276	514	284
24	143	245	321	605	865	470	567	639	368	353	468	257
25	142	211	319	591	766	451	542	547	403	329	439	251
26	139	280	1,540	619	696	435	525	568	356	292	431	248
27	137	537	2,440	1,210	659	425	511	1,040	369	574	408	258
28	142	1,280	1,020	920	631	422	497	689	474	461	398	417
29	204	987	784	909	------	582	486	599	386	350	388	315
30	152	529	993	768	------	770	473	565	351	308	374	270
31	149	------	1,480	698	------	603	------	618	------	281	362	------
TOTAL	5,284	8,347	19,633	28,792	23,221	15,719	26,670	20,107	16,041	11,454	21,547	9,744
MEAN	170	278	633	929	829	507	889	649	535	369	695	325
MAX	307	1,280	2,440	2,980	1,590	804	3,070	1,610	1,310	574	2,440	455
MIN	137	130	274	574	607	402	473	452	351	276	262	248
CFSM	1.21	1.99	4.52	6.64	5.92	3.62	6.35	4.64	3.82	2.64	4.96	2.32
IN.	1.40	2.22	5.22	7.65	6.17	4.18	7.09	5.34	4.26	3.04	5.73	2.59

CAL YR 1973 TOTAL 198,369 MEAN 543 MAX 4,500 MIN 130 CFSM 3.88 IN 52.71
WTR YR 1974 TOTAL 206,559 MEAN 566 MAX 3,070 MIN 130 CFSM 4.04 IN 54.89

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-28	2345	4.85	1,720	2-22	1645	5.20	1,900
12- 5	1345	6.47	-	4- 4	1800	10.11	4,310
12- 5	1600	-	2,260	4-13	0630	4.51	1,560
12-26	2315	8.12	-	5-12	2115	5.27	1,940
12-27	0200	-	2,960	6- 7	0615	4.64	1,620
1- 1	0345	8.76	3,330	8- 4	1215	6.99	2,720
2- 2	2400	4.71	1,660				

03500240 Cartoogechaye Creek near Franklin, N. C.

LOCATION.--Lat 35°09'31", long 83°23'39", Macon County, on downstream side of center pier of bridge on Secondary Road 1152, 0.1 mi (0.2 km) downstream from unnamed creek, 1.8 mi (2.9 km) south of Franklin, and 1.9 mi (3.1 km) upstream from mouth.

DRAINAGE AREA.--57.1 mi^2 (147.9 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1947, 1953-55, 1960. June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,017.18 ft (614.836 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 147 ft^3/s (4.163 m^3/s), 34.96 in/yr (888 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,110 ft^3/s (59.8 m^3/s) Dec. 31 (gage height, 9.79 ft or 2.984 m); minimum daily, 50 ft^3/s (1.42 m^3/s) Oct. 25-27.

Period of record: Maximum discharge, 4,720 ft^3/s (134 m^3/s) Oct. 4, 1964 (gage height, 12.96 ft or 3.950 m); minimum, 33 ft^3/s (0.93 m^3/s) Sept. 14, 1962, Aug. 30, 31, 1968.

Flood in June 1949 reached a stage of 15.6 ft (4.755 m), from studies by Tennessee Valley Authority (discharge about 7,000 ft^3/s or about 198 m^3/s).

A discharge of 30.8 ft^3/s (0.87 m^3/s) was measured on Oct. 16, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	80	65	97	1,030	221	218	188	148	231	95	68	67
2	72	56	85	479	611	206	310	147	246	94	67	67
3	66	55	79	373	569	196	289	151	212	107	206	87
4	65	54	79	462	403	189	995	153	189	133	152	74
5	64	54	853	365	333	184	638	193	172	110	117	66
6	63	54	297	313	333	183	383	175	240	132	97	92
7	61	52	197	325	379	178	307	146	215	113	98	81
8	60	57	156	277	381	171	317	139	187	118	170	71
9	60	67	135	517	329	165	290	135	170	135	146	67
10	59	58	120	457	293	155	257	147	166	142	132	66
11	59	56	109	448	266	152	238	150	159	118	117	61
12	58	56	103	379	247	150	234	442	146	103	114	76
13	57	55	131	319	237	146	484	252	142	94	100	88
14	57	54	117	304	282	142	366	203	142	90	97	72
15	56	52	112	293	261	141	303	181	134	86	102	65
16	55	56	107	261	351	165	268	168	133	85	95	62
17	54	52	99	244	321	147	247	167	124	84	92	61
18	54	51	92	228	278	139	231	170	119	83	82	59
19	54	51	89	215	277	159	218	160	116	84	79	57
20	54	51	145	204	249	188	208	153	114	91	74	56
21	54	291	140	287	230	293	199	152	123	80	88	57
22	54	126	112	220	646	225	207	158	111	76	80	59
23	52	80	105	209	381	191	219	221	120	77	78	56
24	52	70	100	216	310	175	190	171	109	80	73	53
25	50	69	102	232	273	170	181	151	108	84	72	53
26	50	88	792	252	249	159	174	205	102	76	70	53
27	50	97	531	385	235	157	168	342	118	146	69	55
28	70	411	280	327	223	155	162	218	121	86	69	68
29	65	192	242	294	------	230	158	188	104	78	71	63
30	58	122	356	263	------	252	153	197	99	73	73	53
31	60	------	928	238	------	209	------	212	------	68	70	------
TOTAL	1,823	2,652	6,890	10,416	9,168	5,590	8,582	5,795	4,472	3,021	3,018	1,965
MEAN	58.8	88.4	222	336	327	180	286	187	149	97.5	97.4	65.5
MAX	80	411	928	1,030	646	293	995	442	246	146	206	92
MIN	50	51	79	204	221	139	153	135	99	68	67	53
CFSM	1.03	1.55	3.89	5.88	5.73	3.15	5.01	3.28	2.61	1.71	1.71	1.15
IN.	1.19	1.73	4.49	6.79	5.97	3.64	5.59	3.78	2.91	1.97	1.97	1.28

CAL YR 1973 TOTAL 68,950 MEAN 189 MAX 2,350 MIN 50 CFSM 3.31 IN 44.92
WTR YR 1974 TOTAL 63,392 MEAN 174 MAX 1,030 MIN 50 CFSM 3.05 IN 41.30

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 5	1130	9.02	1,770	2-22	0745	6.30	1,070
12-26	1945	8.41	1,590	4- 4	1430	8.55	1,620
12-31	2245	9.79	2,110				

03503000 Little Tennessee River at Needmore, N. C.

LOCATION.--Lat 35°20'11", long 83°31'39", Swain County, on left bank 0.8 mi (1.3 km) downstream from DeHart Creek, 0.8 mi (1.3 km) north of Needmore, 2.4 mi (3.9 km) downstream from Brush Creek, 6.3 mi (10.1 km) downstream from Tellico Creek, and at mile 92.9 (149.5 km).

DRAINAGE AREA.--436 mi^2 (1,129 km^2).

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,761.19 ft (536.811 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--31 years, 1,064 ft^3/s (30.13 m^3/s), 33.14 in/yr (842 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,600 ft^3/s (329 m^3/s) Apr. 4 (gage height, 8.47 ft or 2.582 m); minimum, 225 ft^3/s (6.37 m^3/s) Nov. 20 (gage height, 1.70 ft or 0.518 m); minimum daily, 370 ft^3/s (10.5 m^3/s) Nov. 20.

Period of record: Maximum discharge, 22,100 ft^3/s (626 m^3/s) Oct. 5, 1964 (gage height, 12.87 ft or 3.923 m in gage well, 13.06 ft or 3.981 m from outside gage); minimum, 52 ft^3/s (1.47 m^3/s) Nov. 7, 8, 1954 (gage height, 1.16 ft or 0.354 m); minimum daily, 71 ft^3/s (2.01 m^3/s) Nov. 7, 1954.

Floods of October 1898 and Aug. 30, 1940, reached stages of about 13 ft (4.0 m) and 11.5 ft (3.5 m), respectively, from flood profiles by Tennessee Valley Authority.

REMARKS.--Records good. Considerable diurnal fluctuation caused by Porters Bend powerplant at Lake Emory 20 mi (32 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	600	494	870	7,570	1,710	1,670	1,450	1,140	1,610	775	604	716
2	698	466	750	4,500	3,450	1,580	1,970	1,120	1,700	757	573	717
3	596	397	708	3,580	4,440	1,500	1,870	1,140	1,580	738	2,110	837
4	535	406	687	3,940	3,240	1,420	7,340	1,140	1,370	960	4,740	800
5	504	445	4,230	3,250	2,560	1,360	8,350	1,430	1,260	1,000	2,830	705
6	459	414	3,010	2,660	2,310	1,310	4,130	1,810	1,790	1,150	1,690	726
7	438	394	1,610	2,480	2,720	1,270	2,860	1,300	3,150	980	1,570	876
8	479	409	1,240	2,140	2,800	1,220	2,700	1,170	2,030	1,100	2,370	736
9	438	455	1,070	2,940	2,430	1,180	2,900	1,120	1,670	1,190	2,600	721
10	474	433	957	3,210	2,140	1,140	2,340	1,140	1,540	1,040	1,800	652
11	426	401	863	2,890	1,950	1,110	2,070	1,130	1,440	1,020	1,480	660
12	450	405	804	2,770	1,790	1,080	1,940	3,810	1,270	1,030	1,330	660
13	435	401	843	2,280	1,670	1,070	3,950	3,350	1,440	869	1,330	921
14	422	400	860	2,090	2,080	1,040	3,140	2,030	1,100	786	1,180	711
15	440	400	787	2,140	2,010	1,020	2,600	1,680	1,050	749	1,200	653
16	433	410	780	1,890	2,600	1,090	2,250	1,520	1,110	758	1,290	624
17	416	415	739	1,750	2,690	1,120	2,010	1,400	1,030	888	1,110	593
18	403	395	682	1,600	2,170	1,030	1,850	1,410	968	839	1,020	620
19	403	380	670	1,510	2,070	1,080	1,740	1,300	960	913	975	560
20	389	370	791	1,430	1,930	1,370	1,620	1,360	944	781	925	516
21	383	1,240	1,230	2,190	1,710	2,060	1,530	1,290	923	778	988	566
22	422	1,680	892	1,790	4,230	1,930	1,490	1,240	971	695	1,410	566
23	407	790	825	1,580	3,650	1,420	1,720	1,930	922	659	1,010	562
24	413	667	789	1,540	2,640	1,250	1,470	1,680	916	730	927	535
25	398	561	758	1,620	2,260	1,190	1,380	1,350	903	741	846	527
26	402	561	3,890	1,680	1,990	1,150	1,320	1,290	849	736	827	525
27	373	1,050	6,600	2,950	1,850	1,110	1,280	2,800	815	881	817	524
28	406	2,830	2,900	2,570	1,740	1,190	1,240	1,860	1,010	1,060	798	766
29	550	2,440	2,050	2,560	------	1,480	1,190	1,520	881	782	763	688
30	477	1,120	2,390	2,130	------	2,400	1,160	1,470	808	689	791	571
31	444	------	4,240	1,870	------	1,850	------	1,580	------	644	743	------
TOTAL	14,113	21,229	49,515	79,100	68,830	41,690	72,860	49,510	38,010	26,718	42,647	19,834
MEAN	455	708	1,597	2,552	2,458	1,345	2,429	1,597	1,267	862	1,376	661
MAX	698	2,830	6,600	7,570	4,440	2,400	8,350	3,810	3,150	1,190	4,740	921
MIN	373	370	670	1,430	1,670	1,020	1,160	1,120	808	644	573	516
CFSM	1.04	1.62	3.66	5.85	5.64	3.08	5.57	3.66	2.91	1.98	3.16	1.52
IN.	1.20	1.81	4.22	6.75	5.87	3.56	6.22	4.22	3.24	2.28	3.64	1.69

CAL YR 1973 TOTAL 527,591 MEAN 1,445 MAX 11,900 MIN 370 CFSM 3.31 IN 45.01
WTR YR 1974 TOTAL 524,056 MEAN 1,436 MAX 8,350 MIN 370 CFSM 3.29 IN 44.71

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 5	1845	6.01	5,770	4- 4	2345	8.47	11,600
12-27	0245	7.28	8,670	5-12	1745	5.85	5,440
1- 1	0615	7.28	8,670	8- 4	0015	5.77	5,280
2-22	1500	5.96	5,670				

03504000 Nantahala River near Rainbow Springs, N. C.

LOCATION.--Lat 35°07'35", long 83°37'11", Macon County, on right bank on Nantahala Forest Service Road 437, 300 ft (91 m) upstream from Roaring Fork, 0.2 mi (0.3 km) downstream from Buck Creek, 5 mi (8 km) downstream from town of Rainbow Springs, and at mile 34.3 (55.2 km).

DRAINAGE AREA.--51.9 mi^2 (134.4 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 3,072.97 ft (936.641 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 203 ft^3/s (5.749 m^3/s), 53.12 in/yr (1,349 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,760 ft^3/s (78.2 m^3/s) Dec. 5 (gage height, 5.66 ft or 1.725 m); minimum, 56 ft^3/s (1.59 m^3/s) Nov. 20 (gage height, 0.78 ft or 0.238 m).

Period of record: Maximum discharge, 6,300 ft^3/s (178 m^3/s) June 16, 1949 (gage height, 9.70 ft or 2.957 m), from rating curve extended above 3,000 ft^3/s (85.0 m^3/s) on basis of slope-area measurement of peak flow; minimum, 33 ft^3/s (0.93 m^3/s) Nov. 18, 19, 1953 (gage height, 0.60 ft or 0.183 m).

REMARKS.--Records good. Occasional slight diurnal fluctuation at low flow caused by small ponds on tributaries above station.

REVISIONS (WATER YEARS).--WSP 973: 1941(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	113	97	205	1,100	367	327	234	218	462	134	95	101
2	95	69	182	777	773	305	374	215	587	130	95	99
3	90	66	167	683	828	289	371	209	459	141	550	155
4	85	64	166	874	636	273	1,180	222	398	178	280	111
5	83	65	1,160	685	545	263	831	379	361	157	210	100
6	80	64	467	596	594	253	599	324	433	148	170	140
7	78	62	355	668	623	241	495	254	371	148	180	116
8	77	79	295	541	595	231	531	233	356	164	330	105
9	76	92	259	885	527	222	467	221	325	162	280	100
10	76	67	232	786	476	214	410	240	305	183	250	96
11	75	64	210	799	438	207	378	222	285	162	220	92
12	74	62	196	672	404	206	376	683	266	136	210	106
13	73	61	215	582	382	197	774	392	249	126	190	112
14	73	61	187	569	428	188	536	334	237	119	190	92
15	70	61	184	556	404	182	500	302	230	114	179	89
16	70	68	173	498	478	240	439	278	226	129	180	86
17	68	58	162	452	423	194	405	256	207	117	163	84
18	68	58	158	413	387	181	378	257	197	128	150	82
19	68	58	150	391	387	232	356	256	189	113	141	78
20	68	57	225	374	357	285	335	235	182	119	137	77
21	68	429	199	464	333	473	315	222	177	106	173	86
22	67	173	175	370	675	307	346	232	170	101	157	83
23	65	122	164	357	504	256	339	425	208	105	139	76
24	64	105	158	364	444	229	296	271	166	119	129	74
25	64	121	166	377	403	221	279	251	167	135	121	73
26	63	150	1,040	404	373	200	266	356	154	106	116	72
27	62	200	661	584	349	198	254	453	186	169	113	74
28	102	1,000	471	513	335	194	242	332	169	120	114	102
29	87	400	486	473	------	290	233	300	147	110	117	84
30	69	253	580	424	------	316	224	407	139	100	111	71
31	81	------	1,210	391	------	256	------	439	------	98	104	------
TOTAL	2,352	4,286	10,658	17,622	13,468	7,670	12,763	9,418	8,008	4,077	5,594	2,816
MEAN	75.9	143	344	568	481	247	425	304	267	132	180	93.9
MAX	113	1,000	1,210	1,100	828	473	1,180	683	587	183	550	155
MIN	62	57	150	357	333	181	224	209	139	98	95	71
CFSM	1.46	2.76	6.63	10.9	9.27	4.76	8.19	5.86	5.14	2.54	3.47	1.81
IN.	1.69	3.07	7.64	12.63	9.65	5.50	9.15	6.75	5.74	2.92	4.01	2.02

CAL YR 1973 TOTAL 93,627 MEAN 257 MAX 2,420 MIN 57 CFSM 4.95 IN 67.11
WTR YR 1974 TOTAL 98,732 MEAN 270 MAX 1,210 MIN 57 CFSM 5.20 IN 70.77

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-28	Unknown	4.28	1,750	12-31	1600	5.09	2,310
12- 5	0400	5.66	2,760	4- 4	1230	4.95	2,220
12-26	1545	5.06	2,290				

03505500 Nantahala River at Nantahala, N. C.

LOCATION.--Lat 35°17'55", long 83°39'22", Swain County, on left bank on U. S. Highway 19, 1.0 mi (1.6 km) northeast of Nantahala, 2.3 mi (3.7 km) downstream from Rowlin Creek, 2.8 mi (4.5 km) downstream from Nantahala Dam powerhouse, and at mile 10.8 (17.4 km).

DRAINAGE AREA.--144 mi^2 (373 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,894.68 ft (577.498 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--32 years, 496 ft^3/s (14.05 m^3/s), 46.78 in/yr (1,188 mm/yr) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 2,900 ft^3/s (82.1 m^3/s) Dec. 31 (gage height, 5.39 ft or 1.643 m); minimum, 20 ft^3/s (0.57 m^3/s) Oct. 27, 28 (gage height, 1.37 ft or 0.418 m); minimum daily, 21 ft^3/s (0.59 m^3/s) Oct. 23-27.
Period of record: Maximum discharge, 7,510 ft^3/s (213 m^3/s) Feb. 10, 1946 (gage height, 8.15 ft or 2.484 m); minimum, 16 ft^3/s (0.45 m^3/s) Nov. 9, 1953, Dec. 16, 1958; minimum gage height, 1.19 ft (0.363 m) Nov. 9, 1953; minimum daily discharge, 17 ft^3/s (0.48 m^3/s) Nov. 8, 16, 1952, Oct. 25, 1953.

REMARKS.--Records good. Flow regulated by Nantahala Lake 12 mi (19 km) upstream (see p. 172) and Queens Creek Lake (capacity, about 300 ft^3/s-day or about 734,000 m^3).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	414	36	201	1,570	849	806	555	778	656	475	457	432
2	383	43	95	1,200	1,960	799	771	785	662	488	522	446
3	362	24	300	1,350	2,160	792	771	778	620	511	524	108
4	393	24	306	1,510	1,400	785	1,330	694	813	558	286	63
5	376	287	913	1,210	1,240	785	1,120	560	785	500	352	55
6	355	244	779	1,070	1,400	778	908	608	785	488	429	61
7	36	195	665	1,020	1,590	764	844	674	792	430	436	52
8	369	40	558	915	1,420	750	940	729	792	506	474	49
9	381	294	242	1,430	1,080	750	972	736	771	566	497	66
10	427	452	549	1,520	956	743	916	743	687	536	468	95
11	397	384	631	1,280	1,050	743	868	560	680	531	421	360
12	393	355	153	1,290	884	743	852	620	668	508	462	533
13	215	442	226	1,170	860	736	1,340	572	668	499	378	480
14	24	180	433	1,300	1,200	743	1,350	750	668	290	434	403
15	226	34	479	1,260	1,040	736	1,220	750	650	425	500	91
16	170	42	457	1,060	1,320	764	972	736	505	465	518	444
17	38	413	559	906	1,100	736	1,020	590	505	459	455	469
18	271	28	522	1,010	876	736	932	722	500	486	474	450
19	164	33	498	870	1,040	778	892	729	505	442	475	461
20	22	259	494	850	948	813	868	736	505	443	461	449
21	22	290	701	979	828	916	860	736	668	358	533	496
22	67	194	516	837	1,690	852	860	729	549	450	484	403
23	21	231	98	833	1,270	806	860	799	97	374	493	484
24	21	79	69	833	1,060	785	813	743	485	369	436	485
25	21	41	67	830	916	792	806	729	475	405	428	696
26	21	320	539	855	868	743	792	560	516	406	479	492
27	21	355	670	1,580	828	743	792	590	511	413	480	448
28	55	796	583	1,160	813	522	785	602	495	390	476	376
29	42	787	450	1,230	------	644	778	757	495	476	456	44
30	27	286	522	907	------	674	778	638	95	453	437	359
31	29	------	1,490	879	------	722	------	701	------	442	444	------
TOTAL	5,763	7,188	14,765	34,714	32,646	23,479	27,565	21,434	17,603	14,142	14,169	9,850
MEAN	186	240	476	1,120	1,166	757	919	691	587	456	457	328
MAX	427	796	1,490	1,580	2,160	916	1,350	799	813	566	533	696
MIN	21	24	67	830	813	522	555	560	95	290	286	44
(†)	-486.8	+1,495.6	+8,549.4	+6,227.5	-86.8	-4,163.5	+2,661.0	-992.0	-592.3	-4,212.1	-3,095.6	-2,903.3
MEAN‡	170	289	752	1,321	1,163	623	1,008	659	567	320	357	232
CFSM‡	1.18	2.01	5.22	9.17	8.08	4.33	7.00	4.58	3.94	2.22	2.48	1.61
IN.‡	1.36	2.24	6.02	10.57	8.41	4.99	7.81	5.28	4.39	2.56	2.86	1.79

CAL YR 1973 TOTAL 221,344 MEAN 606 MAX 3,280 MIN 21 MEAN‡ 600 CFSM‡ 4.17 IN.‡ 56.58
WTR YR 1974 TOTAL 223,318 MEAN 612 MAX 2,160 MIN 21 MEAN‡ 618 CFSM‡ 4.29 IN.‡ 58.30

† Change in contents, in cfs-days, in Nantahala and Queens Creek Lakes; furnished by Tennessee Valley Authority and Nantahala Power and Light Co.
‡ Adjusted for change in contents in Nantahala and Queens Creek Lakes.

03508000 Tuckasegee River at Tuckasegee, N. C.

LOCATION.--Lat 35°16'55", long 83°07'37", Jackson County, on right bank 0.9 mi (1.4 km) north of Tuckasegee, 1.1 mi (1.8 km) downstream from bridge on State Highway 107 and West Fork Tuckasegee River, 10.8 mi (17.4 km) downstream from Thorpe Dam, and at mile 48.5 (78.0 km).

DRAINAGE AREA.--143 mi^2 (370 km^2).

PERIOD OF RECORD.--June 1934 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,125.16 ft (647.749 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--40 years, 400 ft^3/s (11.33 m^3/s), 37.99 in/yr (965 mm/yr) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,320 ft^3/s (94.0 m^3/s) Jan. 1 (gage height, 5.95 ft or 1.814 m); minimum, 9.2 ft^3/s (0.26 m^3/s) Oct. 16, 17 (gage height, 0.68 ft or 0.207 m); minimum daily, 16 ft^3/s (0.45 m^3/s) Oct. 16.

Period of record: Maximum discharge, 40,800 ft^3/s (1,160 m^3/s) Aug. 30, 1940 (gage height, 21.1 ft or 6.431 m, from floodmarks), from rating curve extended above 13,500 ft^3/s (382 m^3/s) on basis of slope-area measurements at gage heights 14.3 ft (4.36 m) and 21.1 ft (6.43 m); minimum, 5.2 ft^3/s (0.15 m^3/s) Sept. 3, 1956 (gage height, 0.54 ft or 0.165 m); minimum daily, 6.4 ft^3/s (0.18 m^3/s) Oct. 7, 1956.

Maximum stage observed since at least 1840, that of Aug. 30, 1940, from studies by Tennessee Valley Authority.

REMARKS.--Records good. Flow regulated by Thorpe Reservoir, Cedar Cliff Lake, Bear Creek Lake, and Tennessee Creek project lakes (see pp. 172,174).

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 1053: 1943.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	306	204	97	1,490	568	887	701	520	350	293	311	67
2	342	131	242	1,020	892	881	799	600	479	520	532	183
3	207	66	451	952	907	790	648	700	548	682	900	697
4	278	67	677	1,020	840	612	1,510	640	632	246	866	419
5	286	214	942	923	803	562	1,270	800	356	521	598	299
6	159	269	840	873	874	827	1,110	660	736	289	591	533
7	386	208	547	748	888	658	1,060	540	1,000	664	764	398
8	669	141	517	862	892	591	899	350	1,030	489	823	506
9	211	104	544	914	891	599	781	480	969	669	798	300
10	173	197	540	888	871	591	758	600	932	558	697	298
11	166	167	560	910	862	664	742	540	747	484	468	299
12	171	177	318	905	700	561	737	900	801	544	529	316
13	114	290	393	799	622	611	851	720	660	259	575	289
14	27	142	455	559	630	652	787	700	651	168	509	188
15	17	133	461	765	768	611	745	600	581	440	572	67
16	16	49	262	749	900	588	674	700	576	444	549	270
17	37	180	528	617	805	536	727	720	722	412	536	308
18	91	119	383	594	713	492	664	817	394	526	574	285
19	126	133	394	321	704	528	500	646	517	485	485	284
20	64	130	552	569	849	561	682	638	625	199	516	427
21	71	431	863	774	722	757	700	526	551	184	646	255
22	248	80	384	762	1,210	554	720	633	242	324	555	167
23	129	31	397	694	1,020	486	880	612	85	351	531	291
24	127	32	422	721	940	200	820	682	475	306	539	295
25	274	254	379	696	930	563	800	604	270	295	211	388
26	126	442	995	590	874	369	680	594	451	500	510	318
27	65	290	1,140	185	905	505	640	865	540	199	343	299
28	65	634	939	557	903	254	580	669	696	171	384	192
29	223	879	778	757	------	455	400	410	224	314	310	110
30	289	454	769	763	------	661	560	579	83	285	472	274
31	266	------	1,180	608	------	207	------	726	------	290	190	------
TOTAL	5,729	6,648	17,949	23,585	23,483	17,813	23,425	19,771	16,923	12,111	16,884	9,022
MEAN	185	222	579	761	839	575	781	638	564	391	545	301
MAX	669	879	1,180	1,490	1,210	887	1,510	900	1,030	682	900	697
MIN	16	31	97	185	568	200	400	350	83	168	190	67
(†)	-1,874	+1,459	+4,532	1,821	+1,513	-1,870	+3,548	+216	-287	-1,506	-535	-2,820
MEAN‡	124	270	725	820	893	514	899	645	555	342	527	207
CFSM‡	0.87	1.89	5.07	5.73	6.24	3.59	6.29	4.51	3.88	2.39	3.69	1.45
IN.‡	1.00	2.11	5.85	6.61	6.50	4.15	7.01	5.20	4.33	2.76	4.25	1.61

CAL YR 1973 TOTAL 193,396 MEAN 530 MAX 4,690 MIN 16 MEAN‡ 531 CFSM‡ 3.71 IN.‡ 50.38
WTR YR 1974 TOTAL 193,343 MEAN 530 MAX 1,510 MIN 16 MEAN‡ 541 CFSM‡ 3.78 IN.‡ 51.37

† Change in contents, in cfs-days, in Thorpe Reservoir, Cedar Cliff, Bear Creek, and Tennessee Creek project lakes; furnished by Tennessee Valley Authority and Nantahala Power and Light Co.

‡ Adjusted for change in contents in Thorpe Reservoir, Cedar Cliff, Bear Creek, and Tennessee Creek project lakes.

03509000 Scott Creek above Sylva, N. C.

LOCATION.--Lat 35°23'02", long 83°12'51", Jackson County, on right bank 100 ft (30.5 m) downstream from bridge on Secondary Road 1431, 800 ft (244 m) downstream from Allens Branch, 0.7 mi (1.1 km) upstream from Cope Creek, 0.8 mi (1.3 km) upstream from Sylva, and 3.3 mi (5.3 km) upstream from mouth.

DRAINAGE AREA.--50.7 mi^2 (131.3 km^2).

PERIOD OF RECORD.--June 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,056.42 ft (626.797 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--33 years, 114 ft^3/s (3.228 m^3/s), 30.53 in/yr (775 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,580 ft^3/s (44.7 m^3/s) Apr. 4 (gage height, 6.90 ft or 2.103 m); minimum, 44 ft^3/s (1.25 m^3/s) part of each day Oct. 17-24, 27, 28 (gage height, 2.85 ft or 0.869 m).
Period of record: Maximum discharge, 2,800 ft^3/s (79.3 m^3/s) May 28, 1973 (gage height, 8.78 ft or 2.676 m); minimum, 8.0 ft^3/s (0.23 m^3/s) Sept. 22, 23, 1941 (gage height, 1.30 ft or 0.396 m); minimum daily, 22 ft^3/s (0.62 m^3/s) Sept. 19, 29, 30, Oct. 4, 1954.
Flood of Aug. 30, 1940, reached a stage of 8.6 ft (2.621 m), from floodmarks (discharge, about 3,200 ft^3/s or about 90.6 m^3/s) from rating curve extended above 1,800 ft^3/s (51.0 m^3/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1053: 1942-44(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	65	69	484	176	198	157	135	190	98	96	90
2	62	50	63	374	440	184	224	137	186	96	94	95
3	53	48	60	426	444	176	233	137	167	143	297	142
4	50	48	63	511	330	169	828	131	159	147	233	103
5	49	50	474	370	282	167	418	503	151	143	188	94
6	49	48	240	306	290	178	316	294	179	119	142	102
7	49	48	180	284	318	161	272	220	158	122	131	95
8	50	51	140	226	318	155	311	194	149	137	228	91
9	52	55	110	393	269	150	273	186	143	172	189	88
10	54	49	90	309	246	146	244	187	144	153	163	85
11	48	48	82	318	230	142	228	212	134	156	146	83
12	48	48	74	261	215	143	224	438	128	125	140	139
13	47	48	71	232	204	137	346	267	127	111	131	98
14	48	48	85	226	292	132	255	231	124	104	133	88
15	47	49	76	214	225	130	238	212	130	101	125	84
16	46	62	71	195	303	174	223	197	148	136	118	80
17	45	49	71	184	250	144	211	227	123	104	114	79
18	44	48	66	174	231	137	200	197	118	149	128	78
19	45	48	66	165	237	175	192	194	115	130	113	75
20	45	47	64	160	219	191	184	224	113	111	123	72
21	44	143	103	224	202	324	177	217	123	103	135	81
22	44	68	99	168	395	224	181	213	114	97	115	75
23	45	54	77	161	270	193	185	337	117	98	105	71
24	45	50	76	168	248	175	166	236	110	102	102	68
25	45	53	77	177	228	173	159	209	107	174	99	68
26	45	87	488	201	212	159	153	250	105	182	96	67
27	45	76	323	252	205	153	148	260	131	142	96	83
28	58	311	209	248	198	149	144	209	126	122	104	96
29	56	103	183	224	------	206	141	194	109	112	100	77
30	49	78	236	202	------	200	137	188	102	106	101	67
31	57	------	646	186	------	167	------	194	------	100	92	------
TOTAL	1,523	2,030	4,732	8,023	7,477	5,312	7,168	7,030	4,030	3,895	4,177	2,614
MEAN	49.1	67.7	153	259	267	171	239	227	134	126	135	87.1
MAX	62	311	646	511	444	324	828	503	190	182	297	142
MIN	44	47	60	160	176	130	137	131	102	96	92	67
CFSM	.97	1.34	3.02	5.11	5.27	3.37	4.71	4.48	2.64	2.49	2.66	1.72
IN.	1.12	1.49	3.47	5.89	5.49	3.90	5.26	5.16	2.96	2.86	3.06	1.92

CAL YR 1973 TOTAL 52,578 MEAN 144 MAX 1,190 MIN 44 CFSM 2.84 IN 38.58
WTR YR 1974 TOTAL 58,011 MEAN 159 MAX 828 MIN 44 CFSM 3.14 IN 42.56

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 5	0300	6.64	1,420	4- 4	1230	6.90	1,580
12-26	1630	6.16	1,160	7-25	1945	6.87	1,560
12-31	1600	6.73	1,480				

03510500 Tuckasegee River at Dillsboro, N. C.

LOCATION.--Lat 35°21'59", long 83°15'38", Jackson County, on left bank on Secondary Road 1377, 0.4 mi (0.6 km) downstream from Scott Creek, 0.5 mi (0.8 km) downstream from bridge on U. S. Highway 23 at Dillsboro, and at mile 31.1 (50.0 km).

DRAINAGE AREA.--347 mi^2 (899 km^2).

PERIOD OF RECORD.--June 1928 to current year (prior to October 1933 monthly discharge only, published in WSP 1306; figures of daily discharge published in WSP 663, 683, 698, 713, 728, 743, are unreliable).

GAGE.--Water-stage recorder. Datum of gage is 1,950.15 ft (594.406 m) above mean sea level (levels by Tennessee Valley Authority). Prior to May 24, 1934, nonrecording gage at site below Scott Creek 0.4 mi (0.6 km) upstream at datum 7.27 ft (2.216 m) higher.

AVERAGE DISCHARGE.--46 years, 783 ft^3/s (22.17 m^3/s), 30.64 in/yr (778 mm/yr) unadjusted.

EXTREMES.--Current year: Maximum discharge, 7,360 ft^3/s (208 m^3/s) Apr. 4 (gage height, 8.87 ft or 2.704 m); minimum, 142 ft^3/s (4.02 m^3/s) Oct. 25 (gage height, 2.17 ft or 0.661 m); minimum daily, 180 ft^3/s (5.10 m^3/s) Oct. 17.

Period of record: Maximum discharge, 52,600 ft^3/s (1,490 m^3/s) Aug. 30, 1940 (gage height, 21.96 ft or 6.693 m, from floodmarks), from rating curve extended above 8,400 ft^3/s (238 m^3/s) on basis of slope-area measurement and computation of peak flow over dam; minimum, 35 ft^3/s (0.99 m^3/s) Sept. 17, 1953 (gage height, 1.60 ft or 0.488 m); minimum daily, 107 ft^3/s (3.03 m^3/s) Sept. 19, 1954.

Flood in May 1840 was approximately equal to that of Aug. 30, 1940, from studies by Tennessee Valley Authority.

REMARKS.--Records good. Considerable diurnal fluctuation caused by Dillsboro powerplant 0.7 mi (1.1 km) above station. Flow partly regulated by Thorpe Reservoir 28 mi (45 km) upstream (see p. 172), and by Cedar Cliff Lake, Bear Creek Lake, and Tennessee Creek project lakes (see p. 174).

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 923: 1940(M). WSP 1306: 1929-33. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	423	469	352	3,250	1,050	1,570	1,260	1,010	1,010	548	575	423
2	587	296	400	2,180	2,380	1,520	1,600	1,100	1,210	720	684	373
3	397	224	540	2,130	2,580	1,490	1,420	1,300	1,060	1,120	1,760	969
4	455	228	893	2,360	2,070	1,200	4,550	1,220	1,230	857	1,670	861
5	449	349	2,220	2,000	1,800	1,060	3,240	1,490	968	865	1,270	580
6	331	421	1,420	1,810	1,820	1,460	2,420	1,230	1,270	835	990	737
7	459	353	959	1,570	1,940	1,190	2,120	1,040	1,720	1,050	1,170	743
8	789	315	798	1,570	1,940	1,120	2,120	923	1,630	999	1,550	873
9	540	245	885	2,120	1,800	1,110	1,910	939	1,550	1,190	1,470	569
10	362	335	756	1,950	1,690	1,100	1,730	1,120	1,510	1,090	1,220	548
11	334	311	823	2,020	1,630	1,150	1,640	1,050	1,310	998	1,060	549
12	336	320	656	1,850	1,420	1,060	1,610	2,120	1,290	904	882	621
13	311	441	589	1,720	1,330	1,080	2,210	1,670	1,150	751	1,010	574
14	266	323	716	1,290	1,580	1,110	1,850	1,660	1,110	503	942	440
15	192	278	701	1,510	1,570	1,060	1,730	1,310	1,050	674	991	397
16	188	242	618	1,420	1,920	1,140	1,560	1,350	1,100	878	935	415
17	180	268	669	1,240	1,710	1,090	1,510	1,340	1,150	817	913	498
18	281	295	688	1,190	1,540	993	1,570	1,530	936	894	940	564
19	286	293	615	968	1,530	963	1,250	1,260	798	859	888	504
20	214	274	752	988	1,610	1,240	1,300	1,330	1,110	672	857	590
21	219	757	1,270	1,550	1,410	1,710	1,370	1,210	927	504	1,110	527
22	339	529	801	1,350	2,580	1,340	1,360	1,250	722	629	1,060	417
23	331	241	590	1,250	2,070	1,120	1,650	1,590	575	657	853	505
24	284	219	694	1,280	1,840	922	1,540	1,410	678	625	875	494
25	349	389	651	1,320	1,750	978	1,500	1,300	727	712	649	606
26	323	531	2,130	1,280	1,620	1,060	1,250	1,280	751	786	692	529
27	205	722	2,200	1,110	1,630	902	1,230	1,900	948	710	764	539
28	238	1,350	1,620	1,210	1,590	931	1,060	1,510	1,150	499	691	516
29	345	1,300	1,360	1,530	------	1,030	948	1,100	742	605	643	364
30	432	953	1,390	1,460	------	1,510	1,070	1,120	501	581	687	468
31	464	------	2,750	1,350	------	871	------	1,410	------	564	560	------
TOTAL	10,909	13,271	31,556	49,826	49,400	36,080	51,578	41,072	31,883	24,096	30,361	16,793
MEAN	352	442	1,018	1,607	1,764	1,164	1,719	1,325	1,063	777	979	560
MAX	789	1,350	2,750	3,250	2,580	1,710	4,550	2,120	1,720	1,190	1,760	969
MIN	180	219	352	968	1,050	871	948	923	501	499	560	364

CAL YR 1973 TOTAL 381,195 MEAN 1,044 MAX 11,100 MIN 180
WTR YR 1974 TOTAL 386,825 MEAN 1,060 MAX 4,550 MIN 180

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-31	1930	7.36	4,870	4-4	1500	8.87	7,360

03512000 Oconaluftee River at Birdtown, N. C.

LOCATION.--Lat 35°27'42", long 83°21'13", Swain County, in Cherokee Indian Reservation, on left bank 200 ft (61 m) upstream from bridge on Secondary Road 1359, 0.5 mi (0.8 km) south of Birdtown, 0.6 mi (1.0 km) downstream from Adams Creek, 0.6 mi (1.0 km) upstream from Goose Creek, 2.2 mi (3.5 km) southwest of Cherokee, and at mile 3.1 (5.0 km).

DRAINAGE AREA.--184 mi^2 (477 km^2).

PERIOD OF RECORD.--July 1945 to September 1946, July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,843.30 ft (561.838 m) above mean sea level. Prior to Oct. 1, 1946, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 517 ft^3/s (14.64 m^3/s), 38.16 in/yr (969 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,160 ft^3/s (231 m^3/s) Dec. 31 (gage height, 7.89 ft or 2.405 m); minimum, 140 ft^3/s (3.96 m^3/s) Oct. 27, 28 (gage height, 1.00 ft or 0.305 m).
Period of record: Maximum discharge, 15,900 ft^3/s (450 m^3/s) Dec. 30, 1969 (gage height, 12.46 ft or 3.798 m, from floodmarks); minimum, 80 ft^3/s (2.27 m^3/s) Oct. 19, 1954 (gage height, 0.66 ft or 0.201 m).
Floods of Nov. 19, 1906 and Mar. 27, 1913 reached stages of 18 ft (5.5 m) and 14.5 ft (4.42 m), respectively (discharge not determined), from studies by Tennessee Valley Authority.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	235	362	502	3,500	712	686	687	513	812	319	248	267
2	240	244	427	2,180	1,680	642	787	524	899	311	252	265
3	212	211	378	2,360	2,120	610	698	645	774	320	528	316
4	196	198	354	2,830	1,540	578	2,740	644	690	340	546	348
5	189	215	2,130	2,100	1,210	566	2,030	1,530	625	462	408	279
6	183	231	972	1,590	1,150	692	1,420	1,390	620	387	337	289
7	180	199	704	1,420	1,270	598	1,130	961	630	351	356	293
8	178	195	574	1,110	1,360	556	1,330	825	557	410	580	266
9	181	205	497	2,420	1,170	532	1,510	769	526	919	615	255
10	175	187	437	2,090	1,020	513	1,170	720	526	678	457	244
11	167	181	390	3,000	922	496	1,030	661	493	492	401	258
12	166	178	368	2,160	833	491	1,010	1,750	461	439	558	315
13	164	176	473	1,580	773	472	3,450	1,160	446	383	769	504
14	165	169	448	1,340	933	451	1,940	913	428	354	468	442
15	165	164	387	1,180	796	439	1,540	813	422	331	476	333
16	158	239	368	1,010	1,070	596	1,250	743	479	365	406	292
17	153	176	344	894	983	513	1,090	688	426	343	446	273
18	148	165	320	807	881	467	961	665	396	315	393	258
19	149	164	321	741	876	595	870	630	381	337	428	236
20	146	161	501	691	818	898	801	612	379	361	368	225
21	146	558	648	755	741	1,990	745	606	405	308	373	241
22	146	438	454	651	1,780	1,300	720	593	387	284	358	253
23	146	285	430	618	1,180	969	776	1,090	436	296	324	220
24	146	248	407	632	1,000	831	671	759	395	309	308	208
25	143	289	393	694	887	772	622	654	426	282	293	204
26	143	527	3,550	742	799	705	591	687	371	413	280	200
27	143	902	1,860	1,470	746	649	569	876	375	367	278	199
28	289	2,920	1,050	1,080	699	631	546	678	376	322	275	323
29	317	1,010	860	985	------	768	530	625	344	287	319	239
30	201	638	927	858	------	870	515	731	328	275	327	209
31	218	------	4,140	778	------	754	------	866	------	256	288	------
TOTAL	5,588	11,835	25,614	44,266	29,949	21,630	33,729	25,321	14,813	11,616	12,463	8,254
MEAN	180	395	826	1,428	1,070	698	1,124	817	494	375	402	275
MAX	317	2,920	4,140	3,500	2,120	1,990	3,450	1,750	899	919	769	504
MIN	143	161	320	618	699	439	515	513	328	256	248	199
CFSM	.98	2.15	4.49	7.76	5.82	3.79	6.11	4.44	2.68	2.04	2.18	1.49
IN.	1.13	2.39	5.18	8.95	6.05	4.37	6.82	5.12	2.99	2.35	2.52	1.67

CAL YR 1973 TOTAL 219,697 MEAN 602 MAX 7,520 MIN 143 CFSM 3.27 IN 44.42
WTR YR 1974 TOTAL 245,078 MEAN 671 MAX 4,140 MIN 143 CFSM 3.65 IN 49.55

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-28	0745	7.04	6,800	3-21	1145	5.31	4,270
12-26	1530	7.84	8,080	4- 4	1345	5.40	4,400
12-31	1530	7.89	8,160	4-13	0515	6.43	5,880
1-11	1215	5.90	5,100				

03513000 Tuckasegee River at Bryson City, N. C.

LOCATION.--Lat 35°25'40", long 83°26'50", Swain County, on left bank 400 ft (122 m) downstream from bridge on Secondary Road 1364, Everett Street, in Bryson City, 0.6 mi (1.0 km) downstream from Deep Creek, and at mile 12.6 (20.3 km).

DRAINAGE AREA.--655 mi^2 (1,696 km^2).

PERIOD OF RECORD.--October 1897 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,714.54 ft (522.592 m) above mean sea level (levels by Tennessee Valley Authority). Nov. 7, 1897, to Feb. 2, 1914, and May 18, 1920, to June 27, 1927, nonrecording gage at bridge 400 ft (122 m) upstream at datum 2.00 ft (0.610 m) higher. Feb. 3, 1914, to May 17, 1920, water-stage recorder at site 200 ft (61 m) upstream at datum 2.00 ft (0.610 m) higher. June 28, 1927, to Sept. 30, 1960, water-stage recorder at present site at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--77 years, 1,582 ft^3/s (44.80 m^3/s), 32.80 in/yr (833 mm/yr) unadjusted.

EXTREMES.--Current year: Maximum discharge, 17,500 ft^3/s (496 m^3/s) Dec. 31 (gage height, 9.77 ft or 2.978 m); minimum, 324 ft^3/s (9.18 m^3/s) Oct. 17 (gage height, 1.39 ft or 0.424 m); minimum daily, 412 ft^3/s (11.7 m^3/s) Oct. 17.

Period of record: Maximum discharge, 61,600 ft^3/s (1,740 m^3/s) Aug. 30, 1940 (gage height, 15.96 ft or 4.865 m, datum then in use), from rating curve extended above 28,000 ft^3/s (793 m^3/s) on basis of slope-area measurement of peak flow; minimum, 27 ft^3/s (0.76 m^3/s) Sept. 10, 1925, minimum gage height, 0.47 ft (0.143 m) Oct. 26, 1952, datum then in use; minimum daily discharge, 31 ft^3/s (0.88 m^3/s) Sept. 9, 10, 1925, caused by filling reservoir on Oconaluftee River; minimum daily during normal regulation, 186 ft^3/s (5.27 m^3/s) Oct. 13, 1925.

Floods of May 1840, Mar. 6, 1867, and June 1876 reached stages of 22 ft (6.7 m), 19 ft (5.8 m), and 19 ft (5.8 m), respectively, present site and datum (discharge not determined), from studies by Tennessee Valley Authority. The flood in May 1840 exceeded all other observed floods at this location.

REMARKS.--Records good. Considerable diurnal fluctuation caused by powerplants above station. Flow regulated by Thorpe Reservoir, Cedar Cliff Lake, Bear Creek Lake, Tennessee Creek project lakes (see pp. 172,174), and two small reservoirs with combined capacity of 250 ft^3/s-day (612,000 m^3).

REVISIONS (WATER YEARS).--WSP 523: 1916, 1918-20. WSP 823: Drainage area. WSP 1306: 1898-1913. WSP 1336: 1907, 1915(M), 1916-20, 1921-29(M), 1933-34(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	713	1,010	1,220	8,430	2,290	2,790	2,280	1,870	2,480	984	982	859
2	952	701	1,020	5,710	4,920	2,660	2,890	1,990	2,670	1,190	1,020	712
3	815	602	1,140	5,960	6,120	2,580	2,430	2,340	2,350	1,640	2,220	1,290
4	709	504	1,470	6,770	4,710	2,260	8,210	2,240	2,410	1,560	2,710	1,470
5	756	537	4,790	5,350	3,900	2,160	6,670	3,580	2,130	1,560	2,030	1,080
6	689	751	2,890	4,370	3,760	2,560	4,850	3,420	2,160	1,570	1,460	1,080
7	616	660	2,070	3,860	4,130	2,260	4,070	2,520	2,850	1,560	1,690	1,330
8	1,040	619	1,720	3,380	4,250	2,120	4,300	2,200	2,580	1,650	2,320	1,290
9	1,010	632	1,730	5,700	3,800	2,080	4,300	2,130	2,440	2,350	2,410	1,010
10	619	550	1,420	5,320	3,460	2,040	3,650	2,180	2,400	2,090	1,920	938
11	606	570	1,490	6,380	3,230	2,050	3,360	2,150	2,260	1,790	1,780	951
12	599	584	1,290	5,190	2,850	2,020	3,240	4,710	2,010	1,640	1,470	960
13	577	662	1,280	4,210	2,660	1,920	7,370	3,550	1,910	1,500	2,130	1,400
14	516	616	1,480	3,410	3,220	1,940	4,890	3,120	1,840	1,120	1,630	1,120
15	453	538	1,290	3,460	3,010	1,880	4,200	2,610	1,810	1,040	1,680	923
16	416	682	1,310	3,110	3,740	2,190	3,600	2,550	1,890	1,400	1,550	729
17	412	483	1,100	2,750	3,490	2,040	3,340	2,400	1,880	1,540	1,560	906
18	430	575	1,260	2,560	3,110	1,900	3,220	2,650	1,670	1,280	1,500	952
19	473	531	1,130	2,320	3,090	1,950	2,740	2,270	1,400	1,450	1,510	843
20	502	526	1,380	2,100	3,060	2,800	2,600	2,320	1,750	1,440	1,340	842
21	444	1,350	2,290	2,800	2,720	4,560	2,630	2,280	1,630	1,020	1,670	977
22	466	1,480	1,590	2,500	5,130	3,490	2,560	2,190	1,540	1,050	1,670	890
23	607	701	1,280	2,320	4,160	2,750	2,950	3,280	1,360	1,080	1,360	753
24	515	600	1,360	2,340	3,600	2,440	2,700	2,620	1,180	1,200	1,340	795
25	535	656	1,270	2,540	3,290	2,210	2,590	2,360	1,500	1,110	1,260	934
26	596	1,140	6,560	2,520	3,020	2,310	2,320	2,270	1,290	1,370	967	836
27	481	2,050	5,190	3,530	2,900	1,990	2,260	3,410	1,470	1,450	1,260	806
28	609	5,060	3,330	2,900	2,810	2,080	2,170	2,620	1,850	1,060	1,080	1,100
29	787	2,860	2,680	3,270	------	2,220	1,880	2,230	1,480	977	1,170	785
30	718	2,100	2,970	2,960	------	2,960	1,950	2,210	1,090	1,060	1,120	684
31	769	------	8,940	2,740	------	2,280	------	2,830	------	965	1,180	------
TOTAL	19,430	30,330	69,940	120,760	100,430	73,490	106,220	81,100	57,280	42,696	48,989	29,245
MEAN	627	1,011	2,256	3,895	3,587	2,371	3,541	2,616	1,909	1,377	1,580	975
MAX	1,040	5,060	8,940	8,430	6,120	4,560	8,210	4,710	2,850	2,350	2,710	1,470
MIN	412	483	1,020	2,100	2,290	1,880	1,880	1,870	1,090	965	967	684

CAL YR 1973 TOTAL 742,995 MEAN 2,036 MAX 15,700 MIN 412 CFSM 3.11 IN 42.19
WTR YR 1974 TOTAL 779,910 MEAN 2,137 MAX 8,940 MIN 412 CFSM 3.26 IN 44.28

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-28	0930	6.73	9,140	1-11	1315	6.81	9,330
12-26	1730	8.42	13,500	4- 4	1700	8.34	13,300
12-31	1700	9.77	17,500	4-13	0700	7.34	10,700

03547000 Hiwassee River below Chatuge Dam, near Hayesville, N. C.

LOCATION.--Lat 35°01'45", long 83°47'45", Clay County, on left bank 1.2 mi (1.9 km) downstream from bridge on Secondary Road 1146, 0.4 mi (0.6 km) upstream from Hyatt Mill Creek, 1.6 mi (2.6 km) southeast of Hayesville, 1.7 mi (2.7 km) downstream from Chatuge Dam, and at mile 119.3 (192 km).

DRAINAGE AREA.--190 mi^2 (492 km^2).

PERIOD OF RECORD.--May 1907 to December 1909 (fragmentary), August 1922 to September 1923 (gage heights only), April 1942 to September 1974 (discontinued). Published as "near Hayesville" 1907-9, 1922-23.

GAGE.--Water-stage recorder. Datum of gage is 1,789.90 ft (545.562 m) above mean sea level (levels by Tennessee Valley Authority). Prior to Apr. 1, 1942, nonrecording gage at site 1.1 mi (1.8 km) upstream at different datum.

AVERAGE DISCHARGE.--32 years (1942-74), 448 ft^3/s (12.69 m^3/s), 32.02 in/yr (813 mm/yr) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 1,680 ft^3/s (47.6 m^3/s) July 31 (gage height, 5.77 ft or 1.759 m); minimum, 1.8 ft^3/s (0.051 m^3/s) Oct. 12 (gage height, 0.48 ft or 0.146 m); minimum daily, 2.5 ft^3/s (0.071 m^3/s) Oct. 11.

Period of record: Maximum gage height recorded, 11.9 ft (3.6 m) Mar. 13, 1909, site and datum then in use (discharge not determined); minimum discharge, 0.6 ft^3/s (0.017 m^3/s) Oct. 21, 1952; minimum gage height, 0.30 ft (0.091 m) Aug. 3,1942, Oct. 21, 1952.

REMARKS.--Records good. Flow completely regulated by Chatuge Lake (see p. 173).

REVISIONS (WATER YEARS).--WSP 873: 1942.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	820	522	1,010	1,050	975	446	4.6	651	675	920	16
2	9.6	414	38	1,040	922	1,070	32	4.1	21	739	1,080	268
3	3.0	360	826	954	679	61	37	11	1,010	716	827	731
4	2.9	12	606	993	993	922	862	16	677	661	18	361
5	2.8	682	1,160	980	1,040	1,010	944	742	524	791	678	368
6	2.7	852	1,080	1,070	1,040	659	885	993	497	856	829	882
7	2.8	653	1,440	1,470	910	573	121	860	665	451	754	31
8	2.7	675	856	1,480	994	504	655	887	77	981	879	15
9	2.7	664	454	1,490	1,070	511	709	901	16	1,360	991	646
10	2.6	375	1,270	1,490	1,170	494	697	865	575	715	866	564
11	2.5	583	1,090	1,490	1,270	501	653	833	713	704	705	582
12	31	811	951	1,490	1,310	458	665	425	540	733	980	581
13	12	773	970	1,490	1,320	553	26	957	701	16	814	570
14	12	536	951	1,490	1,320	770	18	878	549	16	881	16
15	522	558	1,050	1,490	1,320	521	214	1,040	26	725	969	15
16	526	547	932	1,490	1,320	535	313	1,030	20	735	1,020	576
17	522	978	1,050	1,490	1,310	841	242	1,030	542	717	940	578
18	533	20	1,160	1,490	1,310	883	269	1,020	529	709	971	589
19	519	553	1,230	1,490	1,330	380	244	844	726	792	1,010	537
20	12	566	1,190	1,490	1,350	556	16	1,540	729	973	969	578
21	12	571	1,200	1,490	1,330	903	16	1,400	766	752	1,080	16
22	667	550	733	1,490	1,360	446	172	1,090	709	742	938	15
23	673	566	13	1,490	1,230	15	171	1,070	16	657	1,010	660
24	684	13	12	1,490	1,080	72	761	1,090	742	666	822	776
25	657	13	12	1,100	1,380	382	315	919	715	860	808	1,320
26	657	560	1,080	626	1,180	127	314	64	728	713	933	704
27	17	610	1,350	770	1,200	13	440	797	675	796	409	699
28	17	854	1,460	767	1,020	13	288	1,000	735	713	318	32
29	1,060	628	1,300	900	------	15	23	1,110	727	886	323	15
30	976	670	1,360	1,040	------	13	4.9	988	18	903	443	14
31	1,030	------	1,390	1,080	------	13	------	1,100	------	901	16	------
TOTAL	9,187.3	16,467	28,736	39,120	32,808	14,789	10,552.9	25,508.7	15,619	22,654	24,201	12,755
MEAN	296	549	927	1,262	1,172	477	352	823	521	731	781	425
MAX	1,060	978	1,460	1,490	1,380	1,070	944	1,540	1,010	1,360	1,080	1,320
MIN	2.5	12	12	626	679	13	4.9	4.1	16	16	16	14
(†)	-3,700	-4,600	-2,600	-1,800	+1,300	+6,200	+21,200	-2,900	-1,100	-9,500	-6,600	-4,600
MEAN‡	177	396	843	1,204	1,218	677	1,058	729	484	424	568	272
CFSM‡	0.93	2.08	4.44	6.34	6.41	3.56	5.57	3.84	2.55	2.23	2.99	1.43
IN.‡	1.07	2.32	5.12	7.30	6.68	4.11	6.22	4.43	2.84	2.57	3.45	1.60

CAL YR 1973 TOTAL 228,832.3 MEAN 627 MAX 3,960 MIN 2.5 MEAN‡ 629 CFSM‡ 3.31 IN.‡ 44.93
WTR YR 1974 TOTAL 252,397.9 MEAN 692 MAX 1,540 MIN 2.5 MEAN‡ 668 CFSM‡ 3.52 IN.‡ 47.70

† Change in contents, in cfs-days, in Chatuge Lake, furnished by Tennessee Valley Authority.
‡ Adjusted for change in lake contents.

03548500 Hiwassee River above Murphy, N. C.

LOCATION.--Lat 35°04'50", long 84°00'10", Cherokee County, on right bank on U. S. Highway 64, 600 ft (183 m) upstream from Will Scott Creek, 2.0 mi (3.2 km) southeast of Murphy, and at mile 99.1 (159.5 km).

DRAINAGE AREA.--406 mi^2 (1.052 km^2).

PERIOD OF RECORD.--June 1896 to August 1897 (gage heights only), October 1897 to current year. Published as "at Murphy" 1897-1940. Records published for both sites August 1939 to April 1940. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,538.23 ft (468.853 m) above mean sea level (levels by Tennessee Valley Authority). Prior to Jan. 30, 1921, nonrecording gage at bridge 2.8 mi(4.5 km) downstream at datum 30.40 ft (9.266 m) lower. Jan. 30, 1921, to Nov. 8, 1926, nonrecording gage 2.8 mi (4.5 km) downstream at datum 28.40 ft (8.656 m) lower. Nov. 9, 1926, to Apr. 30, 1940, water-stage recorder 2.8 mi (4.5 km) downstream at datum 28.20 ft (8.595 m) lower.

AVERAGE DISCHARGE.--77 years (1897-1974), 916 ft^3/s (25.94 m^3/s), 30.64 in/yr (778 mm/yr) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 11,100 ft^3/s (314 m^3/s) Dec. 31 (gage height, 10.96 ft or 3.341 m); minimum, 130 ft^3/s (3.68 m^3/s) Oct. 15 (gage height, 2.22 ft or 0.677 m); minimum daily, 145 ft^3/s (4.11 m^3/s) Oct. 9.

Period of record: Maximum discharge, 23,100 ft^3/s (654 m^3/s) Mar. 19, 1899 (gage height, 18.4 ft or 5.61 m), from graph based on gage readings, site and datum then in use, from rating curve extended above 5,000 ft^3/s (142 m^3/s); minimum daily, 10 ft^3/s (0.28 m^3/s) Dec. 3, 1924, result of freezeup and filling of Andrews Lake; minimum daily during normal regulation, 62 ft^3/s (1.76 m^3/s) Oct. 19, 1952.

Maximum stage observed is that of Mar. 19, 1899.

REMARKS.--Records good. Considerable diurnal fluctuation since 1924 caused by Mission powerplant at Andrews Dam 7 mi (11 km) upstream (normal regulated storage, about 75 ft^3/s-day or about 184,000 m^3). Flow regulated since 1942 by Chatuge Lake 22 mi (35 km) upstream (see p. 173).

REVISIONS (WATER YEARS).--WSP 583: 1899(M). WSP 973: Drainage area. WSP 1003: 1943. WSP 1306: 1901-2, 1904-17, 1919(M), 1922(M), 1924-26(M). WSP 1706: 1899, 1907.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285	1,070	710	4,080	1,780	1,610	815	500	1,480	515	1,160	267
2	258	833	510	2,440	3,400	1,670	1,190	492	1,320	1,200	1,280	452
3	218	514	725	2,050	3,360	999	786	518	1,380	1,010	1,320	680
4	198	325	904	3,280	2,630	1,110	4,530	498	1,510	1,270	813	733
5	185	414	2,680	2,480	2,260	1,550	3,240	1,170	1,090	1,180	792	523
6	181	1,040	1,870	2,140	2,280	1,250	2,170	1,780	893	1,210	1,070	1,080
7	176	872	1,940	2,490	2,230	1,080	1,480	1,490	1,200	1,240	1,060	692
8	163	809	1,420	2,330	2,400	980	1,490	1,380	863	1,160	1,300	263
9	145	912	724	3,690	2,300	983	1,770	1,410	528	1,860	1,570	611
10	154	663	1,600	3,520	2,180	961	1,840	1,450	668	1,210	1,300	743
11	153	928	1,520	3,230	2,130	943	1,500	1,330	1,170	1,040	1,040	793
12	145	776	1,120	2,910	2,110	892	1,520	1,510	1,070	1,040	1,320	790
13	151	906	1,300	2,560	2,070	1,260	3,930	1,350	983	554	1,190	943
14	154	920	1,250	2,540	2,200	945	1,800	1,500	963	308	1,130	418
15	310	379	1,350	2,740	2,170	1,030	1,660	1,590	774	691	1,270	239
16	736	730	1,250	2,550	2,500	1,010	1,480	1,560	392	992	1,500	462
17	824	1,210	1,320	2,400	2,410	1,100	1,240	1,540	565	961	1,290	770
18	805	436	1,420	2,280	2,240	1,490	1,150	1,520	823	1,100	1,290	775
19	574	439	1,470	2,200	2,220	810	1,050	1,310	1,090	993	1,330	826
20	351	695	1,540	2,150	2,140	1,560	750	1,970	1,130	1,130	1,250	702
21	157	1,120	1,600	2,160	2,070	1,820	696	1,900	1,290	1,000	1,430	430
22	477	1,140	1,430	2,080	2,820	1,570	862	1,550	1,040	1,170	1,330	224
23	788	589	337	2,100	2,330	842	988	2,060	595	752	1,330	483
24	825	472	308	2,110	1,980	637	1,280	1,710	843	940	1,130	891
25	823	230	291	1,870	2,180	1,020	1,090	1,470	1,070	1,290	1,040	1,380
26	732	463	1,700	1,520	1,960	678	907	1,170	900	1,180	1,170	927
27	481	874	2,420	2,330	1,840	540	885	2,010	927	897	891	801
28	225	2,300	2,140	2,090	1,660	544	684	1,820	1,280	1,040	583	621
29	841	1,380	1,890	2,170	------	905	821	1,790	890	1,090	535	229
30	1,170	1,410	2,210	1,890	------	855	515	1,620	685	1,160	837	204
31	1,170	------	5,710	1,950	------	707	------	1,680	------	1,090	372	------
TOTAL	13,855	24,849	46,659	76,330	63,850	33,351	44,119	44,648	29,412	32,273	34,923	18,952
MEAN	447	828	1,505	2,462	2,280	1,076	1,471	1,440	980	1,041	1,127	632
MAX	1,170	2,300	5,710	4,080	3,400	1,820	4,530	2,060	1,510	1,860	1,570	1,380
MIN	145	230	291	1,520	1,660	540	515	492	392	308	372	204

CAL YR 1973 TOTAL 441,102 MEAN 1,208 MAX 11,300 MIN 145 MEAN† 1,210 CFSM† 2.98 IN.† 40.47
WTR YR 1974 TOTAL 463,221 MEAN 1,269 MAX 5,710 MIN 145 MEAN† 1,245 CFSM† 3.07 IN.† 41.63

† Adjusted for change in contents in Chatuge Lake.

03550000 Valley River at Tomotla, N. C.

LOCATION.--Lat 35°08'20", long 83°58'50", Cherokee County, on right bank 15 ft (4.6 m) downstream from bridge on Secondary Road 1373 at Tomotla, 0.2 mi (0.3 km) upstream from Rogers Creek, 4.7 mi (7.6 km) northeast of Murphy, and at mile 6.6 (10.6 km).

DRAINAGE AREA.--104 mi^2 (269 km^2).

PERIOD OF RECORD.--June 1904 to December 1909, January 1914 to April 1917, October 1918 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,556.46 ft (474.409 m) above mean sea level (levels by Tennessee Valley Authority). Prior to May 11, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--62 years (1904-9, 1914-16, 1919-74), 255 ft^3/s (7.222 m^3/s), 33.30 in/yr (846 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,910 ft^3/s (167 m^3/s) Dec. 31 (gage height, 14.29 ft or 4.356 m); minimum, 64 ft^3/s (1.81 m^3/s) Sept. 23, 24, 26, 27, 29, 30 (gage height, 1.89 ft or 0.576 m).
Period of record: Maximum discharge, 18,000 ft^3/s (510 m^3/s) Nov. 19, 1906 (gage height, 20.5 ft or 6.25 m, from flood profile by Tennessee Valley Authority), from rating curve extended above 5,800 ft^3/s (164 m^3/s) on basis of slope-conveyance study; minimum, 12 ft^3/s (0.34 m^3/s) several times in August and September 1925 (gage height, 0.52 ft or 0.158 m).
Flood of September 1898 reached a stage of 21.2 ft (6.462 m), from floodmark by Tennessee Valley Authority (discharge, about 20,000 ft^3/s or about 566 m^3/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 503: 1905-9, 1915-17. WSP 823: Drainage area. WSP 1306: 1917(M), 1920(M), 1922(M), 1925(M), 1930(M), 1933(M). WSP 1626: 1907(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	116	228	2,360	482	398	350	256	493	141	90	104
2	114	87	197	1,420	1,550	371	493	260	712	137	89	105
3	103	81	177	1,930	1,580	353	446	278	522	135	247	143
4	96	80	178	2,280	1,120	336	1,610	252	402	235	173	133
5	92	80	534	1,420	831	328	1,220	252	338	208	133	108
6	88	77	358	991	783	324	765	250	346	169	115	135
7	88	75	275	886	1,120	306	580	234	319	198	129	125
8	85	85	235	682	1,170	292	742	224	277	205	192	109
9	86	107	209	1,430	917	282	811	221	257	282	180	102
10	87	84	190	1,410	731	275	641	263	267	223	141	96
11	82	80	175	1,270	623	266	541	230	262	198	131	90
12	82	79	166	1,080	542	263	538	442	232	170	124	91
13	81	77	239	812	496	252	1,820	330	223	154	121	109
14	81	77	232	761	638	244	1,110	278	208	142	111	95
15	80	77	210	821	648	236	828	254	203	134	114	88
16	77	118	197	717	937	347	650	241	207	129	173	87
17	69	87	183	617	910	291	559	230	190	125	152	79
18	69	82	173	536	702	266	492	223	180	127	126	79
19	68	81	166	484	687	347	446	228	173	118	115	75
20	72	79	249	449	581	487	408	212	168	127	152	72
21	71	234	293	458	516	549	380	218	173	114	161	73
22	71	174	245	401	883	489	379	200	167	107	126	76
23	71	128	226	400	715	406	392	621	187	110	111	66
24	69	113	209	400	599	359	344	344	165	118	103	64
25	69	139	196	447	523	342	325	280	155	130	96	66
26	69	182	770	591	465	315	309	373	148	108	95	66
27	68	211	842	1,130	434	308	296	567	234	118	91	64
28	108	1,150	472	879	407	314	283	383	183	122	90	69
29	113	439	423	782	------	445	274	321	159	103	111	86
30	84	285	616	640	------	447	264	307	147	99	131	68
31	89	------	3,280	543	------	386	------	484	------	92	112	------
TOTAL	2,606	4,764	12,143	29,027	21,590	10,624	18,296	9,256	7,697	4,578	4,035	2,723
MEAN	84.1	159	392	936	771	343	610	299	257	148	130	90.8
MAX	124	1,150	3,280	2,360	1,580	549	1,820	621	712	282	247	143
MIN	68	75	166	400	407	236	264	200	147	92	89	64
CFSM	.81	1.53	3.77	9.00	7.41	3.30	5.87	2.88	2.47	1.42	1.25	.87
IN.	.93	1.70	4.34	10.38	7.72	3.80	6.54	3.31	2.75	1.64	1.44	.97

CAL YR 1973 TOTAL 111,054 MEAN 304 MAX 3,280 MIN 68 CFSM 2.92 IN 39.72
WTR YR 1974 TOTAL 127,339 MEAN 349 MAX 3,280 MIN 64 CFSM 3.36 IN 45.55

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-28	0800	7.27	2,040	2- 2	1900	7.10	1,980
12-31	1945	14.29	5,910	4- 4	1445	7.85	2,240
1- 9	1400	7.70	2,190	4-13	0630	8.65	2,560

Lakes and Reservoirs in Ohio River basin

03460242 LAKE WALTERS.--Lat 35°41'41", long 83°03'02", Haywood County, at Waterville Dam on Pigeon River, 0.1 mi (0.2 km) downstream from Cataloochee Creek, 5.5 mi (8.8 km) southeast of Mount Sterling, and at mile 38.0 (61.1 km). Drainage area, 455 mi^2 (1,178 km^2). Period of record, October 1961 to current year. Nonrecording gage read once daily. Datum of gage is at mean sea level. Extremes for current year: Maximum contents observed, 12,800 ft^3/s-day (31.32 hm^3) Dec. 31, Jan. 1-7, 9-13, Apr. 4-10 (elevation, 2,258.6 ft or 688.42 m); minimum observed, 2,860 ft^3/s-day (6.998 hm^3) Oct. 26 (elevation, 2,180.6 ft or 664.65 m). Extremes for period of record: Maximum contents observed, 12,800 ft^3/s-day (31.32 hm^3) several days each year (elevation, 2,258.6 ft or 688.42 m); minimum observed, 2,860 ft^3/s-day (6.998 hm^3) Oct. 26, 1973 (elevation, 2,180.6 ft or 664.65 m).

Reservoir is formed by single arch, variable radius, concrete dam with fourteen taintor gates 10 ft (3 m) high by 24 ft (7.3 m) wide. Dam was completed in 1929 and filling began October 1929; water in reservoir first reached minimum pool elevation November 1929. Total capacity (new capacity table put into use Jan. 1, 1971), at elevation 2,258.6 ft or 688.42 m (top of gates) is 12,800 ft^3/s-day (31.32 hm^3), of which 10,400 ft^3/s-day (25.45 hm^3) is controlled storage above elevation 2,175 ft or 662.9 m (minimum pool). Reservoir is used for power. Prior to Jan. 1, 1971 records furnished by Carolina Power and Light Co. Gage-height record furnished by Carolina Power and Light Co.; level storage records furnished by Tennessee Valley Authority.

03504500 NANTAHALA LAKE.--Lat 35°11'56", long 83°39'17", Cherokee County, at Nantahala Dam on Nantahala River, 4.2 mi (6.8 km) southeast of Topton, 5.5 mi (8.8 km) upstream from Whiteoak Creek, and at mile 22.8 (36.7 km). Drainage area, 91.0 mi^2 (235.7 km^2). Period of record, January 1942 to current year. Prior to October 1944 monthend contents only, published in WSP 1306. Gage, water-stage recorder. Datum of gage is a local datum which is 122.16 ft (37.234 m) above mean sea level. Prior to June 3, 1942, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 69,200 ft^3/s-day (169.3 hm^3) Feb. 5 (elevation, 2,889.99 ft or 880.869 m); minimum, 51,000 ft^3/s-day (124.8 hm^3) Oct. 19 (elevation, 2,865.10 ft or 873.282 m). Extremes for period of record: Maximum contents, 70,400 ft^3/s-day (172.3 hm^3) Apr. 12, 1957 (elevation, 2,890.55 ft or 881.040 m); minimum (after first filling), 6,700 ft^3/s-day (16.39 hm^3) Jan. 28, 1955 (elevation, 2,760.11 ft or 841.282 m).

Reservoir is formed by rockfill dam with side channel gate-controlled spillway supplemented by fuse-plug dam. Dam completed and storage began Jan. 30, 1942; water in reservoir first reached minimum pool elevation Feb. 16, 1942. Total capacity (based on 1969 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 2,890.0 ft or 880.872 m (top of gates) is 69,200 ft^3/s-day (169.3 hm^3), of which 63,500 ft^3/s-day (155.4 hm^3) is controlled storage above 2,758.84 ft or 840.894 m (minimum pool). Reservoir is used for flood control and power. Gage-height record furnished by the Aluminum Co. of America; level storage records furnished by Tennessee Valley Authority. (See sta 03505500)

03507500 THORPE RESERVOIR.--Lat 35°11'46", long 83°09'09", Jackson County, at Thorpe Dam on West Fork Tuckasegee River, 2.3 mi (3.7 km) northwest of Glenville, 3.0 mi (4.8 km) upstream from Shoal Creek, and at mile 9.7 (15.6 km). Drainage area, 36.7 mi^2 (95.1 km^2). Period of record, February 1941 to current year. Prior to October 1944 monthend contents only, published in WSP 1306. Prior to October 1948, published as Glenville Reservoir. Gage, water-stage recorder. Datum of gage is a local datum which is 391.75 ft (119.405 m) above mean sea level. Prior to Apr. 9, 1941, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 35,100 ft^3/s-day (85.89 hm^3) Apr. 17 (elevation, 3,099.42 ft or 944.703 m); minimum, 22,600 ft^3/s-day (55.30 hm^3) Nov. 17 (elevation, 3,080.57 ft or 938.958 m). Extremes for period of record: Maximum contents, 35,700 ft^3/s-day (87.36 hm^3) Mar. 13, 1950 (elevation, 3,100.01 ft or 944.883 m); minimum (after first filling), 2,200 ft^3/s-day (5.383 hm^3) Feb. 5, 1955, Jan. 13, 1956; minimum elevation, 3,025.10 ft (922.050 m) Feb. 5, 1955.

Reservoir is formed by earth and rock dam and six 40 ft (12.2 m) fuse-plug dams. Side channel spillway equipped with two taintor gates 12 ft (3.7 m) high by 25 ft (7.6 m) wide. Dam completed and storage began Feb. 12, 1941. Water in reservoir first reached minimum pool elevation Mar. 15, 1941. Total capacity (based on 1969 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 3,100.0 ft or 944.88 m (top of gates) is 35,500 ft^3/s-day (86.87 hm^3), of which 33,700 ft^3/s-day (82.46 hm^3) is controlled storage above elevation 3,023.25 ft or 921.487 m (minimum pool). Reservoir is used for flood control and power. Gage-height record furnished by Aluminum Co. of America; level storage records furnished by Tennessee Valley Authority. (See sta 03508000)

03514500 FONTANA LAKE.--Lat 35°27'07", long 83°48'18", Graham County, at Fontana Dam on Little Tennessee River, 5.7 mi (9.2 km) upstream from Twenty Mile Creek, 9.0 mi (14.5 km) north of Robbinsville, 9.6 mi (15.4 km) upstream from Cheoah Dam, and at mile 61.0 (98.1 km). Drainage area, 1,571 mi^2 (4,069 km^2). Period of record, October 1944 to current year. Prior to November 1944, monthend contents only, published in WSP 1306. Gage, water-stage recorder. Datum of gage is at mean sea level. Extremes for current year: Maximum contents, 705,600 ft^3/s-day (1,727 hm^3) June 11 (elevation, 1,706.11 ft or 520.022 m); minimum, 364,100 ft^3/s-day (891.0 hm^3) Dec. 25 (elevation, 1,622,62 ft or 494.575 m). Extremes for period of record: Maximum contents, 728,600 ft^3/s-day (1,783 hm^3) May 28, 1973 (elevation, 1,710.20 ft or 521.269 m); minimum (after first filling), 78,300 ft^3/s-day (191.6 hm^3) Jan. 29, 1955 (elevation, 1,472.0 ft or 448.666 m).

Reservoir is formed by gravity nonoverflow type concrete dam. Spillway equipped with four radial gates 35 ft (10.7 m) high by 35 ft (10.7 m) wide. Storage began Nov. 7, 1944; dam completed March 1945; water in reservoir first reached minimum pool elevation Jan. 16, 1945. Total capacity (based on 1967 resurvey; new capacity table put into use Jan. 1, 1971), at elevation, 1,710.0 ft or 521.208 m (top of gates) is 727,500 ft^3/s-day (1,780 hm^3), of which 578,000 ft^3/s-day (1,414 hm^3) is controlled storage above elevation 1,525.0 ft or 464.82 m (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

03516500 SANTEETLAH LAKE.--Lat 35°22'38", long 83°52'33", Graham County, at Santeetlah Dam on Cheoah River, 1 mi (1.6 km) downstream from Santeetlah Creek, 5.5 mi (8.8 km) northwest of Robbinsville, and at mile 9.3 (15.0 km). Drainage area, 176 mi^2 (456 km^2). Period of record, December 1927 to current year. Prior to October 1946 monthend contents only, published in WSP 1306. Gage, water-stage recorder. Datum of gage is a local datum which is 122.92 ft (37.466 m) above mean sea level. Prior to February 1937, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 78,800 ft^3/s-day (192.8 hm^3) Apr. 13 (elevation, 1,816.97 ft or 553.812 m); minimum, 57,300 ft^3/s-day (140.2 hm^3) Nov. 17 (elevation, 1,800.31 ft or 548.734 m). Extremes for period of record: Maximum contents, 81,100 ft^3/s-day (198.5 hm^3) Sept. 3, 1928 (elevation, 1,817.90 ft or 554.096 m); minimum (after first filling), 13,100 ft^3/s-day (32.06 hm^3) Feb. 6, 1940 (elevation, 1,741.39 ft or 530.776 m).

Reservoir is formed by concrete gravity and arch dam with concrete spillway controlled by six taintor gates 12 ft (3.7 m) high by 25 ft (7.6 m) wide. Dam completed and storage began Dec. 7, 1927. Water in reservoir first reached minimum pool elevation December 1927. Total capacity (new capacity table put into use Jan. 1, 1971), at elevation 1,817.00 ft or 553.822 m (top of gates) is 78,800 ft^3/s-day (192.8 hm^3), of which 66,600 ft^3/s-day (163.0 hm^3) is controlled storage above 1,740.08 ft or 530.377 m (minimum pool). Reservoir is used for power. Gage-height record furnished by Aluminum Co. of America; level storage records furnished by Tennessee Valley Authority.

Lakes and Reservoirs in Ohio River basin--Continued

03546500 CHATUGE LAKE.--Lat 35°01'01", long 83°47'28", Clay County, at Chatuge Dam on Hiwassee River 2.0 mi (3.2 km) upstream from Hyatt Mill Creek, 2.5 mi (4.0 km) downstream from Gerogia-North Carolina State line, 2.4 mi (3.9 km) southeast of Hayesville, and at mile 121.0 (194.7 km). Drainage area, 189 mi^2 (490 km^2). Period of record, February 1942 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level. Prior to Aug. 4, 1942, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 113,600 ft^3/s-day (278.0 hm^3) May 5 (elevation, 1,925.81 ft or 586.987 m); minimum, 79,500 ft^3/s-day (194.5 hm^3) Dec. 22 (elevation, 1,914.04 ft or 583.399 m). Extremes for period of record: Maximum contents, 124,200 ft^3/s-day (303.9 hm^3) Apr. 20, 1943 (elevation, 1,927.80 ft or 587.593 m); minimum (after first filling), 9,400 ft^3/s-day (23.0 hm^3) Sept. 5, 1947, Jan. 27, 1956; minimum elevation, 1,860.11 ft (566.962 m) Sept. 5, 1947.

Reservoir is formed by a rolled earthfill dam with side channel spillway equipped with flashboards. Dam completed and storage began Feb. 12, 1942; water in reservoir first reached minimum pool elevation Feb. 26, 1942. Total capacity (based on 1965 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 1,928.0 ft or 587.654 m (top of flashboards) is 121,200 ft^3/s-day (296.6 hm^3), of which 111,900 ft^3/s-day (273.8 hm^3) is controlled storage above elevation 1,860.0 ft or 566.928 m (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority. (See sta 03547000)

03554500 HIWASSEE LAKE.--Lat 35°09'01", long 84°10'40", Cherokee County, at Hiwassee Dam on Hiwassee River, 0.3 mi (0.5 km) northwest of village of Hiwassee Dam, 3.9 mi (6.3 km) upstream from Shoal Creek, and at mile 75.8 (122.0 km). Drainage area, 968 mi^2 (2,507 km^2). Period of record, September 1939 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level. Subtract 0.63 ft (0.192 m) from all elevations to reduce to datum of 1929, supplementary adjustment of 1936. Extremes for current year: Maximum contents, 199,600 ft^3/s-day (488.4 hm^3) June 4 (elevation, 1,520.47 ft or 463.439 m); minimum, 90,000 ft^3/s-day (220.2 hm^3) Dec. 25 (elevation, 1,470.17 ft or 448.108 m). Extremes for period of record: Maximum contents, 223,400 ft^3/s-day (546.7 hm^3) May 28, 1973 (elevation, 1,528.02 ft or 465.740 m); minimum (after first filling), 35,800 ft^3/s-day (87.60 hm^3) Jan. 28, 1948 (elevation, 1.413.41 ft or 430.807 m).

Reservoir is formed by gravity overflow concrete dam with seven taintor gates 23 ft (7.0 m) high by 32 ft (9.8 m) wide. Slight storage began Apr. 13, 1939, during construction; systematic storage operation began Jan. 14, 1940; dam completed February 1940; water in reservoir first reached minimum pool elevation Feb. 23, 1940. Total capacity (based on 1965 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 1,526.5 ft or 465.277 m (top of gates) is 218,800 ft^3/s-day (535.4 hm^3), of which 182,700 ft^3/s-day (447.1 hm^3) is controlled storage above elevation 1,415.0 or 431.292 m (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

03555500 APALACHIA LAKE.--Lat 35°10'04", long 84°17'49", Cherokee County, at Apalachia Dam on Hiwassee River, 0.1 mi (0.2 km) upstream from North Carolina-Tennessee State line, 1.5 mi (2.4 km) northeast of Farner, Tenn., 9.8 mi (15.8 km) downstream from Hiwassee Dam, and at mile 66.0 (106.2 km). Drainage area, 1,018 mi^2 (2,637 km^2). Period of record, February 1943 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level. Extremes for current year: Maximum contents, 29,100 ft^3/s-day (71.21 hm^3) Oct. 10 (elevation, 1,280.00 ft or 390.144 m); minimum, 25,200 ft^3/s-day (61.66 hm^3) Sept. 10 (elevation, 1,273.06 ft or 388.029 m). Extremes for period of record: Maximum contents, 30,300 ft^3/s-day (74.14 hm^3) June 13, 1952 (elevation, 1,281.40 ft or 390.571 m); minimum (after first filling), 15,300 ft^3/s-day (37.44 hm^3) Apr. 25, 1971 (elevation, 1,251.00 ft or 381.305 m).

Reservoir is formed by concrete gravity dam. Spillway equipped with 10 radial gates. Dam completed and storage began Feb. 14, 1943; water in reservoir first reached minimum pool elevation Feb. 21, 1943. Total capacity (based on 1965 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 1,280.00 ft or 390.144 m (top of gates) is 29,100 ft^3/s-day (71.21 hm^3), of which 24,500 ft^3/s-day (59.95 hm^3) is controlled storage above elevation 1,212.00 ft or 369.418 m (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

OTHER RESERVOIRS.--The following smaller reservoirs in the Tennessee River basin are described below, but records of contents are not published herein:

03447832 LAKE JULIAN.--Lat 35°28'37", long 82°32'51", Buncombe County, cooling water reservoir for Carolina Power and Light Co. plant, on Powells Creek near Skyland. Prior to November 1967, published as Asheville Steam-electric Generating Plant Lake. Drainage area, 4.78 mi^2 (12.38 km^2). Total capacity is 4,540 ft^3/s-day (11.11 hm^3), of which 2,120 ft^3/s-day (5.188 hm^3) is controlled storage. Storage began Mar. 27, 1963, and lake reached spillway elevation of 2,160 ft (658.4 m) on June 3, 1963. Most of initial storage and occasional supplemental storage provided by pumped diversion from French Broad River.

03448959 BURNETT LAKE.--Lat 35°39'44", long 82°20'43", Buncombe County, part of Asheville's municipal water supply, on North Fork Swannanoa River near Black Mountain. Drainage area, 21.9 mi^2 (56.7 km^2). Total capacity is 11,600 ft^3/s-day or 28.39 hm^3 (crest of spillway), of which 8,900 ft^3/s-day (21.78 hm^3) is controlled storage. Storage began Jan. 28, 1954. (See sta 03451000)

03450134 BEETREE RESERVOIR.--Lat 35°38'27", long 82°24'04", Buncombe County, part of Asheville's municipal water supply, on Beetree Creek near Swannanoa. Drainage area, 7.62 mi^2 (19.74 km^2). Total capacity is 844 ft^3/s-day (2.065 hm^3), of which 823 ft^3/s-day (2.014 hm^3) is controlled storage. Dam completed December 1926, and storage began Jan. 11, 1927; water in reservoir first reached maximum pool elevation Mar. 8, 1927. No diversion since June 1963.

03455773 LAKE LOGAN.--Lat 35°25'15", long 82°55'30", Haywood County, on West Fork Pigeon River near Canton, and at mile 7.0 (11.3 km). Drainage area, 33.3 mi^2 (86.2 km^2). Total capacity is 1,040 ft^3/s-day or 2.545 hm^3 (top of flashboards), all of which is usable. Storage began November 1931. (See sta 03456000)

03458319 LAKE JUNALUSKA.--Lat 35°31'38", long 82°57'48", Haywood County, on Richland Creek at Lake Junaluska, and at mile 2.4 (3.9 km). Drainage area, 63.6 mi^2 (164.7 km^2). Total surface area, about 195 acres (789,000 m^2). Lake reached spillway elevation in the spring of 1913.

03500466 SEQUOYAH LAKE.--Lat 35°04'02", long 83°13'31", Macon County, on Cullasaja River near Highlands, and at mile 18.4 (29.6 km). Drainage area, 14.4 mi^2 (37.3 km^2). Total capacity is 233 ft^3/s-day or 570,000 m^3 (spillway crest), of which approximately 116 ft^3/s-day (284,000 m^3) is usable. Storage began in 1926.

Lakes and Reservoirs in Ohio River basin--Continued

03507111; 03507131 EAST FORK LAKE AND WOLF CREEK LAKE.--These two reservoirs are operated as a unit for storage of water for the Tennessee Creek Project. East Fork Dam (drainage area, 24.9 mi^2 or 64.5 km^2) on Tuckasegee River near Tuckasegee, Jackson County, is at lat 35°12'48", long 83°00'08", Wolf Creek Dam (drainage area, 15.2 mi^2 or 39.4 km^2) on Wolf Creek near Tuckasegee, is at lat 35°13'18", long 83°00'00".
Total capacity of East Fork Lake is 671 ft^3/s-day (1.642 hm^3), of which 625 ft^3/s-day (1.529 hm^3) is controlled storage. Storage began Apr. 18, 1955. Total capacity of Wolf Creek Lake is 5,070 ft^3/s-day (12.41 hm^3), of which 3,850 ft^3/s-day (9.421 hm^3) is controlled storage. Storage began Mar. 22, 1955. (See sta 03508000)

03507216 BEAR CREEK LAKE.--Lat 35°14'29", long 83°04'22", Jackson County, on Tuckasegee River near Tuckasegee. Drainage area, 75.3 mi^2 (195.0 km^2). Total capacity is 17,500 ft^3/s-day (42.82 hm^3), of which 2,290 ft^3/s-day (5.604 hm^3) is controlled storage. Storage began Oct. 9, 1953. (See sta 03508000)

03507289 CEDAR CLIFF LAKE.--Lat 35°15'12", long 83°05'58", Jackson County, on Tuckasegee River near Tuckasegee, and at mile 51.9 (83.5 km). Drainage area, 80.3 mi^2 (208.0 km^2). Total capacity is 3,200 ft^3/s-day (7.830 hm^3), of which 400 ft^3/s-day (979,000 m^3) is controlled storage. Storage began Apr. 26, 1952. (See sta 03508000)

03515152 CHEOAH LAKE.--Lat 35°26'54", long 83°56'11", Graham County, on Little Tennessee River at Cheoah, and at mile 51.4 (82.7 km). Drainage area, 1,608 mi^2 (4,165 km^2). Total capacity is 17,700 ft^3/s-day (43.31 hm^3), of which 3,700 ft^3/s-day (9.054 hm^3) is controlled storage. Storage began Dec. 8, 1918.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Gage height (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Gage height (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03460242 Lake Walters			03504500 Nantahala Lake			03507500 Thorpe Reservoir			03514500 Fontana Lake		
Sept. 30...........	2,219.8	7,030	-	2,868.24	53,200	-	3,084.24	24,800	-	1,678.90	574,900	-
Oct. 31...........	2,182.0	2,970	-4,060	2,867.52	52,700	-500	3,081.92	23,400	-1,400	1,657.80	486,700	-88,200
Nov. 30...........	2,231.2	8,590	+5,620	2,869.80	54,200	+1,500	3,082.88	24,000	+600	1,640.47	422,400	-64,300
Dec. 31...........	2,258.6	12,840	+4,250	2,881.59	62,700	+8,500	3,088.28	27,400	+3,400	1,637.93	414,300	-8,100
CAL YR 1973	-	-	+2,070	-	-	-2,300	-	-	-1,500	-	-	-27,200
Jan. 31...........	2,216.7	6,650	-6,190	2,889.74	69,000	+6,300	3,092.92	30,500	+3,100	1,645.89	440,000	+25,700
Feb. 28...........	2,231.7	8,660	+2,010	2,889.67	68,900	-100	3,094.61	31,700	+1,200	1,644.26	434,400	-5,600
Mar. 31...........	2,222.8	7,420	-1,240	2,884.38	64,800	-4,100	3,093.47	30,900	-800	1,656.04	479,500	+45,100
Apr. 30...........	2,225.0	7,720	+300	2,887.79	67,500	+2,700	3,097.30	33,600	+2,700	1,689.63	624,400	+144,900
May 31...........	2,237.0	9,460	+1,740	2,886.41	66,400	-1,100	3,097.78	33,900	+300	1,703.15	690,600	+66,200
June 30...........	2,244.1	10,540	+1,080	2,885.56	65,800	-600	3,097.10	33,500	-400	1,699.08	670,500	-20,100
July 31...........	2,243.1	10,390	-150	2,880.17	61,600	-4,200	3,094.91	31,900	-1,600	1,685.73	606,000	-64,500
Aug. 31...........	2,243.4	10,430	+40	2,875.95	58,500	-3,100	3,094.28	31,500	-400	1,672.12	545,500	-60,500
Sept. 30...........	2,247.4	11,050	+620	2,871.81	55,600	-2,900	3,090.24	28,700	-2,800	1,649.70	454,100	-91,400
WTR YR 1974	-	-	+4,020	-	-	+2,400	-	-	+3,900	-	-	-120,800

Date	Gage height (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)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
	03516500 Santeetlah Lake			03546500 Chatuge Lake			03554500 Hiwassee Lake			03555500 Apalachia Lake		
Sept. 30...........	1,808.82	67,600	-	1,919.88	95,000	-	1,506.25	161,300	-	1,277.74	27,800	-
Oct. 31...........	1,801.21	58,300	-9,300	1,918.54	91,300	-3,700	1,492.64	129,900	-31,400	1,276.80	27,300	-500
Nov. 30...........	1,805.84	63,900	+5,600	1,916.82	86,700	-4,600	1,479.38	105,300	-24,600	1,278.50	28,300	+1,000
Dec. 31...........	1,813.52	74,000	+10,100	1,915.80	84,100	-2,600	1,482.62	110,900	+5,600	1,275.75	26,700	-1,600
CAL YR 1973	-	-	-4,100	-	-	+700	-	-	+16,500	-	-	-400
Jan. 31...........	1,815.93	77,400	+3,400	1,915.12	82,300	-1,800	1,478.65	104,000	-6,900	1,275.28	26,400	-300
Feb. 28...........	1,816.19	77,700	+300	1,915.62	83,600	+1,300	1,479.61	105,700	+1,700	1,276.75	27,300	+900
Mar. 31...........	1,812.97	73,200	-4,500	1,917.99	89,800	+6,200	1,486.90	118,600	+12,900	1,276.51	27,100	-200
Apr. 30...........	1,814.90	76,000	+2,800	1,925.03	111,000	+21,200	1,510.72	172,800	+54,200	1,276.55	27,200	+100
May 31...........	1,810.88	70,400	-5,600	1,924.14	108,100	-2,900	1,519.25	195,900	+23,100	1,276.65	27,200	0
June 30...........	1,811.22	70,800	+400	1,923.82	107,000	-1,100	1,515.16	186,000	-9,900	1,278.18	28,100	+900
July 31...........	1,806.76	65,000	-5,800	1,920.75	97,500	-9,500	1,512.04	176,200	-9,800	1,277.90	27,900	-200
Aug. 31...........	1,803.47	61,000	-4,000	1,918.40	90,900	-6,600	1,509.00	168,300	-7,900	1,278.13	28,100	+200
Sept. 30...........	1,801.48	58,600	-2,400	1,916.66	86,300	-4,600	1,493.46	131,700	-36,600	1,276.17	26,900	-1,200
WTR YR 1974	-	-	-9,000	-	-	-8,700	-	-	-29,600	-	-	-900

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 these events. Those measurements and other collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations and the second is a table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. These measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of nearby streams where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years of operation at the same, or practically the same site.

Discharge measurements made at low-flow partial-record stations during water year 1974, in South Atlantic Slope basins

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements Date	Measurements Discharge (cfs)
		Cape Fear River basin				
02102179	Whiteoak Creek near Friendship, N. C.	Lat 35°39'07", long 78°53'17", Wake County, at bridge on Secondary Road 1152, 1.3 miles downstream from Little Branch, and 2.9 miles south of Friendship.	a14	1972-74	10-11-73 4-26-74	0 2.1
02102180	Whiteoak Creek near Holly Springs, N. C.	Lat 35°37'20", long 78°55'00", Wake County, at bridge on Secondary Road 1127, 2 miles upstream from Little Whiteoak Creek, and 5 miles west of Holly Springs.	a21	1963-68 1972-74	10-11-73 4-26-74	0.07 4.6
02102182	Little Whiteoak Creek near Bonsal, N. C.	Lat 35°37'30", long 78°55'47", Wake County, at bridge on Secondary Road 1128, 0.6 mile upstream from Thomas Creek, and 2.8 miles southeast of Bonsal.	a6.9	1972-74	10-11-73 4-29-74	0 .26
02102184	Whiteoak Creek near Corinth, N. C.	Lat 35°34'25", long 78°58'13", Chatham County, at bridge on Secondary Road 1914, 0.5 mile upstream from Cary Creek, and 1.8 miles northeast of Corinth.	a46	1972-74	10-11-73 4-26-74	0 7.85
02102185	Cary Creek at Holleman's Crossroads, N. C.	Lat 35°36'35", long 78°54'11", Wake County, at bridge on Secondary Road 1127, 0.1 mile downstream from unnamed tributary, and 0.4 mile southeast of Holloman's Crossroads.	a3.8	1972-74	10-11-73 4-26-74	.08 .75
02102186	Cary Creek tributary near Burt, N. C.	Lat 35°35'18", long 78°54'24", Wake County, 0.2 mile upstream from bridge on Secondary Road 1116, 0.2 mile southwest of Burt, and 1.6 miles upstream from mouth.	a10	1972-74	10-11-73 4-29-74	1.71 5.6
02102187	Cary Creek tributary at Burt, N. C.	Lat 35°35'23", long 78°54'32", Wake County, 0.2 mile downstream from bridge on Secondary Road 1116, 0.5 mile west of Burt, and 1.2 miles upstream from mouth.	a10	1972-74	10-11-73 4-29-74	1.13 6.0
02102188	Cary Creek near Corinth, N. C.	Lat 35°34'30", long 78°57'49", Chatham County, 0.5 mile upstream from mouth, 0.9 mile downstream from unnamed tributary, and 2.1 miles northeast of Corinth.	a22	1972-74	10-11-73 4-26-74	1.59 10.0
0210218920	Buckhorn Creek tributary No. 1 near Corinth, N. C.	Lat 35°38'44", long 78°58'01", Chatham County, at mouth, and 2.1 miles east of Corinth.	a3.6	1973-74	10-11-73 4-26-74	.50 2.09
0210219050	Buckhorn Creek tributary No. 2 near Corinth, N. C.	Lat 35°38'10", long 78°58'16", Chatham County, at mouth, and 1.7 miles east-southeast of Corinth.	a.9	1973-74	10-11-73 4-26-74	0 .01
		Santee River basin				
02149540	Pulliam Creek near Tryon, N. C.	Lat 35°16'54", long 82°20'15", Polk County, on right bank at end of foot trail, 135 ft upstream from mouth, 1 mile downstream from bridge on Secondary Road 1154, and 7.5 miles northwest of Tryon.	2.27	1972-74	10- 3-73 12- 5-73 1-17-74 2-27-74 4- 3-74 5-22-74 7-11-74 8-15-74	4.06 28.0 5.53 6.50 6.53 6.41 4.37 3.21

a Approximately.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1974, in South Atlantic Slope basins

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum: Date	Annual maximum: Gage height (feet)	Annual maximum: Discharge (cfs)
		Roanoke River basin					
02075230	South Country Line Creek near Hightowers, N. C.	Lat 36°19'29", long 79°18'20", Caswell County, at bridge on Secondary Road 1759, 1.8 miles upstream from Penson Creek, and 3.5 miles west of Hightowers.	a7.1	1954-74	1967, 12-15-72 9- 6-74	(d) 18.56 18.62	f 460 f1,200 1,200
		Pamlico River basin					
02081710	Long Creek at Kittrell, N. C.	Lat 36°13'30", long 78°27'15", Vance County, at bridge on Secondary Road 1105, 0.8 mile west of Kittrell, and 2.5 miles upstream from mouth.	a7.5	1954-74	9- 7-74	14.62	†
02082540	Wildcat Branch near Mapleville, N. C.	Lat 36°03'29", long 78°08'39", Franklin County, at culvert on Secondary Road 1616, 1.8 miles upstream from mouth, and 5 miles east of Mapleville.	a.4	1953-74	8- 7-74	21.02	†
02082835	Fishing Creek near Warrenton, N. C.	Lat 36°23'00", long 78°10'54", Warren County, at bridge on Secondary Road 1001, 0.5 mile downstream from Phoebes Creek, and 2 miles southwest of Warrenton.	a45	1954-74	8- 7-74	17.39	†
02084240	Collie Swamp near Everetts, N. C.	Lat 35°49'34", long 77°12'03", Martin County, at bridge on U.S. Highway 64, 1.6 miles west of Everetts, and 4.8 miles upstream from mouth.	a29	1953-74	3-31-74	20.31	620
		Neuse River basin					
02085190	North Fork Little River tributary near Rougemont, N. C.	Lat 36°11'41", long 79°00'52", Orange County, at culvert on State Highway 57, 1.5 miles upstream from mouth, and 6 miles west of Rougemont.	1.02	1954-74	9- 6-74	21.35	†
02091810	Halfmoon Creek near Fort Barnwell, N. C.	Lat 35°17'58", long 77°21'14", Craven County, at culvert on State Highway 55, 1.5 miles northwest of Fort Barnwell, and 2.3 miles upstream from mouth.	a4.9	1953-74	6- 3-74	18.36	†
		Cape Fear River basin					
02097010	Robeson Creek near Pittsboro, N. C.	Lat 35°43'29", long 79°12'33", Chatham County, at culvert 500 ft upstream from culvert on U. S. Highway 64, and 1.8 miles west of Pittsboro.	a1.1	1954-74	1-25-74	22.76	97
02107620	Mathews Creek near Pink Hill, N. C.	Lat 35°05'49", long 77°49'10", Duplin County, at bridge on State Highway 111, 1 mile upstream from mouth, and 5.5 miles northwest of Pink Hill.	8.61	1953-74	8-10-74	19.93	†
		Pee Dee River basin					
02112247	Elkin River at Elkin, N. C.	Lat 36°15'12", long 80°51'46", Surry County, at bridge on State Highway 268, 1 mile upstream from mouth, and 1 mile west of Elkin.	a35	1971-74	9-20-71 4- 4-74	*f15.03 9.46	† †
02115765	Silas Creek tributary at Pine Valley Road, Winston-Salem, N. C.	Lat 36°06'19", long 80°17'52", Forsyth County, at culvert on Pine Valley Road, 0.7 mile upstream from mouth, and 3 miles northwest of post office in Winston-Salem.	.89	1968-74	9- 6-74	2.72	122
02115839	Brushy Creek tributary 2 at U. S. 311, Winston-Salem, N. C.	Lat 36°06'10", long 80°13'21", Forsyth County, at culvert on U. S. Highway 311, 0.4 mile upstream from mouth, and 1.3 miles northeast of city hall in Winston-Salem.	.55	1969-74	1-21-74	2.56	221
02115843	Tar Branch at Walnut Street, Winston-Salem, N. C.	Lat 36°05'02", long 80°14'34", Forsyth County, at culvert on Walnut Street, 0.3 mile upstream from mouth, and 0.8 mile south of city hall in Winston-Salem.	.59	1968-74	5-18-74	4.93	342
02115845	Peters Creek at Winston-Salem, N. C.	Lat 36°04'56", long 80°15'30", Forsyth County, at downstream side of culvert off Peters Creek Parkway, 0.1 mile downstream from Academy Street and 1.4 mile southwest of post office in Winston-Salem.	5.30	1965-74	12-21-73	19.07	1,900
02117410	McClelland Creek near Statesville, N. C.	Lat 35°57'04", long 80°56'46", Iredell County, at culvert on State Highway 115, 2.2 miles upstream from mouth, and 12 miles northwest of Statesville.	a1.6	1954-74	6-16-74	16.74	100

See footnotes at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1974, in South Atlantic Slope basins--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (cfs)
		Santee River basin					
02139610	Huntin Creek at Morganton, N. C.	Lat 35°44'17", long 81°40'45", Burke County, upstream from bridge on College Street, 0.6 mile southeast of courthouse in Morganton, and 1.6 miles upstream from East Prong.	8.26	1967-74	4-14-74	x6.85	†
02141130	Zacks Fork Creek near Lenoir, N. C.	Lat 35°55'32", long 81°31'13", Caldwell County, at bridge on Secondary Road 1563, 1.3 miles northeast of courthouse in Lenoir, and 1.6 miles upstream from mouth.	9.14	1967-74	12-26-73	19.98	350
02141184	Blair Fork at Lenoir, N. C.	Lat 35°55'39", long 81°32'39", Caldwell County, at bridge on old North Main Street, 0.1 mile downstream from Long Branch, and 0.9 mile north of courthouse in Lenoir.	6.91	1967-74	4-14-74	17.92	445
02152500	First Broad River near Lawndale, N. C.	Lat 35°22'53", long 81°32'50", Cleveland County, on right bank at village of Double Shoals, 0.4 mile upstream from Shoal Rock Creek, 500 ft downstream from bridge on Secondary Road 1809, and 2.5 miles southeast of Lawndale.	198	‡1940-71, 1972-74†	4- 5-74	9.08	4,550

† Not determined
‡ Operated as a continuous record gaging station.
* From floodmark 290 ft downstream from bridge.
x Affected by backwater from construction downstream.
a Approximately.
d Peak stage did not reach bottom of gage.
f Not previously published.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*).

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Chowan River basin				
Meherrin River 02053056	Chowan River	Lat 36°32'40", long 77°18'00", Northampton County, at North Carolina-Virginia State line, downstream from Seaboard Coast Line Railroad, and 2.7 miles northeast of Margaretsville.	a1,070		8-16-73	f698
Meherrin River 02053073	Chowan River	Lat 36°32'20", long 77°11'20", Northampton County, at bridge on State Highway 35, 1.2 miles upstream from Tarrara Creek, and 1.8 miles north of Severn.	a1,120		8-15-73	f374
Kirby's Creek tributary 0205309050	Kirby's Creek	Lat 36°30'57", long 77°11'19", Northampton County, at culvert on Secondary Road 1334, 0.1 mile north-northwest of Severn, and 0.3 mile upstream from mouth.	a.4		8-15-73	f.42
Fort Branch 0205347488	Ahoskie Creek	Lat 36°16'25", long 77°06'11", Hertford County, at bridge on Secondary Road 1112, 0.5 mile upstream from mouth, and 6.8 miles west of Ahoskie.	a11		8-16-73	f5.18
Ahoskie Creek 02053520	Wiccacon River	Lat 36°15'53", long 76°58'54", Hertford County, at bridge on Secondary Road 1101, 1 mile downstream from Seaboard Coast Line Railroad bridge, and 1.8 miles south of Ahoskie.	a65		8-16-73	f18.0
		Roanoke River basin				
Little Dan River 02068012	Dan River	Lat 36°22'56", long 80°22'58", Stokes County, at bridge on dirt road off Secondary Road 1422 at North Carolina-Virginia State line, 1 mile upstream from mouth, and 2.5 miles southwest of Asbury.	a2.8	1973	4-22-74	60.7
Dan River 02068015	Roanoke River	Lat 36°31'33", long 80°22'16", Stokes County, at bridge on Secondary Road 1432, 2.4 miles downstream from Little Dan River, and 2.8 miles east of Asbury.	a110	1970, 1973	4-22-74 6-19-74	275 135
Dan River 02068762	Roanoke River	Lat 36°19'38", long 80°05'47", Stokes County, at bridge on U. S. Highway 311, 2 miles upstream from Town Fork Creek, and 3.2 miles northeast of Walnut Cove.	a350	1970, 1973	4-23-74 6-19-74	697 291
Voss Creek 02068904	Town Fork	Lat 35°17'12", long 80°11'18", Stokes County, at bridge on Secondary Road 1941, 0.5 mile upstream from mouth, and 2.9 miles southwest of Walnut Cove.	a4.6	1970, 1973	4-23-74	12.0
Town Fork 02068980	Dan River	Lat 36°17'35", long 80°08'36", Stokes County, at bridge on U. S. Highway 311, at Walnut Cove, and 4 miles upstream from mouth.	a110	1925, 1949-57, 1959, 1961-63, 1966, 1970	9-27-73 4-22-74 6-19-74	f37.9 138 73.1
Dan River 02069222	Roanoke River	Lat 36°22'20", long 80°59'38", Rockingham County, at bridge on Secondary Road 1138, 1 mile upstream from Beaver Island, and 1.8 miles southwest of Madison.	a600	1970	7-25-73 8-30-73 9-26-73	f403 f339 f374
Boaz Creek 02070558	Mayo River	Lat 36°27'51", long 79°55'13", Rockingham County, at bridge on Secondary Road 1371, 1 mile west of Stoneville, and 1 mile upstream from mouth.	a2.4	1970	7-24-73 8-30-73 9-26-73	f1.06 f1.23 f.98
Boaz Creek 02070559	Mayo River	Lat 36°27'26", long 79°55'45", Rockingham County, at culvert on U. S. Highway 220, 0.4 mile upstream from mouth, and 1.3 mile southwest of Stoneville.	a3.0	1970	7-25-73 8-30-73 9-26-73	f1.38 f1.27 f*1.06
Mayo River tributary 02070576	Mayo River	Lat 36°27'06", long 79°54'06", Rockingham County, at culvert on Secondary Road 2154, 2.4 miles upstream from mouth, and 4.6 miles northeast of Mayodan.	a1.4	1970	7-24-73 8-30-73 9-26-73	f.60 f.48 f*.30
Mayo River tributary 02070578	Mayo River	Lat 36°26'24", long 79°55'52", Rockingham County, at bridge on Secondary Road 2206, 0.5 mile upstream from mouth, and 3 miles northeast of Mayodan.	a4.1	1970	7-24-73 8-30-73 4-23-74	f1.44 f.86 6.08
Mayo River 02070598	Dan River	Lat 36°24'27", long 79°58'04", Rockingham County, at bridge on Secondary Road 2138, 0.5 mile southeast of Mayodan, and 0.8 mile downstream from Mayodan dam.	a310	1970	7-25-73 8-30-73	f320 f246
Buffalo Creek Branch 02071063	Buffalo Creek	Lat 36°29'08", long 79°52'16", Rockingham County, at bridge on Secondary Road 1515, 1.5 miles upstream from mouth, and 2.5 miles northeast of Stoneville.	a3.3	1963, 1970	7-24-73 8-30-73 9-26-73	f1.23 f.94 f.88

a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Roanoke River basin--Continued				
Dan River 02074018	Roanoke River	Lat 36°28'18", long 79°44'52", Rockingham County, at bridge on Secondary Road 1964, 0.8 mile downstream from Smith River, and 2 miles southeast of Eden.	a1,700	1970	7-24-73 8-30-73 4-23-74	f2,370 f1,450 2,920
Dan River 02074082	Roanoke River	Lat 36°29'51", long 79°40'54", Rockingham County, at bridge on State Highway 700, 1.2 miles downstream from Town Creek, and 1.2 miles southeast of Eden.	a1,720	1969-70	7-24-73 8-30-73	f2,300 f1,400
Dan River 02074218	Roanoke River	Lat 36°32'29", long 79°36'21", Rockingham County, at bridge on Secondary Road 1761, at North Carolina-Virginia State line, 2.2 miles upstream from Whiteoak Creek, and 3 miles northwest of Mayfield.	a1,780	1969-72	10- 3-73 11- 6-73 12-12-73 4-23-74 5-31-74 6-20-74	3,160 *1,230 2,080 2,970 2,580 1,520
Wolf Island Creek 02074282	Dan River	Lat 36°23'30", long 79°40'08", Rockingham County, at bridge on Secondary Road 1998, 1.5 miles northwest of Reidsville, and 9 mile upstream from Quagna Creek.	a3.8	1970	7-23-73 8-30-73 4-24-74	f1.24 f1.74 2.96
Wolf Island Creek 02074292	Dan River	Lat 36°23'29", long 79°40'08", Rockingham County, at bridge on State Highway 14, 2 miles north of Reidsville, and 7.2 miles upstream from Quagna Creek.	a7.4	1970	7-23-73 8-30-73 9-26-73 4-24-74 6-17-74	f3.42 f3.99 f*3.08 6.14 3.46
Wolf Island Creek 02074360	Dan River	Lat 36°31'54", long 79°30'07", Caswell County, at bridge on State Highway 700, 0.5 mile upstream from mouth, and 2.5 miles northwest of Pelham.	a69	1954, 1956-64, 1966, 1968, 1970	4-24-74 6-20-74	g57.5 g26.5
Dan River 02075198	Roanoke River	Lat 36°32'27", long 79°12'53", Caswell County, at bridge on State Highway 62, at Milton, 0.5 mile upstream from Country Line Creek.	2,322	1970	4-25-74	2,840
Country Line Creek 0207520780	Dan River	Lat 36°18'46", long 79°30'48", Caswell County, at bridge on Secondary Road 1146, 1.2 miles south-southwest of Ashland.	a6.7		4-24-74 6-10-74	5.23 3.60
Country Line Creek 02075217	Dan River	Lat 36°23'25", long 79°21'54", Caswell County, at bridge on Secondary Road 1156, 1.8 miles southwest of Yanceyville, and 3.5 miles upstream from South Country Line Creek.	44.2	1970	7-26-73 8-30-73 4-24-74	f19.3 f10.2 29.8
Country Line Creek 02075220	Dan River	Lat 36°23'30", long 79°20'09", Caswell County, at bridge on State Highway 62, 1 mile south of Yanceyville, and 1.5 miles upstream from South Country Line Creek.	a48	1954, 1956-62, 1966, 1970	7-26-73 8-30-73	f15.3 f12.6
Country Line Creek 02075270	Dan River	Lat 36°29'54", long 79°12'25", Caswell County, at bridge on Secondary Road 1554, 3 miles west of Semora, and 4.2 miles upstream from mouth.	a120	1954, 1956-63, 1970	7-27-73 10- 1-73 4-24-74	f18.1 77.8 71.9
Country Line Creek 0207527050	Dan River	Lat 36°32'16", long 79°12'04", Caswell County, at bridge on State Highway 57, 0.4 mile east-southeast of Milton, and 0.8 mile upstream from mouth.	a130		4-24-74 6-10-74	81.7 48.8
Hyco Creek 0207718130	Hyco River	Lat 36°17'24", long 79°15'43", Caswell County, at bridge on Secondary Road 1767, 2.8 miles northeast of Baynes, and 3.2 miles upstream from confluence of Lynch Creek.	a5.1		12-11-73 4-24-74 6-10-74	1.81 2.30 2.43
Marlowe Creek 02077338	Storys Creek	Lat 36°26'33", long 78°58'43", Person County, at bridge on Secondary Road 1351, 1.2 miles upstream from Mitchell Creek, and 1.8 miles Northwest of Longhurst.	11.2	1970	8-31-73	f*2.12
Marlowe Creek 02077348	Storys Creek	Lat 36°29'05", long 78°58'47", Person County, at bridge on Secondary Road 1322 downstream from Fishing Branch, and 1.2 miles west of Woodsdale.	21.1	1970	8-31-73 4-25-74 6- 5-74	f*7.49 15.2 13.1
Hyco River 02077368	Dan River	Lat 36°37'36", long 78°57'52", Person County, at bridge on Secondary Road 1326 at North Carolina-Virginia State line, 1.5 miles downstream from Storys Creek, and 4 miles north of Woodsdale.	a260	1970	8-31-73 12-11-73	f135 41.2
Grassy Creek 0207901030	Roanoke River	Lat 36°25'35", long 78°46'10", Granville County, at bridge on Secondary Road 1325, 2.9 miles west-southwest of Oak Hill, and 3.7 miles upstream from Bearskin Creek.	a2.0		12-12-73 4- 2-74 6-13-74	*.29 2.26 *.20

a Approximately.
f Not previously published.
g Also Partial-record station.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Discharge (cfs)
		Roanoke River basin--Continued				
Grassy Creek 0207920210	Roanoke River	Lat 36°32'02", long 78°35'53", Granville County, at bridge on Secondary Road 1443, 0.5 mile upstream from Johnson Creek, and 4.2 miles northwest of Bullock.	a100		12-12-73 4- 2-74 6-13-74	0 2.32 *.19
Island Creek 0207920940	Roanoke River	Lat 36°26'10", long 78°32'37", Granville County, at bridge on Secondary Road 1430, 0.3 mile downstream from Howlett Creek, and 1.7 miles southeast of Stovall.	a13		12-12-73 4- 2-74 6-13-74	*2.30 16.0 *2.95
Island Creek 0207923905	Roanoke River	Lat 36°32'01", long 78°27'34", Vance County, at bridge on Secondary Road 1350, 3.2 miles upstream from mouth, and 3.4 miles northwest of Townville.	a61		12-14-73 4-26-74	*43 26.8
Nutbush Creek 02079259	Roanoke River	Lat 36°20'26", long 78°25'12", Vance County, at bridge on Secondary Road 1310, 1.4 miles northwest of Henderson, and 4.4 miles upstream from Crooked Run Creek.	a2.0	1970	8- 1-73 8-28-73 12-14-73 4-26-74	f1.50 f *1.14 *1.00 1.24
Nutbush Creek 02079264	Roanoke River	Lat 36°22'10", long 78°24'31", Vance County, at bridge on Secondary Road 1317, 0.1 mile upstream from Buggs Island Reservoir, and 3 miles north of Henderson.	a3.9	1970	8- 1-73 8-28-73 12-14-73 4-26-74	f6.05 f*5.72 7.28 5.32
Smith Creek 0207966152	Roanoke River	Lat 36°27'12", long 78°15'51", Warren County, at culvert on Secondary Road 1224, 2 miles northwest of Ridgeway, and 4.2 miles upstream from Ellington Branch.	a5.7		8-29-73 4- 2-74 4-29-74	f1.44 2.85 1.42
Terrapin Creek 02079712	Blue Mud Creek	Lat 36°29'03", long 78°12'53", Warren County, at bridge on Secondary Road 1213, 0.9 mile east of Oine, and 0.9 mile upstream from mouth.	a3.0	1970	4-29-74	2.35
Smith Creek 02079717	Roanoke River	Lat 36°32'27", long 78°11'43", Warren County, at bridge on U.S. Highway 1, 0.3 mile downstream from Blue Mud Creek, and 2.1 miles west of Paschall.	a53	1954, 1961-62, 1966	8-29-73 4- 2-74 4-29-74	f35.2 58.0 26.4
Quankey Creek 02080742	Roanoke River	Lat 36°19'05", long 77°35'09", Halifax County, at bridge on State Highway 125, 0.7 mile southwest of Halifax, and 1.1 miles upstream from mouth.	a33	1954, 1961-62, 1969-70	8- 7-73 8-15-73 8-27-74	f19.7 f*10.4 11.7
Quankey Creek 02080743	Roanoke River	Lat 36°19'37", long 77°34'53", Halifax County, at Bluff along telephone right-of-way near the Quankey Creek Club, 0.5 mile southeast of Halifax, and 0.8 mile upstream from mouth.	a33	1970	8- 7-73 8-15-73 12-10-73	f19.7 f9.23 41.5
Lilly Pond Creek 02080881	Gumberry Swamp	Lat 36°22'23", long 77°26'00", Northampton County, 0.6 mile east on dirt road off Secondary Road 1108 at Lagoon site, 1.4 mile southwest of Jackson, and 3.5 miles upstream from mouth.	a1.6	1970	8- 8-73 12-12-73	f*.21 .05
Bridgers Creek 02080948	Roanoke River	Lat 36°15'27", long 77°20'15", Northampton County, at bridge on Secondary Road 1108, 3 miles upstream and 3 miles southwest of Rich Square.	a5.0	1970	8- 8-73 8-15-73	f*1.95 f 0
Cashie River 02081096	Roanoke River	Lat 36°08'43", long 77°09'54", Bertie County, at bridges on State Highway 11, 1.5 miles northeast of Lewiston, and 2.5 miles upstream from Wahton Swamp.	a20	1961	12-19-73 8-28-74	32.0 0
Cashie River 0208112155	Roanoke River	Lat 35°59'40", long 76°56'34", Bertie County, at bridge on U.S. Highway 17 Bypass, 0.5 mile southeast of Windsor, and 2.2 miles downstream from Hoggard Mill Creek.	a178	1970	8-14-73 12-19-73	f94.1 .02
		Pamlico River basin				
Tar River 02081182	Pamlico River	Lat 36°23'19", long 78°50'41", Person County, at bridge on Secondary Road 1536, 2.4 miles east of Allensville, and 8.7 miles upstream from Cub Creek.	4.57	1966, 1968	12-11-73 4-25-74 6- 5-74	*.59 .56 .56
Fishing Creek tributary 02081506	Fishing Creek	Lat 36°17'45", long 78°35'05", Granville County, upstream from sewage treatment plant, 1 mile south of Oxford, and 2.4 miles upstream from mouth.	3.09	1958, 1963, 1966, 1970, 1973	10-11-73 4- 2-74 6-17-74	.31 2.86 1.31
Jordan Creek 02081526	Coon Creek	Lat 36°20'09", long 78°35'38", Granville County, at culvert on U.S. Highway 15, 2.4 miles southeast of Kinton Forks, and 2.6 miles upstream from mouth.	6.52	1970, 1973	10-11-73 4- 2-74 6-13-74	1.21 8.10 *1.65
Jordan Creek 02081529	Coon Creek	Lat 36°19'23", long 78°34'35", Granville County, at bridge on Secondary Road 1522, 0.9 mile southwest of Horner, and 1.1 miles upstream from mouth.	9.23	1970, 1973	10-11-73 4- 2-74 6-13-74	1.66 10.2 *2.82

a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Sloοe basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Pamlico River basin--Continued				
Tar River 02081552	Pamlico River	Lat 36°11'25", long 78°33'33", Granville County, at bridge on Secondary Road 1622, 0.5 mile upstream from Sand Creek, and 3.5 miles north of Wilton.	215	1970, 1973	10-11-73	17.6
Ruin Creek 0208167433	Tabbs Creek	Lat 36°20'03", long 78°27'50", Vance County, at U.S. Highway 158 Bypass, 1.1 miles upstream from confluence of Red Bud Creek, and 3.6 miles west of Henderson.	a3.2		4-29-74	.93
Ruin Creek 02081676	Tabbs Creek	Lat 36°18'16", long 78°27'38", Vance County, at bridge on U.S. Highway 158-A, 0.2 mile upstream from Red Bud Creek, and 3.5 miles southeast of Henderson.	a7.9	1961, 1966, 1969-70, 1973	12-13-73 4-26-74	*1.84 2.48
Red Bud Creek 02081677	Ruin Creek	Lat 35°18'08", long 78°27'15", Vance County, at bridge on Secondary Road 1120, 0.3 mile upstream from mouth, and 3.1 miles southwest of Henderson.	5.7	1970, 1973	12-13-73 4-26-74	*6.17 2.76
Ruin Creek 02081680	Tabbs Creek	Lat 36°15'14", long 78°29'06", Vance County, at bridge on Secondary Road 1107, 1.8 miles upstream from mouth, and 2.2 miles northwest of Kittrell.	27	1959-64, 1969, 1973	12-13-73 4-26-74	*8.14 12.8
Brandy Creek 0208177280	Cedar Creek	Lat 36°02'35", long 78°29'14", Franklin County, at bridge on U.S. Highway 1A, 1.3 miles northwest of Youngsville, and 3.3 miles upstream from mouth.	a.4	1973	10- 3-73 4- 3-74	*.54 1.24
Brandy Creek 0208177290	Cedar Creek	Lat 36°02'32", long 78°28'36", Franklin County, at Secondary Road 1132, 1.2 miles northeast of Youngsville, and 1.3 miles upstream from mouth.	a.8	1973	10- 3-73 4- 3-74	0 2.00
Brandy Creek tributary 0208177295	Brandy Creek	Lat 36°03'10", long 78°28'25", Franklin County, at Secondary Road 1132, 0.8 mile upstream from mouth, and 2.1 miles north of Youngsville.	a.5	1973	10- 3-73 4- 3-74	*.33 .58
Brandy Creek 02081773	Cedar Creek	Lat 36°03'20", long 78°27'20", Franklin County, at bridge on Secondary Road 1125, 1.5 miles upstream from mouth, and 3 miles south of Franklinton.	a5.2	1955, 1963-64, 1968, 1973	10- 2-73 4- 3-74	*2.67 5.93
Cedar Creek 02081775	Tar River	Lat 36°03'57", long 78°25'52", Franklin County, at bridge on Secondary Road 1116, 0.2 mile downstream from Brandy Creek, and 2.8 miles southeast of Franklinton.	a20	1970, 1973	10- 3-73 4- 3-74	*5.51 22.1
Franklinton Branch 0208177815	Cedar Creek	Lat 36°04'25", long 78°25'42", Franklin County, at Secondary Road 1118, 0.8 mile upstream from mouth, and 2.5 miles southeast of Franklinton.	a2.6	1973	10- 2-73 4- 3-74	*1.71 2.98
Tar River 02081854	Pamlico River	Lat 36°00'08", long 78°14'36", Franklin County, at bridge on Secondary Road 1001, 1.9 miles downstream from Cedar Creek, and 3 miles north of Bunn.	a540	1970, 1973	10- 2-73	*97.9
Tar River 02081933	Pamlico River	Lat 35°44'48", long 78°08'54", Nash County, at bridge on U.S. Highway 64, 0.5 mile downstream from Turkey Creek, and 2.3 miles southwest of Spring Hope.	a660		12-19-73 4-23-74 7-15-74	991 370 102
Hendricks Creek 02082052	Sapony Creek	Lat 35°56'20", long 78°06'20", Nash County, at bridge on Secondary Road 1002, 0.6 mile southeast of Spring Hope, and 1.6 miles upstream from mouth.	a.4	1970, 1973	12-19-73 4-23-74	*.11 .26
Sapony Creek 02082152	Tar River	Lat 35°55'28", long 78°02'51", Nash County, at bridge on Secondary Road 1145, 3.9 miles southeast of Spring Hope, and 14.4 miles upstream from mouth.	a12	1958-59, 1961-62, 1969-70, 1973	12-19-73	1.77
Maple Creek 02082516	Tar River	Lat 35°56'40", long 77°50'10", Nash County, at bridge on Secondary Road 1713, 1 mile upstream from mouth, and 2.2 miles west of Rocky Mount.	a12	1954, 1961-62, 1970, 1973	12-20-73	*3.6
Maple Creek 02082517	Tar River	Lat 35°56'52", long 77°49'46", Nash County, at bridge on U.S. Highway 301, 0.2 mile upstream from mouth, and 1.9 miles west of Rocky Mount.	a12	1970, 1973	12-20-73	*2.55
Stony Creek 02082565	Tar River	Lat 35°58'53", long 77°56'05", Nash County, at bridge on Secondary Road 1600, 1.7 miles east of Nashville, and 2.1 miles downstream from Katy Branch.	a60	1970, 1973	12-19-73	*45.7
Pig Basket Creek 0208256575	Stony Creek	Lat 36°03'46", long 78°00'22", Nash County, at Secondary Road 1411, 1.7 miles east of Matthews Crossroads, and 7.8 miles upstream from mouth.	a1.9	1973	12-19-73 4-23-74 7-15-74	*.91 1.21 .17

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Pamlico River basin--Continued				
Pig Basket Creek tributary 0208256590	Pig Basket Creek	Lat 36°03'43", long 77°59'22", Nash County, at Secondary Road 1411, 0.6 mile east of Dukes, and 0.8 mile upstream from mouth.	a.6	1973	12-19-73	*0.17
Pig Basket Creek 02082566	Stony Creek	Lat 36°02'55", long 77°59'58", Nash County, at bridge on Secondary Road 1425, 1.5 miles southwest of Dukes, and 8.8 miles upstream from mouth.	a6.7	1966, 1973	12-19-73	*.74
Beech Branch 0208261320	Tar River	Lat 36°02'18", long 77°47'54", Nash County, at Secondary Road 1524, 1.1 miles east of Drake, and 8.4 miles upstream from mouth.	a1.7	1973	12-20-73 7-15-74	*.11 .01
Beech Branch 0208261330	Tar River	Lat 36°01'52", long 77°46'01", Nash County, at U.S. Highway 301, 1.5 miles southwest of Battleboro, and 6.6 miles upstream from mouth.	a5.4	1973	12-20-73 4-23-74	*.02 1.48
Beech Branch 02082616	Tar River	Lat 36°02'00", long 77°45'02", Edgecombe County, at bridge on Secondary Road 1400, 1.1 miles south of Battleboro, and 6.1 miles upstream from mouth.	7.69	1958-59, 1970, 1973	12-12-73	2.57
Tar River 02082626	Pamlico River	Lat 35°56'30", long 77°39'10", Edgecombe County, at bridge on Secondary Road 1252, 0.9 mile northwest of Heartease, and 2.4 miles downstream from Beech Branch.	a980	1970, 1973	12-12-73	915
Sandy Creek tributary 02082643	Sandy Creek	Lat 36°19'08", long 78°22'18", Vance County, at Fox Pond Dam, 0.5 mile upstream from mouth, and 2 miles east of Henderson.	a3.5		12-14-73	4.81
White Oak Swamp 02082804	Swift Creek	Lat 36°05'41", long 77°40'33", Edgecombe County, at bridge on Secondary Road 1409, 2.3 miles southeast of Whitakers, and 9 miles upstream from mouth.	3.61	1970, 1973	12-12-73 4-30-74 7-14-74	.14 .32 0
Swift Creek 02082812	Tar River	Lat 35°58'04", long 77°35'13", Edgecombe County, at bridge on Secondary Road 1253, 1.5 miles upstream from mouth, and 1.5 miles south of Leggett.	a270	1955, 1958, 1964	12-11-73 4-11-74 4-30-74	55.6 295 109
Tar River 02082823	Pamlico River	Lat 35°55'40", long 77°33'00", Edgecombe County, at bridge on State Highway 44, 2 miles northwest of Tarboro, and 3.2 miles upstream from Fishing Creek.	a1,280	1970, 1973	12-11-73 4-11-74	582 1,310
Fishing Creek 02082824	Phoebes Creek	Lat 36°23'06", long 78°19'05", Vance County, at Secondary Road 1501, 1.1 miles south-southwest of Middleburg, and 5.7 miles from mouth.	a3.3		12-14-73 4- 2-74 4-26-74	*224 4.79 2.62
Fishing Creek 02082835	Tar River	Lat 36°23'00", long 78°10'54", Warren County, at bridge on Secondary Road 1001, 0.5 mile downstream from Phoebes Creek, and 2 miles southwest of Warrenton.	a45	1949-56, 1958, 1961-66, 1969-70, 1973	4-29-74	28.9
Butterwood Creek 02082934	Bear Swamp	Lat 36°25'54", long 77°53'28", Halifax County, 1 mile south of Littleton, and 7.6 miles upstream from mouth.	a.5	1970, 1973	12-10-73 8-27-74	.12 .16
Butterwood Creek 02082937	Bear Swamp	Lat 36°24'19", long 77°52'56", Halifax County, at bridge on Secondary Road 1304, 4 miles south of Littleton, and 6.2 miles upstream from mouth.	a2.5	1958, 1969-70, 1973	4-29-73 8-27-74	2.15 1.88
Burnt Coat Swamp 02083168	Beech Swamp	Lat 36°11'43", long 77°40'32", Halifax County, at bridge on Secondary Road 1001, 1.2 miles north of Enfield, and 2 miles upstream from mouth.	a35	1958-59, 1962, 1970, 1973	12-10-73	0
Fishing Creek 02083390	Tar River	Lat 35°58'25", long 77°32'29", Edgecombe County, at bridge on Secondary Road 1500, 2.5 miles southeast of Leggett, and 3.5 miles upstream from Deep Creek.	a760		12-11-73 4-11-74 4-30-74	405 863 843
Canal Creek 02083419	Deep Creek	Lat 36°08'14", long 77°25'47", Halifax County, at bridge on State Highway 125, 0.6 mile west of Scotland Neck, and 2 miles upstream from mouth.	a1.3	1954, 1958, 1963, 1970, 1974	12-12-73 8-27-74	.20 .10
Deep Creek 02083424	Fishing Creek	Lat 36°06'24", long 77°26'14", Halifax County, 0.3 miles downstream from Candy Creek, and 2 miles southwest of Scotland Neck.	a34	1970, 1973	12-12-73 8-27-74	1.40 1.51
Deep Creek 02083432	Fishing Creek	Lat 35°57'20", long 77°30'10", Edgecombe County, at bridge on U.S. Highway 258, 1 mile upstream from mouth, and 4 miles northeast of Tarboro.	a94	1954	12-11-73 4-11-74 4-30-74 7-17-74	15.5 208 14.3 .92

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Pamlico River basin--Continued				
Town Creek 02083523	Tar River	Lat 35°49'10", long 77°51'30", Wilson County, at bridge on U.S. Highway 301, 0.8 mile north of Elm City, and 5 miles upstream from White Swamp.	a5.2	1958-59, 1970, 1973	4- 4-74	7.84
Town Creek 02083537	Tar River	Lat 35°48'40", long 77°50'00", Wilson County, at bridge on Secondary Road 1416, 1.7 miles east of Elm City, and 4.5 miles upstream from White Swamp.	a7.4	1970, 1973	4- 4-74	9.54
Town Creek tributary 02083628	Town Creek	Lat 35°47'50", long 77°38'40", Edgecombe County, at culvert on Secondary Road 1202, 0.6 mile northwest of Pinetops, and 1.5 miles upstream from mouth.	a.45	1970, 1973	12-12-73 7-17-74	45.0 10.6
Bynums Mill Run 02083636	Bynums Mill Creek	Lat 35°44'40", long 77°40'00", Edgecombe County, at bridge on Secondary Road 1109, 0.5 mile south of Macclesfield, and 1.4 miles upstream from mouth.	a1.4	1970, 1973	12-12-73 4-30-74 7-16-74	.04 0 0
Tar River 02083644	Pamlico River	Lat 35°47'30", long 77°33'00", Edgecombe County, at bridge on State Highway 42, just downstream from Town Creek, and 0.4 mile northeast of Old Sparta.	a2,420	1970, 1973	12-11-73	750
Crisp Creek 0208376820	Conetoe Creek	Lat 35°49'38", long 77°24'40", Pitt County, at mouth, and 2.7 miles northwest of Bethel.	a22		12-19-73	47.2
Grindle Creek 02084188	Tar River	Lat 35°47'46", long 77°22'27", Pitt County, at bridge on State Highway 11, 0.5 mile downstream from unnamed tributary, and 0.6 mile south of Bethel.	a11	1958, 1969, 1970, 1973	12-19-73 8-28-74	7.93 23.6
Grindle Creek 02084196	Tar River	Lat 35°45'42", long 77°22'52", Pitt County, at bridge on Secondary Road 1427, 3.1 miles south of Bethel, and 5.2 miles upstream from Seaboard Coastline Railroad.	a16	1969-70	12-19-73 8-29-74	11.7 20.1
Flat Swamp 02084228	Tranters Creek	Lat 35°48'50", long 77°15'50", Martin County, at bridge on Secondary Road 1159, 0.7 mile southwest of Robersonville, and 3.3 miles upstream from mouth.	a17	1970	8-28-74	13.6
Flat Swamp 02084231	Tranters Creek	Lat 35°46'50", long 77°15'20", Pitt County, at bridge on Secondary Road 1505, 0.9 mile upstream from mouth, and 2.4 miles northeast of Oakley.	a21	1970	8-28-74	20.7
Tranters Creek 0208423130	Tar River	Lat 35°47'22", long 77°17'28", Pitt County, at bridge on Secondary Road 1500, 2.1 miles upstream from confluence of Flat Swamp, and 2.2 miles north of Oakley.	a.6		12-19-73 4-11-74 8-28-74	.46 .54 .87
		Neuse River basin				
West Fork Eno River 0208480110	Neuse River	Lat 36°12'17", long 79°11'23", Orange County, at culvert on Secondary Road 1358, and 1.8 miles east-southeast of Carr.	a1.4		12-19-73 4- 8-74 6-20-74	.72 1.58 .10
Sevenmile Creek 02084907	Eno River	Lat 36°03'57", long 79°10'08", Orange County, at Secondary Road 1120, 0.9 mile south of Elfland, 1 mile upstream from Crabtree Creek, and 2.1 miles upstream from mouth.	a8.5	1973	4- 8-74	7.43
Eno River 02084916	Neuse River	Lat 36°04'13", long 79°07'47", Orange County, at bridge on Secondary Road 1134, 0.2 mile downstream from Sevenmile Creek, and 2 miles southwest of Hillsborough.	a61	1954-55, 1968	4- 8-74 6-20-74	65.9 15.5
Cates Creek 0208500575	Eno River	Lat 36°03'41", long 79°05'26", Orange County, at Secondary Road 1200, 0.9 mile upstream from mouth, and 1.1 miles southeast of Hillsborough.	a.5	1973	4- 8-74	4.30
Cates Creek 02085006	Eno River	Lat 36°03'55", long 79°05'14", Orange County, at bridge on U.S. Highway 70A, 0.7 mile upstream from mouth, and 1.4 miles southeast of Hillsborough.	4.6	1954-55, 1958, 1973	4- 8-74	4.48
Stony Creek tributary 02085029	Stony Creek	Lat 36°02'39", long 79°01'35", Orange County, at culvert on Secondary Road 1712, 0.2 mile upstream from mouth, and 0.7 mile northeast of University.	a1.3	1973	4- 8-74	.76
Eno River 02085039	Neuse River	Lat 36°03'22", long 78°58'43", Durham County, at bridge on Secondary Road 1401, 1.2 miles downstream from Rhodes Creek, and 1.5 miles northwest of Huckleberry Spring.	a120	1973	4- 8-74 6-18-74	123 34.1
Eno River 0208503930	Neuse River	Lat 36°03'45", long 78°57'47", Durham County, at Secondary Road 1403, 0.2 mile upstream from Sevenmile Creek and 5.6 miles northwest of Durham.	a120	1973	4- 8-74 6-18-74	95.7 67.9

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Neuse River basin--Continued				
Eno River 02085049	Neuse River	Lat 36°04'18", long 78°56'06", Durham County, at bridge on Secondary Road 1003, 1.5 miles upstream from Crooked Creek, and 5.5 miles northwest of Durham.	a130	1973	4- 8-74 6-20-74	137 63.4
Warren Creek tributary 02085056	Warren Creek	Lat 36°03'19", long 78°56'09", Durham County, at bridge on Secondary Road 1321, 0.8 mile upstream from mouth, and 1.6 miles northeast of Huckleberry Spring.	a.9	1973	4- 8-74 6-20-74	.43 *.12
Eno River 02085079	Neuse River	Lat 36°04'19", long 78°51'47", Durham County, at bridge on Secondary Road 1004, 1.3 miles upstream from Little River, and 1.5 miles northeast of Weaver.	a150	1954-55, 1958, 1968, 1972-73	12-10-73	141
South Flat River 02085302	Neuse River	Lat 36°17'40", long 79°03'54", Person County, at bridge on Secondary Road 1112, 1.3 miles upstream from confluence of Bushy Fork Creek, and 1.8 miles northwest of Hurdle Mills.	6.2		4-25-74 6- 5-74	1.58 1.51
South Flat River 02085320	Neuse River	Lat 36°15'43", long 79°00'45", Person County, at bridge on Secondary Road 1120, 0.2 mile upstream from confluence of Lick Creek, and 2.2 miles southeast of Hurdle Mills.	10		4-25-74 6- 5-74	11.2 17.2
North Flat River 0208535580	Neuse River	Lat 36°20'30", long 79°01'29", Person County, at bridge on Secondary Road 1142, 1.3 miles southeast of Roseville, and 5.7 miles upstream from Chappels Creek.	a4.5		12-12-73 4-25-74 6- 5-74	*1.30 4.17 2.23
North Flat River tributary 0208535888	Neuse River	Lat 36°22'30", long 78°59'10", Person County, at culvert on Secondary Road 1195, 1.3 miles south of Roxboro, and 3.4 miles upstream from mouth.	a.2		4-25-74 6- 5-74	.32 .15
North Flat River tributary 0208535895	Neuse River	Lat 36°22'30", long 78°59'40", Person County, at culvert on Secondary Road 1148, 2 miles south of Roxboro, and 4 miles upstream from mouth.	a1		4-25-74 6- 5-74	.48 .45
Deep Creek 02085422	Flat River	Lat 36°16'18", long 78°52'57", Person County, at bridge on Secondary Road 1715, 0.3 mile downstream from Rock Fork Branch, and 4 miles southeast of Timberlake.	27.5		4-25-74 6- 5-74	12.0 6.23
Knap of Reeds Creek 0208662450	Neuse River	Lat 36°07'13", long 78°47'27", Granville County, at Secondary Road 1118, 1 mile southwest of Butner, and 1.3 miles upstream from mouth.	a2	1972	10-11-72 10-11-73 4- 2-74	f11.7 *1.05 50.9
Neuse River tributary 02086935	Neuse River	Lat 36°15'00", long 78°46'00", Granville County, at culvert on Secondary Road 1101, 1.3 miles upstream from mouth, and 2.4 miles south of Butner.	a5.2		10-11-73 4- 2-74 6-17-74	0 4.76 *1.04
Ledge Creek 02087021	Neuse River	Lat 36°07'45", long 76°42'20", Granville County, at Secondary Road 1111 at reservoir, 1.2 miles northwest of Creedmoor, and 8 miles upstream from mouth.	17.5		10-11-73 4- 2-74 6-17-74	*.02 34.1 *.19
‡ Little Falls Creek 0208717902	Honeycutt Creek	Lat 35°51'36", long 78°36'49", Wake County, at Secondary Road 2006, 1.7 miles upstream from mouth, and 2.3 miles east-northeast of Six Forks.	a.9	1973	4-18-74 7-16-74	.50 .10
Hattels Branch 0208718330	Richlands Creek	Lat 36°01'15", long 78°28'26", Franklin County, at culvert on State Highway 96, 0.4 mile southeast of Youngsville, and 2.2 miles upstream from mouth.	a.1	1972-73	10- 3-73 12-10-73 4- 3-74	0 *.04 .14
Hattels Branch 0208718440	Richland Creek	Lat 36°00'55", long 78°29'29", Franklin County, at culvert on U.S. Highway 1A, 1 mile upstream from mouth, and 1.1 miles southwest of Youngsville.	a.1	1972-73	10- 3-73 12-10-73 4- 3-74	*1.51 *1.27 2.29
Richland Creek 02087187	Neuse River	Lat 35°58'41", long 78°31'28", Wake County, at bridge on State Highway 98, 0.8 mile west of Wake Forest, and 4 miles upstream from mouth.	a8.0	1972-73	4- 9-74	9.70
Richland Creek 02087188	Neuse River	Lat 35°57'46", long 78°32'29", Wake County, at culvert on U.S. Highway 1, 1.3 miles east of Forestville, and 2.5 miles upstream from mouth.	a10	1954-55, 1968, 1972-73	10-11-73	*4.06
Smith Creek 02087193	Neuse River	Lat 35°58'09", long 78°29'20", Wake County, at bridge on State Highway 98, 0.5 mile upstream from Austin Creek, and 1.5 miles east of Wake Forest.	a3.0	1959, 1968	7-15-74	*.06
Smith Creek 02087203	Neuse River	Lat 35°56'55", long 78°30'32", Wake County, at bridge on Secondary Road 2049, 1 mile downstream from Austin Creek, and 1 mile southeast of Forestville.	a13	1972-73	10-11-73	*3.02

‡ Formerly published as 0208717920.
a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Neuse River basin--Continued				
Smith Creek 0208720330	Neuse River	Lat 35°55'44", long 78°31'40", Wake County, at bridge on Secondary Road 2044, 1 mile downstream from Sanford Creek, and 2.3 miles south of Forestville.	a21	1972-73	10-11-73	*4.92
Neuse River 02087229	Atlantic Ocean	Lat 35°47'35", long 78°32'21", Wake County, at bridge on U.S. Highway 64, 2 miles upstream from Crabtree Creek, and 5.7 miles east of State Capitol Building in Raleigh.	876	1955	7-15-74	*80.4
Mango Creek 0208723010	Neuse River	Lat 35°46'37", long 78°31'32", Wake County, at Secondary Road 2516, 0.9 mile upstream from mouth, and 3.5 miles west-southwest of Knightdale.	a3.6	1973	10-11-73 7-15-74	0 *.53
Coles Branch 0208723225	Crabtree Creek	Lat 35°43'30", long 78°47'40", Wake County, 1.7 miles upstream from mouth, and 0.9 mile west of Cary.	a1.2		4-10-74 8-29-74	.31 .23
Crabtree Creek 0208723280	Neuse River	Lat 35°47'26", long 78°49'53", Wake County, at Secondary Road 1615, 0.8 mile upstream from Turkey Creek, and 2.8 miles west of Cary.	a3.9	1973	10-11-73 4-10-74	0 3.27
Coles Branch 0208723397	Neuse River	Lat 35°47'30", long 78°47'37", Wake County, at water treatment plant, and 0.7 mile northwest of Cary, and 2.4 miles upstream from mouth.	a.1	1973	10-10-73 7-17-74 8-29-74	0 0 .01
Crabtree Creek 02087236	Neuse River	Lat 35°49'15", long 78°49'27", Wake County, at bridge on State Highway 54, 0.2 mile southeast of Morrisville, and 2 miles upstream from Briar Creek.	14.6	1932, 1961-62, 1968, 1972-73	10-10-73	0
Licks Creek 0208723750	Crabtree Creek	Lat 35°50'45", long 78°49'49", Wake County, at bridge on Secondary Road 1640, 1.5 miles upstream from mouth at Crabtree Creek, and 1.6 miles north of Morrisville.	a.3	1972-73	10-10-73 4- 4-74	0 .008
Licks Creek 0208723757	Crabtree Creek	Lat 35°49'55", long 78°48'57", Wake County, at Secondary Road 1002, 0.2 mile upstream from mouth, and 0.8 mile northeast of Morrisville.	a.9	1973	10- 5-73 4- 3-74	0 .18
Little Brier Creek tributary 0208724350	Little Brier Creek	Lat 35°54'35", long 78°46'45", Wake County, at culvert on U.S. Highway 70, 1.2 mile upstream from mouth, and 2.9 miles west of Leesville.	a1.8		4- 4-74 7-16-74 8-29-74	.70 0 .05
Little Brier Creek tributary 0208724375	Little Brier Creek	Lat 35°54'00", long 78°47'15", Wake County, at bridge on Secondary Road 1645, 0.4 mile upstream from mouth, and 3.5 miles west of Leesville.	a2.2		3- 4-74 7-16-74 8-29-74	.98 0 .08
Stirrup Iron Creek 02087249	Crabtree Creek	Lat 35°50'34", long 79°48'16", Wake County, at bridge on Secondary Road 1002, 0.7 mile upstream from mouth, and 1.8 miles northeast of Morrisville.	25.4	1961-62, 1968 1972-73	10- 5-73 4- 4-74	0 13.6
Sycamore Creek 02087256	Crabtree Creek	Lat 35°54'03", long 78°45'56", Wake County, at culvert on U.S. Highway 70, 1.7 miles south of Lynn Crossroads, and 2.6 miles upstream from Pots Branch.	2.45	1968	4- 8-74 7-16-74 8-29-74	1.26 0 .19
Sycamore Creek tributary 0208725625	Sycamore Creek	Lat 35°54'10", long 78°44'50", Wake County, at culvert on Secondary Road 1837, 1.3 miles upstream from mouth, and 1.3 miles west of Leesville.	a1.2		4- 8-74 7-16-74 8-29-74	1.21 *.06 .05
Sycamore Creek tributary 0208725650	Sycamore Creek	Lat 35°53'50", long 78°46'00", Wake County, at culvert on U.S. Highway 70, 0.4 mile upstream from mouth, and 2 miles west-northwest of Leesville.	a1.7		4- 4-74 7-16-74 8-29-74	1.44 *.12 .23
Hare Snipe Creek 0208726825	Crabtree Creek	Lat 35°53'28", long 78°42'04", Wake County, at culvert on private road, 1.8 miles southeast of Leesville, and 3.2 miles upstream from mouth.	a1.3		4-18-74 7-16-74 8-29-74	2.03 *.09 .37
Hare Snipe Creek 0208726850	Crabtree Creek	Lat 35°52'45", long 78°41'55", Wake County, 2.3 miles upstream from mouth, and 2.5 miles southeast of Leesville.	a3.8		7-16-74	*.02
Hare Snipe Creek 0208726875	Crabtree Creek	Lat 35°51'15", long 78°41'55", Wake County, at dam on Lake Lynn, 2 miles upstream from mouth, and 3.2 miles southwest of Six Forks.	a4.0		7-16-74	.01
Walnut Creek 02087355	Neuse River	Lat 35°45'44", long 78°36'52", Wake County, at bridge on Secondary Road 2564, 1.4 miles downstream from Wildcat Branch, and 1.9 miles southeast of State Capitol.	24.7	1972-73	10-10-73	*5.16
Walnut Creek 02087359	Neuse River	Lat 35°45'30", long 78°34'58", Wake County, at bridge on Secondary Road 2544, 0.9 mile upstream from Big Branch, and 3.5 miles southeast of State Capitol.	30	1973	4-11-74 7-15-74	18.6 *4.63

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Neuse River basin--Continued				
Big Branch 02087367	Neuse River	Lat 35°42'37", long 78°33'52", Wake County, at culvert on Secondary Road 2548, 1.5 miles northwest of Auburn, and 2.7 miles upstream from mouth.	2.12		4-11-74 7-15-74 8-28-74	0.98 *.38 .51
Big Branch tributary 02087368	Big Branch	Lat 35°43'28", long 78°34'23", Wake County, at bridge on Secondary Road 2548, 1.9 miles northeast of Garner, and 4.5 miles upstream from mouth.	a1.3	1945, 1955	4-11-74 7-15-74 8-28-74	2.52 *.55 1.39
Neuse River tributary No. 5 02087386	Neuse River	Lat 35°45'15", long 78°30'31", Wake County, at bridge on Secondary Road 1007, 2 mile upstream from mouth, and 3 miles southwest of Knightdale.	a2.3	1954, 1972-73	4-11-74 7-15-74	1.94 *.41
Neuse River 02087396	Atlantic Ocean	Lat 35°44'43", long 78°30'50", Wake County, at bridge on Secondary Road 2555, 1.5 miles upstream from Poplar Creek, and 6 miles south of Knightdale.	a1,080	1955, 1958, 1972-73	10-12-73 10-31-73	*129 130
Mill Creek 0208753180	Neuse River	Lat 35°32'41", long 78°17'45", Johnston County, at Secondary Road 1929, 0.9 mile northwest of Selma, and 1.7 miles upstream from mouth.	a3.6	1973	4- 8-74 7-23-74 8-27-74	2.60 .16 .80
Mill Creek 02087532	Neuse River	Lat 35°32'35", long 78°18'02", Johnston County, at bridge on Secondary Road 1900, downstream from Southern Railway, and 1 mile west of Selma.	3.81	1955, 1972-73	4- 8-74	4.58
Swift Creek 02087588	Neuse River	Lat 35°41'34", long 78°41'37", Wake County, at Lake Wheeler Dam, and 6.8 miles southeast of Raleigh.	a38	1973	4-11-74 7-17-74	27.3 *1.46
Little Creek 02087771	Swift Creek	Lat 35°38'39", long 78°27'55", Johnston County, at bridge on State Highway 42, 0.6 mile southwest of Clayton, and 6.9 miles upstream from mouth.	5.52	1972-73	9-25-73 7-19-74	f.16 .07
Little Creek 02087791	Swift Creek	Lat 35°36'53", long 78°27'37", Johnston County, at bridge on Secondary Road 1560, 2.5 miles south of Clayton, and 4.8 miles upstream from mouth.	9.67	1972-73	9-26-73 7-19-74 8-27-74	f.48 .62 6.23
Basal Creek 0208787955	Middle Creek	Lat 35°38'25", long 78°47'50", Wake County, at Secondary Road 1393, 1.4 miles upstream from mouth, and 4 miles north of Fuquay-Varina.	a8.7	1973	10- 5-73 4- 3-74	0 11.9
Middle Creek 02087885	Swift Creek	Lat 35°42'54", long 78°50'27", Wake County, at Durham and Southern Railroad, 1.4 miles southeast of Apex, 5.1 miles upstream from Basal Creek, and 10.8 miles upstream from mouth.	.6	1973	4- 3-74 7-17-74 8-30-74	8.53 0 .07
Middle Creek 02087904	Swift Creek	Lat 35°40'40", long 78°49'15", Wake County, at bridge on Secondary Road 1152, 3 miles upstream from Sunset Lake, and 3.8 miles southeast of Apex.	a5.4	1972-73	4- 2-74	5.54
Middle Creek 02087910	Swift Creek	Lat 35°39'28", long 78°48'06", Wake County, at Secondary Road 1152, 1.8 miles west-northwest of Holly Springs, and 7 miles upstream from mouth.	a7.6	1973	4-19-74	4.95
Middle Creek 0208792250	Swift Creek	Lat 35°39'00", long 78°46'04", Wake County, at Secondary Road 1301, 1.1 miles downstream from Basal Creek, and 3 miles east of Holly Springs.	a20	1973	4- 3-74	21.8
Mills Branch 0208795190	Middle Creek	Lat 35°39'14", long 78°42'27", Wake County, at Secondary Road 1390, 1.5 miles north of Banks, and 2 miles upstream from mouth.	a.8	1973	4-11-74	1.01
Mills Branch 02087952	Middle Creek	Lat 35°38'38", long 78°42'36", Wake County, at culvert on U.S. Highway 401, 0.7 mile northeast of Banks, and 1.3 miles upstream from mouth.	1.30	1973	4-18-74 7-17-74	.9 *.08
Terrible Creek 0208796545	Middle Creek	Lat 35°36'40", long 78°45'15", Wake County, at Secondary Road 1404, 1.9 miles northwest of Willow Springs, and 3.4 miles upstream from mouth.	a4.7	1973	10- 5-73 4- 2-74 8-30-74	0 7.81 2.33
Basal Creek 0208797910	Middle Creek	Lat 35°37'12", long 78°48'48", Wake County, at State Highway 55, 2.8 miles northwest of Fuquay-Varing, and 3 miles upstream from mouth.	a4.2	1973	4- 3-74	6.53
Middle Creek 02088030	Swift Creek	Lat 35°31'20", long 78°28'02", Johnston County, at bridge on State Highway 210, 2.3 miles upstream from mouth, and 3.0 miles west of Smithfield.	a120	1949-55, 1958	4- 5-74 7-19-74 8-26-74	226 11.2 117
Black Creek 0208807310	Neuse River	Lat 35°34'12", long 78°43'53", Wake County, at Secondary Road 2754, 1.7 miles south of Willow Springs, and 6.3 miles upstream from Little Black Creek.	a3.2	1973	10-31-73 12-10-73 3- 3-74 7-17-74	0 0 6.55 *.10
Black Creek 02088090	Neuse River	Lat 35°28'10", long 78°27'20", Johnston County, at bridge on Secondary Road 1162, 2.2 miles northwest of Four Oakes, and 5 miles upstream from mouth.	a79	1949-55, 1958-59	4- 5-74 7-19-74 8-26-74	162 .06 134

a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Neuse River basin--Continued				
Black Creek 0208810395	Neuse River	Lat 35°28'02", long 78°23'27", Johnston County, at bridge on U.S. Highway 301, 1.4 miles upstream from mouth, and 2.6 miles northeast of Four Oaks.	a96		4- 5-74	236
Mill Creek 0208813560	Neuse River	Lat 35°37'13", long 78°25'55", Johnston County, at bridge on Secondary Road 1124, 1.4 miles downstream from Jumping Run, and 2.2 miles southeast of Parkers Mill.	a21		4- 8-74 7-23-74 8-27-74	30.5 23.2 19.6
Driving Branch 02088216	Hannah Creek	Lat 35°23'11", long 78°30'51", Johnston County, at bridge on Secondary Road 1158, 0.5 mile upstream from mouth, and 1.8 miles east of Benson.	a2.4	1973	9-26-73 7-19-74 4- 8-74 8-27-74	f0 0 2.61 .18
Hannah Creek 02088217	Mill Creek	Lat 35°23'50", long 78°30'00", Johnston County, at bridge on Secondary Road 1171, 1.5 miles upstream from Stony Fork, and 1.5 miles south of Alaska.	a11	1973	7-19-74 4- 8-74 8-27-74	0 17.3 12.6
Mill Creek 02088270	Neuse River	Lat 35°20'31", long 78°12'51", Johnston County, at bridge on Secondary Road 1200, 0.1 mile upstream from Mill Branch, and 0.5 mile north of Cox Mill.	a170		4- 8-74 7-23-74 8-27-74	534 152 196
Falling Creek 0208831350	Beaverdam Creek	Lat 78°15'57", long 35°16'57", Wayne County, at bridge on Secondary Road 1102, 0.8 mile upstream from Beaverdam Creek, and 3.9 miles northwest of Dobbersville.	a3.8	1972-73	12-11-73 4-30-74	.75 .72
Neuse River 02088332	Atlantic Ocean	Lat 35°21'28", long 78°21'28", Wayne County, downstream from bridge on Secondary Road 1224, downstream from Thoroughfare Swamp, and 1.3 miles north of Stevens Mill.	a2,010		12-11-73 4-29-74 7-18-74	993 752 198
Little River 0208837825	Neuse River	Lat 35°57'08", long 78°24'28", Franklin County, at bridge on U.S. Highway 401, 2.1 miles southwest of Harris Crossroads, and 3.2 miles upstream from Cedar Fork.	a7.9		12-10-73	.92
Little River 02088383	Neuse River	Lat 35°49'18", long 78°21'09", Wake County, at bridge on U.S. Bypass 64, 0.5 mile downstream from Fall Branch, and 2 miles west of Zebulon.	a56		4-10-74 7-11-74 8-28-74	58.3 13.9 66.3
Buffalo Creek 02088434	Little River	Lat 35°46'33", long 78°23'05", Wake County, at bridge on Secondary Road 1007, 1 mile downstream from Norfolk Southern Railway, and 1 mile southwest of Wendell.	a16	1955, 1958, 1972-73	10-31-73 4-10-74 7-11-74	0 16.5 1.46
Little River 02088484	Neuse River	Lat 35°35'00", long 78°09'20", Johnston County, at Seaboard Coast Line Railroad bridge, and 1 mile northeast of Bagley.	a210		4- 8-74 7-24-74 8-26-74	292 50.8 230
Little River 02088487	Neuse River	Lat 35°33'50", long 78°09'35", Johnston County, at bridge on Interstate Highway 95, 1.2 miles downstream from confluence of Buffalo Creek, and 0.4 mile south of Lowell Mill.	a214		4- 8-74 7-24-74 8-26-74	345 68.3 236
Little River 0208854250	Neuse River	Lat 35°28'56", long 78°08'37", Johnston County, at bridge on Secondary Road 1002, 1.2 miles downstream from Spring Branch, and 1.3 miles northeast of Princeton.	a260	1973	9-25-73 4- 8-74	f41.6 396
Little River 0208858110	Neuse River	Lat 35°26'46", long 78°02'36", Wayne County, at bridge on State Highway 581, 3.8 miles north-northeast of Asylum, and 4.9 miles upstream from mouth.	a280		4-29-74 7-18-74 8-27-74	101 36.4 225
Mosely Creek 02089287	Falling Creek	Lat 35°19'04", long 77°46'35", Lenoir County, at bridge on Secondary Road 1514, 1.2 miles northeast of La Grange, and 2.5 miles upstream from Groundnut Creek.	2.71	1973	4-30-74 7-10-74 8-27-74	*.39 .21 1.34
Mosely Creek 0208931510	Falling Creek	Lat 35°18'33", long 77°45'15", Lenoir County, at Secondary Road 1518, and 2 miles west of La Grange.	9.13	1973	4-30-74 7-10-74	*3.67 1.7
Stonyton Creek 02089688	Neuse River	Lat 35°18'30", long 77°31'30", Lenoir County, at bridge on State Highway 11, 0.6 mile downstream from Briery Run, and 3.1 miles northeast of Harveytown.	a30	1972-73	4-23-74 7-11-74	14.6 1.60
Jericho Run tributary 0208968950	Jericho Run	Lat 35°17'02", long 77°33'20", Lenoir County, at culvert on State Highway 11 and 55, 0.2 mile upstream from mouth, and 0.8 mile northwest of Harveytown.	a.4	1972-73	4-23-74 7-11-74 8-27-74	*.48 .04 2.72
Little Creek 0208995250	Moccasin Creek	Lat 35°49'00", long 78°18'07", Wake County, at culvert on State Highway 97, 3.1 miles upstream from Moccasin Creek, and 0.2 mile west of Zebulon.	a1	1972	10-11-73 4- 9-74 7-11-74 8-28-74	0 .99 .10 .60

a Approximately.
f Not previously published
g Previously published as 0208831350.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements: Date	Measurements: Discharge (cfs)
		Neuse River basin--Continued				
Little Creek 02090000	Moccasin Creek	Lat 35°48'45", long 78°16'07", Wake County, at bridge on State Highway 39, 0.8 mile upstream from mouth, and 2.8 miles southeast of Zebulon.	5.47	1924-56, 1972	4- 9-74 7-11-74 8-28-74	5.50 .72 .52
Moccasin Creek 0209009050	Contentnea Creek	Lat 35°45'14", long 78°13'08", Nash County, at bridge on Secondary Road 1116, and 2.5 miles south of Middlesex.	a41	1972-73	10- 2-74	*1.95
Cattail Branch 0209022250	Beaverdam Creek	Lat 35°47'07", long 78°12'28", Nash County, at bridge on Secondary Road 1119, at Middlesex, and 1.3 miles upstream from mouth.	a.3	1972-73	10- 2-73 7-15-74	0 0
Bailey Branch 0209024850	Wilder Branch	Lat 35°47'00", long 78°07'36", Nash County, at bridge on U.S. Highway 264, 0.4 mile west of Bailey, and 1 mile upstream from Haw Branch.	a1.6	1972-73	10- 2-73 4-23-74	0 .99
Cattail Branch 02090323	Beaverdam Creek	Lat 35°46'50", long 78°12'20", Nash County, at bridge on Secondary Road 1116, at Middlesex, and 1 mile upstream from mouth.	a.8	1972-73	7-15-74	.02
Contentnea Creek 0209036050	Neuse River	Lat 35°41'55", long 78°08'07", Wilson County, at bridge on Secondary Road 1126, 1.2 miles east-southeast of Wilkerson Crossroads, and 2.4 miles upstream from Buckhorn Creek.	a140		4- 4-74 7-16-74	154 144
Hominy Swamp 02090516	Contentnea Creek	Lat 35°41'33", long 77°54'16", Wilson County, at bridge on Secondary Road 1606, 3 miles upstream from mouth, and 3.5 miles northwest of Evansdale.	9.95	1969-70, 1972-73	4- 4-74	9.80
Lee Swamp tributary 0209055995	Lee Swamp	Lat 35°33'37", long 78°01'20", Wilson County, at bridge on Secondary Road 1645, 0.7 mile upstream from mouth, and 0.9 mile from Lucama.	2.5	1972-73	4- 4-74	6.77
Black Creek tributary 0209056250	Black Creek	Lat 35°38'03", long 78°01'20", Wilson County, at bridge on Secondary Road 1653, 0.7 mile southwest of Lucama, and 0.9 mile upstream from mouth.	a10	1972-73	4- 4-74	11.3
Black Creek 02090566	Contentnea Creek	Lat 35°37'40", long 78°00'20", Wilson County, at bridge on Secondary Road 1649, 0.5 mile downstream from Lee Swamp, and 1.1 miles south of Lucama.	a20	1955-56, 1972-73	4- 4-74	30.2
Black Creek tributary 0209057190	Black Creek	Lat 35°31'04", long 77°59'55", Wilson County, at culvert on U.S. Highway 301, 0.3 mile west of Lucama, and 1.7 miles upstream from mouth.	a2.9	1972-73	4- 4-74	4.38
Black Creek 0209058180	Contentnea Creek	Lat 35°38'07", long 77°56'50", Wilson County, at bridge on U.S. Highway 117, 0.8 mile west of Black Creek, and 1.1 miles downstream from Cedar Branch.	a37	1972-73	4- 4-74	58.2
Contentnea Creek 02090634	Neuse River	Lat 35°35'12", long 77°48'39", Wilson County, at bridge on State Highway 58, 0.6 mile upstream from Toisnot Swamp, and 1.5 miles southwest of Stantonsburg.	388	1969-70, 1972-73	7-16-74	54.4
The Slough 0209066845	Nahunta Swamp	Lat 35°29'37", long 77°54'00", Wayne County, at culvert on U.S. Highway 117, 0.1 mile south of Pineville, and 7.5 miles upstream from mouth.	a.5	1972-73	4-24-74	.16
The Slough 0209096855	Nahunta Swamp	Lat 35°23'59", long 77°57'45", Wayne County, at culvert on Secondary Road 1537, 1.4 miles southeast of Pikeville, and 6 miles upstream from mouth.	a2.0	1973	4-24-74 7-17-74	2.61 .33
Contentnea Creek 02091241	Neuse River	Lat 35°27'27", long 77°40'11", Greene County, at bridge on U.S. Highway 258, at Snow Hill, and 0.8 mile upstream from Panther Swamp Creek.	694	1969-70, 1972-73	7-11-74	310
Contentnea Creek 02091574	Neuse River	Lat 35°24'46", long 77°29'51", Lenoir County, at bridge on Secondary Road 1410, 1.9 miles upstream from Little Contentnea Creek, and 2.3 miles northeast of Hugo.	789	1956-57, 1969, 1973	1-11-73 6-22-73 7-24-74	f1,130 f1,230 152
Little Contentnea Creek tributary 02091589	Little Contentnea Creek	Lat 35°36'20", long 77°40'40", Green County, at bridge on U.S. Highway 264, 0.5 mile upstream from mouth, and 1.5 miles northwest of Walstonburg.	a3.0	1972-73	4-24-74	1.54
Langs Mill Run 02091618	Black Swamp	Lat 35°40'18", long 77°38'50", Pitt County, at bridge on State Highway 222, 0.5 mile west of Fountain, and 5 miles upstream from mouth.	a3.1		8-29-74	15.2
Langs Mill Run 02091619	Black Swamp	Lat 35°39'50", long 77°38'00", Pitt County, on State Highway 258, 0.8 mile southeast of Fountain, and 4.5 miles upstream from mouth.	a4.6		8-29-74	10.0
Little Contentnea Creek 02091664	Contentnea Creek	Lat 35°36'19", long 77°34'27", Pitt County, at bridge on State Highway 121, 1 mile northeast of Farmville, and 1.8 miles upstream from Oldwoman Branch.	55.1	1969-70, 1972	8-29-74	101

a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Neuse River basin--Continued						
Little Contentnea Creek 02091679	Contentnea Creek	Lat 35°35'08", long 77°32'28", Pitt County, at bridge on Secondary Road 1218, 0.5 mile downstream from Oldwoman Branch, and 1.6 miles west of Bellarthur.	64.3	1969-70, 1972	8-30-74	169
Middle Swamp 02091712	Little Contentnea Creek	Lat 35°33'54", long 77°35'45", Pitt County, at bridge on U.S. Highway 258, 1 mile south of Marlboro, and 3.2 miles upstream from Sandy Run Creek.	a14	1972-73	8-30-74	11.6
Swift Creek 0209184590	Neuse River	Lat 35°32'16", long 77°25'07", Pitt County, at bridge on Secondary Road 1126, 0.3 mile downstream from Gum Swamp, and 1.1 miles northwest of Winterville.	a7.6		8-29-74	21.3
Swift Creek 02091849	Neuse River	Lat 35°31'40", long 77°25'30", Pitt County, at bridge on Secondary Road 1125, 1.2 miles upstream from Gum Swamp, and 1.2 miles west of Winterville.	a9.5	1956, 1973	8-29-74	19.3
Swift Creek 02091859	Neuse River	Lat 35°28'10", long 77°24'00", Pitt County, at bridge on State Highway 102, 1 mile east of Ayden, and 4.2 miles upstream from Fork Swamp.	a25	1956-57	8-29-74	26.7
Fork Swamp 0209187450	Swift Creek	Lat 35°28'11", long 77°21'23", Pitt County, at State Highway 102, 2.7 miles upstream from mouth, and 3.4 miles east of Ayden.	a21	1973	9-11-74	36.5
Swift Creek 02091910	Neuse River	Lat 35°24'07", long 77°19'54", Pitt County, at bridge on Secondary Road 1753, 0.5 mile south of Coxville, and 2.7 miles downstream from Fork Swamp.	78	1956-57, 1960-69	9-11-74	118
Trent River 0209218190	Neuse River	Lat 35°06'23", long 77°43'15", Lenoir County, at bridge on State Highway 11, 2.5 miles south-southwest of Deep Run, and 5.9 miles upstream from mouth.	a3.2		12-11-73 4-23-74 8-27-74	0 3.7 .93
Trent River 0209254950	Neuse River	Lat 35°04'05", long 77°20'55", Jones County, at bridge on Secondary Road 1001, 0.2 mile north-northeast of Trenton, and 0.5 mile upstream from Crooked Creek.	a276		4-22-74	281
White Oak River basin						
Newport River tributary 02092705	Newport River	Lat 34°44'34", long 76°48'33", Carteret County, at Atlantic and East Carolina Railroad, 1 mile southeast of Wildwood, and 1.3 miles upstream from mouth at Newport River.	a.4		5- 8-74	.13
Queen Creek basin						
Bell Swamp 02092780	Queen Creek	Lat 34°42'04", long 77°14'01", Onslow County, at culvert on State Highway 172, 1.1 mile southeast of Hubert, and 2 miles upstream from mouth.	a5.0	1953-69, 1971	5-16-74	1.77
New River basin						
Mill Swamp 02092864	New River	Lat 34°54'24", long 77°32'25", Onslow County, at bridge on Secondary Road 1003, 0.6 mile northeast of Richlands, and 2.6 miles upstream from mouth.	a20	1971-72	5-14-74	10.0
Mill Swamp 02092865	New River	Lat 34°54'24", long 77°32'25", Onslow County, at bridge on Secondary Road 1307, 0.8 mile northeast of Richlands, and 1.6 miles upstream from mouth.	a20	1971-72	5-13-74	1.99
Brison Creek 02093034	New River	Lat 34°44'46", long 77°27'26", Onslow County, at culvert on U.S. Highway 17, 1.5 miles upstream from mouth, and 2 miles southwest of Post Office in Jacksonville.	1.62		5-14-74	.22
Wolf Swamp 02093168	Northeast Creek	Lat 34°47'48", long 77°22'00", Onslow County, at bridge on U.S. Highway 17, 0.8 mile upstream from mouth, and 0.8 mile southwest of Kellum.	3.4	1971	5-14-74	1.41
Northeast Creek 02093170	New River	Lat 34°46'25", long 77°21'40", Onslow County, at bridge on Secondary Road 1406, 1.6 miles downstream from Wolf Swamp, and 2.1 miles south of Kellum.	a28	1941, 1953-54, 1956-58, 1971-72	5-14-74	14.8
Mott Creek 02093184	Northeast Creek	Lat 34°43'26", long 77°19'14", Onslow County, at culvert on Secondary Road 1413, 0.5 mile north of Piney Green, and 2.4 miles upstream from mouth.	.1	1971-72	5-16-74	.04

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		New River basin--Continued				
Wallace Creek 02093188	New River	Lat 34°42'26", long 77°16'27", Onslow County, at culvert on State Highway 24, 0.2 mile east of Kellumtown, 7.4 miles upstream from mouth.	a6.2	1971	5-16-74	0.63
		Cape Fear River basin				
Haw River 02093248	Cape Fear River	Lat 36°11'52", long 79°59'08", Guilford County, at bridge on State Highway 68, 1.6 miles north of Oak Ridge, and 1.8 miles upstream from Rocky Branch.	7.9	1962, 1966, 1971, 1973	4-17-74 6-18-74	7.21 5.29
Troublesome Creek 02093345	Haw River	Lat 36°17'29", long 79°41'34", Rockingham County, 2.3 miles upstream from mouth, and 5.1 miles south-southwest of Reidsville.	a52		4-23-74 6-17-74	35.4 26.7
Little Troublesome Creek 0209340340	Haw River	Lat 36°17'53", long 79°38'29", Rockingham County, at bridge on U.S. Highway 29 Bypass, 2.7 miles upstream from mouth, and 2.8 miles northwest of Williamsburg.	a9.2		4-23-74 6-20-74	16.6 8.4
Haw River 02093549	Cape Fear River	Lat 36°10'43", long 79°30'09", Alamance County, at dam, upstream from bridge on State Highway 87, at Altamahaw, and 1.2 miles upstream from Reedy Fork.	188	1973	4-10-74	400
Reedy Fork 0209374850	Haw River	Lat 36°08'00", long 80°00'52", Guilford County, at Secondary Road 1858, 3.1 miles south-south-east of Oak Ridge, and 3.5 miles upstream from Beaver Creek.	a1.4	1973	4-17-74 6-18-74	4.73 4.63
Moores Creek 02093822	Reedy Fork	Lat 36°08'38", long 79°56'52", Guilford County, at bridge on Secondary Road 2132, 3.1 miles southeast of Oak Ridge, and 4 miles upstream from mouth.	a.9	1971, 1973	4-17-74 6-18-74	.76 .68
Brush Creek 02093876	Reedy Fork	Lat 36°07'15", long 79°59'40", Guilford County, at bridge on Secondary Road 2137, 2.2 miles northeast of Friendship, and 4.7 miles upstream from mouth.	15.2		4-17-74 6-18-74	2.67 7.27
Brush Creek 02093878	Reedy Fork	Lat 36°08'27", long 79°54'46", Guilford County, at bridge on Brush Creek, 3 miles upstream from mouth, and 5 miles southeast of Oak Ridge.	a8.5		4-17-74 6-19-74	4.75 3.35
Horsepen Creek 0209391880	Reedy Fork	Lat 36°07'02", long 79°53'31", Guilford County, at bridge on Secondary Road 2136, 2 miles west-northwest of Guilford College, and 4.7 miles upstream from mouth.	a7.5		4-17-74 6-19-74	4.16 2.79
Horsepen Creek 02093992	Reedy Fork	Lat 36°08'12", long 79°51'40", Guilford County, at bridge on U.S. Highway 220, 2.9 miles upstream from Lake Brandt Dam, and 6.3 miles northwest of Greensboro.	15.9	1926-60, 1962	4-17-74 6-18-74	9.66 6.17
South Buffalo Creek tributary 0209478755	South Buffalo Creek	Lat 36°00'58", long 79°47'22", Guilford County, at bridge on Secondary Road 3303, 1.1 miles upstream from mouth, and 3.9 miles south of Greensboro.	a2.5		4-16-74 6-12-74	1.13 .57
South Buffalo Creek 02094819	Buffalo Creek	Lat 36°02'36", long 79°46'27", Guilford County, at bridge on U.S. Highway 421, 1.5 miles downstream from Ryan Creek, and 2.2 miles southwest of Greensboro.	27.5	1947, 1969-71, 1973	11-14-73	3.41
South Buffalo Creek 02094996	Buffalo Creek	Lat 36°03'09", long 79°44'19", Guilford County, at bridge on E. Lee St., 2.5 miles southeast of Greensboro, and 2.9 miles downstream from Mile Run Creek.	31.3	1969-70, 1973	11-14-73 11-15-73	21.7 21.8
South Buffalo Creek 02095000	Buffalo Creek	Lat 36°03'36", long 79°43'33", Guilford County, at bridge on Secondary Road 3000, 3.8 miles east of Greensboro, and 4 miles downstream from [illegible] Creek.	33.6	‡1928-58, 1969, 1973	4-18-74 6-14-74	34.7 21.9
South Buffalo Creek 02095046	Buffalo Creek	Lat 36°05'22", long 79°41'19", Guilford County, at bridge on U.S. Highway 70A, 3.2 miles east of Bessemer, and 4.8 miles upstream from mouth.	39.0	1969-70, 1973	11-15-73	15.6
North Buffalo Creek 02095273	Buffalo Creek	Lat 36°06'05", long 79°46'24", Guilford County, at bridge on Yanceyville Street, 1.9 miles upstream from confluence of Muddy Creek, and 2.2 miles north-northeast of Greensboro.	a16		4-17-74 6-14-74	8.62 14
North Buffalo Creek tributary 02095475	N. Buffalo Creek	Lat 37°08'30", long 79°43'40", Guilford County, at culvert on Secondary Road 2835, 0.9 mile upstream from mouth, and 5.7 miles northeast of Greensboro.	a1.1		4-18-74 6-14-74	.52 .18
Travis Creek tributary 02095752	Travis Creek	Lat 36°07'13", long 79°32'27", Guilford County, at bridge on Secondary Road 2744, 0.8 mile north of Gibsonville, and 4 miles upstream from mouth.	a1.4	1970, 1973	4-22-74 6-18-74	.47 .60

‡ Operated as a continuous-record gaging station.
a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Cape Fear River basin--Continued				
Travis Creek 0209581050	Haw River	Lat 36°07'44", long 79°31'42", Alamance County, at Secondary Road 1500, 0.4 mile downstream from Travis Creek tributary, and 1.7 miles northeast of Gibsonville.	a4.3	1973	4-10-74	2.77
Travis Creek 02095824	Haw River	Lat 36°07'22", long 79°30'43", Alamance County, at bridge 1.9 miles north of Elon College, 2.6 miles upstream from mouth.	4.70	1970, 1973	12-19-73	2.98
Travis Creek 02095862	Haw River	Lat 36°08'21", long 79°29'36", Alamance County, at culvert on State Highway 87, 0.7 mile upstream from mouth, and 2.2 miles southeast of Ossipee.	14.5	1969-71, 1973	4-10-74	23.4
Buttermilk Creek 02096116	Stony Creek	Lat 36°15'33", long 79°29'36", Caswell County, at culvert on Secondary Road 1100, downstream from effluent discharge from Burlington Industries Williamsburg Plant, and 5 miles west of Stony Creek	.1	1970, 1973	4-24-74 6-10-74	.16 .96
County Home Branch 0209651955	Town Branch	Lat 36°02'52", long 79°22'33", Alamance County, at bridge on Secondary Road 2100, 100 ft upstream from Town Branch, and 2 miles southeast of Graham.	a1.6	1971, 1973	12-14-73	.20
Moadams Creek 02096553	Back Creek	Lat 36°05'45", long 79°17'09", Alamance County, upstream from sewage effluent outfall, 1 mile southeast of Mebane, and 3.2 miles upstream from mouth.	a1.1	1954-55, 1966, 1970, 1973	4-10-73	.73
Moadams Creek 02096571	Back Creek	Lat 36°05'22", long 79°18'37", Alamance County, at bridge on Secondary Road 1940, 1.2 miles upstream from mouth, and 2.5 miles west of Mebane.	3.38	1970, 1973	4-10-74	4.48
Little Alamance Creek 0209659285	Big Alamance Creek	Lat 35°55'52", long 79°40'34", Guilford County, at culvert on Secondary Road 3549 (Old U.S. Highway 421), 0.1 mile downstream from unnamed tributary, 2 miles north-northwest of Julian.	a2.0		2-12-74 4-16-74 6-12-74	2.10 1.39 .26
Big Alamance Creek 02096602	Haw River	Lat 36°00'12", long 79°45'13", Guilford County, at bridge on U.S. Highway 421, 1.6 miles southeast of Vandalia, and 8 miles upstream from Beaver Creek.	a3.0	1970, 1973	4-16-74 6-12-74	2.51 .74
Little Alamance Creek 0209660225	Big Alamance Creek	Lat 36°00'40", long 79°45'05", Guilford County, on Secondary Road 3317, 2.9 miles upstream from mouth, and 3.1 miles north of Pleasant Garden.	a4.0		4-18-74 6-12-74	3.76 1.1
Big Alamance Creek 02096603	Haw River	Lat 36°00'46", long 79°44'50", Guilford County, at bridge on Secondary Road 3314, 1.6 miles east of Vandalia, and 7.2 miles upstream from Beaver Creek.	7.3	1970, 1973	4-18-74 6-12-74	4.17 .85
Big Alamance Creek 02096605	Haw River	Lat 36°02'26", long 79°40'59", Guilford County, at bridge on Secondary Road 3077, 1.3 miles upstream from Beaver Creek, and 3.9 miles southwest of Sedalia.	a18	1971, 1973	4-18-74 6-12-74	13.9 6.62
Little Alamance Creek 02096610	Big Alamance Creek	Lat 36°03'15", long 79°38'14", Guilford County, at bridge on Secondary Road 3124, 2.5 miles upstream from Rock Creek, and 4.5 miles west of Whitsett.	a38	1950-59, 1962, 1966	4-18-74 6-12-74	31.4 10.1
Little Alamance Creek 02096650	Big Alamance Creek	Lat 36°03'19", long 79°36'08", Guilford County, at bridge on Secondary Road 3356, 0.7 mile upstream from Rock Creek, and 1.3 miles southeast of Sedalia.	a42		4-18-74 6-12-74	29.2 13.2
†Back Creek 02096705	Big Alamance Creek	Lat 36°02'52", long 79°33'26", Guilford County, 75 feet upstream from sewage effluent outfall off Secondary Road 2756, 0.7 miles upstream from Cedar Creek, and 1.6 miles southwest of Gibsonville.	a18	1971, 1973	4-22-74	1.93
†Back Creek 02096707	Big Alamance Creek	Lat 36°04'51", long 79°32'45", Guilford County, upstream from bridge on U.S. Highway 70A, 0.1 mile upstream from Cedar Creek, and 1.5 miles south of Gibsonville.	a3.5	1949, 1954-55, 1970, 1973	4-22-74 6-18-74	1.94 1.51
Gum Branch 02096735	Big Alamance Creek	Lat 36°04'21", long 79°29'47", Alamance County, at culvert on U.S. Highway 70, 1.7 miles southeast of Elon College, and 4.5 miles upstream from mouth.	a1.1	1970, 1973	12-14-73	.69
Big Alamance Creek 02096788	Haw River	Lat 36°01'01", long 79°24'50", Alamance County, at bridge on Secondary Road 2309, 0.5 mile downstream from Stinking Quarter Creek, 1.8 miles east of Bellemont.	247		12-14-73 1-10-74	119 484

† Formerly published as Little Creek.
a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Cape Fear River basin--Continued				
Haw River 02096829	Cape Fear River	Lat 35°56'29", long 79°18'58", Alamance County, at bridge on Secondary Road 2171, at Saxapahaw, 0.5 mile upstream from Motes Creek.	1,020		4-11-74	1,980
Cane Creek 02096850	Haw River	Lat 35°56'34", long 79°14'46", Orange County, at bridge on State Highway 54, 1.5 miles southwest of Teer, and 2.5 miles upstream from mouth.	31.3	‡1959-73	4- 9-74	81.4
Haw River 02096879	Cape Fear River	Lat 35°53'39", long 79°15'15", Alamance County, at bridge on Secondary Road 1005, 0.7 mile upstream from Cane Creek, and 5.8 miles north of Terrells.	1,090		2-12-74 4-11-74	1,400 1,670
Cane Creek 02096902	Haw River	Lat 35°52'50", long 79°16'59", Alamance County, at bridge on State Highway 87, 2.8 miles northwest of Mandale, and 3 miles upstream from mouth.	68		4-11-74	68.4
Terrells Creek 0209693225	Haw River	Lat 35°49'40", long 79°14'15", Chatham County, at bridge on Secondary Road 1520, 0.6 mile upstream from mouth, and 0.6 mile northwest of Terrells.	a23		12-11-73 4-12-74 6-21-74	2.16 20.2 2.6
Poke Berry Creek 02096968	Haw River	Lat 35°48'40", long 79°06'17", Chatham County, at culvert on Secondary Road 1528, 2.7 miles upstream from Ward Branch, and 5 miles west of Farrington.	4.00		12-11-73 4-18-74 6-18-74 8-30-74	.80 3.58 1.09 .42
Haw River 02097000	Cape Fear River	Lat 35°42'07", long 79°05'12, Chatham County, 0.2 mile downstream from bridge on Secondary Road 1943, 1.2 miles upstream from Stinking Creek, and 5 miles east of Pittsboro.	1,310	‡1928-73	4-17-74	851
Robeson Creek 0209703155	Haw River	Lat 35°42'50", long 79°11'50", Chatham County, 1.3 miles upstream from confluence of Turkey Creek, at Pittsboro	a7.2		12-11-73 4-12-74 6-18-74	.87 5.70 1.0
Robeson Creek 02097039	Haw River	Lat 35°43'01", long 79°10'40", Chatham County, 0.1 mile downstream from State Highway 87, 0.2 mile south of Pittsboro, and 1.2 miles upstream from Turkey Creek.	8.93	1970, 1973	12-11-73 4-12-74	1.44 7.1
Turkey Creek 0209709850	Robeson Creek	Lat 35°42'05", long 79°10'29", Chatham County, at State Highway 87, 1.3 miles south of Pittsboro.	a3.0	1973	12-11-73 4-12-74 6-18-74	.26 2.20 .3
Turkey Creek 02097099	Robeson Creek	Lat 35°42'09", long 79°10'34", Chatham County, upstream from bridge on Secondary Road 1012, 0.8 mile upstream from mouth, and 1.2 miles south of Pittsboro.	a3.8	1954, 1970, 1973	4-16-74	1.93
Robeson Creek tributary 02097145	Robeson Creek	Lat 35°40'50", long 79°09'35", Chatham County, at bridge on Secondary Road 1012, 0.6 mile upstream from mouth, and 1.3 miles southeast of Pittsboro.	a2.7		12-11-73 4-16-74 6-21-74	.59 1.45 .52
Robeson Creek 02097159	Haw River	Lat 35°42'23", long 79°09'13", Chatham County, 1.3 miles downstream from Turkey Creek, 1.6 miles southeast of Pittsboro.	18.6	1970-71, 1973	12-11-73 4-17-74 6-21-74	3.07 16.8 8.00
Robeson Creek 02097189	Haw River	Lat 35°42'10", long 79°05'44", Chatham County, at bridge on Secondary Road 1939, 0.5 mile upstream from mouth, and 4.5 miles southwest of Seaforth.	a27	1954, 1966, 1970-71, 1973	12-11-73	5.09
New Hope Creek 02097198	New Hope River	Lat 35°59'56", long 79°07'18", Orange County, at bridge on Secondary Road 1113, 0.3 mile upstream from Long Branch, and 3 miles northeast of Dobsons Crossroads.	a4.5	1971, 1973	12-12-73	.18
New Hope Creek 0209719840	New Hope River	Lat 35°59'59", long 79°06'55", Orange County, at bridge on Secondary Road 1113, 0.4 mile upstream from Garrett Branch, and 3 miles northwest of Blackwood.	a7.4	1971, 1973	12-12-73	.27
Old Field Creek 0209720109	New Hope Creek	Lat 35°58'48", long 79°03'59", Orange County, at State Highway 86, 0.9 mile northeast of Eubanks, and 1.2 miles upstream from mouth at New Hope Creek.	a2.1		4- 3-74	1.63
Little Creek tributary 02097207	Little Creek	Lat 35°59'20", long 78°59'46", Orange County, 0.1 mile south of entrance to Triangle Nursing Home #1 (on Secondary Road 1718), 200 ft upstream from sewage outfall at Triangle Nursing Home #1, and 4.3 miles east of Blackwood.	Indeterminate	1971, 1973	4- 3-74	.02
New Hope Creek 02097209	New Hope River	Lat 35°58'30", long 79°00'00". Orange County, downstream from New Hope Creek tributary, 1.2 miles downstream from Little Creek, and 4.1 miles east of Eubanks.	a32	1971, 1973	4- 3-74	37.4

a Approximately.
‡ Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Cape Fear River basin--Continued				
New Hope Creek 02097220	New Hope River	Lat 35°57'34", long 78°58'54", Durham County, at bridge on U.S. Highways 15-501, 0.5 mile upstream from Mud Creek, and 5 miles southwest of Durham.	a36	1971, 1973	4- 3-74	43.7
Mud Creek 02097224	New Hope Creek	Lat 35°57'38", long 78°58'47", Durham County, at bridge on U.S. Highways 15-501, 0.2 mile upstream from mouth, and 5 miles southwest of Durham.	5.98	1962, 1968, 1970, 1973	4- 3-74 6-17-74	3.49 *1.08
New Hope Creek tributary 02097233	New Hope Creek	Lat 35°57'16", long 78°58'23", Durham County, at culvert on Secondary Road 1116, 0.4 mile upstream from mouth, and 5 miles southwest of Durham.	a1.8	1970, 1971	4- 3-74 6-12-74	.63 .41
New Hope Creek tributary No. 2 02097235	New Hope Creek	Lat 35°56'41", long 78°59'01", Durham County, at culvert on Secondary Road 1110, 0.7 miles upstream from mouth, and 6 miles southwest of Durham.	a.5	1970, 1973	4- 3-74 6-17-74	.13 0
Third Fork Creek 02097262	New Hope River	Lat 35°56'47", long 78°55'49", Durham County, at end of Secondary Road 1168, downstream from effluent outfall at Durham's Third Fork Creek waste treatment plant, and upstream from sewage effluent outfall at Durham's Hope Valley waste treatment plant, and 1.5 miles west of Keene.	a10	1970, 1971	4- 3-74	10.3
Third Fork Creek 02097299	New Hope River	Lat 35°54'38", long 78°57'39", Durham County, at bridge on State Highway 751, 0.9 mile upstream from mouth, and 1.6 miles north of Bland.	16.5	1970, 1971	4- 2-74	15.2
Bolin Creek 0209734450	Little Creek	Lat 35°55'15", long 79°03'52", Orange County, 0.1 mile upstream from confluence of Tanbark Branch, 0.7 mile upstream from State Highway 86, and 0.7 mile northwest of Chapel Hill.	a7.9		4- 9-74	12.2
Bolin Creek 02097345	Little Creek	Lat 35°55'31", long 79°03'13", Orange County, at culvert on State Highway 86, 0.5 mile north of Chapel Hill, and 0.7 mile upstream from mouth.	a8.5		4- 9-74	13.9
Bolin Creek 02097374	Little Creek	Lat 35°55'29", long 79°01'34", Orange County, at bridge on U.S. Highway 15, 0.5 mile upstream from Booker Creek, and 1.7 miles northeast of Chapel Hill.	11.6	1932	4- 3-74	8.87
Booker Creek 02097386	Little Creek	Lat 35°56'31", long 79°02'58", Orange County, at culvert on Secondary Road 1751, 0.3 mile downstream from Crow Bridge, and 2 miles north of Chapel Hill.	a2.1	1970, 1973	12-12-73	.17
Northeast Creek tributary 02097413	Northeast Creek	Lat 35°55'01", long 78°52'35", Durham County, at culvert on Secondary Road 2028, 0.3 mile upstream from mouth, and 1.3 miles northeast of Lowest Grove.	a.2	1970, 1973	4-12-74 6-18-74	.16 *.04
Northeast Creek 0209741350	New Hope River	Lat 35°54'35", long 78°53'21", Durham County, at bridge on Secondary Road 1945, 0.4 mile upstream from Fork, and 0.7 mile north of Lowes Grove.	a1.0	1970, 1973	4- 2-74 6-18-74	4.10 .65
Harveys Branch 0209741650	Burdens Creek	Lat 35°54'12", long 78°51'18", Durham County, at culvert on Secondary Road 1121, 1.1 miles upstream from mouth, and 1.4 miles northwest of Nelson.	a.1	1970, 1973	4- 2-74 6-18-74	.02 *.01
Harveys Branch 0209741660	Burdens Creek	Lat 35°53'54", long 78°51'37", Durham County, at culvert on Secondary Road 1999, 0.4 mile upstream from mouth, and 1.2 miles northwest of Nelson.	a.2	1970, 1973	4- 2-74	.01
Burdens Creek 0209741670	Northeast Creek	Lat 35°53'37", long 78°52'05", Durham County, at culvert on State Highway 54, 1.2 miles upstream from Buck Branch, and 1.2 miles northwest of Nelson.	a.3	1970, 1973	4- 2-74	.44
Lake Branch 0209741675	Burdens Creek	Lat 35°54'18", long 78°51'38", Durham County, at culvert on Secondary Road 112, 0.9 mile upstream from mouth, and 1.6 miles northwest of Nelson.	a.4	1970, 1973	4- 2-74 6-18-74	.04 *.004
Lake Branch 0209741677	Burdens Creek	Lat 35°53'37", long 78°52'05", Durham County, at culvert on State Highway 54, 0.1 mile upstream from mouth, and 1.3 miles northwest of Nelson.	a1.0	1970, 1973	4- 2-74 6-18-74	.02 *.009
Burdens Creek 02097417	Northeast Creek	Lat 35°53'03", long 78°53'39", Durham County, at bridge on State Highway 55, 0.3 mile upstream from mouth, and 1.2 miles south of Lowes Grove.	5.38	1970, 1973	4- 2-74	1.90
Northeast Creek 0209741955	New Hope Creek	Lat 35°52'20", long 78°54'49", Durham County, at bridge on Secondary Road 1100, 1.3 miles west of Genlee, and 1.6 miles downstream from Burdens Creek.	a22	1970, 1973	4- 2-74	14.5

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Cape Fear River basin--Continued				
Northeast Creek tributary 02097421	Northeast Creek	Lat 35°53'00", long 78°54'50", Durham County, upstream from Secondary Road 1102, 0.8 mile upstream from mouth, and 1.9 miles southwest of Lowes Grove.	0.73	1970, 1973	4- 2-74 6-18-74	0.28 0
Morgan Creek 0209746350	New Hope River	Lat 35°57'44", long 79°08'06", Orange County, at culvert on Secondary Road 1112, and 1.7 miles east-southeast of Dodsons Crossroads.	a2.2		12-12-73 4- 9-74	.34 3.84
Phils Creek 0209747698	Morgan Creek	Lat 35°54'43", long 79°08'02", Orange County, at bridge on Secondary Road 1945, 1.9 miles upstream from mouth, and 2.6 miles southwest of Calvander.	a5.0		4- 9-74	8.47
Two Bottle Branch 0209749681	Burdens Creek	Lat 35°54'39", long 78°51'58", Durham County, at culvert on Secondary Road 1121, 1.8 miles upstream from mouth, and 2.1 miles northwest of Nelson.	a2.9	1970, 1973	4- 2-74 6-18-74	.02 *.01
Burdens Creek 0209749692	Northeast Creek	Lat 35°53'24", long 78°52'52", Durham County, at culvert on Secondary Road 2028, 0.1 mile downstream from Two Bottle Branch, and 0.9 mile southeast of Lowes Grove.	a4.2	1970, 1973	4- 2-74 6-18-74	1.48 .07
Morgan Creek 02097506	New Hope River	Lat 35°53'54", long 79°04'25", Orange County, at bridge on Secondary Road 1919, 1.2 miles south of Carrboro, and 1.7 miles downstream from University Lake.	a32	1970	4- 9-74	51.7
Morgan Creek 02097514	New Hope River	Lat 35°53'38", long 79°01'46", Orange County, 150 ft downstream from sewage treatment plant, 0.8 mile upstream from Chapel Creek, and 2 miles southeast of Chapel Hill.	a38	1970, 1973	4- 9-74	81.8
Cub Creek 02097526	New Hope River	Lat 35°50'15", long 79°05'25", Chatham County, at culvert on U.S. Highways 15-501, 4.9 miles from Farrington, and 5.6 miles upstream from mouth.	a.3		12-11-73 4-12-74 6-21-74 8-30-74	.01 .28 .06 .07
New Hope River 02098156	Haw River	Lat 35°41'40", long 79°02'31", Chatham County, at bridge on Secondary Road 1700, 0.2 mile downstream from Beaver Creek, and 6 miles northwest of New Hill.	340		12-11-73 4-17-74 8-30-74	218 172 80.8
Shaddox Creek 02098218	Haw River	Lat 35°36'54", long 79°02'23", Chatham County, at bridge on Secondary Road 1011, and 2.2 miles east of Moncure.	5.59	1954, 1966	4-18-74 6-18-74 8-29-74	2.5 .74 .20
West Fork Deep River 0209831460	Deep River	Lat 36°05'01", long 80°02'33", Forsyth County, at culvert on Secondary Road 2602, and 3.1 miles southeast of Kernersville.	a3.7		4-15-74	1.24
Long Branch 02099007	East Fork Deep River	Lat 36°02'28", long 79°56'16", Guilford County, at bridge on Secondary Road 1541, 1.1 miles upstream from mouth, and 1.7 miles northeast of Deep River.	2.21	1962, 1966	4-15-74 6-13-74	2.97 1.07
Deep River 02099193	Cape Fear River	Lat 35°58'46", long 79°55'41", Guilford County, at bridge on Secondary Road 1352, 250 ft upstream from Bull Run, and 1.1 miles southeast of Jamestown.	a66	1971, 1973	4-15-74	56.5
Deep River 02099324	Cape Fear River	Lat 36°58'22", long 79°55'06", Guilford County, at bridge on U.S. Highways 29 and 70, 0.7 mile downstream from Bull Run, and 1.8 miles southeast of Jamestown.	a75	1971	6-13-74	46.4
Deep River 02099399	Cape Fear River	Lat 35°57'32", long 79°54'25", Guilford County, at bridge on Secondary Road 1113, 0.7 mile downstream from Copper Branch, and 2.9 miles southeast of Jamestown.	77.4		4-16-74 6-13-74	44.4 18.9
Richland Creek 02099484	Deep River	Lat 35°56'26", long 79°54'08", Guilford County, at bridge on Secondary Road 1147, 0.2 mile upstream from mouth, and 4 miles southwest of Groomtown.	16.3	1971, 1973	4-16-74 6-13-74	21.6 17
Deep River 0209948955	Cape Fear River	Lat 35°56'16", long 79°53'26", Guilford County, at bridge on Secondary Road 1129, 0.8 mile downstream from Richland Creek, and 4.6 miles southeast of Jamestown.	a96	1971, 1973	6-13-74	91.8
Hickory Creek tributary 0209948975	Hickory Creek	Lat 35°59'30", long 79°52'02", Guilford County, at culvert on Secondary Road 1129, 0.1 mile south-southwest of Groomtown, and 1 mile upstream from mouth.	Indeterminate		4-16-74 6-13-74	0 0
Hickory Creek tributary 0209948992	Hickory Creek	Lat 35°57'50", long 79°50'49", Guilford County, at bridge on Secondary Road 1132, 1.1 miles upstream from mouth, and 2.3 miles southeast of Groomtown.	a1.3	1971, 1973	4-16-74 6-13-74	.78 .13

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Cape Fear River basin--Continued				
Hickory Creek 02099490	Deep River	Lat 35°57'03", long 79°52'08", Guilford County, at bridge on Secondary Road 1132, 2 miles upstream from mouth, and 7.8 miles east of High Point.	a9.7		4-16-74 6-13-74	7.42 1.88
Reddicks Creek 0209949155	Deep River	Lat 36°00'39", long 79°53'02", Guilford County, at bridge on Secondary Road 1372, 0.7 mile south of Sedgefield, and 3 miles upstream from Jenny Branch.	a2.6	1971, 1973	4-15-74 6-13-74	.90 .43
Reddicks Creek 02099492	Deep River	Lat 35°59'10", long 79°52'36", Guilford County, at bridge on Secondary Road 1383, 1.3 miles upstream from Jenny Branch, and 2.4 miles east of Jamestown.	4.93	1971, 1973	4-15-74 6-13-74	4.33 1.35
Muddy Creek 02099815	Deep River	Lat 35°53'55", long 79°55'38", Randolph County, at bridge on Secondary Road 1916, 3.6 miles east of Archdale, and 6.5 miles upstream from mouth.	a8.5		5-10-74 7- 3-74 8-28-74	37 1.83 .94
Deep River 02100096	Cape Fear River	Lat 35°49'24", long 79°48'12", Randolph County, at bridge on U.S. Highway 220, 0.5 mile north of Randleman, and 2.2 miles upstream from Polecat Creek.	a173	1971, 1973	5- 9-74 7- 2-74	2,660 58.8
Polecat Creek 0210017155	Deep River	Lat 35°57'12", long 79°48'43", Guilford County, at bridge on Secondary Road 3428, and 2.9 miles west of Pleasant Garden.	a7.7		4-16-74 6-13-74	4.23 1.46
Polecat Creek tributary 0210017195	Polecat Creek	Lat 35°58'17", long 79°16'54", Guilford County, at culvert on Secondary Road 3433, 1.2 miles northwest of Pleasant Garden, and 3.4 miles upstream from mouth.	Indeterminate		4-16-74 6-13-74	.002 0
Deep River 02100219	Cape Fear River	Lat 35°48'05", long 79°46'40", Randolph County, at bridge on Secondary Road 2128, 0.2 mile downstream from Polecat Creek, and 0.5 mile northeast of Worthville.	a230	1971, 1973	5- 9-74 7- 2-74 8-28-74	2,410 94.6 35.7
Haskett Creek 02100294	Deep River	Lat 35°45'33", long 79°47'35", Randolph County, at bridge on Secondary Road 2149, 0.1 mile downstream from Penwood Branch, and 3.5 miles north of Asheboro.	a9.9	1971, 1973	5-10-74 7- 3-74 8-27-74	28.2 1.77 1.15
Haskett Creek 02100307	Deep River	Lat 35°46'05", long 79°46'45", Randolph County, at culvert on Secondary Road 2128, 0.2 mile upstream from mouth, and 0.5 mile north of Central Falls.	a11	1966, 1971, 1973	5-10-74	35.1
Deep River 02100319	Cape Fear River	Lat 35°45'45", long 79°46'20", Randolph County, at bridge on State Highway 49A, 0.5 mile downstream from Haskett Creek, and 0.5 mile northeast of Central Falls.	a250		5- 9-74	1,180
Deep River 02100344	Cape Fear River	Lat 35°44'20", long 79°44'10", Randolph County, at bridge on Secondary Road 2221, at Cedar Falls, 0.5 mile upstream from Bush Creek.	a260	1971	5- 9-74 8-27-74	814 41.0
Deep River 02100369	Cape Fear River	Lat 35°44'32", long 79°42'07", Randolph County, at Franlinville, and 2 miles upstream from Sandy Creek.	280	1973	8-27-74	49.0
Deep River 02100599	Cape Fear River	Lat 35°40'20", long 79°37'39", Randolph County, at bridge on Secondary Road 2628, 0.8 mile downstream from Mill Creek, and 2.5 miles southwest of Parks Crossroads.	a390	1971, 1973	7- 3-74 8-27-74	191 97.4
Blood Run Creek 0210070125	Cape Fear River	Lat 35°45'05", long 79°28'50", Chatham County, at culvert on U.S. Highway 421, 1.3 miles northwest of Siler City, and 4.2 miles upstream from mouth.	a.2		4-15-74 6-25-74 8-28-74	.01 .03 .01
Blood Run Creek 0210070165	Cape Fear River	Lat 35°44'30", long 79°29'10", Chatham County, at culvert on Secondary Road 1108, 0.5 mile northwest of Siler City, and 4.7 miles upstream from mouth.	a.7		4-15-74 6-25-74 8-29-74	.19 .03 .004
Deep River 02100747	Cape Fear River	Lat 35°30'03", long 79°34'57", Moore County, at bridge on Secondary Road 1456, at Howards Mill, 3.2 miles upstream from Bear Creek, and 4.9 miles north of Robbins, and at river mile 55 upstream from mouth.	a630		4-30-74 7- 8-74 9- 4-74	248 230 793
Bear Creek 02100769	Deep River	Lat 35°31'57", long 79°46'09", Randolph County, 50 ft upstream from sewage outfall at Luck's Inc., 0.2 mile upstream from culvert on State Highway 705, and 0.6 mile southeast of Seagrove.	a.5	1971, 1973	7- 3-74 8-27-74	0 0
Bear Creek 02100771	Deep River	Lat 36°31'55", long 79°45'54", Randolph County, at culvert on State Highway 705, 0.2 mile upstream from first culvert on State Highway 705, and 0.8 mile southeast of Seagrove.	a.6	1971, 1973	8-26-74	.06

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Cape fear River basin--Continued				
Cabin Creek 02100842	Bear Creek	Lat 35°13'07", long 79°44'07", Montgomery County, 0.1 mile downstream from sewage outfall at Candor's Sewage Treatment Plant, 0.6 mile upstream from culvert on Secondary road 1509, and 0.7 mile northeast of Candor.	a0.7	1971	6-19-74 8-26-74	0.07 .02
Cabin Creek 02100843	Bear Creek	Lat 35°18'38", long 79°44'14", Montgomery County, at bridge on Secondary Road 1509, 1.2 miles north of Candor, and 6.5 miles upstream from Cotton Creek.	a1.5	1971-72	5-16-74 6-19-74 8-26-74	1.5 .77 .72
Cotton Creek 02100859	Cabin Creek	Lat 35°23'15", long 79°45'55", Montgomery County, at culvert on Secondary Road 1369, 1.3 miles upstream from Lick Creek, and 1.5 miles southeast of Star.	a.9	1971	6-19-74 8-26-74	.57 0
Mill Creek 02100862	Lick Creek	Lat 35°21'38", long 79°45'48", Montgomery County, at bridge on State Highway 27, 0.5 mile upstream from mouth, and 1 miles northeast of Biscoe.	a1.4	1971-72	6-19-74 8-26-74	0 0
Bear Creek 02101001	Deep River	Lat 35°26'10", long 79°35'13", Moore County, at bridge on State Highway 705, 0.5 mile north of Robbins, and 1 mile downstream from Cabin Creek.	a135	1973	10-10-73	*3.97
Bear Creek 02101005	Deep River	Lat 35°27'08", long 79°34'48", Moore County, at end of Secondary Road 1475, 1.5 miles north of Robbins, and 2.5 miles upstream from mouth.		1971	4-30-74	54.8
Killetts Creek 02101179	McLendons Creek	Lat 35°20'03", long 79°26'13", Moore County, at culvert on Secondary Road 1240, 1.4 miles southwest of Carthage, and 3.4 miles upstream from mouth.	a2.0	1971, 1973	10-10-73 4-30-74 6-19-74	0 1.27 .32
Cedar Creek tributary 02101502	Cedar Creek	Lat 35°34'37", long 79°18'35", Chatham County, at culvert on U.S. Highway 421, 0.7 mile upstream from mouth, and 2.2 miles northwest of Gulf.	a.02		4-15-74 7- 1-74 8-29-74	0 0 .04
Cedar Creek 02101504	Deep River	Lat 35°34'00", long 79°17'05", Chatham County, at bridge on Secondary Road 2142, 0.8 mile from ulf, and 2.2 miles upstream from mouth.	a4.5		4-15-74 7- 1-74 8-29-74	2.8 .19 0
Cedar Creek 02101506	Deep River	Lat 35°34'05", long 79°14'45", Chatham County, at bridge on Secondary Road 2145, 0.1 mile upstream from mouth, and 2.5 miles northeast of Gulf.	a12.9		4-15-74 7- 1-74 8-29-74	1.8 0 .57
Big Buffalo Creek 02101539	Deep River	Lat 35°30'40", long 79°12'12", Lee County, at bridge on Secondary Road 1405, 2.5 miles downstream from Skunk Creek, and 3 miles southwest of Colon.	a12	1970, 1972-73	5- 8-74 6- 7-74	4.2 7.82
Big Buffalo Creek tributary 02101540	Big Buffalo Creek	Lat 35°30'44", long 79°11'16", Lee County, at culvert on U.S. Highways 1, 15 and 501, 1 mile upstream from mouth, and 3.4 miles north-northwest of Sanford.	a.2		6- 6-74 8-30-74	.002 0
Purgatory Creek 02101542	Big Buffalo Creek	Lat 35°33'26", long 79°13'56", Lee County, at culvert on U.S. Highway 421, 0.7 mile upstream from mouth, and 2.2 miles south of Cumnock.		1970, 1973	6- 6-74 8-30-74	.55 .10
North Branch Rocky River 02101686	Rocky River	Lat 35°51'20", long 79°32'30", Randolph County, at bridge on State Highway 49, 1.5 miles northeast of Liberty, and 6.3 miles upstream from mouth.	a2.6	1971, 1973	5-10-74 7- 8-74 8-28-74	17.3 1.04 .96
Loves Creek 02101739	Rocky River	Lat 35°44'10", long 79°26'06", Chatham County, upstream from sewage plant, 1.5 miles upstream from mouth, and 1.5 miles east of Siler City.	a7.7	1954-55	4-15-74 6-25-74 8-29-74	4.5 .83 .32
Loves Creek 0210175555	Rocky River	Lat 35°43'57", long 79°25'23", Chatham County, at mouth, 1 mile downstream from sewage disposal plant, and 2.3 miles east of Siler City.	a9.0	1973	6-25-74	3.9
Rocky River 02101792	Deep River	Lat 35°42'06", long 79°22'39". Chatham County, at bridge on Secondary Road 2170, 2.5 miles upstream from Tick Creek, and 3.4 miles northeast of Mt. Vernon Springs.	93.2	1970, 1973	10-23-73	2.56
Rocky River 02101946	Deep River	Lat 35°37'20", long 79°11'18", Chatham County, at bridge on State Highway 87, 3 miles upstream from mouth, and 4 miles northeast of Coalglen.	a230		2-28-74 4- 6-74 6-23-74	139 150 31.2
Lick Creek 0210214010	Cape Fear River	Lat 35°28'48", long 79°07'20", Lee County, 2.5 miles east of Sanford, and 7.4 miles upstream from mouth.	a1.9		5- 8-74 6- 6-74 9- 3-74	2.08 2.61 1.43
Cary Creek tributary 0210218650	Cary Creek	Lat 35°35'19", long 78°54'25", Wake County, at culvert on Secondary Road 1116, 0.2 mile southwest of Burt, and 1.4 miles upstream from mouth.	a10		3- 2-74 7-17-74 8-30-74	20.3 *2.11 7.33

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements: Date	Measurements: Discharge (cfs)
		Cape Fear River basin--Continued				
Kenneth Creek 02102384	Neals Creek	Lat 35° 34'14", long 78°47'04", Wake County, at bridge on Secondary Road 2770, 1.1 miles southeast of Fuquay Springs, and 1.8 miles upstream from mouth.	a1.0		3- 2-74 7-17-74 8-30-74	3.1 *.35 .35
Kenneth Branch 02102457	Neals Creek	Lat 35° 32'01", long 78°47'41", Harnett County, at bridge on Secondary Road 1415, 2.2 miles northeast of Chalybeate, and 2.6 miles upstream from mouth.	a14	1955, 1970, 1972-73	4-26-74	6.31
Buies Creek 02102517	Cape Fear River	Lat 35° 23'52", long 78°44'52", Harnett County, at mouth of East Buies Creek, and 1 mile southwest of Buies Creek.	a7.7		6- 5-74	.04
Buies Creek 0210252355	Cape Fear River	Lat 35° 23'40", long 78°45'00", Harnett County, at Secondary Road 1519, 0.7 mile upstream from mouth, and 1.2 miles southwest of Buies Creek.	a25.9		6- 5-74	6.29
Mulatto Branch 02102542	Cape Fear River	Lat 35° 23'35", long 79°11'45", Lee County, at bridge on Secondary Road 1156, 1.5 miles upstream from mouth, and 4.3 miles south-southwest of Sanford.	a1.2		6- 6-74 9- 3-74	1.88 .05
Upper Little River 02102550	Cape Fear River	Lat 35° 24'08", long 79°07'47", Lee County, upstream from confluence of Gastors Creek, 1 mile downstream from Secondary Road 1146, and 3.8 miles northeast of Lemon Springs.	a19		2-26-74 4- 8-74 5- 8-74	26.4 29.0 5.45
Gasters Creek 02102557	Upper Little River	Lat 35° 27'15", long 79°08'30", Lee County, at culvert over Gasters Creek, 1.6 miles southeast of Sanford, and 3.3 miles upstream from mouth.	a.1		6- 6-74 9- 3-74	.03 .01
Gasters Creek tributary 02102559	Gasters Creek	Lat 35° 27'25", long 79°08'45", Lee County, at culvert on Secondary Road 1306, 1.4 miles southeast of Sanford, and 3.5 miles upstream from mouth.	Indeterminate		6- 6-74 9- 3-74	.13 0
Gasters Creek 0210256025	Upper Little River	Lat 35° 27'00", long 79°08'46", Lee County, at Secondary Road 1132, 1.8 miles upstream from mouth, and 2.6 miles southeast of Sanford.	a.5	1973	9- 3-74	.22
Gasters Creek 02102573	Upper Little River	Lat 35° 25'19, long 79°08'24", Lee County, at bridge on Secondary Road 1133, 1.5 miles upstream from mouth, and 4.5 miles southeast of Sanford.	a4.4	1973	5- 8-74 9- 3-74	2.95 4.15
Juniper Creek 02102578	Little River	Lat 35° 23'52", long 79°07'16", Lee County, at mouth, and 1.3 miles northwest of Swann.	a16		5- 8-74 9- 3-74	7.27 5.76
Upper Little River 02102582	Cape Fear River	Lat 35° 24'55", long 79°05'16", Lee County, at bridge on Secondary Road 1529, 0.2 mile upstream from Patchet Creek, and 2.8 miles northwest of Swann.	a51	1966, 1968	5- 8-74 6- 6-74 9- 3-74	22.8 43.5 33.8
Upper Little River 02102634	Cape Fear River	Lat 35°19'33", long 78°43'21", Harnett County, at bridge on Secondary Road 2021, 1.5 miles upstream from mouth, and 2.8 miles west of Erwin.	a210	1968	12-10-73 4-29-74 6- 5-74 9- 6-74	94.5 81.6 277 461
Little River 02102704	Cape Fear River	Lat 35° 16'15", long 79°29'33", Moore County, at bridge on Secondary Road 1210, 2.8 miles southeast of Harris, and 4.5 miles upstream from Wads Creek.	a9.5	1965	4- 8-74 4-30-74 7- 8-74 9- 4-74	19.8 7.31 3.56 17.0
Joes Fork 02102766	Nicks Creek	Lat 35° 13'37", long 79°27'26", Moore County, at bridge on Secondary Road 1216, 0.4 mile upstream from mouth, and 1.4 miles southwest of Eastwood.	5.84	1955, 1973	10-10-73	*5.00
Nicks Creek 02102792	Little River	Lat 35° 15'49", long 79°23'50", Moore County, at mouth, 6.2 miles northwest of Pinehurst.	a27.0		4-29-74 6-20-74 9- 4-74	23.2 14.6 50.6
Lower Little River 02102796	Cape Fear River	Lat 35°15'15", long 79°18'47", Moore County, at raw water intake, 1.1 miles downstream from confluence of Pond Branch, and 1.6 miles west of Vass.	a74		4-30-74 6-20-74 9- 4-74	49.2 50.7 72.3
Mill Creek 02102801	Cape Fear River	Lat 35° 12'55", long 79°24'05", Moore County, at Southern Pines water intake, 3.4 miles southeast of Eastwood, and 4.5 miles upstream from McDeeds Creek.	1.90		4-29-74	0
McDeeds Creek 02102813	Mill Creek	Lat 35° 11'31", long 79°23'10", Moore County, at bridge on State Highway 2, 1 mile north of Southern Pines, and 4.1 miles upstream from mouth.	2.23	1955, 1965, 1973	10-10-73	*2.82
McDeeds Creek 02102849	Mill Creek	Lat 35° 13'00", long 79°21'31", Moore County, at bridge on Secondary Road 1802, 0.7 mile northwest of Niagara, and 1.5 miles upstream from mouth.	7.19	1973	10-10-73	*7.42

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Cape Fear River basin--Continued				
McDeeds Creek 0210284950	Mill Creek	Lat 35°13'43", long 79°20'46", Moore Creek, at bridge on Secondary Road 1853, 0.3 mile upstream from mouth, and 1.5 miles northeast of Niagara.	a8.2	1973	4-29-74 6-20-74	7.62 14.1
Mill Creek 02102859	Little River	Lat 35°14'06", long 79°20'09", Moore County, at bridge on Secondary Road 1853, 0.6 mile downstream from McDeeds Creek, and 1.7 miles north of Skyline.	15.9	1973	10-10-73	*8.96
Little River 02103000	Cape Fear River	Lat 35°11'38", long 78°59'14", Cumberland County, at bridge on State Highway 87, at Manchester, and 0.3 mile upstream from Tank Creek.	348	†1938-50, 1968, 1973	10-10-73	97.6
Little River 02103348	Cape Fear River	Lat 35°12'07", long 78°57'12", Cumberland County, at bridge on State Highway 210, 1 mile upstream from McLeoud Creek, and 2 miles east of Manchester.	360	1955, 1968, 1973	10-10-73 12-10-73	114 386
Little River 02103550	Cape Fear River	Lat 35°15'49", long 78°44'26", Harnett County, at bridge on State Highway 217, 0.5 mile downstream from Stewarts Creek, and 0.5 mile north of Linden.	a4.70		12-10-73 4-29-74 6- 5-74 9- 6-74	443 262 885 970
Carvers Creek 0210364910	Cape Fear River	Lat 35°10'24", long 78°52'06", Cumberland County, at Secondary Road 1658, 0.3 mile upstream from tributary, and 2.5 miles west of Slocomb.	a5.6	1973	10- 3-73 12-11-73 5-13-74	3.11 9.13 50.1
Carvers Creek tributary No.1 0210365050	Carvers Creek	Lat 35°09'30", long 78°52'09", Cumberland County, at U.S. Highway 401, 1.1 miles upstream from mouth, and 3 miles southwest of Slocomb.	a2.1	1973	10- 3-73 12-10-73 5-13-74	.43 .20 7.7
Carvers Creek tributary No.2 0210365075	Carvers Creek	Lat 35°09'03", long 78°52'15", Cumberland County, at U.S. Highway 401, 0.5 mile upstream from mouth, and 3.2 miles southwest of Slocomb.	a3.8	1973	10- 3-73 12-10-73 5-13-74	3.01 4.03 14.8
Carvers Creek 0210365090	Cape Fear River	Lat 35°08'50", long 78°51'23", Cumberland County, downstream from Carvers Creek Falls, 1 mile upstream from mouth, and 2.8 miles west-southwest of Slocomb.	a16	1973	10- 3-73 12-11-73 5-13-74	3.90 5.55 55.2
Cross Creek 02103770	Cape Fear River	Lat 35°04'48", long 78°53'19", Cumberland County, at intake structure upstream from bridge on Langdon Street, at Fayetteville, and 1 mile upstream from Little Cross Creek.	14.7	1955, 1966-68, 1970	5-14-74 7- 8-74 8-30-74	g30 g20.3 g16.6
Hybarts Branch 02103967	Branson Creek	Lat 35°04'35", long 78°56'26", Cumberland County, at bridge on Secondary Road 1416, 2 miles upstream from Branson Creek, and 3.5 miles northwest of Fayetteville.	.22	1973	12-12-73 7-18-74 8-30-74	0 .17 .09
Hybarts Branch 02103973	Branson Creek	Lat 35°03'50", long 78°55'48", Cumberland County, at culvert on Morganton Road, at Fayetteville, 1 mile upstream from Branson Creek.	1.06	1973	10-10-73 12-11-73 7- 8-74 8-30-74	0 .01 .16 .14
Buzzard Branch 02104088	Locks Creek	Lat 35°02'38", long 78°50'58", Cumberland County, at Seaboard Coast Line Railroad bridge, upstream from mouth, and 2 miles east of Fayetteville.	.42	1955, 1973	10-11-73 12-11-73	4.28 10.6
Rockfish Creek 02104244	Cape Fear River	Lat 34°58'54", long 79°11'46", Hoke County, at bridge on U.S. Highway 401 (business), 1.7 miles east of Raeford, and 4.5 miles upstream from Beaver Creek.	a96	1973	10- 2-73 4-24-74 7- 7-74 8-26-74	124 126 122 211
Rockfish Creek 02104279	Cape Fear River	Lat 34°58'10", long 79°06'40", Hoke County, at bridge on Secondary Road 1432, 0.2 mile downstream from Puppy Creek, and 1.2 miles northeast of Arabia.	a150	1973	10- 2-73 4-24-74 6- 7-74	207 203 208
Rockfish Creek 02104288	Cape Fear River	Lat 35°57'15", long 79°03'30", Hoke County, at Secondary Road 1406, 0.5 mile downstream from Mill Creek, and 2.8 miles south of Rockfish.	a160	1973	10- 2-73 4-24-74	169 241
Rockfish Creek 0210429150	Cape Fear River	Lat 34°57'38", long 78°58'21", Cumberland County, at Secondary Road 1115, 1.7 mile southwest of Hope Mills, and 3.4 miles upstream from Little Rockfish Creek.	a183	1973	10-15-73	199
Rockfish Creek 02104298	Cape Fear River	Lat 34°57'38", long 78°56'39", Cumberland County, at State Highway 59, at Hope Mills, and 2 miles upstream from Little Rockfish Creek.	a190	1973	10-11-73	132
Jacks Ford Branch 02104341	Big Beaver Creek	Lat 35°05'45", long 78°57'55", Cumberland County, 0.5 mile upstream from mouth, and 6 miles northwest of Fayetteville.	.42		10-11-73 8-30-74	.31 .59

† Operated as a continuous-record gaging station.
a Approximately.
g Also Partial-record station.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Cape Fear River basin--Continued				
Beaver Creek 02104346	Little Rockfish Creek	Lat 35°05'00", long 78°58'10", Cumberland County, at bridge on Secondary Road 1415, 1 mile southwest of Bonnie Doone, and 2 miles upstream from Stewart Creek.	10.3	1973	12-11-73 5-13-74	6.46 39.1
Stewart Creek 02104356	Beaver Creek	Lat 35°04'25", long 79°00'43", Cumberland County, at bridge on Secondary Road 1403, 0.1 mile downstream from dam, and 0.9 mile north of Clifdale.	5.20	1973	10-10-73 12-11-73 5-14-74	4.58 1.14 14.5
Stewart Creek 0210435650	Beaver Creek	Lat 35°04'01", long 78°59'47", Cumberland County, 0.8 mile downstream from Secondary Road 1403, 1 mile upstream from mouth, and 1.1 miles northeast of Clifdale.	a6.1	1973	10-10-73 12-11-73 5-14-74 7- 9-74	4.01 9.72 9.49 11.4
Beaver Creek 02104357	Little Rockfish Creek	Lat 35°03'32", long 78°58'53", Cumberland County, at bridge on Secondary Road 1400, 0.1 mile downstream from Beaver Creek Pond, and 4.5 miles north of Cumberland.	22.6	1973	10-10-73 12-12-73 5-14-74	13.9 21.7 71.4
Beaver Creek 02104362	Beaver Creek	Lat 35°02'39", long 78°58'40", Cumberland County, at bridge on U.S. Highway 401, 1.1 miles south of Skibo, and 1.3 miles upstream from Cumberland Creek.	24.7		5-14-74	58.7
Beaver Creek tributary 0210436450	Beaver Creek	Lat 35°02'38", long 78°58'34", Cumberland County, at culvert on U.S. Highway 401, 0.9 mile upstream from mouth, and 1.1 miles south of Skido.	a1.1	1973	10-10-73 12-12-73	.25 .72
Beaver Creek tributary No.1 02104375	Beaver Creek	Lat 35°03'40", long 79°01'25", Cumberland County, at bridge on Secondary Road 1409, 0.4 mile southeast of Clifdale.	a.1		7- 9-74	0
Beaver Creek 02104380	Little Rockfish Creek	Lat 35°00'00", long 78°58'44", Cumberland County, at bridge on Secondary Road 1141, at Cumberland, and 1 mile upstream from mouth.	32.2	1961-65, 1968, 1973	10-11-73 12-12-73 5-14-74 7- 9-74 8-30-74	4.19 1.51 3.5 1.68 1.99
Little Rockfish Creek 02104386	Rockfish Creek	Lat 34°59'12" long 78°57'38", Cumberland County, at bridge on Secondary Road 1003, 0.8 mile upstream from Buckhead Creek, and 1 mile southeast of Cumberland.	83.7	1973	10- 2-73 12-12-73 5-14-74	76.1 150 219
Buckhead Creek 02104387	Little Rockfish Creek	Lat 35°02'36", long 78°56'59", Cumberland County, at bridge on U.S. Highway 401, at Owens, and 4.7 miles upstream from mouth.	1.84	1973	10-10-73 8-30-74	.28 .98
Buckhead Creek 0210438750	Little Rockfish Creek	Lat 35°59'07", long 78°57'08", Cumberland County, at culvert on Secondary Road 1222, 1.3 miles south-southeast of Owens, and 3.5 miles upstream from mouth.	a2.8	1973	10-11-73 12-12-73 5-14-74 7- 9-74	1.58 2.09 5.05 3.20
Little Rockfish Creek 0210439050	Rockfish Creek	Lat 34°58'03", long 78°56'27", Cumberland County, at bridge on Secondary Road 1132 at Hope Mills, and 1.6 mile upstream from mouth.	a95	1973	10-15-73 12-12-73	79.2 39.5
Little Rockfish Creek 0210439333	Rockfish Creek	Lat 34°58'00", long 78°55'04", Cumberland County, at Secondary Road 1131, 0.1 mile upstream from mouth, and 1.6 miles southeast of Hope Mills.	a97	1973	10-15-73 12-12-73 5-14-74	71.6 42.5 236
Rockfish Creek 0210450005	Cape Fear River	Lat 34°57'57", long 78°55'00", Cumberland County, at bridge on U.S. Highway 301, 0.1 mile downstream from Little Rockfish Creek, and 1.7 miles east of Hope Mills.	286		10-15-73 12-12-73	273 476
Livingstone Creek 02105790	Cape Fear River	Lat 34°18'57", long 78°14'18", Columbus County, at bridge on U.S. Highway 74, 1.8 miles west of Acme, and 4 miles upstream from Lynch Gum Branch.	a90	1950-59	6-20-74 8-30-74	7.28 150
Livingstone Creek 0210580160	Cape Fear River	Lat 34°19'43", long 78°12'38", Columbus County, at bridge on State Highway 87, 0.4 mile northwest of Acme, and 1.7 miles upstream from mouth.	a99		8-30-74	220
Great Coharie Creek 0210591620	Coharie Creek	Lat 35°14'38", long 78°27'00", Sampson County, at bridge on Secondary Road 1636, 1.4 miles northeast of Timothy, and 5.2 miles upstream from confluence of Beaverdam Creek.	a1.7		5-21-74 7- 1-74 8-26-74	0 0 .84
Great Coharie Creek 0210595010	Black River	Lat 35°01'28", long 78°17'16", Sampson County, at bridge on Secondary Road 1311, 1.6 miles upstream from Williams Old Mill Branch, and 3.1 miles northwest of Clinton.	a139	1973	12-10-73	46.9
Great Coharie Creek 02105952	Black River	Lat 34°59'38", long 78°22'44", Sampson County, at bridge on State Highway 24, 1.2 miles upstream from Moccasin Branch, and 3.1 miles west of Clinton.	a157	1973	12-10-73	87.7

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Cape Fear River basin--Continued				
Little Coharie Creek 0210596760	Coharie Creek	Lat 35°10'16", long 78°27'23", Sampson County, at bridge on Secondary Road 1477, 2.1 miles southeast of Spiveys Corner, and 2.9 miles upstream from confluence of Long Branch.	a9.2		12-10-73 5-21-74 7- 1-74	3.04 4.31 0
Little Coharie Creek 02105982	Great Coharie Creek	Lat 34°59'20", long 78°31'27", Sampson County, at bridge on Secondary Road 1409, 1 mile upstream from Rye Swamp, and 2 miles southwest of Salemburg.	a77	1973	7- 1-74	28.4
Little Coharie Creek 02105991	Great Coharie Creek	Lat 34°58'39", long 78°30'32", Sampson County, at bridge on State Highway 242, 1.8 mile north of Roseboro, and 3 miles upstream from Bearskin Swamp.	a91	1973	12-10-73	64.6
Coharie Creek tributary 0210604420	Coharie Creek	Lat 34°48'40", long 78°21'47", Sampson County, at Secondary Road 1135, 0.8 mile upstream from mouth, and 1.8 miles northeast of Garland.	a2.5	1973	5-21-74 7- 1-74 8-26-74	1.52 0 .22
Coharie Creek 0210604480	Black River	Lat 34°47'15", long 78°19'23", Sampson County, at bridge on Secondary Road 1134, 0.6 mile upstream from mouth, and 4.1 miles east of Garland.	380		12-11-73 5-22-74 7- 1-74	22.6 229 182
Six Runs Creek 0210608640	Black River	Lat 35°07'13", long 78°15'05", Sampson County, at bridge on Secondary Road 1740, 0.6 mile upstream from Hoe Swamp, and 2.1 miles northwest of Hargrove Crossroads.	a14		7- 2-74 8-28-74	0 0
Stewarts Creek 02106407	Six Runs Creek	Lat 34°59'54", long 78°04'50", Duplin County, at bridge on Secondary Road 1901, 1.3 miles upstream from unnamed tributary, and 1 mile southeast of Warsaw.	a1.7	1973	10- 2-73 12-13-73	.007 .07
Stewarts Creek 02106409	Six Runs Creek	Lat 34°57'49", long 78°04'51", Duplin County, at bridge on U.S. Highway 117, 0.8 mile upstream from unnamed tributary, and 2.3 miles south of Warsaw.	a4.4	1956, 1973	10- 3-73 12-13-73	.50 1.05
Miller Creek 0210641655	Stewarts Creek	Lat 34°54'31", long 78°06'03", Duplin County, at Secondary Road 1107, 2.5 miles upstream from mouth, and 2.8 miles northwest of Magnolia.	a8.4	1973	10- 3-73 5- 5-74 8-28-74	0 3.86 25.6
Six Runs Creek 02106467	Black River	Lat 34°47'40", long 78°18'45", Sampson County, at bridge on Secondary Road 1003, 0.3 mile upstream from mouth, and 3 miles southeast of Ingold.	a270		12-11-73 5-22-74 7- 1-74	240 269 94.9
Black River 02106621	South River	Lat 35°29'26", long 78°42'37", Harnett County, at bridge on Secondary Road 1544, 1.5 miles northwest of Barclaysville, and 15 miles upstream from Popes Pond.	a4.3	1973	4-26-74 6- 5-74 9- 6-74	1.74 2.86 7.36
Black River 02106681	South River	Lat 35°17'03", long 78°38'21", Harnett County, at bridge on Secondary Road 1780, 1.5 miles downstream from Popes Pond, and 2.2 miles southwest of Dunn.	a49	1973	12-10-73 4-29-74 6- 5-74 9- 6-74	0 0 47.6 182
Mingo Swamp 02106711	South River	Lat 35°17'58", long 78°34'36", Harnett County, at bridge on State Highway 55, 1.2 miles upstream from Stony Run, and 2 miles east of Dunn.	a31	1955, 1973	12-10-73	9.43
South River 02107171	Black River	Lat 34°38'23", long 78°18'48", Sampson County, at bridge on Secondary Road 1007, 2 miles southwest of Kerr, and 5.5 miles upstream from mouth.	a470	1955-56	5-22-74 7- 1-74 8-26-74	279 483 2,850
Black River 02107214	Cape Fear River	Lat 34°33'12", long 78°15'12", Sampson County, at bridge on Secondary Road 1100, 2.2 miles downstream from South River, 4.7 miles north-west of Atkinson.	1,250		7- 1-74 8-30-74	1,190 4,660
Colly Creek 0210733955	Black River	Lat 34°39'17", long 78°28'03", Bladen County, at State Highway 41, 1 mile downstream from Little Colly Creek, and 1.5 miles east of White Lake.	a38	1973	8-29-74	195
Colly Creek 02107341	Black River	Lat 34°34'50", long 78°23'13", Bladen County, at bridge on Secondary Road 1532, 1.2 miles upstream from Johns Swamp Branch, and 6.8 miles southeast of White Lake.	a66	1973	8-29-74	290
Black River 02107544	Cape Fear River	Lat 34°25'57", long 78°08'33", Pender County, at bridge on State Highway 210, 3 miles upstream from Moores Creek, and 3.2 miles southwest of Currie.	a1,400		8-29-74	6,180
Northeast Cape Fear River 02107672	Cape Fear River	Lat 35°03'10", long 77°50'17", Duplin County, at bridge on State Highway 11, 0.2 mile upstream from Burn Coal Branch, and 0.8 mile southwest of Kornegay.	a120	1956	12-13-73	152

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements: Date	Measurements: Discharge (cfs)
		Cape Fear River basin--Continued				
Goshen Swamp tributary 0210772380	Goshen Swamp	Lat 35°06'38", long 78°08'36", Duplin County, at State Highway 50, 1 mile northwest of Faison, and 3.5 miles upstream from mouth.	a1.0	1973	10- 3-73 12-14-73	0 3.40
Goshen Swamp 02107724	Northeast Cape Fear River	Lat 35°18'03", long 78°07'16", Duplin County, at bridge on U.S. Highway 117, 0.5 mile upstream from Reedy Branch, and 1.2 miles northeast of Faison.	a59	1956, 1973	10- 3-73 12-14-73 7- 2-74 8-28-74	0 64.6 0 5.71
Reedy Branch 0210777598	Goshen Swamp	Lat 35°06'16", long 78°07'07", Duplin County, at State Highway 403, 0.4 mile west of Faison, and 1.1 miles upstream from mouth.	a3.3	1973	10- 3-73 12-14-73 5- 6-74 7- 2-74	.44 1.21 1.51 .74
Goshen Swamp 02107786	Northeast Cape Fear River	Lat 35°07'09", long 78°05'37", Duplin County, at bridge on State Highway 403, 2.5 miles east of Faison, and 2.5 miles upstream from Bear Swamp.	a66	1973	10- 4-73 12-14-73	0 29.2
Beaverdam Branch 0210798170	Maxwell Creek	Lat 34°51'43", long 78°02'09", Duplin County, at culvert on U.S. Highway 117, 2.5 miles north of Rose Hill, and 2.6 miles upstream from mouth.	a3.0	1973	10- 2-73 5- 5-74	0 2.51
Beaverdam Branch 0210798230	Maxwell Creek	Lat 34°51'57", long 78°00'35", Duplin County, at Secondary Road 1911, 1.3 miles upstream from mouth, and 3 miles northeast of Rose Hill.	a12	1973	10- 3-73 5- 7-74	0 3.43
Maxwell Creek 0210798475	Stocking Head Creek	Lat 34°51'53", long 77°56'21", Duplin County, at Secondary Road 1141, 2.9 miles upstream from mouth, and 1.6 miles northwest of Sutton.	a46	1973	10- 3-73 12-13-73	0 10.9
Muddy Creek tributary 0210798750	Muddy Creek	Lat 34°54'24", long 77°45'00", Duplin County, at Secondary Road 1801, 0.6 mile upstream from mouth, and 1.8 miles southeast of Beulaville.	a3.3	1973	5- 7-74	.80
Muddy Creek 02107989	Cape Fear River	Lat 34°53'10", long 77°45'40", Duplin County, at bridge on Secondary Road 1804, 2.5 miles south of Beulaville, and 8 miles upstream from mouth.	8.42	1973	10- 3-73 12-13-73	0 3.39
Reedy Branch 0210811945	Island Creek	Lat 34°49'52", long 77°59'07", Duplin County, at Secondary Road 1932, 1.9 miles upstream from mouth, and 2.5 miles east of Rose Hill.	a2.5	1973	10- 3-73 8-28-74	0 1.62
Reedy Branch 0210811955	Island Creek	Lat 34°49'51", long 77°58'09", Duplin County, at Secondary Road 1102, 2.2 miles upstream from mouth, and 2.6 miles east of Rose Hill.	4.0	1973	10- 3-73 5- 7-74	0 2.34
Island Creek tributary 02108120	Island Creek	Lat 34°49'20", long 78°01'15", Duplin County, at culvert on U.S. Highway 117, at Rose Hill City limits.	Indeterminate		5- 7-74 7- 2-74 8-28-74	.12 e.04 .47
Island Creek tributary 02108125	Island Creek	Lat 34°49'00", long 78°00'35", Duplin County, at bridge on Secondary Road 1931, 0.8 mile southeast of Rose Hill, and 2.1 miles upstream from mouth.	a.6		8-28-74	1.60
Rockfish Creek 0210821250	Northeast Cape Fear River	Lat 34°45'04", long 78°03'23", Duplin County, at Secondary Road 1170, 0.3 mile upstream from Duffs Creek, and 2.9 miles southwest of Teacheys.	a43	1973	10- 3-73 12-12-73	6.12 24.5
Rockfish Creek 02108502	Northeast Cape Fear River	Lat 34°43'44", long 78°02'43", Duplin County, at bridge on Secondary Road 1154, 0.2 mile upstream from Doctors Creek, and 2.5 miles west of Wallace.	a65	1973	12-12-73	33.6
Little Rockfish Creek 02108543	Rockfish Creek	Lat 34°44'20", long 77°59'00", Duplin County, at bridge on State Highway 41, 0.2 mile west of Tin City, and 2 miles upstream from mouth.	a9.5		10- 3-73 8-29-74	0 12.8
Little Rockfish C Creek 02108552	Rockfish Creek	Lat 34°43'20", long 77°59'00", Duplin County, at bridge on State Highway 11, 0.5 mile upstream from mouth, and 0.2 mile south of Tin City.	a11	1973	12-12-73 5- 6-74 7- 2-74	4.28 4.48 .56
Northeast Cape Fear River 02108564	Cape Fear River	Lat 34°38'50", long 77°52'20", Pender County, at bridge on Secondary Road 1318, 4.9 miles east of Watha, and 5.1 miles upstream from Fish Creek.	a908		12-12-73 8-29-74	564 3,990
Burgaw Creek 0210860020	Northeast Cape Fear River	Lat 34°33'48", long 77°56'05", Pender County, at Secondary Road 1345, 0.9 mile north-northwest of Burgaw.	a.7	1973	10- 3-73 5-15-74	0 1.09
Burgaw Creek 02108601	Northeast Cape Fear River	Lat 34°33'50", long 77°55'20", Pender County, at bridge on U.S. Highway 117, 1 mile northeast of Burgaw, and 8.2 miles upstream from mouth.	a8.8	1973	10- 3-73 12-12-73	.39 1.09
Prince George Creek 02108620	Northeast Cape Fear River	Lat 34°20'19", long 77°52'22", New Hanover County, at bridge on Secondary Road 1318, 1.8 miles upstream from Seaboard Coast Line Railroad bridge, and 2 miles southeast of Castle Hayne	a2.4	1966-67	5-15-74	.12

a Approximately.
e Estimated.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Cape Fear River basin--Continued				
Spring Branch 02108645	Smith Creek	Lat 34°15'20", long 77°52'20", New Hanover County, at culvert on State Highway 132, 1 mile upstream from mouth, and 3.2 miles southwest of Murraysville.	a1.1	1965	5-15-74	0.14
		Waccamaw River basin				
Soules Swamp 02109184	White Marsh	Lat 34°19'33", long 78°48'44", Columbus County, at culvert on U.S. Highways 74 and 76, 0.2 mile upstream from Horsepen Branch, and 0.7 mile northeast of Chadbourn	.53	1959, 1971-72	6-18-74	e.26
Soules Swamp 02109194	White Marsh	Lat 34°19'25", long 78°48'50", Columbus County, downstream from East Side Sewage Plant, at Chadbourn, and 0.1 mile upstream from Horsepen Branch.	.56		6-18-74	e.05
Horsepen Branch 02109224	Soules Swamp	Lat 34°19'05", long 78°49'15", Columbus County, at downstream side of culvert on Secondary Road 1317, 0.5 mile southeast of Chadbourn, and 0.8 mile upstream from mouth.	.75	1971-72	6-19-74	e.05
Soules Swamp 02109244	White Marsh	Lat 34°19'27", long 78°47'58", Columbus County, at culvert on Secondary Road 1005, 1.6 miles east of Chadbourn, and 1.7 miles upstream from Juniper Creek.	a.85	1971-72	6-19-74	.94
Pine Log Branch 02109294	Soules Swamp	Lat 34°20'40", long 78°45'08", Columbus County, at bridge on Secondary Road 1435, 2.8 miles west of Whiteville, and 3.1 miles upstream from mouth.	a5.1	1971-72	6-18-74	.42
Soules Swamp 0210932380	White Marsh	Lat 34°19'00", long 78°42'22", Columbus County, at bridge on U.S. Highway 701 (business), 0.5 mile downstream from Mollie Branch, and 1.5 miles south of Whiteville.	a42		6-19-74	39.9
Richardson Swamp 02109345	White Marsh	Lat 35°17'17", long 78°42'39", Columbus County, at culvert on Old State Highway 120, 0.5 mile west of Brunswick, and 0.9 mile upstream from Richardson Mill pond.	a.3	1971-72	6-18-74	.02
Richardson Swamp tributary 02109365	Richardson Swamp	Lat 34°17'36", long 78°41'44", Columbus County, at culvert on Secondary Road 1951, 0.3 mile upstream from mouth, and 0.6 mile northeast of Brunswick.	a.2	1971-72	6-18-74	e.06
Juniper Creek 02109484	Waccamaw River	Lat 34°09'15", long 78°31'53", Columbus County, at bridge on Secondary Road 1928, 2 miles upstream from mouth, and 3.9 miles east of Old Dock.	a170		6-19-74	152
Skeebo Branch 02109779	Grissett Swamp	Lat 34°07'56", long 78°52'35", Horry County, S.C., at culvert on U.S. Highway 701, 1.5 miles south of Tabor City, N. C., and 2 miles upstream from mouth.	a.5	1971-72	6-19-74	e.22
		Pee Dee River basin				
Yadkin River 02110826	Pee Dee River	Lat 36°04'08", long 81°35'08", Caldwell County, at bridge on Secondary Road 1372, at Finely, and 0.5 mile upstream from Jackson Camp Creek.	a11	1970-73	12- 3-73	*15.8
					4-30-74	*24.2
					6- 3-74	*17.1
					6-27-74	*18.4
					7-24-74	*15.7
					7-30-74	18.1
					8-14-74	36.7
					8-28-74	*19.4
					9-11-74	*31.8
Ararat River 02113576	Yadkin River	Lat 36°33'12", long 80°34'07", Surry County, at bridge on State Highway 104, 2.1 miles northeast of Salem, and 2.2 miles upstream from Johnsons Creek.	36.2	1970-73	12-11-73	*51.5
					4-10-74	*92.9
					5-15-74	*71.4
Ararat River 02114101	Yadkin River	Lat 36°18'08", long 80°31'55", Surry County, at bridge on Secondary Road 2080, 2.2 miles northeast of Siloam, and 2.2 miles upstream from mouth.	a310		12-10-73	642
					5-15-74	*522
					5-29-74	*459
					8- 9-74	603
Yadkin River 02115674	Pee Dee River	Lat 36°00'31", long 80°25'22", Forsyth County, at bridge on U.S. Highway 158, 2 miles southwest of Clemmons, and 1 mile downstream from Blanket Creek.	a1,920	1970-72	4- 4-74	16,300
					7-11-74	*2,620
Little Creek 02115802	Muddy Creek	Lat 36°03'14", long 80°19'43", Forsyth County, at bridge on Secondary Road 1126, 1.3 miles northwest of Frontis, and 3.4 miles upstream from mouth.	a3.3	1970-73	5-21-74	*2.81

a Approximately.
e Estimated.
f Not previously published

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Pee Dee River basin--Continued				
Little Creek 02115804	Muddy Creek	Lat 36°04'04", long 80°19'43", Forsyth County, at bridge on Secondary Road 1122, 0.7 mile west of Atwood, and 1.8 miles upstream from mouth.	a5.9	1970-73	5-21-74	*4.57
Muddy Creek 02115820	Yadkin River	Lat 36°01'28", long 80°21'16", Forsyth County, at bridge on U.S. Highway 158, 0.2 mile downstream from Little Creek, and 1.1 miles east of Clemmons.	105	1949-57, 1959, 1961-63, 1968, 1970-71, 1973	5-21-74	*127
††Kerners Mill Creek 02115826	Muddy Creek	Lat 36°06'58", long 80°05'37", Forsyth County, at Kernersville's water treatment plant upstream from sewage effluent outfall, 1.3 miles southwest of Kernersville, and 2.8 miles upstream from Kerners Mill Creek.	a.72	1970-71	10-17-72	f.17
					6-21-73	f.73
					11-27-73	*.30
					1- 9-74	2.12
					1-29-74	*1.38
					3-22-74	*.61
					4- 4-74	2.61
					4-15-74	*.62
					5-21-74	*.47
					5-31-74	*.41
					6-17-74	*.69
					7-11-74	*.31
					7-29-74	*.25
					9- 5-74	*.23
Salem Creek 02115852	Muddy Creek	Lat 36°03'18", long 80°17'09", Forsyth County, at bridge on Ebert Road, 0.6 mile upstream from Burke Creek, 2 miles north of Five Points.	57.4	1970-73	5-21-74	*90.9
Salem Creek 02115857	Muddy Creek	Lat 36°01'52", long 80°18'50", Forsyth County, at bridge on Secondary Road 1120, 3 miles upstream from mouth, and 5 miles southwest of Winston-Salem.	66.2	1968, 1972	5-21-74	*85.1
Salem Creek 02115858	Muddy Creek	Lat 36°00'31", long 80°20'07", Forsyth County, at bridge on Secondary Road 2991, 0.5 mile upstream from mouth, and 2.2 miles northeast of Muddy Creek.	69.5	1968, 1970-73	5-21-74	*149
Dutchmans Creek 0211668555	Yadkin River	Lat 36°01'13", long 80°39'13", Davie County, at bridge on Secondary Road 1002, 0.6 mile upstream from confluence of Steelman Creek, and 3.5 miles northwest of Stanleys Store.	a13		11-27-73	*8.0
					1- 9-74	28.3
					4- 5-74	164
					4-15-74	*18.0
					5- 9-74	25.3
					5-28-74	*15.2
					6-17-74	*10.4
					7-11-74	*8.13
					7-29-74	*6.93
Dutchmans Creek 02117022	Yadkin River	Lat 35°50'18", long 80°28'41", Davie County, at bridge on State Highway 801, 1.2 miles upstream from mouth, and 2.8 miles southwest of Fork.	a130	1970-73	11-27-73	*38.4
					4- 5-74	95.1
					4-15-74	126
					5- 9-74	690
					5-28-74	140
					6-17-74	151
					7-29-74	*36.2
South Yadkin River 02117055	Yadkin River	Lat 36°00'06", long 81°06'38", Alexander County, at bridge on Secondary Road 1403, 0.5 mile northwest of Vashti, 2.4 miles upstream from confluence of Vashti Creek.	a11		11-28-73	*20.8
					2-12-74	*15.2
					4- 5-74	160
					6- 6-74	*11.2
					7- 1-74	*8.73
					8-14-74	*11.9
South Yadkin River 02119000	Yadkin River	Lat 35°48'10", long 80°33'22", Davie County, at Cooleemee, upstream from State Highway 801, 2.5 miles upstream from Third Creek, and 7.2 miles upstream from mouth.	569	†1928-65, 1970-73	6-26-73	*f539
					3-26-74	915
					6-17-74	827
					8-24-74	*463
South Branch Grants Creek tributary 02120848	South Branch Grants Creek	Lat 35°33'34", long 80°35'14", Rowan County, at bridge on Secondary Road 1197, 0.4 mile upstream from mouth, and 1.2 miles northeast of Landis.	a6	1970-73	1-22-74	*3.66
South Branch Grants Creek 02120852	Grants Creek	Lat 35°34'44", long 80°35'15", Rowan County, at culvert on State Highway 152, 0.8 mile northwest of China Grove, and 1 mile upstream from mouth.	a5.0	1970-73	1-22-74	*11.4

† Operated as a continuous-record gaging station.
†† Formerly published as Salem Creek.
a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Pee Dee River basin--Continued				
Grants Creek 02120879	Yadkin River	Lat 35°35'28", long 80°34'37", Rowan County, at bridge on Secondary Road 1506, 0.2 mile upstream from Fork in Grants Creek, and 1.4 miles north of China Grove.	a13	1970-73	1-22-74	*37.1
Grants Creek 02120881	Yadkin River	Lat 35°35'57", long 80°34'02", Rowan County, at bridge on Secondary Road 1505, 2 miles north of China Grove, and 15 miles upstream from mouth.	15.2	1970-73	1-22-74	*37.1
Grants Creek tributary 02120891	Grants Creek	Lat 35°36'54", long 80°33'14", Rowan County, at bridge on Secondary Road 1500, 0.3 mile upstream from mouth, and 3.3 miles northeast of China Grove.	a.9	1970-73	1-22-74	*2.40
Grants Creek 02120898	Yadkin River	Lat 35°38'24", long 80°32'55", Rowan County, at bridge on Secondary Road 1516, 4.1 miles downstream from Grants Creek Fork, and 4.9 miles southwest of Salisbury.	a32	1970-73	1-22-74	*84.4
Grants Creek 02120908	Yadkin River	Lat 35°38'29", long 80°30'58", Rowan County, at bridge on Secondary Road 1526, 1 mile northwest of Rowan Mills, and 8.2 miles upstream from mouth.	a37	1970-71, 1973	1-22-74	*112
Grants Creek 02120932	Yadkin River	Lat 35°41'45", long 80°28'54", Rowan County, at bridge on U.S. Highway 601, 2.1 miles north of Salisbury, and 4.8 miles upstream from mouth.	a58	1970-71, 1973	1-22-74	*171
Grants Creek 02120971	Yadkin River	Lat 35°42'25", long 80°26'10", Rowan County, at bridge on Secondary Road 1915, 1.5 miles upstream from mouth, and 1.5 miles north of Spencer.	a67	1948, 1963, 1970-73	5- 9-74	672
Michael Branch 0212131275	Swearing Creek	Lat 35°48'30", long 80°17'06", Davidson County, at culvert on Secondary Road 1232, 1.1 mile upstream from mouth, and 2.1 miles southwest of Lexington.	a4.0	1973	12-12-73 1-23-74	*3.07 *4.20
Swearing Creek 02121326	Yadkin River	Lat 35°47'58", long 80°18'03", Davidson County, at bridge on Secondary Road 1147, downstream from Beaverdam Creek, 3.6 miles southeast of Reeds Crossroads.	a26	1973	1-23-74	*37.2
Rat Spring Branch 0212133455	Swearing Creek	Lat 35°47'27", long 80°17'27", Davidson County, at bridge on Secondary Road 1254, 0.8 mile upstream from mouth, and 2.9 miles southwest of Lexington.	a2.7	1973	1-23-74	*3.15
Swearing Creek 02121365	Yadkin River	Lat 35°41'30", long 80°18'07", Davidson County, at bridge on Secondary Road 1104, 1.3 miles upstream from mouth, and 1.8 miles west of Feezor.	a47	1970-71, 1973	1-23-74	*57.9
Crane Creek 02121368	Yadkin River	Lat 35°37'35", long 80°27'25", Rowan County, at bridge on Secondary Road 2300, 0.2 mile upstream from Southern Railway, and 1 mile northwest of Granite Quarry.	a15	1970-71	10-19-73 7- 3-74	*1.62 *6.28
Town Creek 02121383	Crane Creek	Lat 35°40'43", long 80°24'58", Rowan County, at bridge on Secondary Road 1915, 1.4 miles southeast of Spencer, and 2.1 miles upstream from Crane Creek.	a17	1970-71, 1973	1-23-74	*18.4
Town Creek 02121397	Crane Creek	Lat 35°41'10", long 80°24'15", Rowan County, at culvert on Interstate Highway 85, 0.5 mile upstream from mouth, and 2 miles east of Spencer.	a18	1970-71, 1973	1-23-74	*20.4
Abbotts Creek 02121414	Yadkin River	Lat 36°05'45", long 80°04'15", Forsyth County, at bridge on Secondary Road 2640, 0.8 mile downstream from sewage outfall, and 1.9 miles northeast of Mathis.	a1.4	1970-72	10-18-72 6-21-73 11-27-73 12- 6-73 1-29-74 3-22-74 4-15-74 5-21-74 5-31-74 6-17-74 7-11-74 7-29-74 7-30-74 9- 5-74	*f.59 f2.09 *.18 *1.03 2.90 1.90 *1.18 *1.10 *.96 *1.44 *.59 *.60 *.54 *.61
Rich Fork 02121468	Abbotts Creek	Lat 35°56'56", long 80°06'08", Davidson County, at bridge on Secondary Road 1755, 4.5 miles east of Wallburg, and 4.8 miles upstream from Hunts Fork.	9.83	1952-53, 1961-62, 1970-73	5-28-74	*17.8

a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Pee Dee River basin--Continued				
Rich Fork 0212147355	Abbotts Creek	Lat 35°55'36", long 80°07'31", Davidson County, at bridge on Secondary Road 1800, 1.4 miles downstream from High Point sewage disposal plant, and 3.9 miles northwest of Thomasville.	a26	1970-73	5-28-74	*55.4
Hanks Branch 0212147515	Hunts Fork	Lat 35°54'27", long 80°02'30", Randolph County, at culvert on Secondary Road 1627, 3.8 miles upstream from mouth, and 4.5 miles southeast of Archdale.	a.6	1970-71, 1973	5-28-74	*.81
Hanks Branch 0212147555	Hunts Fork	Lat 36°05'36", long 80°04'29", Davidson County, at bridge on Secondary Road 1769, 2.2 miles northeast of Thomasville, and 3.1 miles upstream from mouth.	a2.2	1970-71, 1973	5-28-74	*3.47
Hamby Creek 0212148335	Rich Fork	Lat 35°51'19", long 80°06'40", Davidson County, at bridge on Secondary Road 2085, 2.5 miles southwest of Thomasville, and 7.2 miles upstream from mouth.	a3.9	1970-71, 1973	5-28-74	*4.41
Hamby Creek 02121484	Rich Fork	Lat 35°50'50", long 80°06'50", Davidson County, 2.2 miles west of Fair Grove, and 6.5 miles upstream from mouth.	13.3	1970-71, 1973	5-28-74	*26.0
Abbotts Creek 02121500	Yadkin River	Lat 35°48'23", long 80°14'05", Davidson County, upstream from bridge on Secondary Road 1243, 1.5 miles east of Lexington, and 4.9 miles downstream from Rich Fork.	174	‡1940-57	10-12-72 10-18-72 9-17-73 9-27-73 11- 7-73 1-23-74 5-31-74 8-24-74	*f14.9 *f25.4 *f26.2 *f13.8 * 28.1 413 122 *37.9
Uwharrie River 02123113	Pee Dee River	Lat 35°48'25", long 79°59'50", Randolph County, at bridge on Secondary Road 1549, 4.5 miles upstream from Little Uwharrie River, and 7.5 miles southwest of Glenola.	a32	1962	1-28-74 3-11-74 4-10-74 6- 6-74 8-24-74	143 *14.4 *55.4 *11.8 *5.50
Uwharrie River 02123500	Pee Dee River	Lat 35°25'47", long 80°01'05", Montgomery County, 300 ft downstream from State Highway 109, 1 mile upstream from McLeans Creek, and 3 miles south of Eldorado.	347	‡1938-71	6-24-74	*99.6
Dye Branch 02123844	Rocky River	Lat 35°32'14", long 80°47'41", Iredell County, at culvert on Secondary Road 1147, 1.5 miles upstream from mouth, and 3.2 miles south of Mooresville.	a2.9	1970-73	1-21-74	74.7
Rocky River 02123881	Pee Dee River	Lat 35°28'28", long 80°46'47" Mecklenburg County, at bridge on Secondary Road 2420, 1.3 miles upstream from West Branch, and 4.2 miles southeast of Davidson.	13.4	1970-73	1-16-74 1-24-74 4- 5-74 4-25-74 6-18-74 7-12-74 7-22-74 8- 7-74 9-14-74	*15.7 *23.6 110 *19.9 *14.2 *7.80 *9.08 *17.6 *9.96
Rocky River 02123994	Pee Dee River	Lat 35°25'26", long 80°44'28", Cabarrus County, at bridge on Secondary Road 1449, 2.7 miles southwest of Deweese, and 3.1 miles upstream from Clarke Creek.	a45	1971, 1973	1-21-74	446
Rocky River 02124110	Pee Dee River	Lat 35°21'33", long 80°40'31", Cabarrus County, at bridge on U.S. Highway 29, 2.2 miles west of Roberta Mill, and 3.6 miles upstream from Mallard Creek.	87.9	1952-58, 1961-62, 1967, 1973	1-24-74	138
Back Creek 02124270	Rocky River	Lat 35°18'48", long 80°39'10", Cabarrus County, at bridge on Secondary Road 1166, 0.6 mile south of Harrisburg, and 1.8 miles upstream from Fuda Creek.	a15	1970-71, 1973	1-24-74	5.77
Rocky River 02124334	Pee Dee River	Lat 35°19'27", long 80°33'40", Cabarrus County, at bridge on Secondary Road 1132, 1.5 miles upstream from Irish Buffalo Creek, and 2.5 miles northeast of Rocky River.	276	1952-56, 1961-62, 1971	1- 3-73 1-26-73	f173 f282
Irish Buffalo Creek tributary 0212433839	Irish Buffalo Creek	Lat 35°30'37", long 80°37'58", Rowan County, at bridge on Secondary Road 1100, 0.9 mile upstream from mouth, and 1 mile northwest of Kannapolis.	a1.6	1970-71, 1973	10-10-73 1-21-74	*1.06 *8.90

‡ Operated as a continuous gaging station.
a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Pee Dee River basin--Continued				
Irish Buffalo Creek tributary 0212433843	Irish Buffalo Creek	Lat 35°30'34", long 80°38'49", Rowan County, at bridge on Secondary Road 1109, 50 yards upstream from mouth, and 1.4 miles northwest of Kannapolis.	a2.3	1970-71, 1973	10-10-73 1-21-74	*10.00 *25.8
Irish Buffalo Creek 0212433845	Rocky River	Lat 35°30'30", long 80°38'54", Rowan County, 0.1 mile downstream from Irish Buffalo Creek tributary, and 1.4 miles northwest of Kannapolis.	a13	1970-73	10-10-73 1-21-74	*14.4 *26.7
Bleachers Creek 0212433850	Boiler Room Branch	Lat 35°30'53", long 80°38'47", Rowan County, at Secondary Road 1119, 1 mile upstream from mouth, and 5.6 miles northwest of Kannapolis.	a.1	1973	10-10-73 1-21-74	*.92 *1.17
Irish Buffalo Creek 0212434059	Rocky River	Lat 35°29'16", long 80°39'13", Cabarrus County, at bridge on Secondary Road 1609, 1.8 miles downstream from Buffalo Creek tributary, and 1.8 miles west of Kannapolis.	a16	1970-73	10-10-73	*16.9
Irish Buffalo Creek 02124341	Rocky River	Lat 35°29'15", long 80°39'12", Cabarrus County, at bridge on Secondary Road 1609, on Pine Street, 2 miles southwest of Kannapolis, and 13 miles upstream from mouth.	15.7	1970-73	10-10-73 1-21-74	*17.4 *68.4
Irish Buffalo Creek 02124357	Rocky River	Lat 35°24'52", long 80°36'46", Cabarrus County, at bridge on Secondary Road 1394, 2 miles west of Concord, and 8.1 miles upstream from mouth.	a30	1970-73	10-10-73 1-21-74	*20.4 *497
Irish Buffalo Creek 02124366	Rocky River	Lat 35°22'15", long 80°33'50", Cabarrus County, at bridge on State Highway 49, 2.8 miles southeast of courthouse in Concord, and 4.5 miles upstream from mouth.	40.3	1970-73	10-10-73 1-21-74	*20.3 *431
Irish Buffalo Creek 02124368	Rocky River	Lat 35°21'49", long 80°33'25", Cabarrus County, at bridge on Secondary Road 1153, 2.7 miles upstream from mouth, and 3 miles southeast of Concord.	42.2	1970-73	10-10-73 1-21-74	*31.4 *241
Irish Buffalo Creek 02124374	Rocky River	Lat 35°20'50", long 80°32'52", Cabarrus County, at bridge on Secondary Road 1132, 1 mile south of Faggarts Crossroads, and 1 mile upstream from mouth.	44.7		11-30-73 1-16-74 4- 5-74 6- 3-74 6-18-74 7-12-74 7-22-74 8- 7-74	*32.1 *47.4 414 *36.4 *37.2 *37.7 *26.3 *80.4
Coldwater Creek tributary 0212437525	Coldwater Creek	Lat 35°33'15", long 80°35'00", Rowan County, 50 ft downstream from U.S. Highways 601 and 29, 0.9 mile upstream from mouth, and 1.3 miles south of China Grove.	a.2	1973	1-22-74	*2.18
Rocky River 02124401	Pee Dee River	Lat 35°19'26", long 81°30'59", Cabarrus County, at bridge on U.S. Highway 601, 1 mile upstream from Hamby Branch, and 3 miles southeast of Faggarts Crossroads.	390	1970-71, 1973	11-30-73 1-16-74 1-24-74 4-25-74 6- 3-74 6-18-74 7-12-74 7-22-74	*114 *245 564 *221 *164 *188 *142 *84.1
Rock Hole Creek 02124776	Rocky River	Lat 35°12'12", long 80°26'00", Stanly County, at bridge on Secondary Road 1001, 3 miles upstream from mouth, and 2.2 miles south of Stanfield.	a6.6	1970-71, 1973	1-22-74	*15.1
Rocky River 02124781	Pee Dee River	Lat 35°09'49", long 80°23'43", Stanly County, at bridge on State Highway 200, 0.5 mile downstream from Rock Hole Creek, and 5 miles southeast of Stanfield.	a700	1971, 1973	12-14-72 5-30-73 1-15-74 1-22-74 6-18-74 7-22-74 8-12-74 9-21-74	f2,700 *f125 *382 4,200 *341 *172 *296 *150
Rocky River 02124798	Pee Dee River	Lat 35°10'00", long 80°20'31", Stanly County, at bridge on State Highway 205, 2.3 miles downstream from Island Creek, and 3.9 miles southwest of Oakboro.	a740	1971, 1973	1-23-74	1,900
Rocky River 02124813	Pee Dee River	Lat 35°11'42", long 80°16'48", Stanly County, at bridge on Secondary Road 1970, 1.9 miles upstream from Long Creek, and 3.5 miles southeast of Oakboro.	757	1970-71, 1973	1-23-74	2,380

a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Pee Dee River basin--Continued				
Long Creek 02124823	Rocky River	Lat 35°28'21", long 80°17'37", Stanly County, at bridge on Secondary Road 1454, 1.9 miles west of Richfield, and 15.2 miles upstream from mouth.	a5.0		11-28-73 1-15-74 4- 5-74 4-25-74 6-18-74 7-12-74 7-22-74	*0.05 *1.00 77.4 *.72 *.25 *.07 0
Long Creek 02124841	Rocky River	Lat 35°19'55", long 80°12'45", Stanly County, upstream from Little Long Creek, and 1.5 miles southwest of Albemarle Post Office.	33.1	1970-71, 1973	1-22-74	*86.9
Little Long Creek 02124869	Long Creek	Lat 35°20'13", long 80°12'38", Stanly County, at bridge on Secondary Road 1903, 0.4 mile upstream from mouth, and 1.2 miles southwest of Albemarle.	a29	1970-71, 1973	1-22-74	*69.3
Long Creek 02124908	Rocky River	Lat 35°16'57", long 80°14'52", Stanly County, at bridge on Secondary Road 1967, 2 miles upstream from Little Bear Creek, and 2.2 miles south of Hills.	a72	1970-71, 1973	1-22-74	*212
Stony Run tributary 02125091	Stony Run	Lat 35°14'54", long 80°18'45", Stanly County, at bridge on Secondary Road 1975, 0.1 mile upstream from mouth, and 2 miles north of Oakboro.	a1.6	1970-71, 1973	1-22-74	*2.62
Long Creek 02125126	Rocky River	Lat 35°13'05", long 80°15'28", Stanly County, at bridge on Secondary Road 1917, 1 mile upstream from mouth, and 4 miles east of Oakboro.	198	1970-71, 1973	10-19-72 1-15-74 6- 4-74 7-22-74 8-12-74 8-27-74	*f13.1 113 142 *10.9 *36.2 *31.5
Richardson Creek 0212514705	Rocky River	Lat 34°54'39", long 80°35'38", Union County, at bridge on Secondary Road 2139, 2.3 miles upstream from Adams Branch, and 8.5 miles east of Waxhaw.	a3.2		1- 9-74 8- 7-74 8- 9-74 9-21-74	1.49 1.60 4.28 .44
Bearskin Creek 02125246	Richardson Creek	Lat 34°59'24", long 80°30'37", Union County, at mouth, 2.3 miles northeast of Monroe.	a22	1973	1-23-74	*53.1
Richardson Creek 02125310	Rocky River	Lat 35°01'58", long 80°28'20", Union County, at bridge on Secondary Road 1006, 0.5 mile upstream from Stewarts Creek, and 13.5 miles north of Wingate.	a98	1953-54, 1956-58, 1970-71, 1973	5-25-72 10-20-72 1-23-74	f29.2 *f 6.95 *87.4
Niggerhead Creek 02125538	Richardson Creek	Lat 34°59'09", long 80°24'14", Union County, at bridge on U.S. Highway 74, 2 miles west of Marshville, and 9.5 miles upstream from mouth.	a1.2	1954, 1961, 1970-71, 1973	1-23-74	*.39
Niggerhead Creek 0212553855	Richardson Creek	Lat 34°59'51", long 80°23'35", Union County, at bridge on Secondary Road 1751, 1.4 miles northwest of Marshville, and 8.5 miles upstream from mouth.	a3.2	1970-71, 1973	1-23-74	*1.46
Niggerhead Creek 02125543	Richardson Creek	Lat 35°00'52", long 80°22'34", Union County, at bridge on State Highway 205, 1.9 miles north of Marshville, and 6.3 miles upstream from mouth.	a12	1970-71, 1973	1-23-74	*3.88
Niggerhead Creek 02125546	Richardson Creek	Lat 35°02'37", long 80°21'56", Union County, at bridge on Secondary Road 1002, 1.2 miles west of Hamilton, and 4.5 miles upstream from mouth.	a15	1953, 1970-71, 1973	1-23-74	*3.98
Niggerhead Creek 02125549	Richardson Creek	Lat 35°04'25", long 80°22'14", Union County, at bridge on Secondary Road 1006, 1.6 miles northeast of Fairfield, and 2.2 miles upstream from mouth.	a24	1961-62, 1970-71, 1973	1-23-74	*14.4
Richardson Creek 02125588	Rocky River	Lat 35°09'11", long 80°14'50", Anson County, at bridge on Secondary Road 1606, 1.8 miles upstream from mouth, and 5.8 miles north of Kikers.	a240	1967	11-27-73 1- 9-74 4- 5-74 4-16-70 6- 4-74 8-13-74 8-27-74	*5.71 106 2,490 224 133 97.0 *18.1
Little River 02127560	Pee Dee River	Lat 35°37'22", long 79°51'18", Randolph County, at bridge on Secondary Road 1142, 1.8 miles southwest of Ulah, and 1.9 miles upstream from confluence of Big Branch.	a5.3		3-11-74 4-10-74 6- 6-74	*1.83 *7.90 *1.63

a Approximately.
f Not previously published

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Pee Dee River basin--Continued				
Little River 02128394	Pee Dee River	Lat 35°06'23", long 79°53'57", Richmond County, at bridge on Secondary Road 1148, 1.1 miles upstream from mouth, and 5 miles east of Mangum.	a350		11-29-73 4-16-74 6- 4-74 8-28-74	*22.9 130 137 *42.2
Hitchcock Creek 02129159	Pee Dee River	Lat 34°56'55", long 79°46'21", Richmond County, at bridge on Secondary Road 1419, 0.2 mile upstream from Steely Creek, and 0.6 mile north of Rockingham.	a100	1970-71	1-24-74	*87.6
Hitchcock Creek 02129181	Pee Dee River	Lat 34°56'37", long 79°46'36", Richmond County, at railroad bridge, 0.2 mile north of Rockingham, and 0.3 mile downstream from Steely Branch.	104	1970-71	1-24-74	*93.2
Hitchcock Creek 02129341	Pee Dee River	Lat 34°55'05", long 79°49'50", Richmond County, downstream from dam at Cordova, and 1.2 miles upstream from mouth.	140	1970-71	1-24-74	*134
South Fork Jones Creek 02129439	Jones Creek	Lat 34°50'59", long 80°08'05", Anson County, at culvert on Secondary Road 1114, 0.5 mile upstream from confluence of Lick Branch, and 1.4 miles east of Deep Creek.	a3.7		1-10-74 3-14-74 4-17-74 6- 5-74 8-28-74	*1.54 *1.85 2.15 *.76 *.88
Jones Creek 02129528	Pee Dee River	Lat 34°53'05", long 79°54'12", Anson County, at bridge on Secondary Road 1801, 1.6 miles upstream from mouth, and 1.7 miles east of Cairo.	a98	1961-62, 1969	11-29-73 1-11-74 3-14-74 4-17-74 6- 5-74 8-28-74	*30.2 *67.9 *72.6 *79.2 *56.0 *35.2
Pee Dee River 02130000	Atlantic Ocean	Lat 34°42'28", long 79°52'26", Chesterfield County, S. C., at bridge on U.S. Highway 1, 0.1 mile upstream from Seaboard Coast Line Railroad bridge, and 0.6 mile northeast of Cheraw, S. C.	7,320		1-11-74 3-14-74 6- 5-74	11,120 *2,740 8,790
Gum Swamp Creek 02132116	Little Pee Dee River	Lat 34°58'26", long 79°34'33", Richmond County, at bridge on Secondary Road 1001, 1.1 miles south of Marston, and 1.8 miles upstream from Clay Branch.	1.79		12-11-73 5-16-74	3.39 3.25
Gum Swamp 0213216550	Little Pee Dee River	Lat 34°49'12", long 79°31'51", Scotland County, at bridge on Secondary Road 1319, and 0.2 mile southwest of Richmond Mills.	a54		8-22-73 12-14-73 5-17-74 6-13-74	f92.7 99.1 86.4 61.0
Gum Swamp 02132172	Little Pee Dee River	Lat 34°47'58", long 79°31'56", Scotland County, at bridge on U.S. Highway 74, 2.8 miles upstream from Lower Beaverdam Creek, and 3.9 miles southeast of Old Hundred.	55.8	1973	12-14-73	94.7
Gum Swamp 02132223	Little Pee Dee River	Lat 79°30'29", long 34°40'00", Scotland County, at North Carolina-South Carolina State line, 1.8 miles downstream from Water Creek, and 4.5 miles southwest of Johns.	a130		12-13-73 5-17-74 6-13-74	226 194 106
Bridge Creek 02132228	Leith Creek	Lat 34°43'32", long 79°27'35", Scotland County, at bridge on Secondary Road 1614, 1.6 miles northwest of McArthur Crossroads, and 3.5 miles upstream from Leith Creek.	a8.0	1973	12-13-73	2.01
Leith Creek 0213224010	Bridge Creek	Lat 35°48'08", long 79°28'08", Scotland County, at culvert on Secondary Road 1302, 2 miles north-northwest of Laurinburg.	a6.0		8-22-73 12-13-73	12.7 0
Leith Creek 02132242	Bridge Creek	Lat 34°47'39", long 79°27'46", Scotland County, at culvert on U.S. Highway 15, downstream from Laurinburg and Southern Railroad, and 1.2 miles north of Laurinburg.	7.51	1959, 1968	8-22-73 12-13-73	14.7 .86
Leith Creek 02132262	Bridge Creek	Lat 34°45'59", long 79°26'20", Scotland County, at bridge on Secondary Road 1603, 0.1 mile downstream from Laurinburg and Southern Railroad, and 1.5 miles southeast of Laurinburg.	12.2		12-14-73 5-17-74	19.4 14.4
Leith Creek tributary 0213226875	Leith Creek	Lat 34°45'42", long 79°25'14", Scotland County, at bridge on U.S. Highway 74, 0.8 mile upstream from mouth, and 3.3 miles southeast of Laurinburg.	a2.0	1973	12-13-73	1.04
Leith Creek 02132269	Little Pee Dee River	Lat 34°44'32", long 79°25'09", Scotland County, at bridge on Secondary Road 1609, 4 miles west of Maxton, and 5.4 miles upstream from mouth.	22.7	1973	12-13-73	4.02

a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Discharge (cfs)
		Pee Dee River basin--Continued				
Big Shoe Heel Creek 02132287	Little Pee Dee River	Lat 34°48'16", long 79°22'37", Scotland County, at bridge on Secondary Road 1433, 1.5 miles upstream from Jordan Creek, and 7.7 miles northeast of Johns.	19.9	1962	12-13-73 5-17-74	47.0 54.9
Big Shoe Heel Creek 02132316	Little Pee Dee River	Lat 34°45'33", long 79°23'11", Scotland County, at bridge on Secondary Road 1323, 2 miles downstream from Jordan Creek, and 2.8 miles northwest of Maxton.	80.9	1973	12-13-73	155
Big Shoe Heel Creek 02132323	Little Pee Dee River	Lat 34°43'42", long 79°22'29", Robeson County, at bridge on Secondary Road 1612, 1.5 miles southwest of Maxton, and 4.5 miles downstream from Jordan Creek.	84.6	1973	12-13-73	163
Maxton Branch 0213232690	Big Shoe Heel Creek	Lat 34°44'13", long 79°21'26", Robeson County, at culvert on Secondary Road 1111, 0.6 mile west-southwest of Maxton, and 0.8 miles upstream from mouth.	a2.1		12-13-73 4-24-74 6-11-74 8-26-74	.28 1.12 .28 .39
Big Shoe Heel Creek 02132336	Little Pee Dee River	Lat 34°35'15", long 79°22'20", Robeson County, at bridge on Secondary Road 1101, 2.2 miles upstream from Wilkinson Swamp, and 4 miles southwest of Raemon.	a120	1973	12-12-73 4- 9-74 4-23-74	129 152 106
Mitchell Swamp 02132386	Hayes Swamp	Lat 34°32'15", long 79°18'52", Robeson County, at bridge on Secondary Road 1137, 1.2 miles west of Rowland, and 2 miles upstream from State line.	a4.6	1959-60, 1962, 1968	4-23-74 6-11-74 8-27-74	.64 .03 .82
Drowning Creek 0213284850	Lumber River	Lat 35°14'53", long 79°40'58", Moore County, at bridge on Secondary Road 1142, on Moore-Montgomery County line, and 3.7 miles south of Samarcand.	a6.0	1973	10-11-73 4- 8-74	*5.70 28.0
Drowning Creek 02132881	Lumber River	Lat 35°14'03", long 79°40'05", Montgomery County, at bridge on Secondary Road 1522, 3.2 miles east of Emery, and 6.6 miles upstream from Jackson Creek.	a22	1973	10-11-73	*16.6
Drowning Creek 02132910	Lumber River	Lat 35°11'16", long 79°38'55", Moore County, at bridge on State Highway 73, 2 miles southwest of Jackson Springs, and 3 miles upstream from Jackson Creek.	a32	1949-54, 1957-59, 1962, 1968-69, 1973	9- 5-74	42.3
Horse Creek 0213298755	Drowning Creek	Lat 35°09'32", long 79°29'39", Moore County, at bridge on Secondary Road 1115, downstream from Pinehurst Waste Treatment Plant, and 1.4 miles southwest of Vina Vista.	a4.6	1973	10-11-73 9- 5-74	*4.18 2.20
Aberdeen Creek 02133504	Drowning Creek	Lat 35°10'36", long 79°26'21", Moore County, at bridge on Secondary Road 1205, 2.2 miles southeast of Pinehurst, and 3.5 miles upstream from Rays Mill Creek.	3.91	1959-60, 1962, 1968, 1971, 1973	10-11-73	*2.14
Aberdeen Creek 02133531	Drowning Creek	Lat 35°07'39", long 79°25'55", Moore County, at bridge on U.S. Highway 1, 0.4 mile downstream from Rays Mill Creek, and 0.4 mile south of Aberdeen.	19.7	1973	9- 5-74	32.1
Aberdeen Creek 02133553	Drowning Creek	Lat 35°05'49", long 79°27'22", Moore County, at bridge on Secondary Road 1105, 1.3 miles southeast of Pine Bluff, and 3.8 miles upstream from mouth.	28.4	1973	9- 5-74	64.2
Drowning Creek 02133581	Lumber River	Lat 35°01'24", long 79°26'36", Richmond County, at bridge on U.S. Highway 15, 1.3 miles upstream from Quewhiffle Creek, and 5.8 miles east of Hoffman.	247	1959, 1962	12-14-73 5-16-74 6-14-74	323 537 156
Mountain Creek 0213360350	Drowning Creek	Lat 35°01'51", long 79°22'19", Hoke County, at bridge on Secondary Road 1214, 1.2 miles northwest of Five Points, and 3.5 miles upstream from mouth.	a6.0	1973	12-11-73	5.34
Drowning Creek 02133609	Lumber River	Lat 34°58'27", long 79°22'42", Scotland County, at bridge on Secondary Road 1412, 1.6 miles downstream from Mountain Creek, and 1.6 miles northeast of Oak Hill.	307	1959, 1962, 1968	12-14-73 5-18-74 6-14-74	500 646 216
Lumber River 02133619	Little Pee Dee River	Lat 34°52'38", long 79°20'42", Scotland County, at bridge on Secondary Road 1404, 1.4 miles southeast of Wagram, and 7.8 miles downstream from Buffalo Creek.	340	1959	12-14-73 5-16-74 6-14-74	654 675 205
Lumber River 02133621	Little Pee Dee River	Lat 34°48'54", long 79°21'20", Scotland County, at bridge on Secondary Road 1433, 6.6 miles northeast of Laurinburg, and 14.4 miles downstream from Buffalo Creek.	355		12-13-73 5-17-74 6-13-74	706 685 239

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Pee Dee River basin--Continued				
Lumber River 02133624	Little Pee Dee River	Lat 34°45'22", long 79°19'55", Robeson County, at bridge on State Highway 71, 2.6 miles north of Maxton, and 7.5 miles upstream from Gum Swamp.	366		1- 3-74 4-24-74 6-12-74	764 539 258
Lumber River 02133651	Little Pee Dee River	Lat 34°40'50", long 79°14'00", Robeson County, at bridge on State Highway 710, 2 miles downstream from Gum Swamp, and 2.5 miles east of Pembroke.	a420		6-11-74 8-28-74	423 603
Lumber River 02133691	Little Pee Dee River	Lat 34°39'52", long 79°10'30", Robeson County, at bridge on Secondary Road 1003, 2.2 miles southwest of Moss Neck, and 6.2 miles downstream from Gum Swamp.	430		6-11-74 8-28-74	313 490
Raft Swamp 02133811	Lumber River	Lat 34°57'21", long 79°16'31", Hoke County, at bridge on U.S. Highway 401, 1.3 miles upstream from Laurinburg and Southern Railroad, 1.9 miles north	4.68		12-11-73 6- 7-74 8-26-74	3.34 2.98 4.41
Little Raft Swamp 02133986	Raft Swamp	Lat 34°50'23", long 79°11'12", Robeson County, at bridge on Secondary Road 1323, 1.2 miles north of Red Springs, and 6.5 miles upstream from mouth.	a25	1973	12-13-73 6-12-74	7.22 9.16
Little Raft Swamp 02134000	Raft Swamp	Lat 34°49'55", long 79°10'40", Robeson County, at bridge on State Highway 71, 0.8 mile downstream from Grahams Pond, and 0.8 mile north of Red Springs.	23.1	‡1940-42, 1968	12-13-73 4-22-74 6-12-74	7.84 18.9 8.36
Little Raft Swamp tributary No. 2 0213400010	Little Raft Swamp	Lat 34°48'20", long 79°10'54", Robeson County, at State Highway 211, 0.3 mile upstream from mouth, and 0.5 mile north of Red Springs.	a1.1		4-22-74 6-12-74	.24 .14
Raft Swamp 02134128	Lumber River	Lat 34°39'42", long 79°04'00", Robeson County, at bridge on Secondary Road 1527, 2.5 miles upstream from mouth, and 5 miles east of Moss Neck.	a170	1954, 1959, 1962, 1968	1- 3-74 4- 9-74 4-24-74 6-11-74	272 248 140 96.3
Lumber River 02134177	Little Pee Dee River	Lat 34°36'35", long 79°00'30", Robeson County, at bridge on Secondary Road 2289, 0.5 mile south of Lumberton, and 2 miles upstream from Jacob Swamp.	a710	1968-69, 1973	12-13-73 6-12-74 8-28-74	542 592 1,120
Jacob Swamp 0213421850	Lumber River	Lat 34°35'07", long 59°59'57", Robeson County, at bridge on Secondary Road 2289, 0.4 mile downstream from Little Jacob Swamp, and 2.3 miles south of Lumberton.	a14	1973	1- 3-74 6-13-74	41.9 2.24
Lumber River 0213423450	Little Pee Dee River	Lat 34°30'14", long 78°56'42", Robeson County, at Secondary Road 2121, 0.1 mile downstream from Mill Swamp Creek, and 3 miles northeast of Orrum.	a760	1973	6-13-74 8-28-74	477 798
Marsh Swamp 0213429320	Big Swamp	Lat 34°47'36", long 78°58'08", Robeson County, at bridge on Secondary Road 1916, 1.1 miles southeast of St. Pauls, and 5.6 miles upstream from mouth.	a51		4-22-74 8-29-74	32.0 45.8
Marsh Swamp 02134297	Big Swamp	Lat 34°46'55", long 78°55'22", Robeson County, at bridge on Secondary Road 1924, 2.8 miles upstream from mouth, and 5.5 miles southeast of Oakland.	a58	1973	8-29-74	102
Little Marsh Swamp 02134329	Gallberry Swamp	Lat 34°52'57", long 79°00'19", Robeson County, at bridge on Secondary Road 1725, 1.2 miles downstream from Atlantic Coast Line Railroad, and 5.2 miles north of St. Paul.	a24	1973	1- 2-74 8-22-74	48.8 23.8
Little Marsh Swamp 02134338	Gallberry Swamp	Lat 34°51'48", long 78°58'33", Robeson County, at bridge on U.S. Highway 301, 3.2 miles southeast of Parkton, and 7.5 miles upstream from mouth.	a36	1959-60, 1962, 1968	1- 2-74 4-22-74	79.8 29.3
Big Swamp 02134480	Lumber River	Lat 34°41'18", long 78°50'14", Robeson County, at bridge on Secondary Road 1004, 2.5 miles upstream from Goodman Swamp, and 2.8 miles southwest of Tarheel.	a220	1949-54, 1957-59, 1962-67, 1973	7- 3-74	68.4
Big Swamp 02134488	Lumber River	Lat 34°34'30", long 78°51'27", Bladen County, at bridge on State Highway 211, 2.5 miles upstream from Peter Swamp, and 4.8 miles northwest of Bladenboro.	a380	1954, 1959-60, 1962, 1968, 1973	8-30-73 7- 3-74	f149 117
Big Swamp 02134498	Lumber River	Lat 34°28'48", long 78°52'43", Robeson County, at Lennons Bridge on Secondary Road 1002, 0.4 mile downstream from Rattlesnake Creek, and 6.5 miles southwest of Bladenboro.	a50	1973	4-23-74 8-28-74	407 1,410

‡ Operated as a continuous-record gaging station.
a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements: Date	Measurements: Discharge (cfs)
		Pee Dee River basin--Continued				
Ashpole Swamp 0213451925	Lumber River	Lat 34°36'43", long 79°15'29", Robeson County, at bridge on State Highway 710, 0.5 mile upstream from unnamed tributary, and 0.9 west-southwest of Elrod.	a2.0		4- 9-74	3.83
Old Field Swamp tributary No. 2 02134574	Old Field Swamp	Lat 34°30'55", long 79°06'30", Robeson County, upstream from Butcher Pen waste outfall, 0.2 mile upstream from mouth, and 0.5 mile east of Fairmont.	Indeterminate		12-12-73 4-23-74 6-10-74 8-27-74	.12 0 0 .07
Old Field Swamp 02134582	Hog Swamp	Lat 34°29'40", long 79°06'10", Robeson County, at bridge on State Highway 130, and 0.5 mile east of Fairmont.	a17	1973	12-12-73 6-10-74	3.76 4.38
Ashpole Swamp 02134620	Lumber River	Lat 34°20'22", long 79°03'38", Robeson County, at bridge on Secondary Road 2256, 2.2 miles upstream from mouth, and 2.3 miles northwest of Fair Bluff.	a200	1965	12-12-73 4-10-74 4-23-74	65.4 142 99.2
Lumber River tributary No. 7 0213462095	Lumber River	Lat 34°19'01", long 79°02'33", Robeson County, at Fair Bluff waste treatment plant, and 0.4 mile northwest of Fair Bluff.	Indeterminate		12-12-73 6-10-74	0 10.1
Lumber River 02134623	Little Pee Dee River	Lat 34°18'50", long 79°02'30", Columbus County, at bridge on State Highway 904, at Fair Bluff, and 1.4 miles downstream from Porter Swamp.	a1,550	1959, 1962, 1968	11- 1-72 4-12-73 4-20-73	f622 f9,280 f3,680
		Santee River basin				
Catawba River 02136500	Santee River	Lat 35°37'29", long 82°10'28", McDowell County, at bridge on Secondary Road 1103, 0.5 mile upstream from Mill Creek, and 0.5 mile south of Old Fort.	13.9	1907, 1949-54, 1956, 1963-64, 1970-73	3- 5-74 4- 2-74 5-21-74 6-17-74 7-19-74 8-24-74 8-27-74	*30.7 *45.8 *37.6 *31.4 *22.4 *21.5 *32.6
Linville River 02138288	Catawba River	Lat 36°04'22", long 81°52'14", Avery County, at culvert on State Highway 105, at Linville, and 1.8 miles upstream from Grandmother Creek.	a5.7	1970-73	12-12-73	*12.9
Catawba River 02139036	Santee River	Lat 35°44'40", long 81°46'21", Burke County, at bridge on Secondary Road 1147, 1.2 miles north-northwest of Glen Alpine, and 3.1 miles upstream from confluence of Canoe Creek.	506		12-12-73 3- 5-74 4-26-74 7-22-74	*1,150 *2,700 *2,610 *1,980
Catawba River 02139282	Santee River	Lat 35°44'58", long 81°42'20", Burke County, 0.8 mile downstream from Silver Creek, and 1 mile northwest of Morganton.	593	1968, 1970-73	10-11-73 12-12-73 3-21-74 4-26-74 5-21-74 7-23-74	*1,590 *1,720 *3,560 *2,390 *502 *363
Johns River 0213997350	Catawba River	Lat 35°58'50", long 81°40'56", Caldwell County, 0.1 mile downstream from Hopewell Branch, 0.7 mile upstream from Secondary Road 1356, and 3.8 miles north of Collettsville.	a49	1973	3- 6-74 6- 3-74 7-24-74	104 *74.4 *69.8
Johns River 02140991	Catawba River	Lat 35°50'01", long 81°42'43", Burke County, at bridge on Secondary Road 1438, 0.2 mile downstream from Sims Branch, and 0.8 mile northeast of Arneys Store.	202		12-12-73 3- 5-74 4- 4-74 4-26-74 6- 4-74 7-23-74 9- 4-74	*386 *454 3,080 *420 *299 *240 583
Lower Creek 02141245	Catawba River	Lat 35°49'31", long 81°38'10", Burke County, at bridge on Secondary Road 1501, 0.8 mile downstream from Husband Creek, and 7 miles northeast of Morganton.	86.6	1949-50, 1964-69, 1972	3- 6-74 4- 4-74 4-26-74 7-23-74 9- 4-74	*144 1,230 *111 *93.0 *111
Howard Creek 02141319	Catawba River	Lat 35°46'18", long 81°35'11", Burke County, at bridge on Secondary Road 1536, 1 mile upstream from mouth, and 1.4 miles northeast of Drexel.	3.08	1970-73	10-17-73	3.14
Howard Creek 02141334	Catawba River	Lat 35°46'26", long 81°34'56", Burke County, at bridge on Secondary Road 1512, 0.3 mile downstream from Secrets Creek, and 6.3 miles northeast of Morganton.	5.05	1970-73	10-17-73	4.34

a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Santee River basin--Continued				
McGaillard Creek 02141355	Catawba River	Lat 35°44'52", long 81°35'08", Burke County, at culvert on U.S. Highways 64 and 70, 0.9 mile upstream from Dye Creek, and 1.2 miles west of Valdese.	a2.4	1970-73	10-17-73	1.85
McGaillard Creek 02141424	Catawba River	Lat 35°45'48", long 81°34'12", Burke County, at bridge on Secondary Road 1538, 0.9 mile north of Valdese, and 1.9 miles upstream from mouth.	7.36	1970-73	10-17-73	11.9
Hoyle Creek 02141455	Catawba River	Lat 35°45'38", long 81°32'59", Burke County, upstream from sewage effluent outfall, 1.4 miles northeast of Valdese, and 1.6 miles upstream from mouth.	a5.4	1970-73	10-17-73	4.43
Hoyle Creek 02141456	Catawba River	Lat 35°45'42", long 81°32'58", Burke County, at bridge on Secondary Road 1546, 1.5 miles upstream from mouth, and 1.6 miles northeast of Valdese.	a5.6	1970-73	10-17-73	5.11
Drowning Creek 02141515	Catawba River	Lat 35°43'40", long 81°28'36", Burke County, at culvert on U.S. Highway 64 and 70, 0.5 mile west of Icard, and 7 miles upstream from mouth.	a2.1	1970-73	10-17-73	2.98
Drowning Creek tributary No. 2 02141538	Drowning Creek	Lat 35°43'38", long 81°26'48", Burke County, at bridge on Secondary Road 1623, 1.3 miles east of Icard, and 1.6 miles upstream from mouth.	a1.6	1970-73	10-17-73	1.90
Drowning Creek tributary No. 2 02141540	Drowning Creek	Lat 35°44'20", long 81°26'22", Burke County, at bridge on Secondary Road 1627, 0.6 mile upstream from mouth, and 2.5 miles west of Penelope.	a2.6	1970-72	10-17-73	2.42
Drowning Creek tributary No. 4 02141543	Drowning Creek tributary No.3	Lat 35°43'38", long 81°26'22" Burke County, at culvert on U.S. Highways 64 and 70, 0.5 mile upstream from mouth, and 1 mile west of Hildebran.	a.6	1970-73	10-17-73	.88
Drowning Creek tributary No. 3 02141548	Drowning Creek	Lat 35°43'38", long 81°25'12", Burke County, at bridge on Secondary Road 1630, 0.8 mile north of Hildebran, and 1 mile upstream from mouth.	.98	1970-73	10-17-73	1.21
Drowning Creek 02141560	Catawba River	Lat 35°44'50", long 81°24'52", Burke County, at bridge on Secondary Road 1647, 1.5 miles upstream from mouth, and 2.2 miles north of Hildebran.	a15	1957-64, 1970-73	10-17-73	14.7
Fry Creek 02141618	Catawba River	Lat 35°44'48", long 81°21'40", Catawba County, at culvert on Secondary Road 1314, at Hickory, and 1.9 miles upstream from mouth.	a1.9	1970-73	10-17-74	*1.43
Gunpowder Creek 02141634	Catawba River	Lat 35°53'01", long 81°31'29", Caldwell County, at culvert on Secondary Road 1181, at Whitnel, and 0.3 mile upstream from unnamed tributary.	a.3	1970-73	10-17-74	*.39
Connelly Creek 02141652	Gunpowder Creek	Lat 35°51'58", long 81°31'04", Caldwell County, at bridge on Secondary Road 1165, 1.2 miles upstream from mouth, and 1.8 miles northwest of Hudson.	a2.1	1970-73	10-17-74	*1.52
Connelly Creek 02141654	Gunpowder Creek	Lat 35°51'47", long 81°30'26", Caldwell County, at bridge on U.S. Highway 321A, 0.5 mile upstream from mouth, and 1.2 miles north of Hudson.	a3.1	1970-73	10-17-73	*2.39
Gunpowder Creek 02141666	Catawba River	Lat 35°51'20", long 81°29'12", Caldwell County, at bridge on Secondary Road 1160, 1 mile northeast of Hudson, and 6.5 miles upstream from Little Gunpowder Creek.	a11	1955, 1963, 1970-73	10-17-73	*9.29
Falling Creek 02141851	Catawba River	Lat 35°47'45", long 81°18'50", Catawba County, at bridge on Secondary Road 1402, 1.4 miles upstream from mouth, and 4 miles northeast of Hickory.	a3.9	1970-73	10-17-73	*3.02
Falling Creek 02141853	Catawba River	Lat 35°47'16", long 81°18'24", Catawba County, at bridge on Secondary Road 1400, 0.8 mile upstream from mouth, and 4.2 miles north of Hickory.	a5.0	1963, 1970-73	10-17-73	*4.24
Muddy Fork Creek 02142043	Lower Little River	Lat 35°56'02", long 81°11'22", Alexander County, at bridge on State Highway 16, 1.2 miles northwest of Taylorsville, and 2 miles upstream from mouth.	a8.9	1970-73	10-17-73	*6.74
Stirewalt Creek 02142219	Lower Little River	Lat 35°54'44", long 81°10'46", Alexander County, downstream from sewage effluent outfall, 1.1 miles south of Taylorsville, and 2.8 miles upstream from mouth.	1.16	1970-73	10-17-73	*.83
Stirewalt Creek 02142272	Lower Little River	Lat 35°53'48", long 81°11'02", Alexander County, at bridge on Secondary Road 1111, 1.8 mile upstream from mouth, and 2 miles south of Taylorsville.	1.57	1970-73	10-17-73	*1.88

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Santee River basin--Continued				
Lower Little River 02142326	Catawba River	Lat 35°51'56", long 81°12'24", Alexander County, at bridge on Secondary Road 1131, 1.1 miles downstream from Stirewalt Creek, and 1.7 miles northwest of Millersville.	79.4	1970-73	10-17-73	*57.7
Glade Creek 02142380	Lower Little River	Lat 35°51'24", long 81°10'50", Alexander County, at bridge on Secondary Road 1131, at Millersville, and 0.2 mile upstream from mouth.	a13	1956-63, 1970-73	10-17-73	*10.5
Lyle Creek 02142442	Catawba River	Lat 35°43'53", long 81°15'59", Catawba County, at bridge on Secondary Road 1441, 1.2 miles upstream from tributary, and 3.3 miles northwest of Conover.	a2.1	1970-73	10-23-73	*1.44
Lyle Creek 02142443	Catawba River	Lat 35°43'36", long 81°14'34", Catawba County, at bridge on Secondary Road 1491, just downstream from tributary, and 2.4 miles northwest of Conover.	a5.1	1970-73	10-23-73	*3.73
Lyle Creek 02142445	Catawba River	Lat 35°44'14", long 81°11'16", Catawba County, at bridge on State Highway 16, upstream from Lyle Creek tributary, and 2.8 miles northeast of Conover.	a19	1963, 1970-73	10-23-73	*10.2
Baker Creek 02142446	Lyle Creek	Lat 35°45'02", long 81°10'26", Catawba County, at bridge on State Highway 16, 0.2 mile upstream from mouth, and 4 miles northeast of Conover.	a5.6	1963, 1970-73	10-23-73	*4.14
Lyle Creek 02142447	Catawba River	Lat 35°44'27", long 81°09'35", Catawba County, at bridge on Secondary Road 1709, just downstream from tibutary, and 4.7 miles northeast of Conover.	a32	1970-73	10-23-73	*18.3
Mull Creek 02142450	Lyle Creek	Lat 35°43'20", long 81°09'34", Catawba County, at bridge on Secondary Road 1715, 0.8 mile northwest of Claremont, and 1.8 miles upstream from mouth.	a3.8	1970-73	10-23-73	*2.58
Lyle Creek 02142451	Catawba River	Lat 35°44'20", long 81°07'52", Catawba County, at bridge on Secondary Road 1716, 0.2 mile downstream from Mull Creek, and 1.7 miles northeast of Claremont.	a37	1970-73	10-23-73	*24.3
Long Creek 02142461	McLin Creek	Lat 35°41'58", long 81°11'12", Catawba County, at bridge on Secondary Road 1771, 1.8 mile east of Conover, and 2.4 miles upstream from mouth.	a.2	1972	10-23-73	*.88
McLin Creek 02142467	Lyle Creek	Lat 35°41'18", long 81°11'56", Catawba County, at bridge on Secondary Road 1739, 1.8 miles southeast of Conover, and 4.5 miles upstream from Long Creek.	a1.6	1972-73	10-23-73	*5.09
Long Creek 02142470	McLin Creek	Lat 35°41'58", long 81°11'13", Catawba County, at culvert on Secondary Road 1771, 1.9 miles east of Conover, and 4.1 miles upstream from mouth.	a.2	1970-71, 1973	10-23-73	*.08
McLin Creek 02142471	Lyle Creek	Lat 35°41'40", long 81°08'50", Catawba County, at bridge on Secondary Road 1722, 1.2 miles upstream from Hagan Fork, and 1.2 miles south of Claremont.	a9.9	1963, 1970-73	10-23-73	*6.34
Ball Creek 02142530	Catawba River	Lat 35°41'54", long 81°02'19", Catawba County, at bridge on Secondary Road 1831, 2.6 miles southeast of Catawba, and 2.9 miles upstream from mouth.	a14	1970-73	10-24-73	*6.45
McDowells Creek 02142652	Catawba River	Lat 35°26'37", long 80°52'40", Mecklenburg County, at bridge on Secondary Road 2145, 0.2 mile upstream from tributary, and 4.2 miles southwest of Davidson.	a3.5	1970-73	11- 5-73	.89
McDowells Creek 02142660	Catawba River	Lat 35°23'22", long 80°55'16", Mecklenburg County, at bridge on Beatties Ford Road, 2.1 miles downstream from Torrance Creek, and 11.2 miles north of Charlotte.	26.3	1955-70, 1972-73	10-31-73	6.94
Dixon Branch 02142880	Long Creek	Lat 35°20'53", long 80°51'46", Mecklenburg County, at culvert on Secondary Road 2113, 0.2 mile upstream from mouth, and 2.2 miles west of Croft.	a4.2	1969-73	10-31-73	.59
McIntyre Creek 02142888	Long Creek	Lat 35°19'08", long 80°51'54", Mecklenburg County, at bridge on Beatties Ford Road, 3.3 miles upstream from mouth, and 4.3 miles northwest of Derita.	2.04	1969-73	11- 5-73	.54
McIntyre Creek 02142889	Long Creek	Lat 35°19'41", long 80°53'48", Mecklenburg County, at bridge on Secondary Road 2025, 0.8 mile upstream from mouth, and 5 miles north of Charlotte.	a4.4	1969-73	10-31-73	.95
Gum Branch 02142913	Long Creek	Lat 35°17'54", long 80°56'04", Mecklenburg County, at bridge on Secondary Road 1785, 1.4 miles north of Thrift, and 1.5 miles upstream from mouth.	a3.9	1969-73	10-24-73 10-31-73	.23 .27

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Santee River basin--Continued				
Gum Branch 02142914	Long Creek	Lat 35°17'57", long 80°56'48", Mecklenburg County, at bridge on Secondary Road 1775, 0.6 mile upstream from mouth, and 1.7 miles northwest of Thrift.	5.39	1957, 1962, 1969-73	10-24-73	0.27
Long Creek 02142916	Catawba River	Lat 35°17'53", long 80°58'45", Mecklenburg County, at bridge on State Highway 27, 2.3 miles downstream from Gum Branch, and 3 miles northwest of Thrift.	32.2	1955, 1957, 1969-73	10-24-73	3.98
Longview Creek 02143005	Henry Fork	Lat 35°43'24", long 81°22'32", Catawba County, at bridge on Secondary Road 1196, 0.8 mile southeast of Longview, and 1.6 miles upstream from mouth.	a.9	1970-73	10-24-73	*.64
Henry Fork 02143027	South Fork Catawba River	Lat 35°39'49", long 81°18'26", Catawba County, at bridge on Secondary Road 1143, 1.7 miles upstream from mouth, and 2.5 miles northwest of Startown.	106	1970-71, 1973	10-24-73	*78.5
South Fork Catawba River 02143069	Catawba River	Lat 35°37'58", long 81°18'20", Catawba County, at bridge on State Highway 10, 1 mile downstream from Henry Fork, and 2.2 miles west of Startown	a210		1-16-74	*298
					3- 6-74	*285
					3-22-74	493
					4- 5-74	2,500
					4-25-74	*317
					6- 3-74	*292
					7-24-74	*245
					9- 5-74	*250
Bolicks Dry Branch 02143107	Clark Creek	Lat 35°42'42", long 81°16'30", Catawba County, at culvert on Secondary Road 1478, 0.3 mile upstream from mouth, and 3.9 miles east of Hickory.	a1.9	1970-73	10-24-73	*1.61
Clark Creek 02143109	South Fork Catawba River	Lat 35°41'50", long 81°16'08", Catawba County, at bridge on U.S. Highway 64, 1.6 miles upstream from Cline Creek, and 4.5 miles southeast of Hickory.	6.32	1970-73	10-24-73	*6.30
Conocver Branch 02143115	Cline Creek	Lat 35°42'08", long 81°13'52", Catawba County, upstream from Conover sewage effluent outfall, 0.8 mile upstream from mouth, and 1 mile west of Conover.	a.6	1970-73	10-24-73	*.34
Cline Creek tributary 0214311675	Cline Creek	Lat 35°42'22", long 81°15'37", Catawba County, upstream from waste treatment plant, 1 mile upstream from mouth, and 4.9 miles southeast of Hickory.	a.6	1973	10-24-73	*.21
Cline Creek tributary 02143117	Cline Creek	Lat 35°42'16", long 81°15'33", Catawba County, downstream from waste treatment plant, 0.8 mile upstream from mouth, and 5 miles southeast of Hickory	a.7	1973	10-24-73	*.42
Cline Creek 02143121	Clark Creek	Lat 35°41'14", long 81°15'08", Catawba County, at bridge on Secondary Road 1164, 0.8 mile upstream from mouth, and 2.4 miles southwest of Conover.	a5.3	1970-73	10-24-73	*3.42
Clark Creek 02143172	South Fork Catawba River	Lat 35°37'58", long 81°13'34", Catawba County, at bridge on Secondary Road 2014, 0.4 mile downstream from Town Creek, and 2.2 miles south of Newton.	30.1	1970-73	11- 1-73	*21.6
Clark Creek 02143173	South Fork Catawba River	Lat 35°37'14", long 81°14'04", Catawba County, at bridge on Secondary Road 2012, 1.8 miles downstream from Town Creek, and 2.6 miles southwest of Meyers.	34.8	1970	11- 1-73	*26.8
Clark Creek 02143176	South Fork Catawba River	Lat 35°35'24", long 81°16'04", Catawba County, at bridge on Secondary Road 2007, 0.5 mile upstream from Maiden Creek, and 1.5 miles northwest of Maiden.	a40	1970-73	11- 1-73	*29.6
Maiden Creek 02143178	Clark Creek	Lat 35°35'12", long 81°11'32", Catawba County, at bridge on Secondary Road 1810, at Cotton Factory, and 1.2 miles upstream from Pinch Gut Creek.	9.11	1971-73	11- 1-73	*3.92
Pinch Gut Creek 02143191	Maiden Creek	Lat 35°35'34", long 81°12'26", Catawba County, at bridge on U.S. Highway 321, 0.2 mile upstream from mouth, and 1 mile north of Maiden.	a6.3	1956, 1963, 1970-73	11- 1-73	*4.33
South Fork Catawba River 02143720	Catawba River	Lat 35°22'58", long 81°11'12", Gaston County, at bridge on Secondary Road 1607, at Hardin, and 0.7 mile upstream from Rattle Shoals Creek.	a510	1970-72	10-31-73	290
South Fork Catawba River 02143740	Catawba River	Lat 35°21'32", long 81°09'46", Gaston County, at bridge on Secondary Road 1001, 0.2 mile downstream from Coley Creek, and 2.1 miles southeast of Hardin.	a530	1970-72	10-31-73	379

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Santee River basin--Continued				
South Fork Catawba River 02143908	Catawba River	Lat 35°19'50", long 81°08'00", Gaston County, at bridge on State Highway 275, 0.1 mile downstream from Hoyle Creek, and 3 miles southwest of Stanley.	a560	1970-72	10-31-73 12- 5-73 1- 8-74 8- 2-74 9-21-74	483 *439 894 *582 *581
Long Creek 02144425	South Fork Catawba River	Lat 35°17'46", long 81°11'16", Gaston County, at bridge on U.S. Highway 321, 0.3 mile upstream from Carolina and Northwestern Railroad bridge, and 1.5 miles from Dallas.	a4.2	1970-73	11- 1-73	9.85
Long Creek 02144636	South Fork Catawba River	Lat 35°18'00", long 81°09'40", Gaston County, at bridge on Secondary Road 2264, 1.2 miles southeast of Dallas, and 3 miles upstream from mouth.	a48	1970-71	11- 2-73	11.5
Long Creek 02144761	South Fork Catawba River	Lat 35°18'30", long 81°07'00", Gaston County, at bridge on Secondary Road 2003, 0.2 mile upstream from mouth, and 0.5 mile west of Spencer Mountain.	a61	1970-72	11- 2-73	25.6
Housers Creek 0214483966	South Fork Catawba River	Lat 35°16'52", long 81°07'09", Gaston County, 150 ft downstream from sand fileters at Burlington Industries waste treatment plant, 0.9 mile east of Ranlo, and 1.4 miles upstream from mouth.	a.5	1970-72	11- 2-73	.02
Housers Creek tributary 0214483988	Housers Creek	Lat 35°16'45", long 81°06'53", Gaston County, downstream from effluent discharge from Cocker Machine and Foundry wast treatment plant, 0.1 mile upstream from mouth, and 1.1 miles east of Ranlo.	a.6	1970-73	11- 2-73	.03
Housers Creek 02144841	South Fork Catawba River	Lat 35°17'00", long 81°06'20", Gaston County, at bridge on Secondary Road 2201, 0.5 mile upstream from mouth, and 0.8 mile north of Lowell.	a1.4	1970-72	11- 2-73	.50
Catawba Creek 0214549995	Catawba River	Lat 35°14'57", long 81°11'24", Gaston County, at bridge on U.S. Highway 321, 0.9 mile south of Gastonia, and 2.1 miles upstream from confluence of Anthony Creek.	a1.2		12- 5-73 12-10-73 1- 8-74 8- 6-74	6.21 .57 .60 .80
Catawba Creek 02145509	Catawba River	Lat 35°13'48", long 81°08'02", Gaston County, at bridge on Secondary Road 2446, 0.9 mile downstream from Anthony Creek, and 4 miles southeast of Gastonia.	a9.8	1969-72	11- 1-73	5.24
Catawba Creek 02145512	Catawba River	Lat 35°12'31", long 81°06'28", Gaston County, at bridge on Secondary Road 2439, 3 miles east of Boogertown, and 6 miles upstream from mouth.	17.4	1969-72	11- 1-73	18.0
Crowders Creek 02145544	Catawba River	Lat 35°19'45", long 81°16'43", Gaston County, at bridge on Secondary Road 1122, 0.8 mile upstream from Abernathy Creek, and 3.8 miles east of Kings Mountain.	a6.8	1970-73	12- 5-73 1- 8-74 6-19-74 8- 2-74	*28.4 *8.80 *6.61 218
First Creek 02145551	Abernathy Creek	Lat 35°15'21", long 81°17'27", Gaston County, at first culvert under south end of Interstate Highway I-85 bridge, 0.1 mile upstream from mouth, and 2 miles south of Bessemer City.	a1.6	1970-73	6-19-74	*1.40
Oats Creek 0214555555	Crowders Creek	Lat 35°16'31", long 81°17'06", Gaston County, at concrete pipeline support at wooden bridge, 0.7 mile south of Bessemer City, and 1.4 miles upstream from mouth.	a1.0	1970-73	6-19-74	*.58
Oats Creek 02145556	Crowders Creek	Lat 35°16'03", long 81°16'58", Gaston County, at culvert on Secondary Road 1306, 1 mile south of Bessemer City, and 1.3 miles upstream from mouth.	a1.0	1970-73	6-19-74	*2.21
Abernathy Creek 02145562	Crowders Creek	Lat 35°15'20", long 81°16'10", Gaston County, at culvert on U.S. Highway 29, at Mountain View, and 0.1 mile upstream from mouth.	a7.2	1955, 1970-73	6-21-74	*19.7
Crowders Creek 02145568	Catawba River	Lat 35°15'10", long 81°15'20", Gaston County, at bridge on Secondary Road 1307, 1 mile downstream from Abernathy Creek, and 2.8 miles southeast of Bessemer City.	a16	1957, 1970-73	6-20-74	*14.0
Crowders Creek 02145581	Catawba River	Lat 35°14'02", long 81°13'59", Gaston County, at bridge on Linwood Road, 3 miles upstream from Ferguson Branch, and 3.2 miles east of Mountain View.	a24	1970-72	11- 1-73 6-20-74	17.7 *17.9
Blackwood Creek 02145583	Crowders Creek	Lat 35°13'34", long 81°12'53", Gaston County, at bridge on Secondary Road 1136, and 2.9 miles south of Gastonia.	a3.1	1970-73	6-20-74	*2.43
Blackwood Creek tributary 02145584	Blackwood Creek	Lat 35°12'15", long 81°11'49", Gaston County, at culvert on Secondary Road 1136, and 3.5 miles south of Gastonia.	a.5	1970-73	6-20-74	*.10

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Santee River basin--Continued				
Crowders Creek 02145585	Catawba River	Lat 35°11'38", long 81°13'22", Gaston County, at bridge on Secondary Road 1103, and 5 miles south of Gastonia.	34	1970-73	6-20-74	*25.1
Crowders Creek 02145610	Catawba River	Lat 35°10'09", long 81°11'44", Gaston County, at bridge on U.S. Highway 321, 0.1 mile downstream from South Fork, and 6.5 miles south of Gastonia.	a71	1949-57, 1962, 1964, 1970-73	6-21-74	*31.2
Crowders Creek tributary No.3 02145611	Crowders Creek	Lat 35°13'14", long 81°11'51", Gaston County, at culvert on Secondary Road 2406, and 2.9 miles south of Gastonia.	a.4	1970-72	11- 1-73 6-20-74	.30 *.37
Crowders Creek tributary No.2 02145613	Crowders Creek	Lat 35°12'44", long 81°11'50", Gaston County, at bridge on Secondary Road 2412, and 4 miles south of Gastonia.	a2.2		11- 1-73 6-20-74	1.90 *1.97
Crowders Creek tributary No.2 02145614	Crowders Creek	Lat 35°11'18", long 81°12'03", Gaston County, at bridge on Secondary Road 2420, 0.4 mile northeast of Crowders, and 1.4 miles upstream from mouth.	4.55	1962, 1970-73	6-21-74	*3.18
Crowders Creek tributary 02145617	Crowders Creek	Lat 35°10'21", long 81°11'37", Gaston County, at bridge on Secondary Road 2416, 0.2 mile upstream from mouth, and 6.2 miles south of Gastonia.	6.63	1962, 1970-73	6-21-74	*4.77
Crowders Creek 02145633	Catawba River	Lat 35°09'31", long 81°10'49", Gaston County, at bridge on Secondary Road 2424, 0.8 mile upstream from State line, 1.5 miles downstream from South Fork, 7.2 miles south of Gastonia.	a80	1970-73	12- 5-73 1- 8-74 6-21-74 8- 6-74 9-14-74	133 *86.5 *62.9 *84.0 *42.9
Crowders Creek 02145640	Catawba River	Lat 35°08'15", long 81°08'15", York County, S.C., at bridge on Ridge Road, 3.4 miles upstream from Beaver Dam Creek, and 3.2 miles east-southeast of Bowling Green, S. C.	a96	1970-73	12-10-73 1- 8-74 5-21-74 8- 6-74 9-14-74	*63.6 *98.2 *72.8 106 *50.4
Crowders Creek 0214567050	Catawba River	Lat 35°07'29", long 81°07'13", York County, S.C., at State Highway 152, 3.4 miles upstream from mouth, and 4.8 miles northeast of Clover, S.C.	a97	1972-73	6-21-74	*80.0
Irwin Creek 02146211	Sugar Creek	Lat 35°15'43", long 80°50'14", Mecklenburg County, at culvert on U.S. Highway 21 in Charlotte, and 3.4 miles upstream from mouth.	6.03	1969-73	12- 4-73 1- 7-74 5-21-74 8- 1-74 9-21-74	*1.30 11.0 *2.20 *1.28 *1.22
Sugar Creek 02146381	Catawba River	Lat 35°05'20", long 80°54'00", Mecklenburg County, at bridge on U.S. Highway 21, 0.5 mile upstream from McCullough Branch, and 0.8 mile west of Pineville.	a64	1969-73	10-10-73 5-21-74	24.6 37.4
Sugar Creek 02146398	Catawba River	Lat 35°04'30", long 80°54'20", Mecklenburg County, at railroad bridge at North Carolina-South Carolina State line, 1 mile upstream from Little Sugar Creek, and 1 mile southwest of Pineville.	a69	1969-73	8- 1-74 9-14-74	*35.7 *50.3
Little Sugar Creek 02146421	Sugar Creek	Lat 35°10'21", long 80°50'49", Mecklenburg County, at bridge on Secondary Road 3814, at Charlotte, and 1.3 miles upstream from Briar Creek.	a16	1969-73	12- 4-73 1- 7-74 5-21-74 8- 6-74 9-19-74	*2.56 35.7 *4.92 *7.41 33.0
Little Sugar Creek 02146538	Sugar Creek	Lat 35°04'40", long 80°53'10", Mecklenburg County, at bridge on U.S. Highway 521, 0.5 mile southeast of Pineville, and 3.5 miles upstream from mouth.	49.3	1969-73	12- 4-73 1- 7-74 5-21-74 8- 1-74	*19.5 221 *33.9 *24.4
McAlpine Creek 02146556	Sugar Creek	Lat 35°09'46", long 80°43'57", Mecklenburg County, at bridge on Secondary Road 3156, 0.2 mile upstream from Campbell Creek, and 5 miles west of Mint Hill.	8.66	1969-73	11-12-73 12- 4-73 1- 7-74 8- 7-74 9-21-74	*1.22 *1.09 14.5 4.68 *1.88
Campbell Creek 02146563	McAlpine Creek	Lat 35°09'50", long 80°44'20", Mecklenburg County, at culvert on Secondary Road 3156, 0.4 mile upstream from mouth, and 5.3 miles west of Mint Hill.	a7.1	1969-73	11-12-73	.50

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Santee River basin--Continued				
Irvins Creek 0214658055	McAlpine Creek	Lat 35°08'57", long 80°43'34", Mecklenburg County, at culvert on new U.S. Highway 74, 1.2 miles upstream from mouth, and 2.4 miles north of Matthews.	a12	1969-73	11-12-73	1.49
McAlpine Creek 02146592	Sugar Creek	Lat 35°08'53", long 80°44'44", Mecklenburg County, at bridge on Secondary Road 1009, 0.2 mile downstream from Irvins Creek, and 2.5 miles north of Matthews.	32.5	1930, 1957, 1962, 1969-73	11-13-73	4.48
McMullen Creek 0214669890	McAlpine Creek	Lat 35°59'53", long 80°47'36", Mecklenburg County, at bridge on Secondary Road 3502, 4 miles southeast of Charlotte, and 7.1 miles upstream from mouth.	a4	1972-73	11-13-73	.09
McMullen Creek 0214669895	McAlpine Creek	Lat 35°59'35", long 80°47'55", Mecklenburg County, at bridge on State Highway 16, 4.1 miles southeast of Charlotte, and 6.6 miles upstream from mouth.	a4.7	1972-73	11-13-73	.17
McAlpine Creek 02146760	Sugar Creek	Lat 35°03'43", long 82°52'39", Mecklenburg County, at bridge on U.S. Highway 521, 1 mile downstream from McMullen Creek, and 2 miles south of Pineville.	91.7	1949-57, 1962-67, 1969-73	12- 4-73	*10.1
					1- 7-74	362
					8- 1-74	*18.7
Sixmile Creek 02146858	Catawba River	Lat 35°00'40", long 80°49'40", Mecklenburg County, at bridge on Secondary Road 3635, 2 miles downstream from Flat Branch, and 6.2 miles southeast of Pineville.	a21		12- 6-73	2.53
					12-10-73	3.32
					1- 9-74	11.5
					7-31-74	.35
					8-31-74	.72
Twelvemile Creek 0214690555	Catawba River	Lat 34°56'40", long 80°46'20", Union County, at bridge on Secondary Road 1301, 2.2 miles northwest of Waxhaw, and 3 miles upstream from confluence of Sixmile Creek.	a76		12- 6-73	4.35
					12-10-73	11.8
					1- 9-74	30.5
					7-31-74	4.02
					8- 9-74	80.4
					8-31-74	3.51
Waxhaw Creek 02147126	Catawba River	Lat 34°50'12", long 80°47'31", Union County, at bridge on Secondary Road 1103, 6 miles upstream from mouth, and 6.5 miles south of Waxhaw.	a37	1957, 1961-62	12- 6-73	5.27
					12-10-73	8.38
					1- 9-74	16.1
					7-31-74	1.25
					8-31-74	2.93
Broad River 02148332	Santee River	Lat 35°29'42", long 82°16'25", Buncombe County, at bridge on Secondary Road 2802, downstream from Flat Creek, and 3.1 miles north of Bat Cave.	33.6	1959	12- 4-73	*73.8
					1-18-74	*104
					2-27-74	120
					4-12-74	141
					5-21-74	*115
Broad River 02148751	Santee River	Lat 35°25'27", long 82°09'56", Rutherford County, at bridge on U.S. Highway 74, 0.2 mile west of Uree, and 2.8 miles downstream from Cane Creek.	a100	1970-71, 1973	12- 4-73	*176
					1-16-74	337
					5-21-74	337
					7-11-74	316
					9-19-74	*23.8
Green River 02149397	Broad River	Lat 35°12'52", long 82°26'31", Henderson County, at bridge on U.S. Highway 25, 0.1 mile downstream from Vernon Creek, and 1.1 miles southwest of Tuxedo.	33.4	1959, 1964	12- 5-73	790
					1-18-74	*143
					2-27-74	*157
					5-23-74	204
					7-12-74	*76.7
					8-15-74	*110
Green River 02149719	Broad River	Lat 35°20'06", long 81°11'16", Polk County, at Turner Shoals Dam on State Highway 9, 0.8 mile upstream from Britten Creek, and 3 miles northwest of Mill Spring.	a140		12- 5-73	1,100
					1-17-74	*15.6
					4- 2-74	1,080
					7-12-74	460
Broad River 0215027770	Santee River	Lat 35°13'00", long 81°46'45", Rutherford County, at bridge on U.S. Highway 221A, 1.2 miles upstream from confluence of Second Broad River, and 1.5 miles southwest of Cliffside.	a624		12- 6-73	2,720
					6-20-74	*1,070
					7-11-74	1,650
Second Broad River 02150321	Broad River	Lat 35°30'57", long 81°58'19", Rutherford County, at Thermal City, and 2 miles downstream from Bakers Creek.	a26		12- 7-73	*47.6
					1-16-74	*37.8
					5-23-74	76.2
					7-11-74	*37.9
					8-15-74	*39.0
					9-19-74	*35.1

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Santee River basin--Continued				
Brushy Creek 02152546	First Broad River	Lat 35°19'40", long 81°35'38", Cleveland County, at bridge on Secondary Road 1342, 0.8 mile downstream from Little Creek, and 2 miles east of Washburn.	20.1	1970-73	12- 7-73 1-16-74 4-18-74 7-30-74	*18.8 *23.2 *35.4 *19.0
Brushy Creek 02152580	First Broad River	Lat 35°19'08", long 81°34'45", Cleveland County, at bridge on U.S. Highway 74, 0.7 mile west of Shelby, and 1 mile upstream from mouth.	27.6	1952, 1955, 1964-67, 1970-73	12- 7-73 1-16-74 4-18-74 7-30-74	*23.0 *31.6 *44.5 *22.9
First Broad River 02152596	Broad River	Lat 35°13'03", long 81°37'37", Cleveland County, at bridge on Secondary Road 1140, 3 miles upstream from mouth, and 4.8 miles northwest of Earl.	292	1968-73	12-12-73 1-15-74 4-18-74 7-12-74 7-30-74	548 *360 423 *371 *316
Poplar Creek 02152612	Beaverdam Creek	Lat 35°14'34", long 81°38'51", Cleveland County, at bridge on Secondary Road 1149, 1.2 miles upstream from mouth, and 1.2 miles southeast of Boiling Springs.	a1.0	1970-72	10-30-73	.69
Buffalo Creek 02153296	Broad River	Lat 35°19'40", long 81°28'40", Cleveland County, at Seaboard Coast Line Railroad bridge, downstream from Long Creek, and 0.5 mile west of Stubbs.	a53	1949, 1964, 1970-72	10-30-73	27.9
Buffalo Creek 02153297	Broad River	Lat 35°19'30", long 81°28'40", Cleveland County, 0.5 mile southwest of Stubbs, 0.5 mile downstream from Seaboard Coast Line Railroad bridge, 0.5 mile downstream from Long Creek.	a54	1970-72	10-30-73 12- 7-73 1-16-74	26.6 *33.0 *53.9
Gilliam Creek 02153309	Muddy Fork	Lat 35°20'54", long 81°23'58", Cleveland County, at bridge on dirt road extension of Secondary Road 2000, 0.4 mile upstream from mouth, and 2.4 miles southwest of Cherryville.	a2.2	1970-72	10-31-73	1.43
Gilliam Creek tributary 02153311	Gilliam Creek	Lat 35°20'54", long 81°23'47", Gaston County, at bridge on Secondary Road 1422, 0.8 mile upstream from mouth, and 2.2 miles southwest of Cherryville.	a4.5	1970-72	10-31-73	2.57
Muddy Fork 02153314	Buffalo Creek	Lat 35°20'20", long 81°24'40", Cleveland County, at bridge on Secondary Road 2002, 2 miles southeast of Waco, and 4.5 miles upstream from Persimmon Creek.	a14	1964, 1970-72	10-30-73	8.41
Buffalo Creek tributary 02153401	Buffalo Creek	Lat 35°11'29", long 81°30'22", Cleveland County, at bridge on Secondary Road 2212, 0.3 mile upstream from mouth, and 1.6 miles southeast of Earl.	a3	1970-72	10-30-73	2.08
Buffalo Creek 02153403	Broad River	Lat 35°11'20", long 81°30'20", Cleveland County, at bridge on Secondary Road 2226, 1.8 miles east of Earl, and 2.5 miles downstream from Benson Creek.	a160	1959-60, 1964, 1970-72	10-30-73	106
Lick Branch 02153429	Buffalo Creek	Lat 35°10'30", long 81°38'00", Cleveland County, at bridge on Secondary Road 2342, 1.2 miles west of Grover, and 2.8 miles upstream from mouth.	1.09	1970-72	10-30-73	1.04
Lick Branch 02153431	Buffalo Creek	Lat 35°10'37", long 81°30'01", Cleveland County, at bridge on Secondary Road 2227, 0.7 mile upstream from mouth, and 2.9 miles west of Grover.	a3.3	1970-72	10-30-73	3.08
Buffalo Creek 02153456	Broad River	Lat 35°10'21", long 81°31'03", Cleveland County, at bridge on State Highway 198, 0.1 mile upstream from North Carolina-South Carolina State line, and 4 miles west of Grover.	a170	1968-73	12-12-73 1-15-74 4-18-74 7-12-74 7-30-74	*65.7 *94.6 213 139 *107
North Pacolet River 02153872	Pacolet River	Lat 35°13'19", long 82°18'24", Polk County, at second bridge on U.S. Highway 176, 0.5 mile downstream from Bear Creek, and 2.6 miles southeast of Saluda.	a7.8	1970-71, 1973	12- 6-73 1-17-74 2-27-74 5-23-74 7-12-74 8-15-74	38.9 30.1 40.9 59.9 *19.7 *16.4
North Pacolet River 02154020	Pacolet River	Lat 35°12'58", long 82°10'52", Polk County, at bridge on Secondary Road 1517, 1.2 miles downstream from Horse Creek, and 5.6 miles southwest of Sandy Plains.	44.8	1968-73	10-11-73 12- 6-73 1-17-74 2-28-74 4- 2-74 5-22-74 7-12-74 8-16-74	*57.9 157 118 130 153 104 68.1 *65.4

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Ohio River basin

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Kanawha River basin				
South Fork New River 03160271	New River	Lat 36°13'14", long 81°38'25", Watauga County, at bridge on U.S. Highway 421, and 2 miles east of Boone.	421	1925, 1955-56, 1960, 1962	12-12-73 2-13-74 5-29-74 7-25-74	*75.5 *72.9 *80.2 *57.1
Naked Creek 03161014	South Fork New River	Lat 36°25'14", long 81°31'31", Ashe County, at culvert on State Highway 88, at Jefferson, 1.8 miles upstream from Ezra Fork.	a.5	1971, 1973	5-21-74	*.83
Naked Creek 03161018	South Fork New River	Lat 36°25'13", long 81°28'29", Ashe County, at bridge on State Highway 88, 0.5 mile east of Jefferson, and 4 miles upstream from mouth.	1.88	1971, 1973	5-21-74	*13.2
Naked Creek 03161035	South Fork New River	Lat 36°24'34", long 81°25'09", Ashe County, at bridge on Secondary Road 1585, 100 ft upstream from Little Naked Creek, and 3 miles southeast of Jefferson.	a4.4	1971, 1973	5-21-74	*13.4
Dog Creek 03161052	South Fork New River	Lat 36°26'22", long 81°24'22", Ashe County, at bridge on Secondary Road 1579, 1.1 miles southwest of Nathans Creek, and 1.5 miles upstream from mouth.	a1.2	1971, 1973	5-21-74	*3.82
South Fork New River 03161361	New River	Lat 36°28'15", long 81°20'14", Ashe County, downstream from Cranberry Creek, 1.2 miles downstream from Nathan Creek, and 2 miles southwest of Scottville.	294		12-11-73 2-13-74 5-29-74 7-25-74	*688 693 *750 *450
North Fork New River 03161880	New River	Lat 36°25'18", long 81°37'15", Ashe County, at bridge on Secondary Road 1100, at Creston, and downstream from Three Top Creek.	a63	1949-56, 1960, 1962	12-11-73 2-13-74 5-29-74 7-25-74	*99.9 *150 *111 *96.6
Little Buffalo Creek 03162078	Buffalo Creek	Lat 36°24'15", long 81°29'26", Ashe County, at culvert on Second Street in West Jefferson, and 2.5 miles upstream from mouth.	a1.6	1971, 1973	5-21-74	*2.12
Little Buffalo Creek 03162086	Buffalo Creek	Lat 36°25'18", long 81°29'49", Ashe County, at bridge on State Highway 88, 1 mile upstream from mouth, and 1.5 miles north of West Jefferson.	a3.6	1971, 1973	5-21-74	*5.52
North Fork New River 03162500	New River	Lat 36°30'13", long 81°26'40", Ashe County, 0.2 mile downstream from bridge on State Highway 16 at Crumpler, and 6 miles upstream from South Fork.	277		12-11-73 2-13-74 5-29-74 7-25-74	*353 *504 *491 *281
New River 03162850	Kanawha River	Lat 36°33'08", long 81°11'00", Alleghany County, at bridge on Secondary Road 1345, 0.8 mile downstream from Rock Creek, and 1.3 miles north northeast of Amelia.	820	1968-69, 1971-73	10- 4-73 12-10-73 5-30-74	*1,610 *1,980 *1,950
Little River 03162852	New River	Lat 36°27'35", long 81°10'04", Alleghany County, at bridge on Secondary Road 1140, 0.6 mile downstream from confluence of Cheek Branch, and 1 miles southwest of Whitehead.	4.8		12-10-73 2-14-74 5-30-74 7-25-74	*8.86 *12.6 *11.0 *8.22
Little River 03162951	New River	Lat 36°32'33", long 81°01'15", Alleghany County, at bridge on State Highway 18, 1 mile downstream from Brush Creek, and 0.5 mile west of Blevins Crossroads.	a110		12-10-73 2-14-74 7-25-74	*255 *277 *127
		Tennessee River basin				
West Fork French Broad River 03438879	French Broad River	Lat 35°08'20", long 82°51'04", Transylvania County, at bridge on U.S. Highway 64, 1.2 miles upstream from North Fork, and 1.7 miles west of Rosman.	27.2	1968-73	7-23-74	66.0
West Fork French Broad River 03438881	French Broad River	Lat 35°08'28", long 82°50'20", Transylvania County, at bridge on Secondary Road 1135, 0.1 mile upstream from North Fork, and 1 mile west of Rosman.	29.4	1944, 1953-55, 1963, 1966, 1968-73	7-23-74	62.1
Galloway Creek 03439471	French Broad River	Lat 35°09'06", long 82°48'40", Transylvania County, at culvert on entrance road to American Thread Company from U.S. Highway 64, 0.5 mile upstream from mouth, and 0.5 mile south of Calvert.	.56	1968-73	7-23-74	1.71
Galloway Creek 03439474	French Broad River	Lat 35°09'00", long 82°48'30", Transylvania County, at culvert below American Thread Company plant, 0.2 mile upstream from mouth, and 0.5 mile south of Calver.	.64	1968-73	7-23-74	1.87

a approximately.

Discharge measurements made at miscellaneous sites during water year 1974, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Tennessee River basin--Continued				
French Broad River 03439500	Tennessee River	Lat 35°08'55", long 82°47'59", Transylvania County, at bridge on Secondary Road 1129, 0.8 mile southeast of Calverty, and 1.4 miles downstream from East Fork.	103	†1924-55, 1963, 1968-73	7-23-74	258
French Broad River 03440077	Tennessee River	Lat 35°11'51", long 82°43'50", Traysylvania County, at bridge on Secondary Road 1114, 0.8 mile downstream from Haunty Branch, and 1 mile east of Glazener Gap.	140		7-23-74	314
King Creek 03440272	French Broad River	Lat 35°14'22", long 82°43'49", Transylvania County, at culvert on U.S. Highway 64, at Brevard, and 1.3 miles upstream from mouth.	.37	1968-69, 1971-73	7-24-74	8.77
King Creek 03440276	French Broad River	Lat 35°14'04", long 82°43'13", Transylvania County, at bridge on Secondary Road 1546, 0.6 miles upstream from mouth, and 0.8 mile east of Brevard.	4.17	1968-69, 1971-73	7-24-74	11.9
French Broad River 03440293	Tennessee River	Lat 35°15'03", long 82°41'58", Transylvania County, at bridge on Secondary Road 1540 at Dunns Rock, and 0.3 mile upstream from Davidson River, at mile 192.1.	170	1968-70, 1973	7-24-74	432
Davidson River 0344033010	French Broad River	Lat 35°17'07", long 82°49'47", Transylvania County, 0.3 mile upstream from confluence of Laurel Fork, and 4.5 miles northeast of Balsam Grove.	4.68		12- 6-73 12-13-73 4-18-74 7-24-74	40.5 18.4 22.8 12.4
Joel Branch 0344075050	Davidson River	Lat 35°16'25", long 82°43'42", Transylvania County, 0.8 mile upstream from mouth, and 4.4 miles northwest of Brevard.	.37	1972-73	12-24-73	1.30
Davidson River 03441141	French Broad River	Lat 35°15'18", long 82°41'53", Transylvania County, at bridge on Secondary Road 1533, 0.2 mile northeast of Pisgah Forest.	47.2	1968-73	5-16-74 7-24-74	176 98.5
French Broad River 03441181	Tennessee River	Lat 35°15'06", long 82°40'45", Transylvania County, at Patton Bridge on Secondary Road 1533, 0.3 mile southeast of Davidson River, and 1.5 miles upstream from Glad Creek, at mile 190.6.	222	1968-71, 1973	7-25-74	829
French Broad River 03442652	Tennessee River	Lat 35°16'06", long 82°38'13", Transylvania County, at bridge on Secondary Road 1528, 0.2 mile south of Penrose, and 0.3 mile downstream from Little River.	291	1968-73	7-25-74	1,030
French Broad River 03443133	Tennessee River	Lat 35°17'49", long 82°34'51", Henderson County, at bridge on Secondary Road 1205, 0.1 mile downstream from Little Willow Creek, and 1.6 miles southeast of Etowah, and at mile 180.8.	308	1968-73	7-25-74	1,070
French Broad River 03443500	Tennessee River	Lat 35°20'41", long 82°33'37", Henderson County, at bridge on Secondary Road 1314 at Horseshoe, and 2.5 miles upstream from Boylston Creek.	326	1904-06, 1968-71, 1973	7-25-74	1,120
French Broad River 03444111	Tennessee River	Lat 35°22'26", long 82°32'22". Henderson County, at Kings Bridge on State Highway 191, downstream from Bolyston Creek, and 2 miles southeast of Mills River.	355	1968-69, 1973	7-25-74	1,200
North Fork Mills River 03445425	Tennessee River	Lat 35°24'20", long 82°38'32", Henderson County, downstream from sewage effluent outfall, 0.2 mile upstream from boundary of Pisgah National Forest, and 0.5 mile downstream from Rocky Fork.	18.9	1969-73	7-26-74	28.7
Mills River 0344600989	French Broad River	Lat 35°23'29", long 82°34'06", Henderson County, at bridge on State Highway 191 and 280, 0.2 mile north of Mills River, and 2.4 miles upstream from mouth.	70.5		12- 6-73 12-13-73 5-16-74 7-26-74	368 157 302 128
Little Mud Creek 03446044	Mud Creek	Lat 35°15'57", long 82°30'24", Henderson County, 600 ft upstream from culvert on Secondary Road 1127, 0.6 mile upstream from Wolf Lake Dam, 1.1 miles upstream from Mud Creek, and 3.7 miles west of Flat Rock.	2.2	1971-73	7-26-73	3.33
Bat Fork Creek 03446106	Johnsons Drainage Ditch	Lat 35°16'36", long 82°24'30", Henderson County, at culvert on Secondary Road 1809, 0.8 mile southeast of East Flat Rock, and 1.2 miles upstream from Dunn Creek.	1.02	1968-73	7-26-74	2.80
King Creek 03446161	Meminger Creek	Lat 35°30'34", long 82°26'08", Henderson County, 0.8 mile upstream from Meminger Creek, and 0.4 mile east-northeast of Flat Rock.	a3.0		7-26-74	4.71
Mud Creek 03446363	French Broad River	Lat 35°20'30", long 82°28'05", Henderson County, at bridge on Secondary Road 1508, 0.4 mile southeast of Balfour, and 0.6 mile upstream from Clear Creek.	52.1	1968-73	7-26-74	68.7

a Approximately.
† Operated as a continuous gaging station.

Discharge measurements made at miscellaneous sites during water year 1974, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Tennessee River basin--Continued				
Allen Creek 03446545	Clear Creek	Lat 35°20'55", long 82°26'38". Henderson County, at Secondary Road 1518, 0.5 mile upstream from mouth of Clear Creek, and 2.6 miles northeast of Hendersonville.	a1.2		7-30-74	1.21
Mud Creek 03446569	French Broad River	Lat 35°21'10", long 82°27'51", Henderson County, at bridge on Secondary Road 1508, 0.2 mile downstream from Clear Creek, and 0.6 miles northeast of Clear Creek, and 0.6 mile northeast of Balfour.	97.4	1968-73	7-30-74	162
French Broad River 03447066	Tennessee River	Lat 35°24'26", long 82°31'53", Henderson County, at Butlers Bridge on Secondary Road 1345, 0.6 mile upstream from Cane Creek, and 1 mile west of Brickton, and at mile 167.4.	a546		7-31-74	946
Pinner Creek tributary 0344745449	Pinner Creek	Lat 35°26'58", long 83°30'00", Buncombe County, 250 ft upstream from mouth, and at Oak Park.	.4		11- 9-73 12- 6-73 12-13-73 7-29-74	.60 1.36 .80 .83
Pinner Creek 0344745950	Cane Creek	Lat 35°26'22", long 82°29'31", Henderson County, 0.2 mile upstream from mouth, and 1 mile northeast of Fletcher.	a2.0		11- 9-73 12- 6-73 12-13-73 7-29-74	1.67 5.02 2.78 2.30
French Broad River tributary 03447671	French Broad River	Lat 35°25'41", long 82°32'41", Henderson County, at culvert on Secondary Road 3526, 0.2 mile upstream from mouth, and 2.4 miles west of Fletcher.	.05	1968-73	7-30-74	.43
French Broad River 03447687	Tennessee River	Lat 35°25'45", long 82°33'12", Henderson County, at Fanning Bridge on Secondary Road 1419, 0.4 mile downstream from McDowell Creek, 2.9 miles west of Fletcher, at mile 165.3.	640	1968-69, 1971-73	7-31-74	994
French Broad River tributary 0344776650	French Broad River	Lat 35°27'01", long 82°32'32", Buncombe County, at bridge on Secondary Road 3525, 0.1 mile upstream from mouth, and 1.8 miles southwest of Arden.	a.4	1973	7-30-74	.40
Bent Creek 0344791650	French Broad River	Lat 35°28'58", long 82°37'22", Buncombe County, at bridge on Hardtimes Road, 1.7 miles upstream from mouth, and 2.5 miles northwest of West Haven.	a6.0	1972	6-25-73 7-31-74	f12.1 6.04
Bent Creek 03447917	French Broad River	Lat 35°30'08", long 82°35'39", Buncombe County, at bridge on State Highway 191, at Bent Creek, and 0.1 mile upstream from mouth.	10.8	1925, 1947, 1972-73	7-31-74	10.7
Hominy Creek tributary 03448204	Hominy Creek	Lat 35°32'33", long 82°43'48", Buncombe County, at bridge on Secondary Road 1140, 0.6 mile upstream from mouth, and 1 mile southwest of Jugtown.	.68	1970-73	7-22-74	.50
Hominy Creek tributary 03448206	Hominy Creek	Lat 35°32'17", long 82°43'31", Buncombe County, at bridge on Secondary Road 1140, 0.1 mile upstream from mouth, and 0.7 mile east of Luther.	.85	1970-73	7-22-74	.70
Hominy Creek 03448425	French Broad River	Lat 35°32'32", long 82°41'01", Buncombe County, at bridge on State Highway 151, 0.3 mile upstream from Pole Creek, and 0.4 mile southwest of Harmony.	a70		7-22-74	64.0
Moore Creek 03448588	Hominy Creek	Lat 35°32'88", long 82°39'08", Buncombe County, at bridge on Secondary Road 1241, 0.2 mile upstream from mouth, and 0.1 mile north of Enka.	a2.8		11- 9-73 12- 6-73 12-13-73 7-22-74	1.43 2.45 4.82 1.58
Hominy Creek 03448616	French Broad River	Lat 35°32'41", long 82°38'05", Buncombe County, at bridge on Sand Hill Road downstream from Enka Plant, 1.2 miles downstream from Moore Creek, 3.3 miles east of Candler.	91.1	1968-73	11- 9-73 7-22-74	50.8 79.6
Hominy Creek 0344878115	French Broad River	Lat 35°33'14", long 82°35'27", Buncombe County, at Asheville, 0.1 mile upstream from mouth, and 0.4 mile downstream from Interstate 40.	104	1972-73	7-22-74	87.0
Swannanoa River 03448910	French Broad River	Lat 35°36'11", long 82°21'55", Buncombe County, at bridge on U.S. Highway 70, at Grovestone, 0.2 mile upstream from North Fork, and 1.8 miles northeast of Swannanoa.	21.2	1944, 1953-55, 1958-60, 1973	8- 1-74	20.9
North Fork Swannanoa River 03449000	Swannanoa River	Lat 35°39'11", long 82°21'04", Buncombe County, 0.1 mile downstream from Walker Branch, and 3 miles northwest of Black Mountain.	23.8	1973	8- 1-74	5.46

a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1974, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Tennessee River basin--Continued				
Swannanoa River 03449500	French Broad River	Lat 35°36'11", long 82°23'42", Buncombe County, 1,000 ft upstream from bridge at Swannanoa, and 1.5 miles downstream from North Fork.	58.8	1926-31, 1973	8- 1-74	33.6
Swannanoa River 03450500	French Broad River	Lat 35°34'54", long 82°27'55", Buncombe County, at Azalea, and 150 ft downstream from Christian Creek.	102	1973	8- 1-74	56.7
Lee Creek 03451644	French Broad River	Lat 35°36'52", long 82°37'41", Buncombe County, at culvert on Secondary Road 1369, 4.1 miles upstream from mouth, and 4.6 miles northeast of Enka.	.84	1970-73	8- 2-74	.47
Lee Creek 03451646	French Broad River	Lat 35°37'25", long 82°37'27", Buncombe County, at culvert on Secondary Road 1367, 2.4 miles northwest of Emma, and 3.7 miles upstream from mouth.	1.55	1970-73	8- 2-74	.77
Lee Creek 03451648	French Broad River	Lat 35°37'58", long 82°37'46", Buncombe County, at bridge on Secondary Road 1002, 1.5 miles southwest of Elk Mountain, 2.6 miles upstream from mouth.	2.24	1970-73	8- 2-74	1.22
Reems Creek 03451826	French Broad River	Lat 35°41'20", long 82°35'40", Buncombe County, 800 ft upstream from Wagner Branch, 2 miles west of Weaverville.	33.4	1968-73	11- 9-73 7-29-74	8.07 16.5
Reems Creek 03451890	French Broad River	Lat 35°41'40", long 82°36'48", Buncombe County, at bridge on U.S. Highway 25, at mouth, and 0.5 mile south of Alexander.	36.3	1944, 1953-54, 1960-63, 1968-73	11- 9-73 7-29-74	8.55 17.2
Gabriel Creek 03452824	Ivy Creek	Lat 35°50'39", long 82°33'00", Madison County, at culvert on Secondary Road 1355, 1.2 miles north of Mars Hill, and 1.4 miles upstream from Banjo Branch.	1.61	1968-73	8- 2-74	.72
Gabriel Creek 03452832	Ivy Creek	Lat 35°49'35", long 82°33'32", Madison County, at culvert on State Highway 213, 0.1 mile downstream from Banjo Branch, and 0.6 mile west of Mars Hill.	3.83	1968-73	8- 2-74	2.37
French Broad River 03454512	Tennessee River	Lat 35°53'41", long 82°49'23", Madison County, at bridge on U.S. Highway 25 at Hot Springs, and 0.2 mile downstream from Silver Mine Creek.	1,565		4-23-74	3,540
Pigeon River 03457124	French Broad River	Lat 35°32'06", long 82°54'40", Haywood County, at bridge on Secondary Road 1818, at Clyde, and 0.2 mile downstream from Chambers Branch.	162	1969-73	11-29-73 4-30-74 8- 2-74	521 319 143
Pigeon River 03457138	French Broad River	Lat 35°32'55", long 82°56'21", Haywood County, at bridge on road connecting Secondary Road 1513 and 1519, and 0.5 mile upstream from Richlands Creek, 2 miles northeast of Lake Junaluska Dam, and at mile 55.5.	167	1969-73	11-29-73 4-30-74 8- 2-74	532 380 149
Richlands Creek 03457332	Pigeon River	Lat 35°27'50", long 83°00'40", Haywood County, 0.1 mile upstream from Hyatt Creek, and 0.5 mile south of Hazelwood.	10.9	1968-73	11-29-73	22.1
Pigeon River 03458441	French Broad River	Lat 35°33'41", long 82°57'14", Haywood County, at bridge on Secondary Road 1625, 0.5 mile downstream from Yates Cove, and 3 miles northwest of Clyde.	238	1968-73	4-30-74 8- 2-74	530 223
Pigeon River 03458638	French Broad River	Lat 35°36'52", long 82°58'01", Haywood County, at bridge on Secondary Road 1363, 0.1 mile downstream from Dotson Branch, and 1.8 miles northwest of Crabtree.	278	1969-73	11-29-73 4-30-74	785 501
Cataloochee Creek 03459987	Pigeon River	Lat 35°37'52", long 83°05'13", Haywood County, upstream from Caldwell Fork, and 4.6 miles northwest of Cove Creek.	27.2	1973	11-27-73	81.1
Pigeon River 03460766	French Broad River	Lat 35°46'32", long 83°06'01", Haywood County, at Carolina Power and Ligh power plant, downstream from Big Creek, and at Waterville.	536	1968-71, 1973	11-30-73	1,640
North Toe River 03461910	Nolichucky River	Lat 36°05'01", long 81°55'43", Avery County, at culvert on State Highway 194, at Newland, and downstream from Kentucky Creek.	9.24	1954-55, 1962-69, 1971-73	5-13-74	28.6
North Toe River 03461951	Nolichucky River	Lat 36°03'30", long 82°01'08", Avery County, at bridge on U.S. Highway 19E, 0.3 mile upstream from Powder Mill Creek, 0.8 mile southwest of Frank, and at mile 58.5.	50.5	1969-72	10-29-73	*43.0
North Toe River 03461971	Nolichucky River	Lat 36°00'06", long 82°01'14", Avery County, 0.5 mile upstream from Pyatt Creek, 1.3 miles downstream from Justice Creek, 1.5 miles south of Spear, and at mile 52.8.	68.5	1969-72	10-24-73	61.9

Discharge measurements made at miscellaneous sites during water year 1974, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Tennessee River basin--Continued				
North Toe River tributary 0346197595	North Toe River	Lat 35° 38'54", long 82°00'48", Avery County, 0.2 mile upstream from mouth, and 0.8 mile northwest of Ingalls.	Indeterminate	1972-73	10-24-73	*0.64
North Toe River 03461976	Nolichucky River	Lat 35°58'42", long 82°00'59", Avery County, at bridge on U.S. Highway 19E, 0.1 mile downstream from Jones Creek, 0.7 mile north of Ingalls, and at mile 50.9.	74.1	1969-71, 1973	8- 5-74	162
Brushy Creek 03461979	North Toe River	Lat 35°57'23", long 81°58'23", Avery County, 2.1 miles upstream from mouth, and 2.4 miles southeast of Ingalls.	1.2	1969-72	10-25-73	*1.02
North Toe River 03462855	Nolichucky River	Lat 35°54'52", long 82°04'03", Mitchell County, at Spruce Pine, 0.1 mile downstream from Beaver Creek, and 0.5 mile upstream from English Creek.	130	1969-70, 1972	8- 5-74	338
North Toe River 03463021	Nolichucky River	Lat 35°55'46", long 82°06'57", Mitchell County, at bridge on Secondary Road 1162 at Penland, 0.4 mile downstream from Bear Creek, and at mile 27.6.	145	1969-70, 1972-73	8- 5-74	409
South Toe River 03463402	North Toe River	Lat 35°52'17", long 82°11'49", Yancey County, at bridge on State Highway 80 at Newdale, and 0.2 mile downstream from Long Branch.	54.1	1969-72	10-25-73 8- 5-74	*51.3 231
South Toe River 03463505	North Toe River	Lat 35°54'32". long 82°11'29", Yancey County, at bridge on State Highway 80 at Newdale, and 0.2 mile downstream from Long Branch.	59.9	1969-73	8- 5-74	278
Mine Fork 0346371520	French Broad River	Lat 35°57'12", long 82°16'58", Yancey County, at bridge on Secondary Road 1330, 1.1 miles southeast of Day Book, and 3.7 miles upstream from mouth, at North Toe River.	2.81	1972-73	10-24-73	*1.10
Mine Fork 03463716	French Broad River	Lat 35°58'09", long 82°17'13", Yancey County, at second bridge over Secondary Road 1416, 0.7 mile upstream from Hampton Branch, and 3.7 miles northeast of Burnsville.	a3.0	1970-72	10-24-73	1.18
North Toe River 03463786	Nolichucky River	Lat 36°01'35", long 82°19'16", Mitchell County, at bridge on State Highway 26, at Huntdale, and 0.5 mile upstream from Cane River.	442	1968-73	5- 7-74	1,200
Cane River 0346378850	North Toe River	Lat 35°49'47", long 82°19'05", Yancey County, at bridge on State Highway 197, 100 ft downstream from confluence of Haney Creek, and 0.1 mile west of Murchison.	a25		12- 5-73 5- 7-74 9-20-74	800 81.2 *36.5
McIntosh Branch 03463803	Pine Branch	Lat 35°54'48", long 82°18'13", Yancey County, at culvert on U.S. Highway 19E by-pass at mouth, and 1.2 miles west of Burnsville.	.43	1969, 1971-73	10-25-73	.43
Cane River 03463808	Nolichucky River	Lat 35°54'38", long 82°20'53", Yancey County, at bridge on U.S. Highway 19E, 0.4 mile upstream from Roland Branch, and 2.8 miles west of Burnsville.	58.9	1969, 1971-72	10-25-73	29.0
Cane River 03464000	Nolichucky River	Lat 36°00'52", long 82°19'40", Yancey County, on right bank on Secondary Road 1417, 1.3 miles upstream from confluence with North Toe River, amd 2.0 miles east of Sioux.	157	‡1933-71	5- 7-74	434
Nolichucky River 03464500	French Broad River	Lat 36°04'29", long 82°20'41", Mitchell County, at Poplar, and 0.7 mile upstream from Hollow Poplar Creek.	608	‡1922-55, 1962-63, 1968-72	5-31-74	2,360
Watauga River 03478720	South Fork Holston River	Lat 36°09'23", long 81°46'14", Watauga County, at bridge on Secondary Road 1559, at Foscoe, and 0.1 mile downstream from Moodys Mill Creek.	10.6	1955, 1960-67, 1969	12- 5-73 4-10-74 5-13-74 9-23-74	101 48.3 67.0 *17.0
Watauga River 03479269	South Fork Holston River	Lat 36°16'08", long 81°53'04", Watauga County, at bridge on Secondary Road 1200, 0.6 mile upstream from Beech Creek, and 1.2 miles northeast of community of Beech Creek.	126	1960, 1967-68, 1971-73	12- 5-73 5-13-74	1,280 755
Little Tennessee River 03499929	Tennessee River	Lat 34°59'05", long 83°22'56", Rabun County, Ga., at bridge on Georgia State Road 246, 0.7 mile south of Georgia-North Carolina State line, and 1 mile north of Dillard, Ga.	55.2	1969-73	7-23-74	128
Little Tennessee River 03499936	Tennessee River	Lat 35°01'00", long 83°22'53", Macon County, at bridge on Secondary Road 1683, at Norton, and 0.1 mile downstream from Norton Branch.	63.8	1968-70, 1972-73	5-17-74 6-19-74 7-23-74	326 240 146
Cartoogechaye Creek 03500012	Little Tennessee River	Lat 35°06'53", long 83°27'56", Macon County, at bridge on Secondary Road 1128, 0.8 mile upstream from Allison Creek, and 1.7 miles southeast of Cartoogechaye.	5.81	1968-73	11-29-73 7-23-74	52.1 20.4

a Approximately.
‡ Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1974, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Tennessee River basin--Continued				
Cartoogechaye Creek 0350011415	Little Tennessee River	Lat 35°09'25", long 83°27'21", Macon County, at bridge on Secondary Road 1146, 3.2 miles upstream from mouth, and 2.8 miles southwest of Franklin.	40.8	1972-73	7-24-74	63.3
Cartoogechaye Creek 0350011455	Little Tennessee River	Lat 35°09'28", long 83°25'29", Macon County, at bridge on Secondary Road 1148, 1.8 miles upstream from mouth, and 2 miles southwest of Franklin.	48.8	1972-73	7-24-74	73.2
Little Tennessee River 03500311	Tennessee River	Lat 35°10'21", long 83°22'20", Macon County, at bridge on Secondary Road 1659, at Franlin, and 0.2 mile upstream from Cullasaja River.	201	1958-59, 1972	11-29-73 7-25-74	1,180 454
Mill Creek 03500324	Cullasaja River	Lat 35°03'18", long 83°11'49", Macon County, at culvert on U.S. Highway 64 at Highlands, and 0.4 mile upstream from Satulah Branch.	1.15	1958, 1968-73	7-25-74	4.13
Mill Creek 03500328	Cullasaja River	Lat 35°03'43", long 83°12'24", Macon County, at bridge on Secondary Road 1552, 0.2 mile upstream from mouth, and 0.8 mile northwest of Highlands.	1.56	1968-73	7-25-74	6.42
Little Tennessee River 03501500	Tennessee River	Lat 35°11'10", long 83°22'20", Macon County, at bridge on U.S. Highway 23 at Franklin, 0.8 mile downstream from Cullasaja River.	295	1972	7-25-74	624
Little Tennessee River 03502000	Tennessee River	Lat 35°13'59", long 83°23'32", Macon County, 0.2 mile upstream from State Highway 28 at Iotla, and 0.2 mile upstream from Iotla Creek.	323	‡1929-45, 1972-73	6-19-74 7-26-74	1,090 712
Caler Creek 0350228799	Cowee Creek	Lat 35°16'17", long 83°21'40", Macon County 300 ft upstream from bridge on Secondary Road 1343, 1.7 miles upstream from mouth, and 2.8 miles east of Wests Mill.	4.13	1972-73	11-28-73 7-26-74	3.09 2.36
Caler Creek 03502288	Cowee Creek	Lat 35°16'18", long 82°21'38", Macon County, at bridge on Secondary Road 1343, 0.5 mile upstream from Dalton Creek, 2.8 miles east of Wests Mill.	4.13	1972-73	11-29-73 7-26-74	11.8 8.54
Cowee Creek 03502330	Little Tennessee River	Lat 35°15'46", long 83°24'33", Macon County, at bridge on Secondary Road 1340, at Wests Mill, and 0.7 mile upstream from mouth.	25.1	1944, 1953-55, 1958, 1962-66, 1972-73	7-26-74	30.8
Nantahala River 03503561	Little Tennessee River	Lat 35°05'39", long 83°33'38", Macon County, at bridge on U.S. Highway 64, at Rainbow Springs, and 0.3 mile upstream from Black Creek.	24.2	1953	9-19-74 5-21-74 6-19-74 7-13-74	42.3 117 98.2 46.6
Frady Creek 03508120	Chastine Creek	Lat 35°20'39", long 83°03'44", Jackson County, 4.9 miles southwest of Cowarts, and 0.7 mile upstream from mouth.	a1.3		9-24-74	*1.37
Caney Fork 03508136	Tucasegee River	Lat 35°18'40", long 83°05'23", Jackson County, 0.8 mile downstream from Abbs Creek, and 1.5 miles west of Cowarts.	a31.9		9-24-74	*35.7
Tuckasegee River 03508522	Little Tennessee River	Lat 35°18'58", long 83°10'41", Jackson County, at bridge on State Highway 107, at Cullowhee, and 0.1 mile upstream from Cullowhee Creek,	207	1968-69	7-29-74	103
Cullowhee Creek 03508621	Tuckasegee River	Lat 35°18'09", long 83°11'01", Jackson County, at bridge on Secondary Road 1330, and 1.7 miles upstream from mouth.	20.6	1968-71	7-29-74	26.8
Cullowhee Creek 03508646	Tuckasegee River	Lat 35°18'46", long 83°11'16", Jackson County, at Cullowhee, 0.3 mile downstream from Long Branch, and 0.9 mile upstream from mouth.	23.1	1968-72	7-29-74	30.8
Scott Creek 0350892150	Tuckasegee River	Lat 35°24'07", long 83°09'48", Jackson County, at bridge on Secondary Road 1456, at Addie, and 5.6 miles upstream from mouth.	a37	1972	7-31-74	77.9
Scott Creek 03508922	Tuckasegee River	Lat 35°24'08", long 83°10'36", Jackson County, at bridge on U.S. Highway 19, 1 mile northeast of Beta, and 1.2 miles downstream from Buff Creek.	37.6	1958-60, 1972	7-31-74	76.8
Scott Creek 03509666	Tuckasegee River	Lat 35°22'29", long 83°13'23", Jackson County, at bridge at City Hall at Sylva, and 0.4 mile downstream from Cope Creek.	55.2	1968-72	7-31-74	97.0
Scott Creek 03509833	Tuckasegee River	Lat 35°22'25", long 83°13'55", Jackson County, 0.1 mile downstream from Dills Branch, and 0.5 mile west of Sylva.	57.0	1973	10-11-73	51.9

a Approximately.
‡ Operated as a continuous gaging station.

Discharge measurements made at miscellaneous sites during water year 1974, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements Date	Measurements Discharge (cfs)
		Tennessee River basin--Continued				
Scott Creek 03510064	Tuckasegee River	Lat 35°22'08", long 83°14'56", Jackson County, at bridge near Dillsboro old railroad station, 0.3 mile upstream from mouth, and 1.5 miles west of Sylva.	58.9	1968-72	7-26-74	145
Tuckasegee River 03510577	Little Tennessee River	Lat 35°23'04", long 83 17'30", Jackson County, at bridge on Secondary Road 1392, at Barkers Creek, N. C., and 0.1 mile upstream from Barkers Creek.	360	1968-70, 1972	7-31-74	407
Tuckasegee River 03510592	Little Tennessee River	Lat 35°24'14", long 83°18'47", Jackson County, at bridge on Secondary Road 1397, at Wilmot, and 0.1 mile upstream from Nations Creek.	370	1968-70, 1972	7-31-74	394
Tuckasegee River 03510618	Little Tennessee River	Lat 35°26'06", long 83°21'35", Swain County, at bridge on Secondary Road 1415, at Whittier, and 0.2 mile downstream from Connelly Creek.	400	1968-70, 1972	8- 7-74	1,090
Oconaluftee River 0351101650	Tuckasegee River	Lat 35°28'37", long 83°19'11", Swain County, at bridge on U.S. Highway 441 and 19, at Cherokee, and 4.1 miles upstream from mouth.	a133	1972	8- 7-74	284
Tulula Creek 03515244	Cheoah River	Lat 35°19'15", long 83°48'08", Graham County, at bridge on Secondary Road 1211, 0.3 mile southeast of Robbinsville, and 0.5 mile upstream from Sweetwater Creek.	28.6	1944, 1947, 1953-55, 1958, 1971-72	8- 6-74	18.2
Sweetwater Creek 03515360	Cheoah River	Lat 35°19'30", long 83°47'36", Graham County, at bridge on Secondary Road 1214, 0.5 mile upstream from Tulula Creek, and 0.8 mile east of Robbinsville.	13.6	1944, 1953-55, 1963-69, 1971-73	8- 6-74	11.6
Long Creek 03515522	Cheoah River	Lat 35°18'39", long 83°48'52", Graham County, at bridge on Secondary Road 1127, at Milltown, and 0.4 mile downstream from Poson Branch.	6.03	1968-73	8- 6-74	5.26
Long Creek 03515610	Cheoah River	Lat 35°19'44", long 83°48'40", Graham County, at bridge on U. S. Highway 129 , upstream from mouth, and 0.5 mile north of Robbinsville.	11.8	1944, 1953-55, 1958-63, 1968-73	8- 6-74	12.3
Cheoah River 03515633	Little Tennessee River	Lat 35°20'05", long 83°48'20", Graham County, 0.1 mile upstream from Mountain Creek, and 0.9 mile north of Robbinsville.	55.3	1968-71	12- 5-73 4-29-74 5- 8-74 7-17-74 8- 6-74	173 106 104 *40.7 38.6
Tusquitee Creek 03547540	Hiwassee River	Lat 35°04'13", long 83°49'00", Clay County, at bridge on Secondary Road 1300, 0.2 mile downstream from Greasy Creek, and 1.7 miles north of Hayesville.	42.5	1942, 1944, 1947 1953-55, 1962, 1964-66, 1968, 1973	6-19-74	g75.4
Fires Creek 03548080	Hiwassee River	Lat 35°04'38", long 83°51'53", Clay County, at bridge on Secondary Road 1300, 1.1 miles upstream from mouth, and 3.3 miles northwest of Hayesville.	23.0	1944, 1953-55, 1962-66, 1968, 1973	6-19-74	g34.8
Hiwassee River 0354840250	Tennessee River	Lat 35°03'28", long 83°56'31", Clay County, at bridge on U.S. Highway 64, 1.5 miles upstream from Brasstown Creek, and 8.3 miles west of Hayesville.	a381		12- 5-73 4-29-74 7-17-74	2,230 171 180
Peachtree Creek 03548413	Hiwassee River	Lat 35°04'40", long 83°58'28", Cherokee County, at bridge on U.S. Highway 64, 0.4 mile upstream from mouth, and 3.4 miles east of Murphy.	18.2	1944, 1953-55, 1963, 1965-66, 1973	6-18-74	g17.3
Martin Creek 03548766	Hiwassee River	Lat 35°04'31", long 84°01'13", Cherokee County, at bridge on Secondary Road 1558, 0.1 mile upstream from mouth, and 1.2 miles southeast of Murphy.	9.02	1944, 1953, 1963, 1966, 1973	6-18-74	g6.09
Valley River 0354912310	Hiwassee River	Lat 35°13'58", long 83°43'10", Cherokee County, at U.S. Highways 19 and 129, 0.1 mile upstream from confluence of Nelson Creek, and 1.6 miles southwest of Topton.	a2.3		12- 5-73 4-29-74 5- 8-74 7-17-74	15.3 6.25 4.45 *2.50

a Approximately.
g Measured by TVA.

Discharge measurements made at miscellaneous sites during water year 1974, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
		Tennessee River basin--Continued				
Valley River 03549124	Hiwassee River	Lat 35°12'00", long 83°47'58", Cherokee County, at bridge on Secondary Road 1389, 0.1 mile downstream from Worm Creek, and 0.4 mile southwest of Buffalo.	20.7	1944, 1953, 1958, 1963, 1966	9-11-68 10-28-69 8-29-73 6-17-74	h12.0 h8.7 h21.0 g34.4
Tatham Creek 03549374	Valley River	Lat 35°12'02", long 83°48'47", Cherokee County, at bridge on U.S. Highway 19, 0.5 mile upstream from mouth, and 0.7 mile east of Andrews.	8.04	1944, 1953, 1955, 1965-66	9-11-68 10-28-69 8-29-73 6-17-74	h3.95 h5.01 h6.91 g10.1
Taylor Creek 03549641	Valley River	Lat 35°10'40", long 83°53'16", Cherokee County, at bridge on Secondary Road 1515, 0.1 mile upstream from Luther Branch, 0.7 mile south of Colaville.	5.78	1944, 1953-54, 1963, 1966	9-11-68 10-28-69 6-17-74	h3.30 h3.64 g8.50
Welch Mill Creek 03549721	Valley River	Lat 35°11'18", long 83°53'38", Cherokee County, at bridge on U.S. Highway 19, 0.2 mile west of Coalville, and 0.7 mile upstream from mouth.	3.77	1944, 1953-54	9-18-63 12-30-65 7- 2-68 9-11-68 10-28-69 6-17-74	f2.87 h2.18 h3.58 h2.85 h2.45 g6.25
Hyatt Creek 03549820	Valley River	Lat 35°10'48", long 83°55'12", Cherokee County, at bridge on U.S. Highway 19, 0.3 mile northeast of Marble, and 0.5 mile upstream from mouth.	7.28	1944, 1951-55, 1961-64, 1973	6-17-74	g20.3
Moccasin Creek 03553666	Nottely River	Lat 34°59'14", long 84°05'00", Cherokee County, at North Carolina-Georgia State line, 1 mile upstream from mouth, and 1.7 miles east of Macedonia.	7.44	1944, 1953, 1954, 1955	4-30-62 9-17-63 9-23-66 7-19-74	f171 f5.94 h6.28 g12.7
Beaverdam Creek 03554420	Hiwassee River	Lat 35°11'34", long 84°08'03", Cherokee County, at bridge on Secondary Road 1326 (Joe Brown Highway), 0.2 mile downstream from Copper Creek, and 0.4 mile southeast of Unaka.	21.7	1944, 1953, 1963-66, 1968	6-18-74	g44.5
North Shoal Creek 03555327	Hiwassee River	Lat 35°12'42", long 84°12'27", Cherokee County, at bridge on Secondary Road 1325, 1.5 miles northeast of Violet, and 4.2 miles upstream from mouth.	4.09	1944, 1953, 1963, 1965, 1973	6-18-74	g10.1
Shuler Creek 03555544	Hiwassee River	Lat 35°12'15", long 84°15'25", Cherokee County, at bridge on Secondary Road 1326, 0.2 mile upstream from Slate Creek, and 2.4 miles northwest of Violet.	13.9	1944, 1953-55, 1962-63	9-26-63 10-29-69 8-28-73 6-18-74	f10.9 h10.5 h26.8 g18.7

f Not previously published.
g Measured by TVA.
h Measured by TVA, not previously published.

U. S. DEPARTMENT OF THE INTERIOR
Geological Survey
P. O. Box 2857
440 Century Sta. P. O. Bldg.
Raleigh, North Carolina 27602