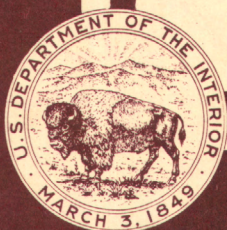
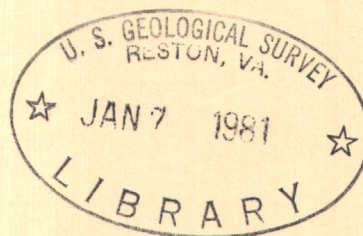


1973

R
(200)
Ga 3
North Carolina
1973
pt. 1

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 Office of Water and Air Resources and with other State, municipal, and Federal agencies

CALENDAR FOR WATER YEAR 1973

1972

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						

1973

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						

1973

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
Water and Air Resources and with other Federal agencies

Prepared in cooperation with

North Carolina Office of Water and Air Resources
North Carolina Department of Transportation
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, 1973, 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

CONTENTS

	Page
List of gaging stations, in downstream order, for which records are published.....	IV
Introduction.....	1
Hydrologic conditions.....	2
Cooperation.....	3
Definition of terms.....	4
Special networks and programs.....	5
Downstream order and station numbers.....	6
Explanation of surface-water data.....	6
Collection and computation of data.....	6
Accuracy of data.....	11
Publications.....	12
Other data available.....	13
Discharge records collected by other agencies.....	14
Selected references.....	14
Surface-water records.....	18
Discharge at partial-record stations and miscellaneous sites.....	189
Low-flow partial-record stations.....	189
Crest-stage partial-record stations.....	190
Discharge measurements at miscellaneous sites.....	193
Index.....	248

ILLUSTRATIONS

Figure 1. Map of eastern part of North Carolina showing location of gaging stations.....	16
2. Map of western part of North Carolina showing location of gaging stations.....	17

TABLES

Table 1. Factors for converting English units to International System (SI) units.....	15
---	----

IV

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

Page

SOUTH ATLANTIC SLOPE BASINSCHOWAN RIVER BASIN

Chowan River:

Meherrin River:

Potecasi Creek near Union..... 18

Wiccacon River:

Ahoskie Creek near Rich Square..... 19

Ahoskie Creek at Mintons Store..... 20

Ahoskie Creek at Ashoskie..... 21

Ahoskie Creek tributary at Poor Town..... 22

ROANOKE RIVER BASIN

Roanoke River:

Dan River near Francisco..... 23

Dan River near Wentworth..... 24

Smith River at Eden..... 25

Moon Creek near Yanceyville..... 26

Hyc Creek (head of Hyc River) near Leasburg..... 27

South Hyc Creek:

Double Creek near Roseville..... 28

South Hyc Creek near Roseville..... 29

Hyc River at McGehees Mill..... 31

Roanoke River at Roanoke Rapids..... 32

PAMLICO RIVER BASIN

Tar River (head of Pamlico River) near Tar River..... 33

Tar River at Louisburg..... 34

Cedar Creek near Louisburg..... 35

Tar River below Tar River Reservoir near Rocky Mount... 36

Tar River near Rocky Mount..... 38

Swift Creek at Hilliardston..... 39

Fishing Creek:

Little Fishing Creek near White Oak..... 40

Fishing Creek near Enfield..... 41

Tar River at Tarboro..... 42

Conetoe Creek near Bethel..... 43

Pamlico River:

Runyon Creek:

Herring Run near Washington..... 44

Durham Creek at Edward..... 45

NEUSE RIVER BASIN

Eno River (head of Neuse River) near Durham..... 46

Little River near Orange Factory..... 47

Flat River at Bahama..... 48

Neuse River near Northside..... 49

Neuse River near Falls..... 50

Neuse River near Clayton..... 51

Neuse River at Smithfield..... 52

Swift Creek:

Middle Creek near Clayton..... 53

Little River near Kenly..... 54

Little River near Princeton..... 55

SOUTH ATLANTIC SLOPE BASINS--ContinuedNEUSE RIVER BASIN--Continued

Neuse River near Goldsboro.....	56
Neuse River at Kinston.....	57
Contentnea Creek near Lucama.....	58
Turner Swamp near Eureka.....	59
Nahunta Swamp near Shine.....	60
Contentnea Creek at Hookerton.....	61
Little Contentnea Creek near Farmville.....	62
Swift Creek:	
Clayroot Swamp:	
Creeping Swamp near Calico.....	63
Creeping Swamp near Vanceboro.....	64
Swift Creek near Vanceboro.....	65
Palmetto Swamp near Vanceboro.....	66
Trent River near Trenton.....	67
NEW RIVER BASIN	
New River near Gum Branch.....	68
CAPE FEAR RIVER BASIN	
Haw River (head of Cape Fear River):	
Reedy Fork near Oak Ridge.....	69
Reedy Fork near Gibsonville.....	70
Buffalo Creek:	
North Buffalo Creek near Greensboro.....	71
Haw River at Haw River.....	72
Big Alamance Creek near Elon College.....	73
Cane Creek near Teer.....	74
Haw River near Pittsboro.....	75
New Hope Creek (head of New Hope River):	
Third Fork Creek at Durham.....	76
New Hope River near Pittsboro.....	77
Haw River near Haywood.....	78
West Fork Deep River:	
East Fork Deep River near High Point.....	79
Deep River near Randleman.....	80
Deep River at Ramseur.....	81
Rocky River:	
Tick Creek near Mount Vernon Springs.....	82
Deep River at Moncure.....	83
Cape Fear River:	
Buckhorn Creek near Corinth.....	84
Cape Fear River at Lillington.....	86
Little River:	
Flat River near Inverness.....	87
Cape Fear River at William O. Huske Lock near Tarheel..	88
Cape Fear River at Lock 1 near Kelly.....	89
Hood Creek near Leland.....	90
Great Coharie Creek (head of Black River):	
Little Coharie Creek near Roseboro.....	91
Black River near Tomahawk.....	92
South River near Parkersburg.....	90
Northeast Cape Fear River near Seven Springs.....	94

VI GAGING STATION RECORDS, IN DOWNSTREAM ORDER--Continued

	Page
SOUTH ATLANTIC SLOPE BASINS--Continued	
CAPE FEAR RIVER BASIN--Continued	
Cape Fear River:	
Northeast Cape Fear River near Chinquapin.....	95
Rockfish Creek near Wallace.....	96
WACCAMAW RIVER BASIN	
Waccamaw River at Freeland.....	97
PEE DEE RIVER BASIN	
Yadkin River (head of Pee Dee River) at Patterson.....	98
Elk Creek at Elkhville.....	99
Reddies River at North Wilkesboro.....	100
Yadkin River at Wilkesboro.....	101
Roaring River near Roaring River.....	102
Yadkin River at Elkin.....	103
Mitchell River near State Road.....	104
Fisher River near Copeland.....	105
Ararat River at Ararat.....	106
Little Yadkin River at Dalton.....	107
Yadkin River at Enon.....	108
Muddy Creek:	
Salem Creek near Atwood.....	109
Muddy Creek near Muddy Creek.....	110
South Fork Muddy Creek near Clemmons.....	111
Yadkin River at Yadkin College.....	112
Dutchmans Creek:	
Humpty Creek near Fork.....	113
South Yadkin River near Mocksville.....	114
Hunting Creek near Harmony.....	115
Pee Dee River:	
Rocky River:	
Long Creek:	
Big Bear Creek near Richfield.....	116
Rocky River near Norwood.....	117
Little River near Star.....	118
Pee Dee River near Rockingham.....	119
Little Pee Dee River:	
Drowning Creek (head of Lumber River) near Hoffman.	120
Lumber River at Boardman.....	121
SANTEE RIVER BASIN	
Catawba River (head of Santee River):	
Mill Creek at Old Fort.....	122
Catawba River near Marion.....	123
Linville River near Nebo.....	124
Hunting Creek:	
East Prong near Morganton.....	125
Lower Creek at Mulberry Street at Lenoir.....	126
Lower Little River near All Healing Springs.....	127
Long Creek near Paw Creek.....	128
Henry Fork (head of South Fork Catawba River) near	
Henry River.....	129
Jacob Fork at Ramsey.....	130

SOUTH ATLANTIC SLOPE BASINS--ContinuedSANTEE RIVER BASIN

Catawba River:

South Fork Catawba River:

Indian Creek near Laboratory..... 131

Long Creek near Bessemer City..... 132

Irwin Creek (head of Sugar Creek) near Charlotte..... 133

Little Sugar Creek:

Briar Creek at Sharon Road, Charlotte..... 134

Little Sugar Creek near Charlotte..... 135

McAlpine Creek at Sardis Road near Charlotte..... 136

McMullen Creek at Sharon View Road near Charlotte 137

Twelve Mile Creek near Waxhaw..... 138

Wataree River (continuation of Catawba River):

Broad River (head of Congaree River):

Cove Creek near Lake Lure..... 139

Green River near Saluda..... 140

Second Broad River at Cliffside..... 142

Broad River near Boiling Springs..... 143

First Broad River near Casar..... 144

Beaverdam Creek:

Sugar Branch near Boiling Springs..... 145

Lakes and reservoirs in South Atlantic slope basins.... 146

OHIO RIVER BASINKANAWHA RIVER BASIN

South Fork New River (head of Kanawha River) near

Jefferson..... 151

TENNESSEE RIVER BASIN

French Broad River (head of Tennessee River) at

Rosman..... 152

Davidson River near Brevard..... 153

Little River above High Falls near Cedar Mountain.. 154

French Broad River at Blantyre..... 155

South Fork Mills River at The Pink Beds..... 156

Mills River near Mills River..... 157

French Broad River at Bent Creek..... 158

Hominy Creek at Candler..... 159

Swannanoa River:

Beetree Creek near Swannanoa..... 160

Swannanoa River at Biltmore..... 161

French Broad River at Asheville..... 162

Ivy River near Marshall..... 163

French Broad River at Marshall..... 164

West Fork Pigeon River above Lake Logan, near

Hazelwood..... 165

West Fork Pigeon River below Lake Logan, near

Waynesville..... 166

East Fork Pigeon River near Canton..... 167

Pigeon River at Canton..... 168

VIII GAGING STATION RECORDS, IN DOWNSTREAM ORDER--Continued

	Page
<u>OHIO RIVER BASIN--Continued</u>	
<u>TENNESSEE RIVER BASIN--Continued</u>	
Pigeon River near Hepco.....	169
Cataloochee Creek near Cataloochee.....	170
North Toe River (head of Nolichucky River):	
South Toe River near Celo.....	171
South Fork Holston River:	
Watauga River near Sugar Grove.....	172
Tennessee River:	
Little Tennessee River near Prentiss.....	173
Cartoogechaye Creek near Franklin.....	174
Little Tennessee River at Needmore.....	175
Nantahala River near Rainbow Springs.....	176
Nantahala River at Nantahala.....	177
Tuckasegee River at Tuckasegee.....	178
Scott Creek above Sylva.....	179
Tuckasegee River at Dillsboro.....	180
Oconaluftee River at Birdtown.....	181
Tuckasegee River at Bryson City.....	182
Hiwassee River below Chatuge Dam, near Hayesville..	183
Hiwassee River above Murphy.....	184
Valley River at Tomotla.....	185
Lakes and reservoirs in Ohio River basin.....	186

WATER RESOURCES DATA FOR NORTH CAROLINA, 1973

PART 1. SURFACE-WATER RECORDS

INTRODUCTION

Surface-water records for the 1973 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 1973 water year was excessive (in the upper 25 percent of record) across the entire State. Runoff at the three index gaging stations, as compared with the normals, was as follows: Neuse River near Clayton, 179 percent; South Yadkin River near Mocksville, 162 percent; and French Broad River at Asheville, 160 percent.

During the period October through January, streamflow was generally above normal but no significant flooding occurred in the State. Minor flooding did occur, however, along the lower reaches of the Lumber River during this period. Heavy rains on February 1-2 caused widespread flooding on many streams in the Piedmont and southern Coastal Plain and especially in the cities of Raleigh, Chapel Hill, Durham, Lumberton, Winston-Salem, and Fayetteville. Above normal streamflow with insignificant flooding was also prevalent during the period March through early May. In western North Carolina on May 27-28, heavy rains caused severe flooding on many streams which resulted in the loss of 12 lives and damages to property and agriculture in excess of 25 million dollars. Heaviest damages were in the upper French Broad River basin and the counties of Buncombe, Henderson, and Transylvania. Record or near-record floods occurred on many of the upper tributaries of the French Broad and Pigeon Rivers.

Following the severe May floods which struck the western mountains, heavy rains in the eastern Piedmont on June 28-29 caused flash flooding in Wake, Durham, and several adjoining counties. Flood damages in the Raleigh-Durham area alone amounted to about 10 million dollars. Streamflow across the State remained above normal during the months of July and August, and intense storms caused localized flooding in the Piedmont during both months. Flash flooding in the upper Yadkin River basin on August 7 produced near-record stages on several of the upper tributary streams and caused damages in excess of a million dollars. Streamflow began to recede during late August and the recession generally continued through September. Flows at the end of the water year were normal in the mountains and western Piedmont and below normal in the eastern part of the State.

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:

North Carolina Office of Water and Air Resources,
George E. Pickett, director, succeeded by Earle C. Hubbard.

North Carolina Department 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 5 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

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 artificial 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 tributaries is indicated by indention, each indention 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 23 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
<i>Length</i>		
inches (in)	25.4	millimeters (mm)
	.0254	meters (m)
feet (ft)	.3048	meters (m)
yards (yd)	.9144	meters (m)
rods	5.0292	meters (m)
miles (mi)	1.609	kilometers (km)
<i>Area</i>		
acres	4047	square meters (m ²)
	.4047	*hectares (ha)
	.4047	square hectometer (hm ²)
	.004047	square kilometers (km ²)
square miles (mi ²)	2.590	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785	**liters (l)
	3.785	cubic decimeters (dm ³)
	3.785x10 ⁻³	cubic meters (m ³)
million gallons (10 ⁶ gal)	3785	cubic meters (m ³)
	3.785x10 ⁻³	cubic hectometers (hm ³)
cubic feet (ft ³)	28.32	cubic decimeters (dm ³)
	.02832	cubic meters (m ³)
cfs-day (ft ³ /s-day)	2447	cubic meters (m ³)
	2.447x10 ⁻³	cubic hectometers (hm ³)
acre-feet (acre-ft)	1233	cubic meters (m ³)
	1.233x10 ⁻³	cubic hectometers (hm ³)
	1.233x10 ⁻⁶	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	28.32	liters per second (l/s)
	28.32	cubic decimeters per second (dm ³ /s)
	.02832	cubic meters per second (m ³ /s)
gallons per minute (gpm)	.06309	liters per second (l/s)
	.06309	cubic decimeters per second (dm ³ /s)
	6.309x10 ⁻⁵	cubic meters per second (m ³ /s)
million gallons per day (mgd)	43.81	cubic decimeters per second (dm ³ /s)
	.04381	cubic meters per second (m ³ /s)
<i>Mass</i>		
ton (short)	.9072	tonne (t)

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

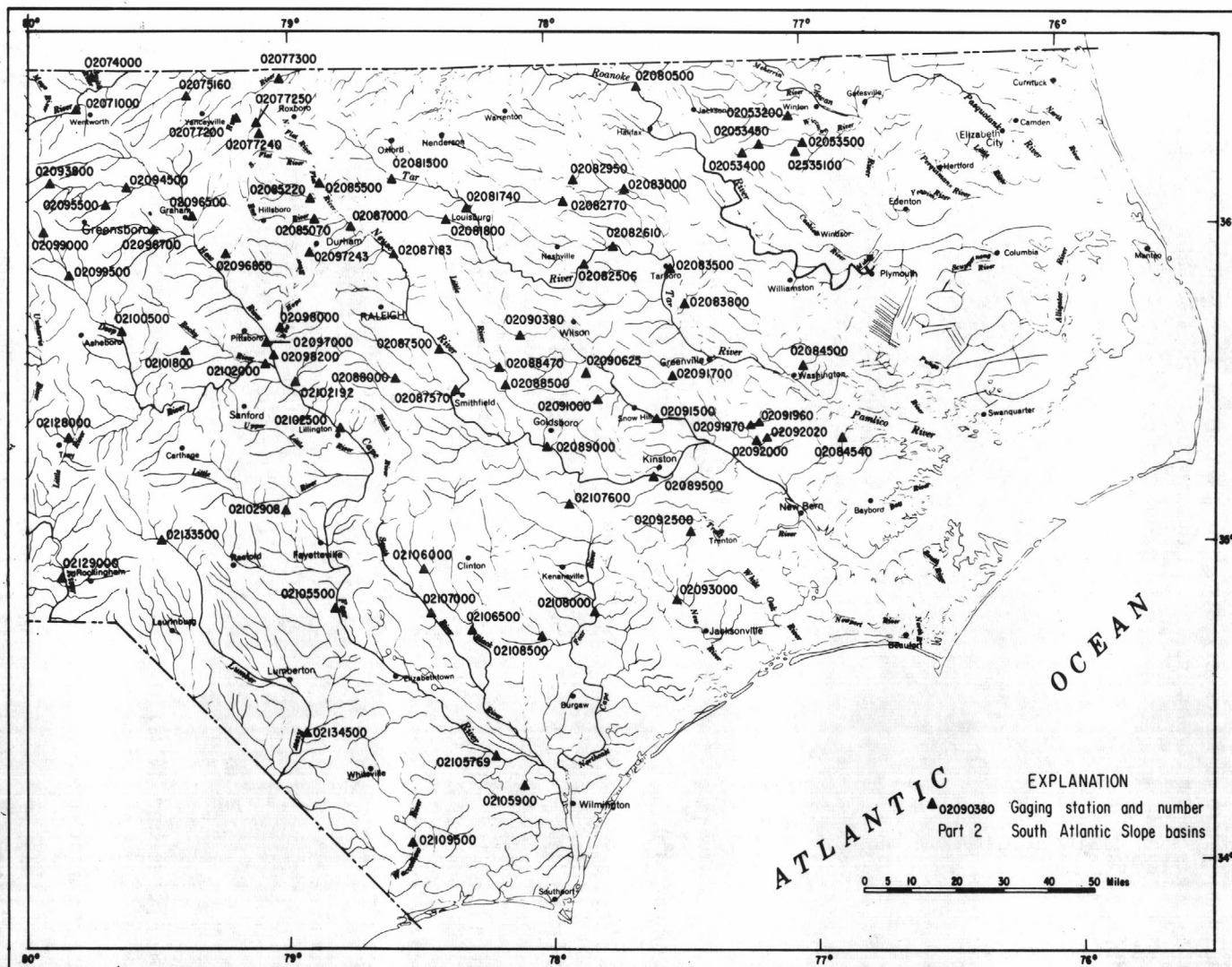


Figure 1. Map of eastern part of North Carolina showing location of gaging stations.

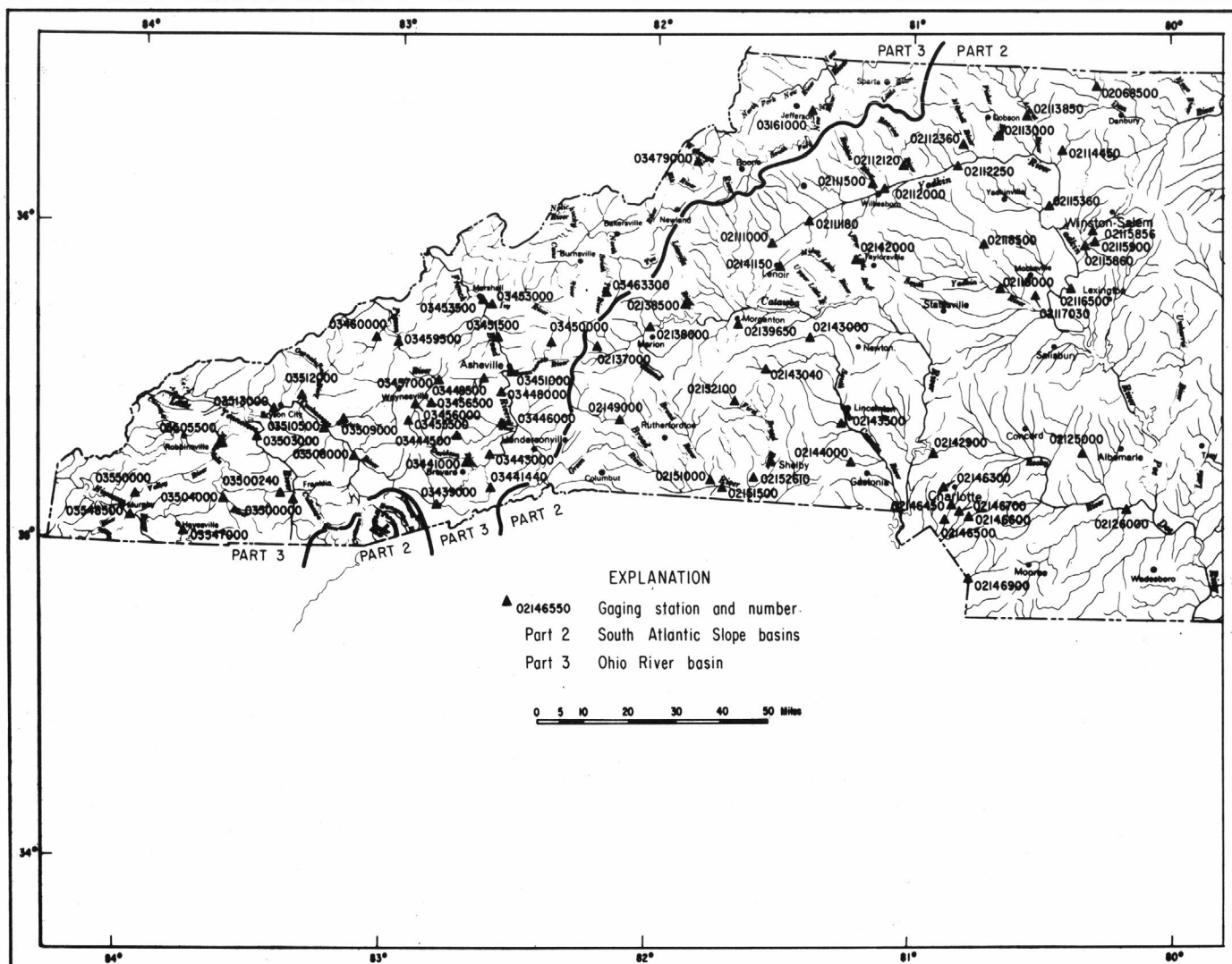


Figure 2. Map of western part of North Carolina showing location of gaging stations.

SURFACE WATER RECORDS
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 miles north of Union, 3 miles downstream from Cutawhiskie Swamp, and 3.5 miles upstream from Bells Branch.

DRAINAGE AREA.--191 sq mi.

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.--15 years, 236 cfs (16.78 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,050 cfs Aug 19 (gage height, 14.17 ft); minimum, 5.8 cfs Sept. 29 (gage height, 1.65 ft).

Period of record: Maximum discharge, 4,050 cfs May 10, 1958 (gage height, 19.12 ft); minimum, 0.2 cfs July 1, 1959.

Flood in 1929 reached a stage of 19.1 ft (discharge, 4,050 cfs), and flood of August 1940 reached a stage of 24.1 ft (discharge, 7,000 cfs from rating curve extended above 4,000 cfs), from information furnished by North Carolina State Highway Commission.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	24	262	324	737	647	834	246	336	1,110	169	20
2	24	22	260	304	810	525	1,280	209	302	1,210	206	16
3	18	22	232	257	1,280	498	1,450	169	200	1,120	233	45
4	14	22	202	227	1,360	724	1,410	161	156	904	521	32
5	15	23	176	217	1,240	793	1,300	161	104	732	449	22
6	196	23	157	203	1,180	712	1,110	122	68	992	269	41
7	483	23	143	185	1,050	672	881	97	47	1,070	297	69
8	302	46	128	168	862	638	939	84	34	922	365	178
9	160	255	121	164	674	582	1,180	87	26	728	303	178
10	121	264	119	184	538	505	1,080	98	21	520	202	109
11	97	158	115	170	436	424	982	78	16	316	128	61
12	78	119	107	180	368	367	882	64	14	204	135	36
13	61	128	100	181	325	349	741	54	13	128	86	24
14	51	143	119	171	314	315	584	46	12	79	49	23
15	44	173	274	176	472	283	430	42	11	54	32	28
16	37	190	861	225	575	265	320	36	9.9	62	24	27
17	31	180	996	309	487	248	252	32	9.7	45	18	22
18	26	236	912	329	434	227	208	34	9.6	36	601	19
19	24	236	910	331	401	198	175	31	10	29	1,960	17
20	24	345	854	420	362	169	151	33	14	27	1,920	15
21	24	602	718	448	319	156	132	59	11	26	1,640	14
22	22	547	626	419	277	195	119	58	17	24	1,290	13
23	20	546	690	519	238	274	107	51	78	24	982	11
24	08	599	706	517	207	256	95	159	137	36	667	10
25	20	584	681	434	180	258	88	327	178	40	392	9.4
26	21	513	647	366	163	299	107	399	381	98	198	8.6
27	21	448	611	326	245	321	171	309	416	200	110	8.0
28	22	360	566	333	646	328	368	276	338	188	73	7.0
29	26	290	490	619	-----	293	331	294	458	230	49	6.3
30	28	260	403	815	-----	265	271	370	974	197	34	6.6
31	26	-----	338	730	-----	307	-----	355	-----	151	25	-----
TOTAL	2,085	7,381	13,524	10,251	16,180	12,093	17,978	4,541	4,432.2	11,502	13,427	1,075.9
MEAN	67.3	246	436	331	578	390	599	146	148	371	433	35.9
MAX	483	602	996	815	1,360	793	1,450	399	974	1,210	1,960	178
MIN	14	22	100	164	163	156	88	31	9.6	24	18	6.3
CFSM	.35	1.29	2.28	1.73	3.03	2.04	3.14	.76	.77	1.94	2.27	.19
IN.	.41	1.44	2.63	2.00	3.15	2.36	3.50	.88	.86	2.24	2.62	.21

CAL YR 1972 TOTAL 82,144.6 MEAN 224 MAX 1,200 MIN 5.2 CFSM 1.17 IN 16.00
WTR YR 1973 TOTAL 114,470.1 MEAN 314 MAX 1,960 MIN 6.3 CFSM 1.64 IN 22.29

CHOWAN RIVER BASIN

19

02053400 Ahoskie Creek near Rich Square, N. C.

LOCATION.--Lat 36°14'52", long 77°14'12", Northampton County, on right bank 150 ft upstream from culvert on Secondary Road 1100, 1.8 miles downstream from Seaboard Coast Line Railroad bridge, and 3.5 miles southeast of Rich Square.

DRAINAGE AREA.--3.7 sq mi, approximately.

PERIOD OF RECORD.--June 1964 to September 1973 (discontinued).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 57.62 ft above mean sea level (Soil Conservation Service bench mark).

AVERAGE DISCHARGE.--9 years, 2.96 cfs (10.86 inches per year).

EXTREMES.--Current year: Maximum discharge, 34 cfs Apr. 1 (gage height, 5.41 ft); no flow Oct. 28 to Nov. 7 (result of regulation due to construction of control), Sept. 22-30.

Period of record: Maximum discharge, 294 cfs Oct. 5, 1964; maximum gage height, 8.61 ft Jan. 14, 1968; no flow for many days of most years.

REMARKS.--Records fair. Entire basin above station is canalized. Excavation was completed in July 1964. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	0	.10	2.7	7.2	12	28	.14	.02	.08	1.0	.01
2	.02	0	.07	2.0	16	9.3	22	.09	.02	.03	.19	.01
3	.01	0	.04	1.4	18	12	16	.08	.02	.02	.25	.01
4	.01	0	.03	1.5	13	16	14	1.7	.02	.02	2.8	.01
5	.01	0	.02	1.3	9.9	13	12	.30	.01	.02	.25	.01
6	.12	0	.03	1.2	8.1	11	8.1	.11	.01	.03	.08	.01
7	.12	0	.03	1.1	7.9	8.9	7.3	.08	.01	.02	.04	.01
8	.03	.53	.02	1.0	6.3	7.5	23	.05	.01	.01	.02	.01
9	.01	.11	.03	1.0	6.1	6.5	16	.06	.01	.01	.02	.01
10	.01	.02	.04	1.1	4.8	5.5	10	.05	.01	.01	.01	.01
11	.01	.02	.04	1.5	4.0	4.6	6.1	.03	.01	.01	.01	.01
12	.01	.01	.04	1.9	3.6	5.5	3.3	.03	.01	.01	.01	.01
13	.01	.01	.02	1.4	3.3	4.4	1.6	.02	.01	.01	.02	.01
14	.01	.02	.40	1.2	4.8	3.3	.75	.02	.01	.01	.08	.02
15	.01	.03	6.4	1.4	12	2.3	.42	.02	.01	.04	.05	.03
16	.01	.02	6.6	4.9	10	1.7	.32	.02	.01	.22	.04	.02
17	.01	.08	3.5	6.3	7.2	1.4	.23	.02	.02	.03	.03	.01
18	.01	.11	1.9	6.6	5.4	1.0	.19	.02	.25	.02	.66	.01
19	.02	.07	1.3	6.8	4.3	.70	.16	.02	.04	.01	1.0	.01
20	.02	2.0	1.1	7.5	4.2	.45	.12	.02	.02	.01	.16	.01
21	.01	.19	1.2	5.8	3.6	1.6	.09	.03	.02	.01	.05	.01
22	.01	.09	9.3	6.6	2.8	8.5	.09	.02	.13	.01	.02	0
23	.02	.05	9.1	8.9	2.0	6.8	.07	.02	1.0	.01	.02	0
24	.02	.03	7.5	7.0	1.6	4.3	.06	.02	.08	.01	.02	0
25	.03	.02	5.8	5.0	1.2	2.9	.07	.28	.03	.01	.01	0
26	.03	.07	4.6	3.9	2.3	3.8	.14	.11	.02	.01	.01	0
27	.02	.08	5.4	5.2	11	7.3	4.8	.08	.02	.01	.01	0
28	0	.05	4.3	7.0	15	5.6	6.0	.05	.02	.13	.01	0
29	0	.03	3.3	16	-----	3.8	1.4	.07	2.2	.80	.01	0
30	0	.05	2.5	12	-----	3.1	.32	.04	.38	.07	.01	0
31	0	-----	2.2	9.1	-----	13	-----	.02	-----	.03	.01	-----
TOTAL	.62	3.69	76.91	140.3	195.6	187.75	182.63	3.62	4.43	1.72	6.90	.25
MEAN	.020	.12	2.48	4.53	6.99	6.06	6.09	.12	.15	.056	.22	.008
MAX	.12	2.0	9.3	16	18	16	28	1.7	2.2	.80	2.8	.03
MIN	0	0	.02	1.0	1.2	.45	.06	.02	.01	.01	.01	0
CFSM	.005	.03	.67	1.22	1.89	1.64	1.65	.03	.04	.02	.06	.002
IN.	.006	.04	.77	1.41	1.97	1.89	1.84	.04	.04	.02	.07	.002

CAL YR 1972 TOTAL 1,302.79 MEAN 3.56 MAX 65 MIN 0 CFSM .96 IN 13.10
WTR YR 1973 TOTAL 804.42 MEAN 2.20 MAX 28 MIN 0 CFSM .59 IN 8.09

PEAK DISCHARGE (BASE, 70 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
4-1	0830	5.41	34				

CHOWAN RIVER BASIN

02053450 Ahoskie Creek at Mintons Store, N. C.

LOCATION.--Lat 36°16'46", long 77°09'28", Hertford County, on right bank at downstream side of bridge on State Highway 305, 1.5 miles southeast of Mintons Store, and 3 miles upstream from Fort Branch.

DRAINAGE AREA.--24 sq mi, approximately.

PERIOD OF RECORD.--February 1964 to September 1973 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft above mean sea level (Soil Conservation Service bench mark).

AVERAGE DISCHARGE.--9 years, 24.8 cfs (14.03 inches per year).

EXTREMES.--Current year: Maximum discharge, 586 cfs Feb. 2 (gage height, 10.96 ft); minimum, 0.90 cfs Oct. 11, 12, 16, 17; minimum gage height, 3.24 ft July 25, 26.

Period of record: Maximum discharge, 1,330 cfs Oct. 5, 1964; maximum gage height, 12.78 ft Jan. 14, 1968; minimum discharge, 0.39 cfs Aug. 11, 12, 1971.

No flow observed Aug. 16, 1961.

REMARKS.--Records fair. Entire basin above station is canalized. Excavation completed in February 1964. Recording rain gage located at gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	4.2	12	27	44	87	403	9.2	5.4	17	3.1	2.0
2	1.5	4.2	9.0	23	282	58	214	6.0	5.4	7.8	4.4	2.0
3	1.2	4.2	6.8	21	314	108	99	5.2	5.4	5.4	41	21
4	1.2	4.2	5.8	19	124	168	84	23	5.2	6.6	103	5.2
5	1.2	4.5	4.8	18	77	97	79	15	5.0	19	19	3.1
6	21	5.0	4.2	16	57	66	48	7.3	5.0	13	5.4	2.8
7	9.2	5.2	4.0	14	54	49	67	4.8	5.2	5.9	2.2	2.6
8	3.5	36	3.5	12	40	38	377	3.5	5.0	5.4	2.4	2.4
9	1.9	12	4.8	11	42	32	154	4.1	4.8	4.8	2.4	2.6
10	1.2	5.0	5.2	16	33	27	89	3.8	4.6	4.6	1.9	2.6
11	1.1	3.8	5.0	21	30	24	54	3.6	3.9	4.4	15	2.4
12	.90	2.8	4.1	26	28	31	34	3.4	2.8	4.1	21	2.0
13	1.1	2.2	4.4	21	24	25	23	3.2	2.4	3.7	7.1	1.4
14	1.2	4.2	40	19	51	19	19	3.7	2.6	2.8	4.8	2.0
15	1.4	3.8	227	21	150	16	16	4.4	2.2	11	5.2	2.2
16	1.2	2.2	192	52	84	13	14	4.6	1.7	21	5.0	2.0
17	1.1	11	70	60	50	12	13	5.0	1.7	9.2	5.2	1.7
18	1.2	9.2	39	60	32	10	11	5.6	2.4	6.8	166	1.7
19	1.5	8.0	28	58	25	8.1	9.2	5.4	2.4	4.6	119	1.5
20	1.7	66	23	62	22	7.3	7.1	7.8	1.3	3.7	28	1.5
21	1.5	26	21	40	19	13	5.9	5.6	4.4	3.1	12	1.5
22	1.4	14	114	55	16	44	5.2	7.6	29	3.3	6.6	1.5
23	1.5	8.5	110	77	14	33	4.4	8.3	64	4.6	5.4	1.5
24	2.3	6.8	86	49	12	21	3.9	22	9.2	2.8	4.6	1.5
25	3.5	6.0	57	32	10	14	4.8	25	2.8	2.4	4.1	1.5
26	2.8	13	40	24	34	22	8.3	12	2.0	2.6	3.5	1.5
27	2.5	10	48	31	174	46	86	8.3	3.5	2.8	3.1	1.5
28	4.0	7.5	35	67	168	33	73	7.1	5.9	20	2.9	1.5
29	4.2	6.5	25	240	-----	21	31	13	185	36	2.7	1.5
30	3.0	7.8	20	102	-----	17	15	8.1	67	12	2.4	1.5
31	3.8	-----	21	62	-----	122	-----	6.1	-----	4.6	2.2	-----
TOTAL	87.10	303.8	1,269.6	1,356	2,010	1,281.4	2,051.8	254.7	447.2	255.0	610.6	79.7
MEAN	2.81	10.1	41.0	43.7	71.8	41.3	68.4	8.22	14.9	8.23	19.7	2.66
MAX	21	66	227	240	314	168	403	25	185	36	166	21
MIN	.90	2.2	3.5	11	10	7.3	3.9	3.2	1.3	2.4	1.9	1.4
CFSM	.12	.42	1.71	1.82	2.99	1.72	2.85	.34	.62	.34	.82	.11
IN.	.14	.47	1.97	2.10	3.12	1.99	3.18	.39	.69	.40	.95	.12

CAL YR 1972 TOTAL 7,267.30 MEAN 19.9 MAX 229 MIN .90 CFSM .83 IN 11.26
WTR YR 1973 TOTAL 10,006.90 MEAN 27.4 MAX 403 MIN .90 CFSM 1.14 IN 15.51

PEAK DISCHARGE (BASE, 550 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 2	1900	10.96	586				

CHOWAN RIVER BASIN

21

02053500 Ahoskie Creek at Ahoskie, N. C.

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

DRAINAGE AREA.--57 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--23 years, 65.7 cfs (15.65 inches per year).

EXTREMES.--Current year: Maximum discharge, 928 cfs Feb. 2 (gage height, 9.63 ft); minimum daily, 5.9 cfs July 27.

Period of record: Maximum discharge, 2,580 cfs Oct. 5, 1964 (gage height, 10.72 ft); no flow at times during most years prior to canalization; minimum since canalization, 1.8 cfs June 17, 1967.

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

REMARKS.--Records good. 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	8.7	53	74	100	240	702	30	17	54	9.7	8.1
2	7.5	8.7	46	67	422	148	652	23	14	26	8.2	8.4
3	7.2	8.7	37	55	822	216	288	21	13	17	140	73
4	7.2	8.7	33	52	589	498	177	36	12	12	521	34
5	7.2	8.7	28	50	238	271	196	37	11	27	146	17
6	186	8.7	26	44	156	171	120	26	10	32	66	12
7	69	8.7	25	39	131	126	106	20	10	17	34	11
8	34	8.4	23	37	104	100	670	18	9.7	11	21	9.1
9	22	54	26	37	96	85	527	20	8.5	9.3	16	8.4
10	17	28	28	41	86	75	233	18	7.9	8.5	14	8.4
11	15	21	27	46	78	67	133	15	7.6	7.6	20	8.1
12	14	17	24	53	75	72	88	13	7.3	7.6	71	7.5
13	13	15	24	50	67	67	67	12	7.6	7.0	47	7.2
14	12	17	26	46	91	54	52	12	7.6	6.5	25	9.1
15	11	20	310	52	343	46	41	15	6.8	33	17	8.4
16	10	17	601	97	209	41	36	13	6.8	58	15	7.8
17	9.7	32	246	126	123	36	31	13	7.0	19	13	7.8
18	10	48	134	124	86	32	28	13	7.3	12	251	7.8
19	10	39	104	115	70	29	24	12	7.3	9.3	466	7.5
20	12	242	86	136	62	26	22	13	7.3	7.9	144	7.5
21	9.7	134	74	97	55	31	20	14	8.2	7.0	67	7.2
22	9.1	78	174	106	50	30	18	12	12	12	37	7.2
23	8.7	57	191	173	45	81	17	15	65	26	25	6.9
24	9.1	45	175	115	39	58	16	82	27	9.7	19	6.9
25	9.7	39	121	83	36	46	16	79	15	7.3	15	6.6
26	9.4	55	92	67	41	45	18	47	11	6.5	14	6.6
27	8.7	55	103	71	326	79	94	31	12	5.9	12	6.4
28	11	43	83	106	504	75	123	25	34	62	11	6.4
29	11	36	65	479	-----	55	67	56	186	66	10	6.1
30	9.7	36	55	234	-----	46	41	32	171	25	9.1	6.1
31	9.7	-----	54	135	-----	331	-----	22	-----	12	8.7	-----
TOTAL	588.0	1,274.9	3,154	3,007	5,044	3,327	4,623	795	726.9	621.1	2,272.7	334.5
MEAN	19.0	42.5	102	97.0	180	107	154	25.6	24.2	20.0	73.3	11.2
MAX	186	242	601	479	822	498	702	82	186	66	521	73
MIN	7.2	8.7	23	37	36	26	16	12	6.8	5.9	8.2	6.1
CFSM	.33	.75	1.79	1.70	3.16	1.88	2.70	.45	.42	.35	1.29	.20
IN.	.38	.83	2.06	1.96	3.29	2.17	3.02	.52	.47	.41	1.48	.22

CAL YR 1972 TOTAL 24,696.3 MEAN 67.5 MAX 781 MIN 6.4 CFSM 1.18 IN 16.12
WTR YR 1973 TOTAL 25,768.1 MEAN 70.6 MAX 822 MIN 5.9 CFSM 1.24 IN 16.82

PEAK DISCHARGE (BASE, 720 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 2	1900	9.63	928	4- 8	1100	8.31	750
4- 1	2000	8.36	757				

CHOWAN RIVER BASIN

02053510 Ahoskie Creek tributary at Poor Town, N. C.

LOCATION.--Lat 36°16'29", long 77°00'38", Hertford County, on left bank 12 ft upstream from culvert on Secondary Road 1105, 1 mile southeast of Poor Town, and 1 mile upstream from mouth.

DRAINAGE AREA.--2.6 sq mi, approximately.

PERIOD OF RECORD.--October 1963 to September 1973 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 30.86 ft above mean sea level (Soil Conservation Service bench mark).

AVERAGE DISCHARGE.--10 years, 1.92 cfs (10.03 inches per year).

EXTREMES.--Current year: Maximum discharge, 234 cfs Feb. 2 (gage height, 8.11 ft); minimum, 0.14 cfs Oct. 10, 11, 12, June 20; minimum gage height, 1.55 ft Sept. 13, 14, 16-30.

Period of record: Maximum discharge, 286 cfs June 17, 1972 (gage height, 9.41 ft); no flow for part of each day Oct. 6, 11, 12, 1966, Nov. 3, 1967, result of temporary diversion.
No flow observed Aug. 16, 1961.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Entire channel above and below station canalized and improved in December 1962. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.40	.25	1.8	3.5	1.6	5.4	33	.38	.90	.34	.28	.21
2	.30	.22	1.2	1.4	69	3.2	9.4	.33	.72	.31	.21	.37
3	.20	.22	1.0	1.2	20	19	4.2	.50	.60	.28	29	.92
4	.16	.22	.88	1.1	6.8	18	4.5	1.1	.52	.31	7.5	.18
5	.15	.22	.70	1.0	4.2	7.2	3.7	.90	.46	.32	.97	.18
6	20	.22	.70	.96	3.2	4.5	1.9	.60	.42	.45	.41	.16
7	1.5	.22	.63	.95	3.2	3.4	5.1	.40	.39	.28	.24	.16
8	.30	7.3	.56	.94	2.1	2.4	31	.37	.36	.28	.24	.16
9	.20	2.0	1.2	.94	2.3	2.0	7.0	.33	.33	.28	.21	.18
10	.14	.95	1.0	1.0	1.8	1.7	3.5	.30	.31	.28	.24	.18
11	.14	.56	.88	1.1	2.1	1.5	2.1	.28	.30	.28	2.7	.18
12	.14	.43	.63	1.3	1.7	2.1	1.4	.26	.28	.28	2.6	.18
13	.16	.38	.95	1.2	1.6	1.5	1.1	.25	.26	.28	.97	.18
14	.19	.88	6.0	1.1	7.0	1.1	.88	.24	.25	.28	.34	.28
15	.19	.63	29	1.0	13	.88	.70	.24	.23	.80	.34	.21
16	.19	.43	11	4.5	5.3	.78	.56	.24	.22	1.3	.65	.18
17	.19	2.2	4.0	3.7	3.1	.78	.50	.24	.21	.41	.31	.18
18	.16	1.8	2.4	2.5	2.3	.63	.50	.24	.21	.31	10	.18
19	.31	1.7	1.9	1.9	1.9	.50	.43	.23	.25	.24	2.2	.18
20	.19	15	1.7	1.9	1.5	.43	.43	.23	.14	.24	.65	.18
21	.19	3.9	1.9	1.0	1.2	1.2	.38	.23	.25	.24	.37	.18
22	.19	1.9	6.8	3.4	1.2	2.8	.38	.23	.38	1.6	.34	.18
23	.16	1.4	4.4	3.9	1.1	1.5	.38	.23	.25	1.7	.28	.18
24	.31	1.1	3.1	1.8	.88	.95	.38	2.5	.19	.37	.24	.18
25	.22	1.1	2.3	1.2	.78	.78	.50	1.4	.16	.28	.24	.18
26	.22	2.5	1.9	1.0	2.7	1.2	.43	.90	.16	.28	.24	.18
27	.22	1.8	2.5	1.8	23	1.8	5.1	.70	1.2	.24	.24	.18
28	.59	1.2	1.9	4.2	13	1.1	2.1	.62	.88	4.6	.24	.18
29	.28	.95	1.4	13	-----	.78	.88	1.5	3.7	1.6	.24	.18
30	.28	1.3	1.2	3.5	-----	.70	.50	1.2	.61	.37	.24	.20
31	.25	-----	2.0	2.0	-----	7.2	-----	1.0	-----	.28	.21	-----
TOTAL	28.12	52.98	97.53	69.99	197.56	97.01	122.93	18.17	15.14	19.11	62.94	6.45
MEAN	.91	1.77	3.15	2.26	7.06	3.13	4.10	.59	.50	.62	2.03	.22
MAX	.20	.15	.29	.13	.69	.19	.33	2.5	3.7	4.6	.29	.92
MIN	.14	.22	.56	.94	.78	.43	.38	.23	.14	.24	.21	.16
CFSM	.35	.68	1.21	.87	2.72	1.20	1.58	.23	.19	.24	.78	.08
IN.	.40	.76	1.40	1.00	2.83	1.39	1.76	.26	.22	.27	.90	.09

CAL YR 1972 TOTAL 845.03 MEAN 2.31 MAX 64 MIN .14 CFSM .89 IN 12.09

WTR YR 1973 TOTAL 787.93 MEAN 2.16 MAX 69 MIN .14 CFSM .83 IN 11.27

PEAK DISCHARGE (BASE, 120 CFS)

NOTE.--No gage height record May 15 to June 18.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 2	1630	8.11	234	8- 3	2030	6.69	160

ROANOKE RIVER BASIN

23

02068500 Dan River near Francisco, N. C.

LOCATION.--Lat 36°30'53", long 80°18'11", Stokes County, on left bank 200 ft upstream from bridge on State Highway 704, 700 ft downstream from Georges Mill, 0.2 mile downstream from Elk Creek, 3 miles east of Francisco, and 7.9 miles downstream from Little Dan River.

DRAINAGE AREA.--124 sq mi.

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 (from topographic map). Prior to Nov. 15, 1929, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--49 years, 187 cfs (20.48 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 3,730 cfs Feb. 2 (gage height, 6.23 ft); minimum, 70 cfs Oct. 18, 19, 23, 26, 27, Sept. 29, 30; minimum gage height, 1.31 ft Oct. 18, 19, 23, 26, 27; minimum daily, 83 cfs Sept. 21.

Period of record: Maximum discharge, 12,400 cfs Oct. 19, 1937 (gage height, 12.45 ft); minimum, 7.1 cfs Sept. 8, 1932 (gage height, 0.43 ft); minimum daily, 28 cfs Aug. 17, 18, 1963, Sept. 12, 1966.

Flood in 1916 reached a stage of about 15 ft, from information by local residents (discharge, 16,000 cfs).

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 miles above station, were completed in 1938 (see p. 146).

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	216	133	252	276	296	262	643	330	415	205	281	147
2	162	123	199	273	2,200	245	526	322	291	242	316	156
3	141	103	165	280	861	342	490	346	262	240	361	127
4	127	120	179	318	589	295	531	322	269	347	255	133
5	181	90	207	284	520	338	485	295	273	275	416	132
6	167	95	481	269	483	342	456	276	338	244	233	137
7	120	121	428	252	462	330	466	269	273	203	213	129
8	132	227	321	252	474	342	552	371	230	203	207	145
9	118	154	269	259	455	322	471	384	245	242	212	106
10	132	142	228	256	439	303	505	314	233	219	199	113
11	126	125	249	249	427	295	393	299	206	262	200	113
12	122	99	262	233	382	303	358	287	241	163	420	128
13	121	101	237	219	311	310	303	276	237	153	250	95
14	121	1,190	237	225	325	291	295	284	221	201	231	225
15	86	444	657	200	363	287	306	280	196	296	325	176
16	116	323	437	202	346	334	310	280	231	243	183	108
17	153	241	317	178	303	853	306	287	272	269	163	102
18	125	194	288	170	276	447	330	276	391	210	169	99
19	136	223	288	208	310	384	338	276	316	184	172	92
20	166	481	277	202	284	371	314	242	308	200	129	102
21	124	320	375	180	266	388	310	225	310	200	128	83
22	95	290	1,040	478	273	452	276	249	549	198	171	97
23	89	233	510	382	269	433	239	262	542	174	162	102
24	113	206	388	304	242	388	287	306	505	158	126	102
25	111	224	363	275	242	346	314	276	221	196	136	99
26	104	396	334	270	262	701	371	228	252	252	120	88
27	103	276	303	395	287	510	601	228	255	315	137	104
28	171	260	280	300	284	471	433	1,100	320	251	180	90
29	113	232	276	287	-----	367	371	613	408	193	186	106
30	112	244	276	301	-----	371	342	485	254	146	183	87
31	129	-----	299	286	-----	452	-----	447	-----	203	162	-----
TOTAL	4,032	7,410	10,422	8,263	12,231	11,875	11,922	10,435	9,064	6,887	6,626	3,523
MEAN	130	247	336	267	437	383	397	337	302	222	214	117
MAX	216	1,190	1,040	478	2,200	853	643	1,100	549	347	420	225
MIN	86	90	165	170	242	245	239	225	196	146	120	83
(+)	+10	-3	+3	+2	-8	+5	+3	+4	-6	-5	-11	+12

CAL YR 1972 TOTAL 92,920 MEAN 254 MAX 4,690 MIN 75 MEAN± 254 CFSM± 2.05 IN.± 27.90
WTR YR 1973 TOTAL 102,690 MEAN 281 MAX 2,200 MIN 83 MEAN± 282 CFSM± 2.27 IN.± 30.81

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0800	5.58	3,030	5-28	1230	4.61	2,080
2- 2	0830	6.23	3,730	6-23	2330	5.61	3,070

† 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 downstream from Settles Bridge on Secondary Road 2150, 3.5 miles northwest of Wentworth, 7.5 miles downstream from Mayo River, and 103.7 miles upstream from mouth.

DRAINAGE AREA.--1,050 sq mi, 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 above mean sea level. Prior to Aug. 3, 1949, water-stage recorder at site 150 ft upstream at same datum.

AVERAGE DISCHARGE.--34 years, 1,193 cfs (15.43 inches per year).

EXTREMES.--Current year: Maximum discharge, 18,100 cfs Feb. 3 (gage height, 20.38 ft); minimum, 548 cfs Sept. 26; minimum gage height, 1.97 ft Oct. 19, Sept. 26; minimum daily, 564 cfs Sept. 27.

Period of record: Maximum discharge, 54,200 cfs June 22, 1972 (gage height, 31.60 ft from high-water mark in well); minimum, 65 cfs Oct. 8, 1954 (gage height, 0.93 ft); minimum daily, 107 cfs Oct. 2, 1954.

Flood in 1908 reached a stage of 34.9 ft, from information by North Carolina State Highway Commission, and flood in 1937 reached a stage of 29.8 ft, 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. 146).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,330	854	1,700	1,520	1,600	1,300	5,640	2,170	1,730	1,090	1,010	632
2	1,440	826	1,440	1,360	9,190	1,240	4,270	2,040	1,520	1,170	1,710	607
3	1,040	802	1,270	1,320	14,100	2,220	2,890	2,090	1,340	1,180	1,460	619
4	918	780	1,170	2,060	3,890	4,170	2,520	2,570	1,250	1,210	1,470	638
5	840	781	1,140	2,010	2,800	4,240	2,550	2,010	1,200	1,670	2,860	737
6	1,050	728	1,250	1,650	2,310	3,660	2,190	1,780	1,230	1,330	2,750	662
7	930	712	2,610	1,460	2,150	2,550	2,130	1,730	1,590	1,160	1,520	609
8	788	1,700	1,790	1,390	1,980	2,690	4,000	1,930	1,280	1,060	1,220	599
9	746	1,710	1,600	1,360	2,070	3,740	3,050	3,420	1,150	1,010	1,090	600
10	685	1,110	1,520	1,260	1,830	2,440	3,440	2,340	1,150	987	1,040	610
11	691	977	1,410	1,260	1,690	2,070	2,830	1,990	1,090	1,150	989	691
12	694	904	1,370	1,220	1,580	2,270	2,270	1,820	1,040	1,170	997	642
13	690	840	1,340	1,060	1,520	1,960	2,070	1,750	1,080	955	1,530	606
14	689	8,070	1,330	1,080	1,510	1,770	1,870	1,560	1,110	818	1,350	639
15	677	6,070	4,870	1,270	2,770	1,660	1,770	1,500	1,070	1,230	1,440	1,380
16	630	2,330	7,410	1,220	2,170	1,840	1,730	1,430	1,230	1,870	1,210	852
17	677	1,780	2,800	1,160	1,750	7,300	1,680	1,380	1,160	1,500	922	690
18	719	1,490	1,940	1,120	1,510	4,910	1,670	1,370	2,240	1,290	1,000	650
19	743	1,360	1,690	1,140	1,490	2,690	1,670	1,300	1,710	1,090	1,310	624
20	876	5,250	1,550	1,330	1,490	2,180	1,650	1,290	1,360	970	990	589
21	780	2,800	1,610	1,200	1,410	2,070	1,600	1,230	1,260	952	848	591
22	718	1,910	8,830	2,990	1,350	2,580	1,550	1,180	1,830	926	847	569
23	677	1,580	4,510	4,620	1,320	2,500	1,490	1,200	2,000	1,000	864	575
24	674	1,330	2,890	2,380	1,280	2,130	1,460	1,330	2,160	957	817	584
25	784	1,290	2,240	1,820	1,220	1,930	1,540	2,250	1,670	832	746	570
26	779	3,430	1,960	1,600	1,220	3,970	1,770	1,490	1,180	844	735	565
27	701	2,690	1,750	2,300	1,310	4,210	5,250	1,350	1,150	981	702	564
28	1,170	1,780	1,560	2,810	1,460	2,800	4,970	5,200	1,130	1,090	697	596
29	1,380	1,510	1,440	2,750	-----	2,330	2,760	4,720	2,170	926	699	575
30	935	1,420	1,370	2,050	-----	2,340	2,380	2,460	1,720	794	681	582
31	829	-----	1,450	1,750	-----	2,730	-----	1,970	-----	708	666	-----
TOTAL	28,280	58,814	70,810	53,520	69,970	86,490	76,660	61,850	42,800	33,920	36,170	19,447
MEAN	912	1,960	2,284	1,726	2,499	2,790	2,555	1,995	1,427	1,094	1,167	648
MAX	3,330	8,070	8,830	4,620	14,100	7,300	5,640	5,200	2,240	1,870	2,860	1,380
MIN	630	712	1,140	1,060	1,220	1,240	1,460	1,180	1,040	708	666	564
CFSM	.87	1.87	2.18	1.64	2.38	2.66	2.43	1.90	1.36	1.04	1.11	.62
IN.	1.00	2.08	2.51	1.90	2.48	3.06	2.72	2.19	1.52	1.20	1.28	.69

CAL YR 1972 TOTAL 691,412 MEAN 1,889 MAX 47,800 MIN 508 CFSM 1.80 IN 24.50
WTR YR 1973 TOTAL 638,731 MEAN 1,750 MAX 14,100 MIN 564 CFSM 1.67 IN 22.63

PEAK DISCHARGE (BASE, 12,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	2230	17.41	13,600	2-3	0600	20.38	18,100

ROANOKE RIVER BASIN

25

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 mile downstream from bridge on State Highway 14, 0.8 mile upstream from bridge on Secondary Road 1714, 1.2 miles south of Virginia-North Carolina State line, 1.3 miles downstream from Stuart Creek, and 3.9 miles upstream from mouth.

DRAINAGE AREA.--538 sq mi.

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 above mean sea level.

AVERAGE DISCHARGE.--34 years, 605 cfs (15.27 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 11,100 cfs Feb. 2 (gage height, 10.54 ft); minimum, 130 cfs Oct. 15 (gage height, 1.66 ft); minimum daily, 217 cfs Oct. 15.

Period of record: Maximum discharge, 45,600 cfs Aug. 15, 1940 (gage height, 19.28 ft), from rating curve extended above 12,000 cfs on basis of computation of peak flow over dam 1.5 miles downstream; minimum, 38 cfs Aug. 7, 1967; minimum daily, 46 cfs Aug. 14, 1967.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Flow regulated since August 1950 by Philpott Lake 40 miles upstream (usable capacity, 6,325,000,000 cu ft). Some additional regulation by hydroelectric plant at Martinsville, Va. 18 miles upstream. Water quality records for the current year are published in Part 2 of this report.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	788	449	1,030	505	1,100	1,070	1,280	1,280	1,870	443	700	501
2	431	539	920	998	6,520	1,060	1,130	1,240	1,410	452	1,200	232
3	852	528	373	989	2,610	1,470	2,030	1,330	479	840	1,000	226
4	843	447	424	1,250	2,140	1,150	2,170	1,380	488	876	500	558
5	918	307	688	1,160	1,990	1,970	2,090	1,230	1,070	942	300	558
6	941	335	876	1,060	1,370	1,470	1,990	1,150	1,120	841	350	476
7	899	783	1,060	406	1,310	1,400	1,500	1,190	1,190	800	500	478
8	336	1,610	753	479	1,300	1,120	1,230	1,350	1,060	385	550	471
9	302	1,010	766	1,000	1,220	1,410	954	1,640	1,090	338	550	225
10	684	870	418	977	1,180	1,300	2,080	1,300	467	602	550	292
11	702	820	418	992	1,140	624	1,500	1,250	452	826	450	460
12	693	335	1,020	980	1,120	636	2,030	1,180	950	651	300	450
13	700	345	983	932	1,110	856	1,990	517	943	617	750	446
14	707	4,380	1,070	298	1,230	835	1,450	474	1,020	622	850	597
15	217	1,840	2,190	451	1,540	835	578	1,050	988	541	950	788
16	324	1,280	1,850	982	1,350	856	570	1,100	1,080	602	950	279
17	460	1,140	691	1,010	1,210	2,390	1,180	1,100	497	698	900	275
18	420	1,050	553	961	1,140	1,080	1,130	1,100	596	667	700	461
19	455	460	1,080	1,030	1,140	765	1,140	1,090	859	675	350	449
20	510	2,080	1,040	1,010	1,120	1,190	1,180	467	840	628	450	443
21	440	1,370	1,130	362	1,120	1,260	1,100	460	839	621	500	443
22	268	1,180	3,770	1,840	1,110	1,420	518	826	954	347	520	473
23	285	1,090	1,610	1,510	1,090	1,380	514	763	905	540	550	223
24	396	1,010	755	993	1,050	1,240	1,130	941	778	762	550	224
25	558	1,010	645	856	374	1,200	1,110	978	508	747	450	425
26	427	1,090	1,150	788	492	2,660	1,340	855	1,010	738	300	423
27	422	783	1,080	1,060	1,090	2,320	3,820	505	1,020	815	450	443
28	894	1,030	1,040	838	1,120	2,100	2,070	1,610	1,210	850	550	446
29	654	958	1,010	938	-----	1,960	1,700	1,180	1,670	400	550	442
30	400	986	972	1,230	-----	2,020	1,490	1,840	1,110	350	550	223
31	522	-----	425	1,150	-----	1,680	-----	1,880	-----	400	500	-----
TOTAL	17,448	31,115	31,790	29,035	40,286	42,727	43,994	34,256	28,473	19,616	18,320	12,430
MEAN	563	1,037	1,025	937	1,439	1,378	1,466	1,105	949	633	591	414
MAX	941	4,380	3,770	1,840	6,520	2,660	3,820	1,880	1,870	942	1,200	788
MIN	217	307	373	298	374	624	514	460	452	338	300	223
(+)	-53	+21	+56	-28	-28	+66	+47	-19	-52	-13	-60	-27
CAL YR 1972	TOTAL 345,826		MEAN 945	MAX 16,700	MIN 217	MEAN 954	CFSM 954	1.77	IN 24.14			
WTR YR 1973	TOTAL 349,490		MEAN 958	MAX 6,520	MIN 217	MEAN 951	CFSM 951	1.77	IN 24.00			

† 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 July 28 to Aug. 30.

ROANOKE RIVER BASIN

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 mile downstream from East Prong, and 5.5 miles northwest of Yanceyville.

DRAINAGE AREA.--29.9 sq mi.

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

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

AVERAGE DISCHARGE.--12 years, 24.3 cfs (11.04 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,360 cfs Feb. 2 (gage height, 9.70 ft); minimum, 6.5 cfs Sept. 4; minimum gage height, 1.54 ft July 30, 31, Sept. 4.

Period of record: Maximum discharge, 4,010 cfs June 21, 1972 (gage height, 13.81 ft), result of dam failure; no flow for part of July 25, 1966 (result of temporary diversion); minimum unregulated, 0.18 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	27	64	46	32	85	261	29	18	14	9.7	7.2
2	28	28	42	34	647	144	150	26	18	14	13	7.2
3	20	26	33	29	296	66	56	30	17	14	113	6.8
4	17	25	29	31	92	47	42	38	16	15	41	35
5	225	23	27	28	52	42	35	26	16	14	18	87
6	314	21	29	26	45	35	30	23	15	13	41	18
7	103	21	27	26	41	35	36	22	15	13	40	17
8	45	102	25	23	40	43	197	26	16	12	30	9.5
9	29	63	30	22	41	108	87	45	15	12	20	8.5
10	23	35	31	25	34	53	52	30	15	13	16	8.8
11	21	29	27	29	31	37	39	24	15	15	12	8.9
12	20	26	80	28	30	33	33	21	15	14	10	8.4
13	20	24	48	26	29	45	30	20	15	12	14	7.5
14	20	63	40	28	34	84	28	19	15	11	10	14
15	18	66	35	30	45	63	27	20	14	11	8.0	15
16	19	36	32	34	39	43	26	19	32	11	7.0	11
17	19	41	176	32	31	39	26	19	24	15	6.9	9.1
18	19	39	165	31	29	83	26	20	25	17	339	8.7
19	22	54	69	31	29	50	26	19	21	13	92	7.8
20	24	313	43	31	30	40	25	19	18	12	22	7.5
21	21	109	35	28	29	46	24	18	18	11	18	7.3
22	20	47	32	48	28	90	23	18	17	10	15	7.4
23	20	34	29	62	26	60	23	18	19	11	12	7.3
24	20	29	27	41	47	50	22	23	17	12	11	7.4
25	20	45	25	32	77	40	24	26	16	12	10	8.0
26	21	234	29	31	73	40	26	21	14	11	9.4	7.5
27	20	103	33	48	88	80	184	20	16	11	8.6	7.5
28	64	45	29	89	53	44	112	45	17	11	8.4	7.9
29	56	33	26	175	-----	35	42	37	18	11	7.8	7.6
30	31	43	79	62	-----	39	32	23	16	9.5	7.4	7.3
31	26	-----	92	38	-----	72	-----	20	-----	9.3	7.3	-----
TOTAL	1,413	1,784	1,488	1,244	2,068	1,771	1,744	764	523	383.8	977.5	378.1
MEAN	45.6	59.5	48.0	40.1	73.9	57.1	58.1	24.6	17.4	12.4	31.5	12.6
MAX	314	313	176	175	647	144	261	45	32	17	339	87
MIN	17	21	25	22	26	33	22	18	14	9.3	6.9	6.8
CFSM	1.53	1.99	1.61	1.34	2.47	1.91	1.94	.82	.58	.41	1.05	.42
IN.	1.76	2.22	1.85	1.55	2.57	2.20	2.17	.95	.65	.48	1.22	.47

CAL YR 1972 TOTAL 14,523.0 MEAN 39.7 MAX 1,950 MIN 4.3 CFSM 1.33 IN 18.07
WTR YR 1973 TOTAL 14,538.4 MEAN 39.8 MAX 647 MIN 6.8 CFSM 1.33 IN 18.09

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 6	0030	8.35	670	2- 2	1730	9.70	1,360
11-20	1100	7.47	418	8-18	1630	8.04	572

ROANOKE RIVER BASIN

27

02077200 Hyco Creek near Leasburg, N. C.

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

DRAINAGE AREA.--44.0 sq mi.

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 above mean sea level.

AVERAGE DISCHARGE.--9 years, 39.2 cfs (12.10 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,880 cfs Dec. 15 (gage height, 36.47 ft); minimum, 0.88 cfs Sept. 30 (gage height, 24.78 ft).

Period of record: Maximum discharge, 2,880 cfs Dec. 15, 1972 (gage height, 36.47 ft); no flow at times, most years.

REMARKS.--Records good except those for period of no gage-height record, which are fair. 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	106	22	160	98	66	61	569	47	28	26	4.3	6.4
2	26	27	91	65	776	49	390	40	23	27	12	6.0
3	16	24	68	54	622	137	143	38	19	19	66	5.4
4	14	22	58	193	170	244	94	64	16	32	35	5.0
5	600	20	52	130	104	199	70	40	14	19	13	4.5
6	640	18	50	82	77	215	54	32	12	14	12	4.5
7	400	17	50	62	65	124	63	29	11	11	8.1	4.2
8	150	152	42	60	58	182	469	31	10	8.9	7.0	4.0
9	50	128	45	54	67	248	197	160	9.6	7.8	6.0	3.5
10	34	59	50	50	54	123	192	63	8.3	7.6	5.2	3.8
11	24	45	45	47	46	89	118	42	7.6	52	5.0	3.8
12	22	36	40	45	42	116	79	33	7.3	39	5.4	3.0
13	20	32	40	44	40	83	62	28	8.6	17	9.2	2.5
14	16	150	80	42	42	64	52	24	7.8	11	7.0	4.0
15	14	152	842	43	50	56	46	23	6.3	9.9	6.0	4.5
16	14	64	1,020	60	48	64	42	21	15	10	5.0	3.5
17	15	265	174	50	38	204	39	19	16	12	4.6	3.0
18	12	270	104	46	33	161	37	18	98	26	450	2.5
19	13	261	78	45	34	80	35	17	33	11	150	2.3
20	16	779	67	49	34	60	32	16	18	7.8	44	1.9
21	12	231	74	40	33	61	29	15	30	6.5	30	1.6
22	9.6	109	450	63	32	146	27	13	18	5.4	30	1.4
23	8.9	80	214	101	30	153	26	13	108	15	16	1.3
24	10	55	117	61	29	85	24	14	39	7.8	14	1.1
25	9.9	62	85	50	28	65	25	15	28	5.6	12	1.1
26	8.9	550	69	45	27	83	32	13	18	5.2	11	1.0
27	8.1	250	63	72	43	129	343	13	24	5.2	10	1.0
28	31	90	54	120	120	73	342	118	30	5.0	9.0	1.0
29	49	66	48	300	-----	56	100	278	125	4.3	8.0	1.1
30	29	75	44	142	-----	56	60	64	52	3.5	7.0	.94
31	23	-----	78	83	-----	121	-----	38	-----	3.4	7.0	-----
TOTAL	2,401.4	4,111	4,452	2,396	2,808	3,587	3,791	1,379	840.5	434.9	1,008.8	89.84
MEAN	77.5	137	144	77.3	100	116	126	44.5	28.0	14.0	32.5	2.99
MAX	640	779	1,020	300	776	248	569	278	125	52	450	6.4
MIN	8.1	17	40	40	27	49	24	13	6.3	3.4	4.3	.94
CFSM	1.76	3.11	3.27	1.76	2.27	2.64	2.86	1.01	.64	.32	.74	.07
IN.	2.03	3.48	3.76	2.03	2.37	3.03	3.21	1.17	.71	.37	.85	.08

CAL YR 1972 TOTAL 21,061.5 MEAN 57.5 MAX 1,020 MIN 1.0 CFSM 1.31 IN 17.81
WTR YR 1973 TOTAL 27,299.44 MEAN 74.8 MAX 1,020 MIN .94 CFSM 1.70 IN 23.08

PEAK DISCHARGE (BASE, 900 CFS)

NOTE.--No gage-height record Aug. 14 to Sept. 19.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-20	1400	33.86	1,180	2- 2	2100	35.08	1,910
12-15	2400	36.47	2,880	4- 1	2100	33.56	1,040

ROANOKE RIVER BASIN

02077240 Double Creek near Roseville, N. C.

LOCATION.--Lat 36°21'44", long 79°05'48", Person County, on left bank 75 ft downstream from bridge on Secondary Road 1166, 1.0 mile upstream from Mill Creek, and 3.0 miles northwest of Roseville.

DRAINAGE AREA.--7.47 sq mi.

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

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

AVERAGE DISCHARGE.--9 years, 5.71 cfs (10.38 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,420 cfs Dec. 15 (gage height, 5.58 ft); minimum, 0.66 cfs Sept. 30 (gage height, 1.39 ft).

Period of record: Maximum discharge, 1,420 cfs Dec. 15, 1972 (gage height, 5.58 ft); minimum, 0.03 cfs 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.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	5.0	18	11	9.7	11	93	9.4	4.6	4.2	2.5	2.3
2	2.3	5.6	11	9.0	246	9.2	29	7.9	4.1	16	11	2.2
3	1.7	4.6	9.3	8.0	43	43	19	11	3.4	6.5	15	2.1
4	1.6	4.0	7.9	26	22	24	16	11	3.2	4.9	6.5	2.0
5	255	3.6	7.0	15	16	32	13	7.6	3.0	3.9	3.6	1.9
6	41	3.2	7.5	12	13	23	12	6.8	2.9	3.3	3.0	1.6
7	35	3.0	6.5	9.4	12	17	22	6.3	2.9	3.0	2.8	1.6
8	12	41	5.9	9.3	11	55	69	7.7	3.1	2.8	2.3	1.5
9	6.5	13	7.2	8.6	12	33	23	8.6	2.6	2.8	2.3	1.6
10	4.2	7.9	7.0	7.7	9.5	20	26	6.2	2.5	2.8	2.1	1.8
11	3.0	6.3	6.3	7.4	8.2	16	16	5.5	2.4	8.2	1.8	1.5
12	2.8	5.2	5.9	7.0	7.5	20	14	5.0	2.3	3.9	2.5	1.4
13	2.8	4.6	5.9	6.5	7.1	14	12	4.8	2.4	2.8	2.5	1.3
14	2.3	20	22	6.4	8.0	12	11	4.6	2.1	2.5	1.8	2.7
15	2.1	11	295	8.7	9.2	11	9.7	4.5	1.9	3.3	1.6	1.8
16	2.3	7.2	44	9.7	9.2	13	8.9	4.3	3.0	2.8	1.5	1.5
17	2.3	55	20	8.1	7.0	37	8.6	4.3	2.3	3.0	1.5	1.4
18	2.1	21	14	7.3	6.5	18	8.0	4.1	8.0	2.5	220	1.5
19	3.0	42	12	8.0	6.6	14	7.6	3.8	3.0	2.3	17	1.2
20	2.5	113	10	7.3	6.5	12	7.1	3.9	3.4	2.1	7.7	1.1
21	1.8	21	10	6.4	6.4	16	6.5	3.8	3.9	2.1	6.2	1.1
22	1.8	14	75	12	6.0	36	6.5	3.5	34	2.1	8.4	1.1
23	2.1	10	23	11	5.8	26	6.4	3.6	14	2.5	5.0	.93
24	2.1	8.1	16	8.5	6.4	17	6.1	4.1	6.2	2.1	4.2	.93
25	2.1	16	13	7.2	5.3	14	7.9	4.1	5.6	1.8	3.7	.93
26	1.8	50	11	6.8	5.6	26	7.3	3.7	3.9	1.8	3.4	.93
27	1.8	14	10	14	19	27	70	3.9	3.9	1.8	3.2	.93
28	16	12	8.6	22	15	16	26	30	3.9	1.8	2.9	.93
29	6.9	9.4	7.4	28	-----	13	14	14	20	1.6	2.7	.78
30	4.7	15	7.0	14	-----	13	11	7.5	6.2	1.5	2.5	.78
31	3.8	-----	12	11	-----	28	-----	5.3	-----	2.1	2.4	-----
TOTAL	433.6	549.7	715.4	333.3	539.5	666.2	586.6	210.8	164.7	104.8	353.6	43.34
MEAN	14.0	18.3	23.1	10.8	19.3	21.5	19.6	6.80	5.49	3.38	11.4	1.44
MAX	255	113	295	29	246	55	93	30	34	16	220	2.7
MIN	1.6	3.0	5.9	6.4	5.3	9.2	6.1	3.5	1.9	1.5	1.5	.78
CFSM	1.87	2.45	3.09	1.45	2.58	2.88	2.62	.91	.73	.45	1.53	.19
IN.	2.16	2.74	3.56	1.66	2.69	3.32	2.92	1.05	.82	.52	1.76	.22

CAL YR 1972 TOTAL 3,168.41 MEAN 8.66 MAX 295 MIN .66 CFSM 1.16 IN 15.78
WTR YR 1973 TOTAL 4,701.54 MEAN 12.9 MAX 295 MIN .78 CFSM 1.73 IN 23.41

PEAK DISCHARGE (BASE, 170 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 5	1245	5.50	1,360	4- 1	0815	3.39	306
11-20	0030	4.14	606	4- 8	0200	3.12	216
12-15	1445	5.58	1,420	4-27	0545	3.01	188
12-22	0200	3.20	240	6-22	1730	3.23	250
2- 2	0845	4.45	742	8-18	0900	5.47	1,340

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 miles downstream from Double Creek, and 4.2 miles northwest of Roseville.

DRAINAGE AREA.--55 sq mi, 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 above mean sea level.

AVERAGE DISCHARGE.--7 years, 48.9 cfs (12.07 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,950 cfs Dec. 15 (gage height, 22.97 ft); minimum, 2.4 cfs Sept. 30 (gage height, 13.07 ft).

Period of record: Maximum discharge, 2,950 cfs Dec. 15, 1972 (gage height, 22.97 ft); 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.

REVISIONS.--The figures of maximum discharge for some water years have been revised as shown in the following table. They supercede figures published in WRD N. C. as indicated.

WRD N.C.	Water year	Date	Discharge (cfs)	Gage height (feet)
1967	1967	Feb. 21, 1967	679	17.53
1968	1968	May 27, 1968	2,080	21.05
1969	1969	Apr. 18, 1969	1,600	19.97
1970	1970	Feb. 17, 1970	1,280	19.18
1971	1971	Aug. 28, 1971	1,560	19.88
1972	1972	June 21, 1972	2,390	21.74

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

REVISED PEAK DISCHARGE.--1967: Feb. 21 (0900) 679 cfs (17.53 ft).

1968: Dec. 29 (0330) 1,200 cfs (18.97 ft); Jan. 14 (1230) 954 cfs (18.34 ft); Mar. 13 (unknown) 1,970 cfs (20.81 ft); May 27 (1730) 2,080 cfs (21.05 ft).

1969: Feb. 2 (2300) 835 cfs (18.00 ft); Mar. 7 (1200) 1,160 cfs (18.88 ft); Mar. 19 (1900) 706 cfs (17.62 ft); Apr. 18 (2400) 1,600 cfs (19.97 ft).

1970: Feb. 17 (1500) 1,280 cfs (19.18 ft).

1971: Nov. 13 (1600) 605 cfs (17.28 ft); Nov. 15 (1400) 902 cfs (18.19 ft); Feb. 9 (0200) 1,460 cfs (19.62 ft); Mar. 3 (2300) 1,160 cfs (18.87 ft); May 16 (1400) 1,320 cfs (19.28 ft); May 29 (1300) 751 cfs (17.76 ft); Aug. 28 (0500) 1,560 cfs (19.88 ft).

1972: Oct. 2 (0730) 814 cfs (17.94 ft); Oct. 10 (1930) 1,270 cfs (19.14 ft); Oct. 25 (1400) 1,230 cfs (19.04 ft); Nov. 25 (0830) 933 cfs (18.28 ft); Feb. 4 (unknown) 1,290 cfs (19.20 ft); June 21 (2230) 2,390 cfs (21.74 ft); July 12 (2300) 765 cfs (17.80 ft).

ROANOKE RIVER BASIN

02077250 South Hyco Creek near Roseville, N. C.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	24	178	105	72	90	756	56	26	28	8.6	7.6
2	28	33	92	69	1,270	66	378	48	23	95	28	6.9
3	17	27	66	59	623	230	165	48	20	36	69	6.3
4	14	25	57	221	195	327	113	84	18	30	59	5.7
5	724	22	52	154	114	248	90	49	16	22	18	5.7
6	758	18	50	92	86	260	72	40	15	16	13	5.7
7	428	17	52	69	71	148	82	36	14	14	11	5.4
8	153	234	42	61	66	254	604	45	13	12	9.4	5.2
9	57	182	46	58	78	300	226	116	12	11	8.3	4.7
10	35	64	49	56	59	152	201	53	12	11	7.2	5.2
11	26	46	44	52	52	108	125	40	10	61	6.0	5.2
12	23	36	39	50	52	144	87	34	9.8	38	6.6	4.4
13	21	31	39	49	50	100	72	29	10	18	13	3.8
14	18	141	108	48	50	80	61	26	9.8	13	8.0	6.9
15	15	182	1,260	56	59	69	56	26	9.0	15	6.3	8.3
16	15	64	966	75	56	82	50	23	18	14	6.0	6.0
17	16	380	203	62	42	266	48	22	13	14	5.2	5.0
18	13	343	109	54	42	189	46	22	44	18	736	4.7
19	14	142	82	54	46	95	43	20	21	11	260	4.2
20	19	1,150	69	57	40	74	40	19	15	9.4	49	3.8
21	15	292	66	47	38	82	37	18	18	8.3	33	4.0
22	13	124	580	65	35	227	35	16	69	8.0	34	3.6
23	14	76	252	116	34	269	33	16	87	18	20	3.2
24	14	58	132	68	33	130	32	18	32	12	16	3.1
25	14	64	90	56	30	93	38	19	29	8.6	15	2.7
26	13	554	74	52	32	128	43	17	18	8.0	13	3.1
27	12	278	69	92	93	178	497	18	30	7.6	11	3.2
28	53	103	58	123	208	98	365	196	38	6.9	9.8	3.2
29	54	69	52	350	-----	75	119	236	191	6.3	8.6	2.9
30	32	81	47	148	-----	75	72	58	58	5.4	8.0	2.6
31	25	-----	84	87	-----	136	-----	36	-----	6.5	8.0	-----
TOTAL	2,758	4,860	5,107	2,705	3,626	4,773	4,586	1,484	898.6	582.0	1,504.0	142.3
MEAN	89.0	162	165	87.3	130	154	153	47.9	30.0	18.8	48.5	4.74
MAX	758	1,150	1,260	350	1,270	327	756	236	191	95	736	8.3
MIN	12	17	39	47	30	66	32	16	9.0	5.4	5.2	2.6
CFSM	1.62	2.95	3.00	1.59	2.36	2.80	2.78	.87	.55	.34	.88	.09
IN.	1.87	3.29	3.45	1.83	2.45	3.23	3.10	1.00	.61	.39	1.02	.10

CAL YR 1972 TOTAL 25,249.1 MEAN 69.0 MAX 1,260 MIN 2.2 CFSM 1.25 IN 17.08
WTR YR 1973 TOTAL 33,025.9 MEAN 90.5 MAX 1,270 MIN 2.6 CFSM 1.65 IN 22.34

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 5	1700	20.41	1,790	2- 2	1700	21.77	2,410
11-17	2100	17.62	706	4- 1	1800	19.21	1,290
11-20	0900	20.28	1,740	4- 8	1200	18.02	842
11-26	1100	17.86	786	4-27	1800	17.84	779
12-15	2000	22.97	2,950	8-18	1300	19.58	1,440
12-22	1300	18.00	835				

ROANOKE RIVER BASIN

31

02077300 Hyco River at McGehees Mill, N. C.

LOCATION.--Lat 36°31'02", long 79°01'42", Person County, on left bank 200 ft downstream from bridge on Secondary Road 1322, at McGehees Mill, and 1.7 miles downstream from Hyco Lake.

DRAINAGE AREA.--191 sq mi.

PERIOD OF RECORD.--August 1964 to September 1973 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 349.78 ft above mean sea level.

AVERAGE DISCHARGE.--9 years, 145 cfs (adjusted for storage) (10.31 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,390 cfs Dec. 16 (gage height, 13.84 ft); minimum daily, 5.1 cfs Sept. 23-30.

Period of record: Maximum discharge, 4,390 cfs Dec. 16, 1972, maximum gage height, 15.58 ft Mar. 13, 1968; minimum discharge, 1.1 cfs Oct. 9, 1964 (gage height, 2.01 ft); minimum daily, 1.3 cfs Sept. 30, 1964. Flood in 1945 reached a stage of 24.8 ft, from information by local resident (discharge not determined).

REMARKS.--Records good except those for period May to September, which are fair. Flow regulated since September 1964 by Hyco Lake (see p. 146). Change in contents in Hyco Lake includes diversions from lake by city of Roxboro for municipal water supply (emergency), most of which is returned downstream from station. No diversions during current year. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	77	530	300	360	210	1,670	322	172	78	72	99
2	15	90	453	282	1,920	188	2,270	296	169	81	20	99
3	38	88	356	245	3,420	274	1,260	312	130	81	42	98
4	38	76	282	504	1,870	737	710	316	110	116	20	95
5	506	63	241	664	872	884	428	344	89	98	10	93
6	1,960	50	217	514	478	1,030	309	321	100	100	7.6	86
7	1,560	44	188	386	360	843	295	43	110	100	6.5	80
8	940	211	172	320	306	750	1,560	42	125	79	5.9	77
9	457	373	186	286	274	1,260	1,790	150	130	59	5.6	73
10	260	291	189	254	223	872	1,280	191	130	77	5.4	73
11	180	217	169	223	206	572	832	180	130	32	5.4	61
12	142	167	158	193	182	502	564	180	111	60	5.4	38
13	114	136	158	171	164	404	433	171	81	73	5.4	28
14	94	312	168	162	162	340	424	180	50	73	5.4	19
15	77	496	1,320	156	176	285	359	175	30	74	5.4	17
16	65	363	3,830	172	172	264	336	166	16	68	5.4	16
17	65	554	1,960	198	143	569	284	156	8.5	22	6.2	16
18	49	1,030	826	196	124	674	217	145	4.8	14	46	14
19	47	748	483	195	114	410	294	137	3.4	12	90	10
20	43	2,490	365	195	115	292	288	129	6.8	10	64	6.8
21	41	2,200	329	175	110	274	284	149	7.2	11	82	6.5
22	41	958	1,230	195	101	516	278	120	6.8	11	134	5.9
23	42	531	1,360	323	91	920	273	100	12	11	106	5.1
24	40	350	782	327	86	696	267	120	30	9.7	97	5.1
25	40	291	500	273	80	433	213	129	59	7.6	89	5.1
26	39	1,240	383	233	77	365	158	136	68	7.6	86	5.1
27	39	1,400	315	224	86	407	274	129	69	6.8	84	5.1
28	47	735	258	393	172	320	626	140	69	5.6	86	5.1
29	80	436	209	1,240	-----	238	730	400	80	5.4	89	5.1
30	81	356	188	846	-----	241	425	230	76	5.4	93	5.1
31	73	-----	224	512	-----	404	-----	191	-----	38	98	-----
TOTAL	7,222.3	16,373	18,029	10,357	12,444	16,174	19,131	5,800	2,183.5	1,426.1	1,477.6	1,152.0
MEAN	233	546	582	334	444	522	638	187	72.8	46.0	47.7	38.4
MAX	1,960	2,490	3,830	1,240	3,420	1,260	2,270	400	172	116	134	99
MIN	9.3	44	158	156	77	188	158	42	3.4	5.4	5.4	5.1
(†)	+32	+18	-1	-19	+12	+11	-27	-37	-8	-19	+48	-73

CAL YR 1972 TOTAL 84,613.9 MEAN 231 MAX 3,830 MIN 8.9 MEAN † 232 CFSM † 1.21 IN † 16.47
WTR YR 1973 TOTAL 111,769.5 MEAN 306 MAX 3,830 MIN 3.4 MEAN † 301 CFSM † 1.58 IN † 21.45

† Change in contents, equivalent in cubic feet per second in Hyco Lake.

† Adjusted for change in contents.

ROANOKE RIVER BASIN

02080500 Roanoke River at Roanoke Rapids, N. C.

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

DRAINAGE AREA.--8,410 sq mi, 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 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 miles upstream at different datum. Since Aug. 6, 1941, auxiliary water-stage recorder, 3.6 miles downstream from base gage.

AVERAGE DISCHARGE.--61 years (1912-73) 8,006 cfs (adjusted for storage) (12.93 inches per year).

EXTREMES.--Current year: Maximum discharge, 20,200 cfs Aug. 18 (gage height, 8.69 ft); minimum, 827 cfs Nov. 4, 11, 13 (gage height, 1.83 ft); minimum daily, 1,050 cfs Mar. 4.
Period of record: Maximum discharge, 261,000 cfs Aug. 18, 1940 (gage height, 39.0 ft, from floodmarks); minimum, about 250 cfs Dec. 16, 1955; minimum daily, 472 cfs Sept. 21, 1932.
Flood in November 1877 (discharge, 212,000 cfs), reached a stage of about 2 ft lower at Old Gaston than flood in August 1940 which was 21.5 ft. 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 cu ft); since September 1950 by John H. Kerr Reservoir (usable capacity, 101,247,000,000 cu ft); since June 1955 by Roanoke Rapids Lake (see p. 146); since September 1962 by Leesville Lake, since October 1962 by Lake Gaston (see p. 146); 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 1972 TO SEPTEMBER 1973

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,400	14,100	19,600	18,800	14,200	8,010	19,500	19,400	9,340	7,460	7,330	9,770
2	2,100	15,100	19,400	19,400	14,300	5,200	19,300	19,600	11,300	9,600	8,540	3,960
3	2,300	18,800	19,400	18,600	19,400	5,660	19,400	19,600	11,400	9,960	2,330	2,020
4	4,500	2,450	18,000	19,200	19,400	1,050	19,500	19,300	11,400	4,590	9,700	7,470
5	13,000	2,430	13,500	19,600	19,400	10,200	19,500	19,600	12,100	11,600	2,410	9,470
6	15,100	13,300	19,400	19,600	19,400	12,900	19,400	19,600	12,200	10,400	5,450	11,700
7	19,000	10,500	19,400	19,600	19,500	14,100	19,400	19,600	12,100	11,100	5,280	6,890
8	19,500	12,800	19,300	19,600	19,500	13,000	19,500	19,800	12,100	11,100	8,030	2,130
9	19,500	8,340	12,400	19,500	19,500	10,100	19,500	19,600	8,660	16,000	12,800	2,220
10	19,500	2,500	19,400	19,700	19,600	12,100	19,500	19,500	6,100	10,700	12,300	1,990
11	19,400	1,370	19,100	19,700	19,600	5,200	19,500	19,200	11,400	2,120	5,140	2,130
12	19,300	1,730	18,200	19,600	19,600	6,960	19,600	14,500	13,200	2,660	4,440	1,930
13	19,400	3,270	18,100	19,600	19,600	13,200	19,600	8,360	9,510	3,920	3,110	2,200
14	9,760	5,290	17,900	19,600	19,600	14,500	19,500	14,300	8,790	4,980	3,060	2,100
15	3,400	13,400	19,200	19,700	19,600	14,400	19,500	14,100	7,820	2,170	9,010	3,230
16	11,200	14,800	19,600	19,600	19,500	14,800	19,500	14,300	4,810	2,140	9,680	2,040
17	13,500	14,500	19,500	19,600	19,600	19,600	19,500	15,200	7,540	2,300	9,130	1,980
18	14,000	3,490	19,300	19,600	19,600	18,300	19,500	9,440	2,120	7,700	11,100	1,980
19	19,400	6,780	19,500	19,400	19,600	13,300	19,600	5,770	2,000	9,150	4,750	1,830
20	15,600	14,400	18,900	14,700	19,700	18,700	19,600	5,810	7,190	9,690	4,670	1,870
21	9,340	14,300	18,300	9,570	19,500	18,700	19,600	5,780	8,620	9,620	7,300	2,320
22	4,580	14,700	17,500	12,000	19,500	19,600	19,600	9,270	9,080	2,140	9,800	2,050
23	13,200	15,900	17,500	8,590	17,000	19,700	18,000	15,300	5,180	9,040	10,600	4,700
24	19,300	19,300	17,700	13,400	3,850	19,400	19,500	16,200	11,000	8,980	10,400	10,700
25	19,400	19,400	17,500	13,300	6,070	19,400	19,600	14,700	10,800	7,420	5,240	13,900
26	19,400	19,400	17,300	9,840	12,100	19,100	19,600	11,300	8,150	11,000	7,250	4,940
27	15,400	19,400	18,500	11,300	12,500	19,300	19,500	6,070	8,630	12,100	12,700	9,310
28	12,700	19,400	18,300	1,110	11,600	19,500	19,500	12,500	9,620	2,570	13,900	13,000
29	6,430	19,500	19,500	12,600	-----	19,400	19,500	12,800	12,900	1,940	17,800	9,040
30	11,900	19,600	19,500	13,400	-----	19,400	19,500	7,030	11,700	6,890	17,600	2,520
31	13,500	-----	19,200	14,000	-----	19,400	-----	6,400	-----	8,160	16,400	-----
TOTAL	412,370	360,750	569,900	503,810	482,320	444,180	583,800	433,930	276,760	229,200	267,250	151,390
MEAN	13,300	12,030	18,380	16,250	17,230	14,330	19,460	14,000	9,225	7,394	8,621	5,046
MAX	19,600	19,600	19,600	19,700	19,700	19,700	19,600	19,800	13,200	16,000	17,800	13,900
MIN	2,100	1,370	12,400	1,110	3,850	1,050	18,000	5,770	2,000	1,940	2,330	1,830
(†)	-1,024	+6,497	-1,182	-3,752	+1,996	+4,676	+1,680	-2,571	-1,268	-2,116	-589	-2,190

CAL YR 1972 TOTAL 4,378,000 MEAN 11,960 MAX 23,700 MIN 976 MEAN † 12,204 CFM † 1.45 IN † 19.74
WTR YR 1973 TOTAL 4,715,660 MEAN 12,920 MAX 19,800 MIN 1,050 MEAN † 12,905 CFM † 1.53 IN † 20.77

† Change in content, 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.

PAMLICO RIVER BASIN

33

02081500 Tar River near Tar River, N. C.

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

DRAINAGE AREA.--167 sq mi.

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 above mean sea level.

AVERAGE DISCHARGE.--34 years, 152 cfs (12.36 inches per year).

EXTREMES.--Current year: Maximum discharge, 10,300 cfs Aug. 19 (gage height, 16.10 ft); minimum, 6.5 cfs Sept. 26, 27 (gage height, 1.43 ft).

Period of record: Maximum discharge, 13,100 cfs Aug. 18, 1955 (gage height, 18.07 ft); minimum, 0.02 cfs July 29, 30, 1966 (gage height, 1.09 ft).

REMARKS.--Records good except those for period of no gage-height record, which are fair. Town of Oxford diverts about 2.5 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,000	58	500	200	179	289	1,500	149	92	156	72	28
2	600	62	300	140	3,560	199	700	122	75	1,130	926	26
3	100	69	200	160	6,710	935	500	133	64	279	339	23
4	42	62	150	467	688	1,520	350	428	56	128	1,670	22
5	614	56	120	358	314	432	270	181	45	87	380	21
6	4,790	50	110	225	246	445	222	115	40	68	104	20
7	1,430	43	100	178	230	372	272	94	37	56	70	19
8	407	1,310	100	155	205	467	2,170	88	35	46	53	17
9	174	1,080	200	161	241	1,210	814	294	34	40	42	17
10	106	267	160	153	202	416	347	167	31	35	33	16
11	78	188	150	152	162	288	268	101	29	32	30	16
12	65	152	140	153	143	338	199	77	27	52	32	17
13	59	120	140	133	132	253	172	65	81	50	93	16
14	54	454	200	120	136	191	147	59	73	32	69	21
15	47	350	4,000	150	180	160	130	57	41	27	66	85
16	43	200	3,000	305	176	140	119	54	34	104	40	37
17	41	3,000	500	233	146	180	111	49	40	58	28	24
18	39	2,000	300	190	111	200	106	46	60	39	2,650	19
19	37	1,600	200	169	104	160	101	44	58	31	5,450	17
20	49	1,900	180	188	105	140	94	44	40	25	300	15
21	51	1,000	160	150	107	200	88	325	86	21	150	13
22	42	400	1,400	179	99	500	81	119	81	20	411	13
23	37	300	1,600	376	95	300	77	68	93	27	176	12
24	35	200	1,000	204	89	200	73	66	120	41	100	12
25	32	350	800	152	82	160	72	83	70	31	79	11
26	31	800	400	127	87	160	101	83	50	22	68	7.5
27	29	500	300	284	452	400	1,500	64	36	18	56	7.9
28	96	400	200	363	971	300	1,980	723	27	18	47	9.1
29	220	300	160	976	-----	200	310	1,270	2,470	147	41	8.7
30	106	700	140	355	-----	160	188	301	701	66	35	8.3
31	71	-----	400	216	-----	1,000	-----	142	-----	33	32	-----
TOTAL	11,525	17,971	17,310	7,372	15,952	11,915	13,062	5,611	4,726	2,919	13,642	578.5
MEAN	372	599	558	238	570	384	435	181	158	94.2	440	19.3
MAX	4,790	3,000	4,000	976	6,710	1,520	2,170	1,270	2,470	1,130	5,450	85
MIN	29	43	100	120	82	140	72	44	27	18	28	7.5
CFSM	2.23	3.59	3.34	1.43	3.41	2.30	2.60	1.08	.95	.56	2.63	.12
IN.	2.57	4.00	3.86	1.64	3.55	2.65	2.91	1.25	1.05	.65	3.04	.13

CAL YR 1972 TOTAL 94,293.4 MEAN 258 MAX 4,790 MIN 3.7 CFSM 1.54 IN 21.00
WTR YR 1973 TOTAL 122,583.5 MEAN 336 MAX 6,710 MIN 7.5 CFSM 2.01 IN 27.31

PEAK DISCHARGE (BASE, 2,000 CFS)

NOTE.--No gage-height record Nov. 14 to Jan. 3.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 1	Unknown	8.08	2,410	4- 1	Unknown	9.58	3,450
10- 6	1030	12.86	6,460	4- 8	1600	8.70	2,830
11- 8	2230	7.84	2,260	4-28	0100	9.62	3,490
11-17	Unknown	Unknown	Unknown	6-29	1600	9.78	3,610
12-15	Unknown	12.76	6,360	8- 4	1530	7.84	2,260
2- 3	0430	15.90	10,100	8-19	0230	16.10	10,300
3- 4	0230	8.05	2,390				

PAMLICO RIVER BASIN

02081740 Tar River at Louisburg, N. C.

LOCATION.--Lat 36°05'36", long 78°17'48", Franklin County, near center of span on downstream side of bridge on South Main Street (Secondary Road 1229), at Louisburg, and 0.5 mile upstream from Fox Creek.

DRAINAGE AREA.--430 sq mi, approximately.

PERIOD OF RECORD.--October 1963 to September 1973 (discontinued). Prior to October 1972 medium and high water discharges only. Gage height records collected at this site since June 1, 1956 are contained in reports of the National Weather Service, NOAA, U. S. Department of Commerce.

GAGE.--Nonrecording gage. Datum of gage is 178.76 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 7,940 cfs Feb. 3 (gage height, 22.50 ft from graph based on readings); minimum gage height observed, 2.60 ft Sept. 26-30.

Period of record: Maximum discharge, 7,940 cfs Feb. 3, 1973 (gage height, 22.50 ft from graph based on gage readings); minimum gage height observed, 1.30 ft several days in September 1967, August, September and October 1968.

Floods of December 1934, September 1945, and August 1955 reached stages of 26, 24, and 24 ft, respectively, from information by Corps of Engineers.

REMARKS.--Records fair.

COOPERATION.--Gage readings furnished by the National Weather Service, NOAA, U. S. Department of Commerce.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,290	230	811	760	660	1,680	1,860	562	472	5,030	274	125
2	2,870	205	1,230	760	660	680	3,840	472	292	1,640	256	125
3	382	180	660	562	6,230	562	4,520	427	248	3,420	205	110
4	205	205	544	562	7,640	1,890	1,820	562	205	2,360	1,260	105
5	205	205	472	1,110	5,060	3,200	822	914	196	544	2,400	100
6	1,820	164	445	730	1,640	1,230	680	490	1,110	418	526	92
7	4,520	164	445	660	866	1,070	580	400	164	337	292	90
8	4,940	382	445	562	760	866	1,320	346	164	283	222	86
9	2,180	2,360	427	472	660	1,110	3,200	346	164	248	205	82
10	382	3,310	427	472	660	2,180	3,420	730	125	222	172	80
11	310	710	517	472	562	962	986	427	125	214	172	84
12	248	472	427	472	562	833	720	328	110	230	175	90
13	205	382	427	382	472	866	600	292	140	214	256	96
14	164	364	562	382	472	660	472	248	148	205	310	110
15	140	1,220	1,040	427	562	562	400	248	188	172	346	337
16	120	780	4,260	427	562	472	380	248	132	188	346	256
17	110	780	6,740	427	562	610	360	214	148	391	188	125
18	100	2,520	4,520	620	382	1,070	350	230	962	230	188	110
19	96	4,020	1,290	544	350	710	350	205	409	205	2,220	105
20	125	2,360	760	472	330	508	340	292	248	156	5,840	96
21	120	3,420	660	499	310	472	340	400	336	156	3,790	90
22	115	3,640	1,040	499	300	1,110	328	780	373	125	1,640	84
23	110	833	3,180	660	320	1,750	328	346	400	156	890	80
24	105	620	3,350	730	382	1,750	319	292	364	188	400	74
25	100	472	1,300	730	346	780	319	517	265	148	292	72
26	100	811	866	472	346	660	292	517	292	140	256	68
27	98	2,270	720	472	382	790	710	364	196	125	222	68
28	96	1,440	700	962	1,380	2,000	2,360	292	1,600	110	188	68
29	800	680	610	1,230	-----	1,010	3,860	1,400	3,760	110	172	68
30	517	562	472	2,180	-----	690	1,180	2,290	6,020	328	156	68
31	292	-----	472	844	-----	660	-----	640	-----	164	156	-----
TOTAL	23,865	35,761	39,819	20,553	33,418	33,393	37,056	15,819	18,442	18,457	23,965	3,144
MEAN	770	1,192	1,284	663	1,194	1,077	1,235	510	615	595	773	105
MAX	4,940	4,020	6,740	2,180	7,640	3,200	4,520	2,290	6,020	5,030	5,840	337
MIN	96	164	427	382	300	472	292	205	110	110	125	68
CFSM	1.79	2.78	2.99	1.55	2.78	2.51	2.88	1.19	1.43	1.39	1.80	.24
IN.	2.07	3.10	3.45	1.78	2.90	2.90	3.21	1.37	1.60	1.60	2.08	.27

WTR YR 1973 TOTAL 303,692.00 MEAN 832 MAX 7,640 MIN 68 CFSM 1.94 IN 26.33

PAMLICO RIVER BASIN

35

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 mile downstream from Camping Creek, 3.7 miles southwest of Louisburg, and 5.5 miles upstream from mouth.

DRAINAGE AREA.--47.8 sq mi.

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 above mean sea level. May 28, 1953, to Aug. 31, 1956, crest-stage gage at upstream side of bridge at datum 6.39 ft higher.

AVERAGE DISCHARGE.--17 years, 50.1 cfs (14.23 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,560 cfs June 29 (gage height, 8.32 ft); minimum daily, 11 cfs Sept. 9.

Period of record: Maximum discharge, 3,560 cfs June 29, 1973 (gage height, 8.32 ft); minimum, 0.77 cfs Sept. 26, 1968 (gage height, 1.25 ft).

Flood in 1935 reached a stage of about 14 ft, from information by the North Carolina State Highway Commission.

REMARKS.--Records good except those for period of no gage-height record, which are 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	25	74	70	61	68	323	64	41	167	46	14
2	60	26	57	57	1,070	58	367	55	38	163	37	14
3	35	25	52	52	1,370	91	169	59	36	126	39	13
4	30	25	49	66	311	168	127	96	33	70	104	13
5	25	24	46	57	178	104	99	58	30	55	40	13
6	150	22	47	53	146	86	76	49	26	47	29	12
7	140	22	45	48	134	81	90	46	25	52	25	12
8	110	122	40	45	116	73	261	45	26	87	23	12
9	35	188	50	56	105	85	184	57	23	83	21	11
10	30	76	46	54	72	70	116	47	22	76	19	13
11	27	46	42	49	64	66	88	42	20	67	18	17
12	25	34	40	49	59	95	76	39	19	60	21	14
13	24	33	41	45	56	76	70	38	25	35	48	13
14	23	52	157	44	63	65	65	37	21	28	26	12
15	22	54	437	53	83	61	61	39	18	31	26	40
16	22	36	953	64	65	58	59	37	21	45	22	35
17	21	154	305	61	52	63	58	39	30	34	19	30
18	21	228	152	59	48	56	58	50	76	32	57	27
19	22	112	122	61	49	51	56	39	31	26	66	25
20	25	313	105	61	50	50	54	56	32	24	31	24
21	24	333	79	52	49	72	51	69	141	23	25	22
22	23	148	205	61	47	97	50	45	79	22	23	21
23	22	85	236	71	44	72	48	40	81	28	22	20
24	22	60	155	56	43	61	48	63	47	26	21	20
25	23	59	104	50	41	58	50	98	63	22	19	19
26	22	202	79	48	47	62	52	57	40	20	18	19
27	21	185	72	65	84	79	232	51	38	21	17	18
28	20	98	61	65	113	65	230	54	35	29	16	18
29	24	68	54	142	-----	56	101	130	2,100	41	15	17
30	30	63	54	102	-----	59	71	69	786	23	15	17
31	22	-----	68	70	-----	90	-----	48	-----	24	15	-----
TOTAL	1,145	2,918	4,027	1,886	4,620	2,296	3,390	1,716	4,003	1,587	923	555
MEAN	36.9	97.3	130	60.8	165	74.1	113	55.4	133	51.2	29.8	18.5
MAX	150	333	953	142	1,370	168	367	130	2,100	167	104	40
MIN	20	22	40	44	41	50	48	37	18	20	15	11
CFSM	.77	2.04	2.72	1.27	3.45	1.55	2.36	1.16	2.78	1.07	.62	.39
IN.	.89	2.27	3.13	1.47	3.60	1.79	2.64	1.34	3.12	1.24	.72	.43

CAL YR 1972 TOTAL 21,335 MEAN 58.3 MAX 953 MIN 10 CFSM 1.22 IN 16.60
WTR YR 1973 TOTAL 29,066 MEAN 79.6 MAX 2,100 MIN 11 CFSM 1.67 IN 22.62

PEAK DISCHARGE (BASE, 450 CFS)

NOTE.--No gage-height record, Aug. 30 to Sept. 30.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-16	0330	5.10	1,180	4-1	2300	3.78	502
2-3	0100	7.37	2,800	6-29	1500	8.32	3,560

PAMLICO RIVER BASIN

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 miles downstream from Tar River Reservoir, 2.8 miles downstream from Sapony Creek, 2.9 miles upstream from Grape Branch, and 5.0 miles southwest of Rocky Mount.

DRAINAGE AREA.--777 sq mi.

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

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

EXTREMES.--August to September 1972: Maximum discharge during period, 1,160 cfs Aug. 18 (gage height, 6.62 ft); minimum, 42 cfs Sept. 20, 21 (gage height, 3.20 ft).

Water year 1973: Maximum discharge, 10,300 cfs Feb. 6 (gage height, 20.14 ft); minimum, 91 cfs Oct. 11, Sept. 30; minimum gage height, 3.60 ft Oct. 11.

REMARKS.--Records good. The city of Rocky Mount diverted an average of 7.0 cfs for municipal water supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1											681	147
2											472	163
3											313	139
4											300	144
5											310	155
6											350	222
7											320	437
8											290	506
9											270	310
10											288	208
11											243	152
12											199	133
13											136	126
14											181	116
15											241	99
16											243	94
17											225	106
18											641	123
19											923	90
20											836	80
21											575	62
22											524	77
23											348	119
24											274	166
25											202	168
26											162	156
27											165	145
28											189	151
29											179	137
30											158	247
31		-----			-----		-----		-----		148	-----
TOTAL											10,386	4,978
MEAN											335	166
MAX											923	506
MIN											136	62
CFSM											1.89	.94
IN.											2.18	1.05

PAMLICO RIVER BASIN

37

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,090	203	1,150	1,300	1,690	2,570	3,000	2,390	1,200	5,950	386	215
2	2,420	220	1,540	1,500	2,290	2,450	5,020	1,110	679	7,390	558	205
3	2,380	180	1,690	1,420	5,960	1,680	5,340	865	511	7,720	805	193
4	797	120	1,210	1,230	7,090	2,310	5,520	985	437	5,710	2,110	142
5	331	120	955	1,220	8,600	3,470	4,870	1,440	379	3,360	2,620	107
6	2,150	120	842	1,540	10,000	4,260	1,900	1,410	346	1,420	2,810	117
7	3,350	127	826	1,300	9,470	2,610	1,500	910	313	793	1,220	125
8	4,240	142	761	1,130	5,270	1,900	2,630	708	292	590	574	125
9	4,980	935	797	995	1,660	1,700	3,780	643	313	498	409	129
10	4,800	2,970	785	1,010	1,550	2,130	4,830	728	316	450	331	129
11	749	3,560	805	990	1,580	2,580	4,290	900	304	426	385	125
12	274	1,690	930	970	1,360	1,980	2,230	696	260	403	250	123
13	488	724	842	935	1,200	1,850	1,440	558	248	382	271	121
14	403	618	1,040	890	1,220	1,750	1,220	488	188	349	399	144
15	283	683	2,410	865	1,640	1,390	1,080	454	238	362	443	193
16	343	1,320	5,270	985	1,690	1,180	980	399	331	515	386	346
17	396	1,530	5,970	1,220	1,560	1,110	900	423	340	481	392	346
18	365	1,980	6,220	1,360	1,270	1,080	818	396	443	494	346	258
19	846	3,260	7,320	1,270	1,000	1,420	773	590	950	396	789	208
20	1,520	5,650	7,370	1,200	910	1,170	679	647	716	328	2,430	175
21	1,040	5,780	3,380	1,150	900	970	659	748	915	271	3,870	149
22	382	4,870	1,940	1,160	870	1,410	651	732	1,240	243	4,880	138
23	265	5,010	2,750	1,190	830	2,110	618	805	2,010	286	2,250	133
24	225	2,160	4,010	1,410	777	2,670	570	667	1,280	382	1,070	125
25	310	1,210	4,530	1,360	732	2,280	562	781	930	346	598	123
26	316	1,520	3,030	1,050	797	1,490	610	980	663	295	433	109
27	286	2,290	1,800	945	1,180	1,280	930	895	566	263	346	105
28	280	3,260	1,480	1,030	1,710	1,640	1,970	700	437	230	301	96
29	301	2,510	1,150	1,720	-----	2,350	3,320	895	1,370	235	263	99
30	805	1,520	712	2,310	-----	1,720	4,010	2,070	3,610	245	243	93
31	488	-----	1,070	2,680	-----	1,470	-----	2,420	-----	271	228	-----
TOTAL	36,903	56,282	74,585	39,335	74,806	59,980	66,700	28,433	21,825	41,084	32,396	4,696
MEAN	1,190	1,876	2,406	1,269	2,672	1,935	2,223	917	728	1,325	1,045	157
MAX	4,980	5,780	7,370	2,680	10,000	4,260	5,520	2,420	3,610	7,720	4,880	346
MIN	225	120	712	865	732	970	562	396	188	230	228	93
CFSM	1.53	2.41	3.10	1.63	3.44	2.49	2.86	1.18	.94	1.71	1.34	.20
IN.	1.77	2.69	3.57	1.88	3.58	2.87	3.19	1.36	1.04	1.97	1.55	.22

WTR YR 1973 TOTAL 537,025 MEAN 1,471 MAX 10,000 MIN 93 CFSM 1.89 IN 25.71

PAMLICO RIVER BASIN

02082610 Tar River near Rocky Mount, N. C.

LOCATION.--Lat 35°58'38", long 77°45'35", Edgecombe County, near center of span on downstream side of bridge on Secondary Road 1250, 0.5 mile downstream from Compass Creek, and 3.2 miles northeast of Rocky Mount.

DRAINAGE AREA.--930 sq mi, approximately.

PERIOD OF RECORD.--November 1963 to September 1973 (discontinued). Prior to October, 1971 medium and high water discharges only.

GAGE.--Nonrecording gage. Datum of gage is 48.97 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 11,100 cfs Feb. 7 (gage height, 24.20 ft, from graph based on gage readings); minimum gage height observed, 1.70 ft Sept. 8.

Period of record: Maximum discharge, 12,800 cfs Oct. 6, 1964 (gage height, 24.0 ft, from graph based on gage readings); minimum gage height observed, 1.50 ft July 29, 1966.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	584	425	1,850	1,540	2,220	2,840	3,900	3,150	1,310	4,460	322	212
2	1,810	405	1,480	1,700	2,790	2,950	5,230	1,520	836	6,370	515	208
3	2,360	322	1,280	1,740	6,100	2,100	5,800	1,200	590	7,430	587	272
4	1,150	225	1,530	1,570	7,710	2,900	6,200	1,160	506	6,710	1,830	40
5	592	165	1,220	1,530	8,840	3,540	5,040	1,600	495	3,980	3,120	180
6	2,390	140	1,090	1,770	10,500	4,210	2,880	1,500	455	1,710	2,890	145
7	4,000	272	1,020	1,710	10,900	3,410	1,810	1,200	380	951	1,710	17
8	4,440	500	979	1,360	8,860	2,320	2,720	870	340	727	860	16
9	4,690	744	1,000	1,100	3,150	2,120	4,240	741	325	587	515	53
10	4,460	2,660	980	1,100	2,440	2,600	5,500	828	350	527	350	175
11	2,040	3,510	1,030	1,050	2,000	2,800	4,760	1,040	352	490	370	170
12	716	3,050	1,110	1,000	1,720	2,360	3,040	884	275	452	340	70
13	468	2,300	1,040	980	1,520	2,170	1,800	647	205	400	425	65
14	650	954	1,630	960	1,670	2,120	1,510	593	325	380	530	138
15	500	898	3,560	1,110	2,310	1,770	1,400	530	335	432	569	310
16	300	1,350	5,520	1,280	2,230	1,480	1,210	495	340	524	495	475
17	503	1,880	6,650	1,470	2,080	1,400	1,140	420	425	512	473	452
18	495	2,420	7,400	1,680	1,690	1,430	1,070	563	647	560	638	68
19	657	4,060	7,890	1,580	1,360	1,520	1,000	856	1,100	477	1,320	192
20	930	5,120	5,540	1,560	1,210	1,430	958	1,060	972	460	2,230	208
21	850	6,290	2,700	1,550	1,150	1,280	934	1,170	1,070	340	3,190	212
22	581	5,930	2,600	1,400	1,110	1,660	898	1,280	1,410	248	4,050	170
23	375	4,910	2,720	1,520	1,090	2,150	832	1,220	2,610	300	2,990	111
24	230	3,840	4,200	1,640	1,070	2,900	786	951	1,960	418	1,210	83
25	398	1,540	4,700	1,620	993	2,400	748	1,020	1,170	408	557	52
26	380	1,470	5,000	1,400	926	1,840	853	1,060	1,140	335	420	62
27	503	2,360	2,340	1,260	1,590	1,560	1,180	996	940	322	372	145
28	385	3,200	1,810	1,530	2,320	1,780	1,850	926	584	298	335	200
29	318	3,160	1,560	2,190	-----	2,320	2,800	1,050	1,220	278	300	175
30	1,000	2,060	1,000	2,450	-----	2,080	4,500	2,060	2,750	325	275	138
31	500	-----	1,300	2,850	-----	2,530	-----	2,400	-----	380	222	-----
TOTAL	39,255	66,160	83,729	47,200	91,549	69,970	76,589	34,990	25,417	41,791	34,010	4,814
MEAN	1,266	2,205	2,701	1,523	3,270	2,257	2,553	1,129	847	1,348	1,097	160
MAX	4,690	6,290	7,890	2,850	10,900	4,210	6,200	3,150	2,750	7,430	4,050	475
MIN	230	140	979	960	926	1,280	748	420	205	248	222	16
CFSM	1.36	2.37	2.90	1.64	3.52	2.43	2.75	1.21	.91	1.45	1.18	.17
IN.	1.57	2.65	3.35	1.89	3.66	2.80	3.06	1.40	1.02	1.67	1.36	.19

CAL YR 1972 TOTAL 453,825 MEAN 1,240 MAX 7,890 MIN 26 CFSM 1.33 IN 18.15
WTR YR 1973 TOTAL 615,474 MEAN 1,686 MAX 10,900 MIN 16 CFSM 1.81 IN 24.62

PAMLICO RIVER BASIN

39

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 mile northeast of Hilliardston, and 2.8 miles downstream from Gideon Swamp.

DRAINAGE AREA.--163 sq mi.

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

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

AVERAGE DISCHARGE.--10 years, 136 cfs (11.33 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,800 cfs Feb. 5 (gage height, 12.86 ft); minimum, 22 cfs Sept. 13, 14 (gage height, 2.20 ft).

Period of record: Maximum discharge, 2,800 cfs Feb. 5, 1973 (gage height, 12.86 ft); minimum, 0.60 cfs Sept. 25, 26, 1968.

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

REMARKS.--Records good above 100 cfs and fair below. An average of about 4.8 cfs was diverted above station for Henderson municipal water supply. About 0.5 cfs of sewage effluent was discharged into the Tar River and about 1.9 cfs was diverted into the Roanoke River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	104	222	310	264	300	680	130	154	2,200	109	48
2	231	91	218	270	650	260	800	120	123	1,600	80	45
3	365	86	205	243	1,310	360	668	130	115	897	91	42
4	166	88	172	229	1,960	636	628	200	112	585	226	40
5	119	88	157	232	2,200	448	397	130	112	550	239	40
6	1,240	86	147	222	1,070	370	283	120	105	201	182	37
7	923	85	145	196	423	280	280	115	101	129	89	37
8	682	274	137	182	318	240	747	110	98	111	77	35
9	663	411	136	185	309	260	649	130	98	102	67	32
10	304	302	149	183	283	230	524	140	95	94	60	30
11	138	355	144	193	263	210	430	158	91	89	56	30
12	106	223	136	184	239	300	289	136	86	94	84	30
13	95	143	128	172	217	260	248	127	100	89	112	27
14	89	140	266	162	226	200	223	124	97	81	105	28
15	85	160	699	171	332	190	204	124	86	74	78	82
16	82	155	1,180	230	285	180	189	125	85	78	80	96
17	80	276	1,150	236	236	200	180	124	85	91	111	84
18	79	395	1,310	228	194	170	173	124	88	95	130	66
19	77	341	984	216	176	160	167	125	119	82	392	58
20	74	914	347	220	174	150	161	135	128	72	393	52
21	76	931	270	191	173	230	154	314	94	64	340	49
22	80	632	414	184	168	310	149	304	95	60	127	48
23	77	593	480	253	161	230	143	198	104	74	94	46
24	77	322	507	223	153	200	140	147	107	81	82	45
25	80	216	543	193	144	190	150	212	97	68	74	43
26	82	472	365	165	187	200	160	265	85	61	70	42
27	79	471	291	167	312	260	430	201	110	57	63	37
28	77	359	257	202	382	220	420	158	110	52	60	31
29	85	288	226	376	-----	180	210	294	804	72	57	27
30	117	217	198	342	-----	190	150	261	1,960	85	52	24
31	133	-----	262	327	-----	320	-----	221	-----	72	49	-----
TOTAL	6,673	9,218	11,845	6,887	12,809	7,934	10,026	5,202	5,644	8,060	3,829	1,331
MEAN	215	307	382	222	457	256	334	168	188	260	124	44.4
MAX	1,240	931	1,310	376	2,200	636	800	314	1,960	2,200	393	96
MIN	74	85	128	162	144	150	140	110	85	52	49	24
CFSM	1.32	1.88	2.34	1.36	2.80	1.57	2.05	1.03	1.15	1.60	.76	.27
IN.	1.52	2.10	2.70	1.57	2.92	1.81	2.29	1.19	1.29	1.84	.87	.30

CAL YR 1972 TOTAL 72,097 MEAN 197 MAX 1,310 MIN 13 CFSM 1.21 IN 16.45
WTR YR 1973 TOTAL 89,458 MEAN 245 MAX 2,200 MIN 24 CFSM 1.50 IN 20.42

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-6	1500	10.82	1,380	2-5	0230	12.86	2,800
11-20	1430	9.06	1,060	4-2	Unknown	8.89	1,030
12-16	0400	10.00	1,200	6-30	1900	12.85	2,780
12-18	1800	10.85	1,380				

PAMLICO RIVER BASIN

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 downstream from bridge on Secondary Road 1338, 1.1 miles west of White Oak, 1.8 miles upstream from Powells Creek, 4.3 miles upstream from mouth, and 12 miles west of Enfield.

DRAINAGE AREA.--175 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 116.44 ft above mean sea level. Since Feb. 14, 1962, auxiliary nonrecording gage 3.6 miles downstream.

AVERAGE DISCHARGE.--14 years, 165 cfs (12.80 inches per year).

EXTREMES.--Current year: Maximum discharge, 18,000 cfs Oct. 7 (gage height, 24.80 ft), from rating curve extended as explained below; minimum, 24 cfs Sept. 30 (gage height, 1.73 ft).

Period of record: Maximum discharge, 18,000 cfs Oct. 7, 1972 (gage height, 24.80 ft), from rating curve extended above 3,400 cfs on basis of slope-conveyance study of peak flow; minimum, 0.83 cfs Sept. 26, Oct. 2, 3, 1968.

Flood in July 1959 reached a stage of 19.3 ft, from floodmarks (discharge not determined).

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

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

DISCHARGE, IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	388	87	264	350	239	417	970	145	84	848	105	51
2	458	87	261	310	872	267	1,040	131	73	160	100	49
3	100	89	197	280	2,050	427	748	131	67	279	127	46
4	58	91	173	250	3,460	878	344	285	63	144	312	46
5	132	88	161	280	1,290	774	310	182	58	99	291	46
6	4,880	84	155	250	403	417	251	128	55	86	122	43
7	15,000	82	157	240	356	324	244	112	55	80	77	42
8	5,000	364	145	220	315	293	934	107	52	69	64	41
9	2,000	612	158	200	339	344	1,080	113	53	61	56	38
10	500	462	202	210	321	345	610	121	49	57	49	37
11	137	265	175	230	267	281	323	100	45	55	40	38
12	107	176	150	200	237	374	255	88	42	53	64	40
13	98	138	141	190	220	356	228	81	59	52	134	40
14	92	123	358	180	231	265	205	76	58	46	85	46
15	88	135	928	230	374	236	191	80	45	44	81	78
16	84	170	1,840	307	361	223	182	79	43	48	144	57
17	81	290	2,030	306	262	235	175	76	57	82	72	48
18	80	528	1,300	274	210	241	171	86	68	57	376	42
19	79	435	900	253	200	198	166	80	86	49	1,500	37
20	78	1,180	447	279	209	182	158	84	62	42	600	34
21	85	1,140	412	235	206	251	150	126	58	36	350	32
22	79	765	500	211	201	558	143	97	58	34	178	31
23	77	306	560	356	191	598	138	77	64	58	117	30
24	78	223	600	285	183	417	132	91	77	53	100	30
25	83	193	640	218	173	285	129	278	65	43	86	28
26	85	529	524	193	182	261	155	161	55	36	75	27
27	83	587	400	208	350	303	296	111	49	32	64	26
28	86	358	320	272	582	306	564	101	122	38	60	25
29	125	230	300	522	-----	235	377	276	1,580	192	58	25
30	127	200	250	520	-----	218	174	206	2,410	90	57	24
31	98	-----	300	295	-----	302	-----	111	-----	96	52	-----
TOTAL	30,446	10,017	14,948	8,354	14,284	10,811	10,843	3,920	5,712	3,119	5,596	1,177
MEAN	982	334	482	269	510	349	361	126	190	101	181	39.2
MAX	15,000	1,180	2,030	522	3,460	878	1,080	285	2,410	848	1,500	78
MIN	58	82	141	180	173	182	129	76	42	32	40	24
CFSM	5.61	1.91	2.75	1.54	2.91	1.99	2.06	.72	1.09	.58	1.03	.22
IN.	6.47	2.13	3.18	1.78	3.04	2.30	2.30	.83	1.21	.66	1.19	.25

CAL YR 1972 TOTAL 101,947 MEAN 279 MAX 15,000 MIN 12 CFSM 1.59 IN 21.67
WTR YR 1973 TOTAL 119,227 MEAN 327 MAX 15,000 MIN 24 CFSM 1.87 IN 25.34

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-7	Unknown	24.8	18,000	2-4	0830	17.00	3,750
11-20	1800	24.34	1,420	6-30	0300	14.70	2,630
12-17	0800	24.22	2,150	8-19	Unknown	17.18	3,880

NOTE.--No gage-height record Oct. 6 to Nov. 15, Aug. 19 to Sept. 17.

PAMLICO RIVER BASIN

41

02083000 Fishing Creek near Enfield, N. C.

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

DRAINAGE AREA.--521 sq mi.

PERIOD OF RECORD.--October 1923 to current year. Figures of daily discharge below 250 cfs Oct. 1, 1923, to July 3, 1924, below 350 cfs May 30, 1925, to May 31, 1926, below 150 cfs June 1 to Nov. 16, 1926, and below 100 cfs 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 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 above mean sea level. Prior to Oct. 28, 1932, non-recording gage, at same site and datum.

AVERAGE DISCHARGE.--50 years, 490 cfs (12.77 inches per year).

EXTREMES.--Current year: Maximum discharge, 12,000 cfs Oct. 8 (gage height, 17.00 ft); minimum, 86 cfs Sept. 29, 30 (gage height, 1.05 ft).
Period of record: Maximum discharge, 12,600 cfs Dec. 2, 1934, Aug. 18, 1940; maximum gage height, 17.72 ft Aug. 18, 1940; minimum daily discharge, 6.9 cfs Oct. 5, 1968.
The flood of Apr. 19, 1910 reached a stage of 20.1 ft, present datum (from floodmarks of Seaboard Coast Line Railroad Co.) at site 2,000 ft upstream. Flood of July 24, 1919, reached a stage of 19.6 ft (discharge, 20,300 cfs).

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	517	295	641	880	802	1,400	2,000	687	354	4,700	174	141
2	854	267	719	844	1,110	957	2,610	512	273	3,820	264	134
3	734	256	641	701	3,110	897	2,500	468	236	1,970	198	127
4	431	256	554	638	3,790	2,020	1,990	662	218	1,610	453	122
5	214	258	509	722	6,190	2,110	1,350	801	201	1,330	882	120
6	1,860	254	487	712	6,220	1,650	950	597	186	682	587	118
7	3,960	245	487	631	2,820	1,120	766	478	178	357	298	114
8	10,700	547	479	580	1,310	908	1,860	424	173	285	200	111
9	10,600	1,250	458	563	980	902	2,370	406	172	242	164	107
10	4,900	1,500	517	570	946	1,020	2,330	406	170	216	146	104
11	1,290	1,080	542	593	828	944	1,600	422	158	200	133	100
12	456	665	490	625	728	986	969	376	146	198	139	101
13	331	461	451	587	673	1,070	760	340	252	189	389	102
14	293	416	601	545	659	934	679	316	332	187	378	104
15	273	481	1,520	545	938	762	627	314	233	173	253	140
16	258	530	2,660	683	1,090	700	595	317	165	184	296	250
17	249	537	3,470	812	878	680	575	309	197	190	338	220
18	243	1,050	3,910	764	680	692	561	315	515	205	381	158
19	241	1,220	3,750	712	598	642	546	332	339	176	1,790	130
20	231	1,950	2,050	728	582	586	528	321	307	159	2,660	117
21	241	2,600	987	703	584	610	507	448	458	140	3,380	109
22	250	2,560	1,120	614	577	1,120	487	483	401	130	1,560	104
23	234	1,910	1,640	719	558	1,450	471	380	324	126	482	101
24	240	1,130	1,790	814	534	1,340	456	342	311	167	293	99
25	250	680	1,650	658	512	1,030	446	525	273	153	247	97
26	256	1,030	1,170	569	537	860	466	659	214	131	221	95
27	246	1,520	894	555	903	862	578	478	183	120	202	91
28	242	1,410	812	649	1,480	910	1,190	407	342	113	186	88
29	266	906	706	1,110	-----	796	1,290	620	1,490	220	173	86
30	375	665	622	1,380	-----	692	984	806	3,310	331	160	87
31	346	-----	631	1,150	-----	863	-----	549	-----	233	150	-----
TOTAL	41,581	27,929	36,958	22,356	40,617	31,513	33,041	14,500	12,111	18,937	17,177	3,577
MEAN	1,341	931	1,192	721	1,451	1,017	1,101	468	404	611	554	119
MAX	10,700	2,600	3,910	1,380	6,220	2,110	2,610	806	3,310	4,700	3,380	250
MIN	214	245	451	545	512	586	446	309	146	113	133	86
CFSM	2.57	1.79	2.29	1.38	2.79	1.95	2.11	.90	.78	1.17	1.06	.23
IN.	2.97	1.99	2.64	1.60	2.90	2.25	2.36	1.04	.86	1.35	1.23	.26

CAL YR 1972 TOTAL 228,898 MEAN 625 MAX 10,700 MIN 47 CFSM 1.20 IN 16.34
WTR YR 1973 TOTAL 300,297 MEAN 823 MAX 10,700 MIN 86 CFSM 1.58 IN 21.44

PAMLICO RIVER BASIN

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 miles downstream from Fishing Creek, and 49.2 miles upstream from Pamlico River at Washington.

DRAINAGE AREA.--2,140 sq mi, 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 above mean sea level. July 1896 to December 1900 nonrecording gage at Seaboard Coast Line Railroad bridge 600 ft downstream at different datum. Oct. 1, to Dec. 8, 1931, nonrecording gage at site 100 ft upstream at present datum.

AVERAGE DISCHARGE.--46 years, 2,240 cfs (14.22 inches per year).

EXTREMES.--Current year: Maximum discharge, 18,200 cfs Feb. 9 (gage height, 24.71 ft); minimum, 236 cfs Sept. 30 (gage height, 1.86 ft).

Period of record: Maximum discharge, 37,200 cfs Aug. 20, 1940 (gage height, 31.77 ft); minimum, 36 cfs Oct. 17, 22, 1933, Oct. 6, 1968.

Flood of July 27, 1919, reached a stage of 34.0 ft, present datum, from floodmarks (discharge, 52,800 cfs).

REMARKS.--Records excellent. Some diurnal fluctuation at low flow caused by mills above station. Town of Tarboro diverted 2.7 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	419	1,120	4,310	3,160	5,510	5,270	4,880	5,130	2,400	4,360	806	592
2	1,110	662	3,530	3,370	5,410	5,940	6,800	4,390	2,550	5,830	770	522
3	2,830	630	3,370	3,590	6,690	6,360	8,450	2,810	1,750	8,020	936	494
4	3,290	634	3,350	3,460	8,350	6,380	9,250	2,470	1,420	10,300	1,720	516
5	1,950	542	2,790	3,220	9,160	6,640	10,200	2,600	1,220	11,400	2,400	396
6	1,430	512	2,380	3,160	11,100	7,180	10,600	2,930	1,030	11,200	3,280	409
7	3,440	512	2,160	3,320	13,900	7,810	9,300	2,840	932	8,290	3,750	327
8	4,590	634	2,050	3,060	16,400	8,000	8,520	2,220	815	5,220	2,130	377
9	4,840	1,270	1,950	2,740	18,000	6,760	8,190	1,870	750	2,460	1,260	329
10	6,610	2,350	1,950	2,560	14,900	5,640	8,370	1,690	701	1,590	1,060	348
11	9,050	4,090	1,910	2,560	10,400	5,220	8,700	1,660	669	1,210	886	345
12	9,120	4,620	1,950	2,580	7,570	5,200	9,080	1,730	672	1,030	1,120	336
13	7,400	3,620	2,000	2,570	5,340	4,960	8,680	1,480	644	956	1,370	319
14	5,220	2,240	1,990	2,500	4,340	4,710	6,610	1,280	572	840	1,740	332
15	2,440	1,860	2,670	2,430	4,560	4,550	4,810	1,140	717	779	1,580	457
16	1,280	1,840	4,970	2,530	5,350	4,060	3,530	1,080	667	836	1,680	407
17	1,060	2,430	6,610	2,820	5,510	3,520	3,000	1,010	717	966	1,390	527
18	1,000	2,840	7,510	3,200	5,270	3,160	2,660	972	1,780	953	1,520	694
19	904	3,270	8,610	3,420	4,610	2,920	2,450	1,010	2,150	939	2,250	557
20	1,130	4,710	9,740	3,510	3,790	2,970	2,280	1,020	1,880	825	2,510	485
21	1,710	5,610	11,000	3,520	3,210	2,730	2,130	1,420	1,860	704	3,830	435
22	1,530	6,650	12,000	3,410	2,930	2,770	1,970	1,700	2,140	640	4,660	415
23	944	7,460	10,400	3,470	2,720	3,440	1,880	1,780	3,050	572	5,600	355
24	784	7,910	8,810	3,470	2,540	4,270	1,720	1,670	3,550	550	5,990	380
25	669	7,940	8,340	3,590	2,350	4,880	1,660	1,530	2,860	631	4,340	328
26	736	6,300	7,990	3,410	2,330	4,950	1,690	1,750	2,320	674	2,310	323
27	740	5,580	7,730	2,950	3,320	4,300	2,070	2,090	1,770	580	1,420	307
28	704	5,100	6,340	2,870	4,640	3,690	2,800	1,960	1,480	573	1,050	316
29	672	5,340	5,110	3,780	-----	3,710	3,760	1,720	1,360	612	883	295
30	693	5,400	3,930	4,600	-----	4,060	4,560	2,100	2,560	524	736	269
31	1,060	-----	3,170	5,150	-----	3,740	-----	3,270	-----	705	657	-----
TOTAL	79,355	103,676	160,620	99,980	190,200	149,790	160,600	62,322	46,986	84,769	65,634	12,192
MEAN	2,560	3,456	5,181	3,225	6,793	4,832	5,353	2,010	1,566	2,734	2,117	406
MAX	9,120	7,940	12,000	5,150	18,000	8,000	10,600	5,130	3,550	11,400	5,990	694
MIN	419	512	1,910	2,430	2,330	2,730	1,660	972	572	524	657	269
CFSM	1.20	1.62	2.42	1.51	3.17	2.26	2.50	.94	.73	1.28	.99	.19
IN.	1.38	1.80	2.79	1.74	3.31	2.60	2.79	1.08	.82	1.47	1.14	.21
CAL YR 1972	TOTAL	937,285	MEAN	2,561	MAX	12,000	MIN	176	CFSM	1.20	IN	16.29
WTR YR 1973	TOTAL	1,216,124	MEAN	3,332	MAX	18,000	MIN	269	CFSM	1.56	IN	21.14

PAMLICO RIVER BASIN

43

02083800 Conetoe Creek near Bethel, N. C.

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

DRAINAGE AREA.--78.1 sq mi.

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

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

AVERAGE DISCHARGE.--16 years, (1957-73) 87.4 cfs (15.20 inches per year).

EXTREMES.--Current year: Maximum discharge, 862 cfs Feb. 3 (gage height, 11.43 ft); minimum, 3.5 cfs Oct. 17, 18, Nov. 5, 6, 7 (gage height, 0.11 ft).

Period of record: Maximum discharge, 2,580 cfs Aug. 23, 1967 (gage height, 15.74 ft); minimum daily, 1.3 cfs Nov. 6, 1968.

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

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	4.4	35	73	108	235	324	91	70	22	11	7.2
2	5.3	4.1	30	73	319	185	437	76	53	20	9.3	6.9
3	5.0	4.1	27	62	838	198	266	64	42	19	11	6.7
4	4.7	4.1	25	60	636	447	225	108	35	18	37	6.4
5	5.0	4.1	23	58	315	356	239	101	30	17	38	6.1
6	5.3	3.8	22	53	231	249	182	77	27	17	23	6.1
7	5.3	3.8	21	48	204	201	159	61	27	16	16	5.9
8	5.0	13	19	46	178	173	575	52	28	15	13	5.6
9	4.7	16	21	49	175	155	594	54	23	14	11	6.4
10	4.4	9.6	21	46	164	143	329	52	22	14	9.8	29
11	4.4	7.7	19	46	151	130	224	44	21	14	8.8	17
12	4.1	6.9	19	48	153	145	177	37	20	16	8.5	13
13	4.1	6.1	19	45	144	139	145	32	21	13	17	9.1
14	4.1	6.4	20	43	164	120	125	29	21	12	28	9.3
15	3.8	6.7	44	46	507	108	110	28	19	12	19	21
16	3.8	5.9	96	74	389	98	99	27	18	13	14	25
17	3.8	11	63	90	243	94	92	27	18	13	11	19
18	3.8	14	48	92	185	83	86	31	19	12	33	15
19	4.1	12	43	96	157	75	80	26	22	11	130	13
20	4.1	31	39	111	140	70	75	25	26	10	58	11
21	3.8	28	37	90	129	72	69	36	196	9.5	35	9.3
22	3.8	20	74	102	119	119	65	32	111	9.3	24	8.5
23	3.8	17	83	157	108	122	61	55	70	9.1	19	7.7
24	4.1	15	72	119	99	98	57	72	59	8.8	16	6.9
25	4.7	15	64	95	92	87	53	97	48	8.5	14	6.4
26	4.1	27	57	82	97	85	53	65	39	8.0	13	6.4
27	4.1	26	60	82	236	82	168	50	32	7.7	11	6.2
28	5.0	22	57	89	338	75	237	41	29	13	10	6.1
29	5.3	20	49	222	-----	60	152	124	26	31	9.3	5.9
30	5.0	26	45	170	-----	64	115	173	24	22	8.5	5.8
31	4.4	-----	47	128	-----	77	-----	101	-----	14	8.0	-----
TOTAL	138.5	390.7	1,299	2,595	6,619	4,345	5,573	1,888	1,196	438.9	674.2	307.9
MEAN	4.47	13.0	41.9	83.7	236	140	186	60.9	39.9	14.2	21.7	10.3
MAX	5.6	31	96	222	838	447	594	173	196	31	130	29
MIN	3.8	3.8	19	43	92	60	53	25	18	7.7	8.0	5.6
CFSM	.06	.17	.54	1.07	3.02	1.79	2.38	.78	.51	.18	.28	.13
IN.	.07	.19	.62	1.24	3.15	2.07	2.65	.90	.57	.21	.32	.15

CAL YR 1972 TOTAL 22,205.6 MEAN 60.7 MAX 654 MIN 3.8 CFSM .78 IN 10.58
WTR YR 1973 TOTAL 25,465.2 MEAN 69.8 MAX 838 MIN 3.8 CFSM .89 IN 12.13

PEAK DISCHARGE (BASE, 470 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 3	1530	11.43	862	4- 1	2330	7.79	499
2-15	1330	8.49	562	4- 8	2300	10.14	724
3- 4	1700	7.82	502				

PAMLICO RIVER BASIN

02084500 Herring Run near Washington, N. C.

LOCATION.--Lat 35°34'03", long 77°01'09", Beaufort County, on left bank 10 ft downstream from bridge on Secondary Road 1506, 400 ft upstream from Pineywood Branch, 1.2 miles upstream from mouth, and 2.8 miles northeast of Washington.

DRAINAGE AREA.--About 15 sq mi.

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 (from topographic map). Prior to May 8, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 10.6 cfs (9.60 inches per year).

EXTREMES.--Current year: Maximum discharge, 132 cfs Feb. 13 (gage height, 9.45 ft); minimum, 0.74 cfs Sept. 29 (gage height, 5.10 ft).

Period of record: Maximum discharge, 620 cfs Sept. 13, 1964 (gage height, 14.85 ft from floodmark); minimum, 0.60 cfs July 5-8, 1964.

Flood in 1946 reached a stage of 17 ft, 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.3	9.6	34	58	11	24	92	23	1.8	2.8	1.6	.90
2	2.4	7.3	25	36	22	19	66	20	1.5	2.2	1.7	.90
3	2.1	6.1	18	26	30	21	37	24	1.2	1.9	2.0	.90
4	1.8	5.3	14	23	22	31	28	27	1.1	1.9	2.2	.90
5	1.6	4.8	10	20	18	28	23	6.1	1.0	3.1	2.4	.90
6	28	4.2	9.9	17	14	24	17	4.3	.94	2.4	2.0	1.2
7	19	3.8	12	14	12	20	17	3.4	.96	1.9	1.7	1.4
8	11	4.0	9.3	14	10	17	46	2.9	.94	1.6	1.5	1.2
9	7.2	4.6	16	15	12	14	30	3.9	.92	1.4	1.3	1.2
10	5.5	4.0	16	13	13	12	23	16	.96	1.3	1.2	1.3
11	4.4	3.6	13	13	14	10	16	2.9	.79	1.2	1.1	1.2
12	3.8	3.2	10	14	17	11	12	2.2	1.0	1.1	1.1	1.0
13	3.3	2.9	9.3	12	80	9.6	8.8	1.7	1.2	1.1	1.2	.96
14	2.9	2.7	8.4	11	57	8.2	7.0	1.4	1.2	1.0	1.1	.96
15	2.4	2.6	16	15	40	7.0	6.1	1.3	1.1	.98	4.8	.96
16	2.0	2.2	23	24	33	6.4	5.5	1.2	1.1	1.0	6.4	.90
17	1.9	5.0	16	23	26	6.1	4.8	1.1	1.1	.96	2.6	.90
18	1.7	6.6	11	22	22	5.7	4.4	1.1	1.3	.94	2.2	.85
19	1.8	5.7	9.0	24	18	5.1	4.0	1.1	1.1	.90	2.2	.85
20	2.3	8.2	7.9	28	14	4.6	3.6	.96	1.1	.89	2.0	.85
21	2.4	7.6	7.2	22	13	4.8	3.2	1.5	1.1	.87	1.7	.85
22	2.1	6.4	20	25	11	7.0	2.9	1.3	1.1	.87	1.5	.85
23	1.9	5.1	22	29	9.2	6.4	2.6	1.2	1.6	.87	1.3	.85
24	2.8	4.6	19	22	8.0	5.7	2.3	1.9	1.2	.85	1.2	.85
25	6.8	4.2	15	18	6.9	5.1	2.0	8.3	1.1	.84	1.2	.79
26	5.9	30	12	15	11	17	1.9	2.9	1.1	.84	1.1	.79
27	4.7	23	13	15	32	19	48	2.3	1.1	.85	1.1	.79
28	27	17	11	16	32	15	40	1.9	1.1	14	1.0	.79
29	31	11	8.2	23	-----	11	33	3.1	8.7	12	1.0	.79
30	21	20	7.1	18	-----	8.2	28	3.1	4.6	3.5	.96	.79
31	15	-----	30	14	-----	12	-----	2.2	-----	2.1	.96	-----
TOTAL	229.0	225.3	452.3	639	608.1	394.9	615.1	175.26	45.01	68.16	55.32	28.37
MEAN	7.39	7.51	14.6	20.6	21.7	12.7	20.5	5.65	1.50	2.20	1.78	.95
MAX	31	30	34	58	80	31	92	27	8.7	14	6.4	1.4
MIN	1.6	2.2	7.1	11	6.9	4.6	1.9	.96	.79	.84	.96	.79

CAL YR 1972 TOTAL 3,527.55 MEAN 9.64 MAX 92 MIN .96
WTR YR 1973 TOTAL 3,535.82 MEAN 9.69 MAX 92 MIN .79

PEAK DISCHARGE (BASE, 120 CFS).

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-13	1300	9.45	132	4- 1	1930	9.39	130

PAMLICO RIVER BASIN

45

02084540 Durham Creek at Edward, N. C.

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

DRAINAGE AREA.--21 sq mi, approximately.

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 above mean sea level.

AVERAGE DISCHARGE.--8 years, 38.8 cfs (25.09 inches per year).

EXTREMES.--Current year: Maximum discharge, 480 cfs Apr. 2 (gage height, 8.80 ft); no flow June 16-20, July 25-29.

Period of record: Maximum discharge, 2,070 cfs Oct. 1, 1971 (gage height, 13.24 ft); no flow at times many years.

REMARKS.--Records good except those for period of no gage-height record, which are fair. 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	7.3	126	121	65	63	293	80	3.2	18	3.2	10
2	1.8	6.4	138	192	76	54	420	60	2.6	22	2.7	7.2
3	1.5	5.6	119	200	84	52	270	45	2.1	22	25	5.8
4	1.3	5.3	92	200	74	79	150	35	1.6	21	30	4.6
5	1.2	4.8	72	190	56	144	120	45	1.2	16	25	7.2
6	1.5	4.7	82	190	55	131	110	30	.92	13	24	6.7
7	2.8	4.5	239	200	134	111	100	20	.69	10	23	5.1
8	3.3	9.5	229	190	129	94	250	11	.49	8.1	22	4.0
9	2.7	22	186	180	96	78	150	12	.28	6.5	18	3.1
10	2.1	16	142	200	72	64	110	13	.17	5.2	26	3.7
11	1.7	12	108	195	56	56	85	12	.12	4.1	61	3.8
12	1.4	9.9	85	190	60	54	65	9.6	.07	3.2	48	2.9
13	1.2	8.4	71	189	64	52	52	8.1	.10	2.4	48	2.3
14	1.0	8.2	58	148	88	46	44	7.0	.04	1.7	36	1.9
15	.90	8.9	53	128	90	40	35	7.5	.02	1.2	26	1.9
16	.76	8.6	56	106	210	37	30	11	0	1.1	19	1.6
17	.72	15	51	95	410	40	25	9.4	0	.98	14	1.2
18	.65	24	43	86	312	50	20	8.1	0	.98	16	1.0
19	.76	24	39	88	214	45	18	7.2	0	.86	16	3.6
20	1.8	30	35	100	159	38	14	6.3	0	.61	12	3.7
21	2.0	31	33	67	126	36	12	6.3	.02	.34	9.6	2.6
22	1.9	25	50	56	104	42	10	6.2	.02	.17	7.7	2.1
23	1.6	21	75	59	86	40	9.0	5.2	.12	.10	6.7	1.6
24	2.4	18	84	79	72	35	8.0	6.7	.82	.02	6.0	1.2
25	9.7	17	81	79	59	31	7.5	7.7	4.0	0	6.7	.92
26	12	41	71	78	54	32	7.0	6.7	3.5	0	14	.61
27	9.9	71	66	86	53	33	220	5.7	4.8	0	39	.46
28	8.8	69	58	74	67	31	200	5.1	4.6	0	32	.34
29	12	60	48	92	-----	27	140	4.5	4.5	0	36	.22
30	11	76	40	103	-----	24	100	4.4	12	1.7	29	.12
31	8.9	-----	41	81	-----	25	-----	3.8	-----	4.5	16	-----
TOTAL	111.29	664.1	2,671	4,042	3,125	1,684	3,074.5	499.5	47.98	165.76	697.6	91.47
MEAN	3.59	22.1	86.2	130	112	54.3	102	16.1	1.60	5.35	22.5	3.05
MAX	12	76	239	200	410	144	420	80	12	22	61	10
MIN	.65	4.5	33	56	53	24	7.0	3.8	0	0	2.7	.12
CFSM	.17	1.05	4.10	6.19	5.33	2.59	4.86	.77	.08	.25	1.07	.15
IN.	.20	1.18	4.73	7.16	5.54	2.98	5.45	.88	.08	.29	1.24	.16

CAL YR 1972 TOTAL 17,625.61 MEAN 48.2 MAX 356 MIN .33 CFSM 2.30 IN 31.22
WTR YR 1973 TOTAL 16,874.20 MEAN 46.2 MAX 420 MIN 0 CFSM 2.20 IN 29.89

NOTE.--No gage-height record
Apr. 2 to May 8.

NEUSE RIVER BASIN

02085070 Eno River near Durham, N. C.

LOCATION.--Lat 36°04'21", long 78°54'24", Durham County, on right bank 275 ft downstream from bridge on U. S. Highway 501, 0.2 mile downstream from Crooked Creek, and 5 miles north of Durham.

DRAINAGE AREA.--141 sq mi.

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 (from topographic map). Prior to Nov. 19, 1966, at site 275 ft upstream at datum 2.35 ft higher. Nov. 20, 1966 to Sept. 30, 1967 water-stage recorder and crest-stage gage at present site at datum 0.94 ft higher.

AVERAGE DISCHARGE.--10 years, 123 cfs (11.85 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,290 cfs Feb. 2 (gage height, 18.32 ft); minimum, 11 cfs Sept. 29 (gage height, 1.52 ft).

Period of record: Maximum discharge, 9,080 cfs Feb. 7, 1965 (gage height, 15.18 ft, site and datum then in use); minimum, 0.53 cfs Oct. 1, 5, 1968.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Water quality records for the current year are published in Part 2 of this report.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	48	455	313	195	313	2,100	200	83	218	95	28
2	71	48	228	203	4,570	215	749	120	74	322	121	26
3	45	45	168	165	1,940	1,260	408	180	65	153	344	25
4	37	43	138	499	598	846	318	260	58	155	637	25
5	597	43	125	362	428	640	263	180	53	344	138	24
6	686	43	148	233	291	698	215	130	49	135	88	23
7	338	40	158	188	240	566	198	100	49	93	72	22
8	196	614	125	178	215	615	1,200	130	49	74	58	23
9	94	292	143	175	235	746	600	310	47	68	45	21
10	64	141	148	160	198	464	300	160	47	63	40	20
11	52	96	131	153	168	335	230	119	45	94	34	24
12	46	78	113	150	148	473	200	99	41	281	83	26
13	43	67	109	138	140	309	180	88	77	111	85	26
14	42	216	295	129	153	233	150	81	87	74	58	35
15	39	279	3,040	155	178	208	140	80	55	96	47	28
16	38	132	1,630	278	155	260	130	77	58	83	41	24
17	38	1,080	530	230	127	662	120	72	58	66	35	26
18	57	598	295	198	115	512	120	74	309	63	260	21
19	74	278	225	180	113	253	110	68	119	60	243	19
20	44	1,330	198	203	115	210	110	81	68	54	93	18
21	40	548	278	160	113	278	100	92	371	47	121	17
22	37	240	1,180	243	109	617	96	71	121	58	190	16
23	35	173	707	481	105	512	94	65	160	66	78	16
24	33	131	504	228	99	295	92	107	103	51	58	15
25	33	148	322	175	95	233	110	85	121	47	59	14
26	32	879	243	150	121	393	300	72	74	44	53	14
27	32	468	218	278	617	526	1,300	69	60	38	42	14
28	94	223	190	371	720	260	800	468	155	140	37	13
29	128	165	163	740	-----	210	500	584	4,000	123	34	11
30	67	225	148	384	-----	215	300	183	539	50	32	17
31	52	-----	225	233	-----	615	-----	109	-----	58	30	-----
TOTAL	3,392	8,711	12,580	7,733	12,301	13,972	11,533	4,514	7,195	3,329	3,351	631
MEAN	109	290	406	249	439	451	384	146	240	107	108	21.0
MAX	686	1,330	3,040	740	4,570	1,260	2,100	584	4,000	344	637	35
MIN	32	40	109	129	95	208	92	65	41	38	30	11
CFSM	.77	2.06	2.88	1.77	3.11	3.20	2.72	1.04	1.70	.76	.77	.15
IN.	.89	2.30	3.32	2.04	3.25	3.69	3.04	1.19	1.90	.88	.88	.17

CAL YR 1972 TOTAL 65,862.4 MEAN 180 MAX 3,040 MIN 7.8 CFSM 1.28 IN 17.38
WTR YR 1973 TOTAL 89,242.0 MEAN 244 MAX 4,570 MIN 11 CFSM 1.73 IN 23.54

PEAK DISCHARGE (BASE, 2,300 CFS)

NOTE.--No gage-height record Apr. 8 to May 8.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1800	16.60	6,610	4- 1	0900	10.04	2,940
2- 2	4800	18.32	8,290	6-29	1030	16.62	6,630

NEUSE RIVER BASIN

47

02085220 Little River near Orange Factory, N. C.

LOCATION.--Lat 36°08'20", long 78°54'24", Durham County, on right bank 125 ft upstream from bridge on U. S. Highway 501, 1 mile upstream from Mountain Creek, and 1.2 miles northwest of Orange Factory.

DRAINAGE AREA.--81.6 sq mi.

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 above mean sea level (levels by North Carolina State Highway Commission).

AVERAGE DISCHARGE.--12 years, 71.7 cfs (11.93 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,760 cfs June 29 (gage height, 9.66 ft); minimum, 7.3 cfs Sept. 29 (gage height, 0.81 ft).

Period of record: Maximum discharge, 9,070 cfs Oct. 25, 1971 (gage height, 12.56 from high-water mark in well); minimum daily, 0.05 cfs Oct. 5, 6, 1968.

A field estimate of 0.03 cfs was made on Sept. 18, 19, 1954.

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	39	197	147	100	129	1,300	78	40	86	30	16
2	31	36	110	104	2,870	96	333	71	35	270	41	16
3	19	28	84	87	1,080	805	165	109	35	82	84	15
4	15	28	72	243	192	344	138	179	35	76	172	15
5	949	28	65	157	137	247	122	89	38	63	40	15
6	549	28	78	116	116	306	100	71	36	49	30	14
7	206	27	81	96	106	204	192	62	35	44	29	13
8	86	421	65	91	96	257	780	71	36	44	26	13
9	47	148	74	89	112	324	215	132	36	42	23	13
10	34	73	77	86	91	164	184	75	34	40	21	13
11	27	55	68	82	77	139	134	61	32	39	20	13
12	25	45	60	82	70	159	109	57	32	55	23	12
13	24	40	58	75	67	124	97	52	38	37	38	12
14	24	120	83	72	70	104	88	50	34	34	26	13
15	24	128	1,640	89	79	97	82	49	32	30	26	19
16	24	65	817	157	72	135	79	47	32	26	20	16
17	23	803	176	114	62	364	77	46	32	21	18	13
18	23	244	126	96	57	187	75	46	35	18	94	12
19	26	134	106	92	56	121	74	44	36	16	82	11
20	32	1,060	96	100	57	102	71	45	39	14	36	10
21	30	195	130	82	57	159	70	44	110	12	31	9.7
22	27	113	770	160	55	324	67	41	48	11	36	9.4
23	27	84	296	189	53	224	67	39	67	46	26	9.0
24	27	70	198	108	51	141	66	42	44	18	23	8.7
25	29	75	142	91	49	120	67	41	42	14	26	8.3
26	29	565	119	80	53	145	86	39	40	14	21	8.0
27	28	165	112	155	424	174	1,100	46	43	14	19	7.7
28	68	104	96	181	348	122	344	210	50	20	18	7.8
29	68	81	84	369	-----	101	122	167	2,400	29	18	7.6
30	41	117	79	150	-----	110	92	70	144	15	17	8.1
31	39	-----	123	116	-----	320	-----	50	-----	16	17	-----
TOTAL	2,081	5,119	6,282	3,856	6,657	6,348	6,496	2,223	3,690	1,295	1,131	358.3
MEAN	86.1	171	203	124	238	205	217	71.7	123	41.8	36.5	11.9
MAX	949	1,060	1,640	369	2,870	805	1,300	210	2,400	270	172	19
MIN	15	27	58	72	49	96	66	39	32	11	17	7.6
CFSM	1.06	2.10	2.49	1.52	2.92	2.51	2.66	.88	1.51	.51	.45	.15
IN.	1.23	2.33	2.86	1.76	3.03	2.89	2.96	1.01	1.68	.59	.52	.16

CAL YR 1972 TOTAL 35,934.9 MEAN 98.2 MAX 2,200 MIN 4.2 CFSM 1.20 IN 16.38
WTR YR 1973 TOTAL 46,143.3 MEAN 126 MAX 2,870 MIN 7.6 CFSM 1.54 IN 21.04

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 5	1730	6.02	2,470	4- 1	0730	5.17	1,870
11-20	0530	4.78	1,620	4-27	0600	5.10	1,820
12-15	1500	7.37	3,550	6-29	0630	9.66	5,760
2- 2	1630	9.46	5,560				

NEUSE RIVER BASIN

02085500 Flat River at Bahama, N. C.

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

DRAINAGE AREA.--150 sq mi.

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

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

AVERAGE DISCHARGE.--48 years, 141 cfs (12.77 inches per year).

EXTREMES.--Current year: Maximum discharge, 10,500 cfs Feb. 2 (gage height, 9.80 ft); minimum, 10 cfs Sept. 27-29, 30 (gage height, 1.20 ft).

Period of record: Maximum discharge, about 20,000 cfs July 26, 1938 (gage height, not determined), computed on basis of records for nearby stations; minimum, 0.23 cfs 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 miles upstream.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	248	73	539	298	184	303	2,560	176	68	128	68	31
2	80	103	266	195	5,620	216	839	149	61	1,010	134	30
3	48	96	194	158	2,060	1,450	426	180	57	223	520	27
4	36	82	163	606	521	816	327	325	53	134	500	24
5	3,630	73	144	357	349	621	273	163	47	109	114	24
6	2,570	68	170	239	273	628	211	122	43	79	61	24
7	980	61	194	186	238	472	257	107	41	65	48	23
8	350	1,100	138	168	210	657	1,680	119	41	61	42	23
9	184	408	156	166	264	842	535	230	39	59	38	21
10	119	193	199	156	198	418	495	132	38	66	34	19
11	91	137	157	150	159	326	334	100	36	63	30	20
12	80	106	130	150	141	406	250	86	34	91	29	20
13	75	88	122	132	133	284	213	78	43	63	89	20
14	69	318	280	122	135	219	184	72	43	52	51	23
15	64	336	2,650	150	164	195	166	71	37	43	44	24
16	59	153	1,940	298	167	307	155	68	35	41	35	24
17	59	1,520	452	201	133	890	146	65	38	43	31	24
18	57	679	288	165	109	451	141	64	66	42	3,750	22
19	56	340	234	156	106	260	134	62	76	42	591	19
20	75	2,380	208	177	108	206	126	61	70	37	198	17
21	68	555	204	139	108	324	118	63	110	34	136	15
22	56	305	1,560	270	102	833	111	59	70	32	250	14
23	53	219	693	421	96	679	106	56	72	91	119	13
24	51	170	450	213	91	344	101	55	72	66	73	12
25	51	163	311	161	87	261	103	56	59	48	69	11
26	51	1,240	249	140	88	342	192	60	56	36	57	11
27	50	452	232	280	768	739	2,520	57	42	32	51	10
28	227	264	193	324	735	353	890	492	65	31	45	10
29	212	199	161	801	-----	248	327	368	2,200	38	39	10
30	109	279	145	326	-----	242	218	139	258	34	36	11
31	82	-----	232	220	-----	802	-----	86	-----	36	34	-----
TOTAL	9,940	12,160	13,054	7,525	13,347	15,134	14,138	3,921	3,970	2,929	7,316	576
MFAN	321	405	421	243	477	488	471	126	132	94.5	236	19.2
MAX	3,630	2,380	2,650	801	5,620	1,450	2,560	492	2,200	1,010	3,750	31
MIN	36	61	122	122	87	195	101	55	34	31	29	10
CFSM	2.14	2.70	2.81	1.62	3.18	3.25	3.14	.84	.88	.63	1.57	.13
IN.	2.47	3.02	3.24	1.87	3.31	3.75	3.51	.97	.98	.73	1.81	.14

CAL YR 1972 TOTAL 73,003.6 MEAN 199 MAX 3,630 MIN 7.2 CFSM 1.33 IN 18.10
WTR YR 1973 TOTAL 104,010.0 MEAN 285 MAX 5,620 MIN 10 CFSM 1.90 IN 25.79

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-5	2130	9.32	9,260	4-27	1000	6.84	4,510
12-15	1800	7.62	5,790	6-29	0400	7.37	5,350
2-2	1600	9.80	10,500	8-18	1600	9.22	9,040

NEUSE RIVER BASIN

49

02087000 Neuse River near Northside, N. C.

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

DRAINAGE AREA.--526 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 225.91 ft above mean sea level. Prior to June 2, 1928, non-recording gage at site 10 ft upstream at same datum. Mar. 25, 1949, to Sept. 28, 1950, auxiliary non-recording gage, and Sept. 29, 1950, to Jan. 14, 1968, auxiliary water-stage recorder at bridge on U. S. Highway 15, 4 miles 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 miles downstream.

AVERAGE DISCHARGE.--46 years, 517 cfs (13.35 inches per year).

EXTREMES.--Current year: Maximum discharge, 13,300 cfs Feb. 3 (gage height, 24.12 ft); minimum, 39 cfs Sept. 29 (gage height, 1.53 ft).

Period of record: Maximum discharge, 36,600 cfs Sept. 18, 1945; maximum gage height, 31.02 ft Sept. 18, 1945, from floodmark; minimum discharge, 3.1 cfs Sept. 30, 1932 (gage height, 0.87 ft).

REMARKS.--Records good. Slight diurnal fluctuation caused by water plants above station. Flow regulated by Lake Michie (see p. 146). An average of 25.4 cfs was diverted from Flat River, an upstream tributary, for Durham municipal water supply, and an average of 3.1 cfs from Knap of Reeds Creek, an upstream tributary for Butner municipal water supply. Sewage effluent from Durham (about 11.2 cfs) and Butner was returned to Neuse River 3 miles upstream from station, and the remainder, about 11.3 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,230	190	1,500	1,120	695	2,200	3,640	705	307	3,810	986	173
2	305	159	1,190	870	2,620	1,020	5,790	531	250	2,070	626	136
3	198	188	772	643	10,600	2,020	4,220	492	210	1,240	395	128
4	149	171	606	808	9,950	4,420	2,150	1,260	195	662	1,860	130
5	689	154	534	1,460	4,370	3,960	1,080	901	186	596	1,010	165
6	3,720	149	499	920	2,240	2,510	798	536	208	466	375	162
7	5,010	148	612	702	1,360	1,710	774	438	205	305	276	160
8	2,910	1,540	543	593	1,000	1,280	2,970	409	201	244	236	165
9	1,200	2,720	505	610	776	2,530	4,030	956	165	218	191	156
10	433	1,330	576	571	742	1,990	2,500	730	150	242	192	93
11	242	559	574	542	619	1,120	1,270	465	151	250	186	63
12	192	395	481	552	554	1,340	851	362	179	442	138	65
13	152	309	432	500	513	1,170	729	306	188	385	379	69
14	143	600	1,160	459	532	832	627	278	224	235	276	189
15	156	1,260	2,610	504	736	713	571	267	183	192	218	186
16	123	716	7,320	868	664	744	535	252	132	343	184	91
17	156	1,850	7,610	874	544	1,270	494	236	121	237	169	74
18	116	3,540	3,330	702	457	2,180	474	246	323	250	776	73
19	184	3,100	1,780	623	422	1,060	457	222	349	199	2,770	62
20	174	3,110	954	648	419	734	435	214	192	207	1,910	57
21	140	4,210	793	596	419	770	403	332	398	169	556	53
22	127	3,680	2,710	585	409	1,770	384	252	431	142	1,050	50
23	108	1,360	4,120	1,300	386	2,150	358	217	427	214	636	46
24	142	675	3,720	956	363	1,290	351	298	332	259	334	51
25	110	543	1,880	640	344	879	338	396	230	138	252	47
26	130	2,040	970	520	384	893	386	252	203	108	239	47
27	119	3,090	850	718	840	1,660	2,130	199	140	97	191	46
28	289	1,590	744	1,130	2,720	1,380	4,600	403	176	124	204	44
29	418	801	619	1,410	-----	863	3,560	1,830	3,450	304	195	43
30	279	717	551	1,950	-----	740	1,560	956	6,880	204	175	53
31	226	-----	662	1,010	-----	1,240	-----	454	-----	105	175	-----
TOTAL	19,570	40,894	51,207	25,384	45,678	48,438	48,465	15,395	16,786	14,457	17,160	2,877
MEAN	631	1,363	1,652	819	1,631	1,563	1,616	497	560	466	554	95.9
MAX	5,010	4,210	7,610	1,950	10,600	4,420	5,790	1,830	6,880	3,810	2,770	189
MIN	108	148	432	459	344	713	338	199	121	97	138	43
CFSM	1.20	2.59	3.14	1.56	3.10	2.97	3.07	.94	1.06	.89	1.05	.18
IN.	1.38	2.89	3.62	1.80	3.23	3.43	3.43	1.09	1.19	1.02	1.21	.20

CAL YR 1972 TOTAL 248,235 MEAN 678 MAX 7,610 MIN 27 CFSM 1.29 IN 17.56
WTR YR 1973 TOTAL 346,311 MEAN 949 MAX 10,600 MIN 43 CFSM 1.80 IN 24.49

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 7	0600	18.96	5,710	4- 2	1800	19.17	6,150
12-17	0100	22.30	9,780	4-28	2000	17.77	5,100
2- 3	1800	24.12	13,300	6-30	1400	20.75	7,720
3- 4	2300	17.65	5,020				

NEUSE RIVER BASIN

02087183 Neuse River near Falls, N. C.

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

DRAINAGE AREA.--770 sq mi.

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

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

EXTREMES.--Current year: Maximum discharge, 11,200 cfs June 29 (gage height, 23.02 ft); minimum, 36 cfs Sept. 29 (gage height, 2.03 ft).

Period of record: Maximum discharge, 11,200 cfs June 29, 1973 (gage height, 23.02 ft); minimum, 7.2 cfs Oct. 12, 13, 1971 (gage height, 1.62 ft).

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 21.0 cfs 1.2 miles upstream from station for municipal water supply, most of which was returned downstream as sewage effluent. Water quality records collected 0.3 mile upstream from station are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,600	277	1,680	1,610	1,370	3,450	5,190	2,590	528	7,080	549	174
2	1,600	246	2,240	1,660	4,920	3,010	5,630	937	380	7,350	1,180	176
3	500	216	1,480	1,240	8,860	1,860	6,200	772	305	6,040	636	145
4	250	242	1,030	1,190	9,480	3,800	6,030	1,340	263	3,420	1,480	129
5	350	208	835	2,090	10,300	4,660	4,350	1,860	233	964	2,340	125
6	2,640	192	720	1,810	9,530	5,130	1,740	1,060	229	842	874	160
7	4,230	184	745	1,270	7,590	4,860	1,510	695	250	576	415	156
8	5,110	1,740	810	1,050	5,040	3,970	3,540	567	245	435	300	156
9	5,080	3,400	699	1,010	2,060	2,860	4,390	972	235	382	255	149
10	2,560	3,600	744	974	1,380	3,270	4,690	1,410	109	368	211	145
11	477	1,870	808	913	1,140	2,440	3,830	856	191	368	219	105
12	289	774	732	904	1,030	2,340	1,940	564	180	501	225	72
13	234	546	602	862	975	1,750	1,260	438	229	624	444	64
14	183	606	1,770	765	950	1,290	1,070	378	245	426	450	133
15	187	1,770	4,400	780	1,200	1,130	937	353	258	330	328	255
16	183	1,680	6,840	1,260	1,190	1,300	860	328	207	418	260	165
17	167	2,310	7,640	1,610	950	2,240	807	310	172	456	213	112
18	182	3,900	8,690	1,350	702	2,700	755	315	270	332	408	91
19	153	4,550	7,990	1,170	618	1,600	706	295	513	310	2,220	81
20	221	5,480	6,210	1,120	609	1,130	664	343	353	248	3,280	80
21	186	5,120	3,090	1,050	612	1,540	636	765	330	248	1,820	70
22	170	5,040	3,220	920	549	2,710	585	423	930	211	1,170	56
23	151	4,590	4,440	1,530	522	2,940	555	313	884	207	1,370	64
24	140	2,150	4,890	1,870	483	2,170	510	429	776	285	671	52
25	159	980	4,650	1,210	426	1,420	501	996	1,160	252	393	52
26	139	2,350	3,060	871	390	1,490	498	549	400	160	308	56
27	162	3,530	1,570	897	579	2,370	2,060	360	275	136	258	45
28	262	3,650	1,300	1,630	2,260	2,280	3,940	363	330	142	217	52
29	859	2,080	1,100	2,790	-----	1,470	4,720	1,840	7,590	183	217	48
30	651	1,100	948	3,340	-----	1,230	4,770	2,280	7,280	330	191	56
31	356	-----	948	2,530	-----	2,320	-----	1,000	-----	167	172	-----
TOTAL	29,431	64,381	85,881	43,276	75,715	76,730	74,874	25,701	25,440	33,791	23,074	3,224
MEAN	949	2,146	2,770	1,396	2,704	2,475	2,496	829	848	1,090	744	107
MAX	5,110	5,480	8,690	3,340	10,300	5,130	6,200	2,590	7,590	7,350	3,280	255
MIN	139	184	602	765	390	1,130	498	295	172	136	172	45
CFSM	1.23	2.79	3.60	1.81	3.51	3.21	3.24	1.08	1.10	1.42	.97	.14
IN.	1.42	3.11	4.15	2.09	3.66	3.71	3.62	1.24	1.23	1.63	1.11	.16

CAL YR 1972 TOTAL 389,097 MEAN 1,063 MAX 8,690 MIN 26 CFSM 1.38 IN 18.80
WTR YR 1973 TOTAL 561,518 MEAN 1,538 MAX 10,300 MIN 45 CFSM 2.00 IN 27.13

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 9	0200	15.92	5,310	3- 6	1330	15.69	5,180
11-20	0930	16.63	5,740	4- 3	1900	17.49	6,340
12-18	1200	20.28	8,750	4-10	0930	14.87	4,730
2- 2	2000	22.65	10,900	4-30	0100	15.29	4,960
2- 5	0830	22.10	10,400	6-29	1030	23.02	11,200

NEUSE RIVER BASIN

51

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 miles upstream from Mill Creek, and 3 miles east of Clayton.

DRAINAGE AREA.--1,140 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--46 years, 1,190 cfs (14.18 inches per year).

EXTREMES.--Current year: Maximum discharge, 15,900 cfs Feb. 4 (gage height, 17.93 ft); minimum, 150 cfs Sept. 30 (gage height, 1.25 ft).

Period of record: Maximum discharge, 22,900 cfs Sept. 19, 1945 (gage height, 22.12 ft); minimum, 44 cfs Sept. 15, 1932 (gage height, 0.28 ft, site then in use).

Flood of July 23, 1919, reached a stage of 21.15 ft, from floodmark at former site (discharge, 21,200 cfs).

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. 148), a downstream tributary, an average of 10.8 cfs, and from the Neuse River upstream from station an average of 21.0 cfs, 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,660	514	1,560	1,750	2,300	3,140	4,820	4,530	1,000	12,500	420	304
2	1,870	455	2,110	2,050	4,480	3,480	7,400	2,200	716	9,200	1,050	299
3	956	415	2,050	1,780	12,600	2,840	6,610	1,160	590	7,530	1,170	292
4	554	410	1,480	1,620	15,200	4,820	6,080	1,750	508	6,670	1,800	264
5	430	410	1,200	1,840	11,800	4,850	6,230	2,000	465	3,720	2,390	247
6	3,540	370	1,080	2,270	10,600	5,000	5,400	1,680	440	1,660	1,840	243
7	6,360	385	1,030	1,800	10,400	5,220	2,440	1,120	445	1,110	839	275
8	4,920	2,530	1,050	1,480	9,460	4,880	4,420	920	460	814	575	271
9	4,700	3,700	1,080	1,390	7,050	3,660	4,980	1,010	492	658	471	267
10	4,630	3,580	1,020	1,350	2,650	3,220	4,700	1,510	497	592	418	263
11	1,980	3,000	1,050	1,290	1,960	3,460	4,780	1,370	410	574	381	264
12	704	1,320	1,200	1,270	1,710	3,180	3,940	956	390	761	384	224
13	524	896	1,080	1,230	1,520	2,930	2,010	758	415	780	502	192
14	450	884	1,920	1,150	1,510	2,390	1,560	650	503	765	780	277
15	385	1,470	5,080	1,120	2,130	1,810	1,380	608	470	620	607	526
16	370	1,950	8,150	1,440	2,120	1,560	1,260	578	470	1,150	487	436
17	375	2,740	9,220	1,850	1,710	1,530	1,170	548	578	861	419	305
18	357	4,380	8,020	1,870	1,410	1,960	1,090	602	1,470	806	736	254
19	357	4,150	7,950	1,620	1,230	2,640	1,030	554	818	587	1,540	246
20	352	6,340	8,230	1,580	1,140	2,120	980	614	776	509	2,480	218
21	395	7,310	7,530	1,450	1,110	1,530	926	1,170	818	449	2,790	206
22	357	5,980	5,660	1,360	1,060	1,950	872	980	1,200	434	1,500	197
23	339	5,140	5,140	1,550	1,000	2,640	824	674	4,060	399	1,470	176
24	344	4,560	5,030	2,010	944	2,920	794	620	2,160	417	1,180	177
25	519	2,110	5,060	1,810	884	2,500	776	1,030	2,280	477	704	172
26	390	2,730	4,820	1,350	944	1,740	788	1,070	1,600	409	515	170
27	334	3,790	3,130	1,250	1,500	1,720	2,290	740	835	339	437	175
28	390	3,710	1,880	1,540	2,430	2,270	4,490	608	688	494	398	161
29	830	3,500	1,640	2,890	-----	2,320	4,270	1,370	2,580	388	361	164
30	974	1,930	1,440	3,350	-----	1,710	4,510	2,450	10,200	452	354	155
31	674	-----	1,440	3,330	-----	1,810	-----	1,900	-----	463	323	-----
TOTAL	41,020	80,659	108,330	53,640	112,852	87,800	92,820	37,730	38,334	56,588	29,321	7,420
MEAN	1,323	2,689	3,495	1,730	4,030	2,832	3,094	1,217	1,278	1,825	946	247
MAX	6,360	7,310	9,220	3,350	15,200	5,220	7,400	4,530	10,200	12,500	2,790	526
MIN	334	370	1,020	1,120	884	1,530	776	548	390	339	323	155
CFSM	1.16	2.36	3.07	1.52	3.54	2.48	2.71	1.07	1.12	1.60	.83	.22
IN.	1.34	2.63	3.53	1.75	3.68	2.87	3.03	1.23	1.25	1.85	.96	.24

CAL YR 1972 TOTAL 522,450 MEAN 1,427 MAX 9,220 MIN 161 CFSM 1.25 IN 17.05
WTR YR 1973 TOTAL 746,514 MEAN 2,045 MAX 15,200 MIN 155 CFSM 1.79 IN 24.36

PEAK DISCHARGE (BASE, 7,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-21	0430	11.42	7,520	4- 2	1800	11.60	7,700
12-17	0900	13.14	9,470	7- 1	0300	16.13	13,400
2- 4	0500	17.93	15,900				

NEUSE RIVER BASIN

02087570 Neuse River at Smithfield, N. C.

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

DRAINAGE AREA.--1,200 sq mi, 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 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, 15,300 cfs Feb. 5 (gage height, 23.65 ft); minimum, 141 cfs Sept. 30 (gage height, 3.40 ft).

Period of record: Maximum discharge, 15,300 cfs Feb. 5, 1973 (gage height, 23.65 ft); minimum observed, 72 cfs Oct. 15, 1970 (gage height, 2.86 ft); minimum gage height observed, 2.38 ft Sept. 26, 1968.

Flood in August 1908 reached a stage of 27.1 ft (discharge, 19,900 cfs); July 24, 1919, 26.8 ft (discharge, 19,400 cfs); Oct. 3, 1929, 26.4 ft (discharge, 18,700 cfs); Sept. 20, 1945, 25.9 ft (discharge, 17,900 cfs), 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. 148), a downstream tributary, an average of 10.8 cfs, and from Neuse River upstream from station an average of 21.0 cfs, most of which was returned as sewage effluent upstream from station. The city of Smithfield diverted an average of 1.8 cfs 0.2 mile 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,820	636	2,160	1,930	3,200	3,130	4,280	5,330	1,310	9,160	447	330
2	2,060	534	2,160	2,330	3,290	3,630	6,980	4,340	867	10,200	744	315
3	1,350	489	2,410	2,240	7,600	3,510	8,320	1,920	717	9,110	1,280	315
4	767	449	1,840	1,920	13,200	4,370	8,120	1,680	633	8,170	1,430	289
5	569	456	1,380	1,980	14,600	5,560	7,740	1,970	580	7,040	2,180	266
6	1,530	432	1,210	2,510	12,200	5,790	7,420	2,040	546	3,770	2,310	251
7	4,530	403	1,170	2,350	10,900	6,100	5,100	1,380	519	1,660	1,150	271
8	5,870	1,100	1,130	1,850	10,400	6,180	4,510	1,070	531	984	686	283
9	5,300	3,320	1,170	1,650	9,480	5,540	5,840	1,080	545	788	554	276
10	4,960	3,810	1,140	1,570	6,990	4,300	6,020	1,400	577	714	485	277
11	3,520	3,920	1,130	1,500	3,380	3,950	5,750	1,570	511	651	433	271
12	1,020	2,860	1,230	1,470	2,080	3,970	5,410	1,140	468	759	442	255
13	655	1,250	1,230	1,420	1,600	3,700	3,210	915	460	870	453	211
14	546	933	1,420	1,330	1,490	3,220	1,680	798	544	860	744	211
15	468	1,250	3,830	1,280	2,520	2,550	1,680	747	544	765	673	512
16	434	1,860	6,700	1,510	2,770	1,980	1,460	711	539	1,380	548	485
17	439	2,440	8,940	1,970	2,420	1,750	1,350	678	620	1,170	477	385
18	408	4,000	9,890	2,180	1,940	1,980	1,250	706	1,230	1,200	497	294
19	415	4,700	9,480	1,970	1,590	2,610	1,180	692	995	813	1,250	261
20	396	5,670	9,160	1,840	1,400	2,630	1,120	669	841	630	2,070	249
21	425	7,480	9,990	1,660	1,330	1,850	1,070	1,060	912	538	2,660	218
22	405	8,220	9,480	1,600	1,290	2,010	1,030	1,190	1,120	510	1,980	206
23	381	7,620	7,340	1,800	1,210	2,640	972	846	4,270	468	1,310	188
24	389	6,760	6,670	2,110	1,150	3,060	942	736	5,510	461	1,330	179
25	536	5,000	6,430	2,210	1,080	2,990	912	936	4,590	501	853	177
26	482	3,200	6,280	1,640	1,070	2,230	924	1,240	4,090	495	606	166
27	396	4,060	5,510	1,370	1,540	1,880	1,620	915	2,200	396	497	173
28	396	4,300	3,370	1,560	2,460	2,240	3,950	750	929	489	451	166
29	692	4,390	2,220	2,550	-----	2,580	4,760	1,240	1,280	445	402	155
30	1,030	3,450	1,700	3,500	-----	2,130	5,030	2,370	5,120	443	386	154
31	882	-----	1,670	3,600	-----	2,040	-----	2,400	-----	540	365	-----
TOTAL	43,071	94,992	127,440	60,400	124,180	102,100	109,630	44,519	43,598	65,980	29,693	7,789
MEAN	1,389	3,166	4,111	1,948	4,435	3,294	3,654	1,436	1,453	2,128	958	260
MAX	5,870	8,220	9,890	3,600	14,600	6,180	8,320	5,330	5,510	10,200	2,660	512
MIN	381	403	1,130	1,280	1,070	1,750	912	669	460	396	365	154
CFSM	1.16	2.64	3.43	1.62	3.70	2.75	3.05	1.20	1.21	1.77	.80	.22
IN.	1.34	2.94	3.95	1.87	3.85	3.17	3.40	1.38	1.35	2.05	.92	.24

CAL YR 1972 TOTAL 608,525 MEAN 1,663 MAX 9,890 MIN 157 CFSM 1.39 IN 18.86
WTR YR 1973 TOTAL 853,392 MEAN 2,338 MAX 14,600 MIN 154 CFSM 1.95 IN 26.46

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-22	0900	18.59	8,310	3- 8	0100	16.70	6,230
12-18	0830	19.97	9,960	4- 3	1400	18.70	8,440
2- 5	0130	23.65	15,300	7- 2	0200	20.41	10,500

NEUSE RIVER BASIN

53

02088000 Middle Creek near Clayton, N. C.

LOCATION.--Lat 35°34'12", long 78°35'30", Johnston County, on right bank 300 ft downstream from bridge on State Highway 50, 0.5 mile upstream from Buffalo Branch, 3.7 miles downstream from Wake-Johnston County line, and 9.5 miles southwest of Clayton.

DRAINAGE AREA.--80.7 sq mi.

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 above mean sea level. Nov. 1-20, 1939, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--34 years, 93.9 cfs (15.80 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,510 cfs Feb. 3 (gage height, 13.42 ft, result of dam failure); minimum, 5.5 cfs Sept. 30; minimum gage height, 1.47 ft Sept. 7, 8.
Period of record: Maximum discharge, 8,510 cfs Feb. 3, 1973 (gage height, 13.42 ft, result of dam failure); no flow Oct. 11-13, 1954.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	37	129	216	139	187	565	99	53	92	19	8.2
2	56	34	113	170	1,760	145	872	84	44	62	19	7.7
3	38	33	96	140	4,870	214	520	79	39	54	18	7.4
4	31	33	87	182	955	434	257	115	35	51	31	7.2
5	27	32	82	187	437	457	212	116	32	53	61	7.0
6	154	31	86	181	270	270	161	81	30	50	32	7.0
7	171	30	99	175	233	196	176	68	28	46	23	6.9
8	94	161	85	162	211	175	526	62	28	39	19	6.7
9	50	316	87	183	208	165	583	94	28	36	16	7.7
10	37	224	101	170	199	153	352	137	29	33	14	7.7
11	31	85	98	160	196	151	189	87	30	31	13	7.9
12	28	67	94	162	186	250	155	63	28	36	14	7.9
13	26	58	106	150	176	248	141	53	28	31	22	7.4
14	26	60	214	140	199	175	127	48	29	28	25	11
15	25	75	572	150	339	151	119	46	28	112	18	20
16	24	65	1,390	212	339	140	112	44	33	123	17	14
17	26	201	870	224	218	142	108	41	42	90	13	10
18	25	339	399	207	169	141	104	52	53	72	12	9.4
19	23	309	202	191	157	121	101	47	40	35	13	13
20	25	562	162	198	153	112	96	53	38	28	16	15
21	26	594	155	171	149	122	90	88	98	23	15	10
22	24	397	399	166	142	188	85	63	376	20	17	8.6
23	23	162	564	203	136	183	81	49	1,600	18	16	7.7
24	27	117	435	162	130	135	77	46	1,000	17	14	7.2
25	56	106	257	132	122	116	75	64	380	16	13	6.9
26	47	227	197	120	130	122	78	51	126	15	12	6.7
27	37	348	177	145	168	120	223	47	114	15	11	6.5
28	35	323	159	174	216	110	476	46	89	20	10	6.2
29	69	145	143	244	-----	101	414	248	205	18	9.6	6.2
30	54	120	139	250	-----	110	135	148	153	16	8.9	5.7
31	42	-----	191	165	-----	190	-----	76	-----	15	8.6	-----
TOTAL	1,504	5,291	7,888	5,492	12,607	5,524	7,210	2,395	4,836	1,295	550.1	260.8
MEAN	48.5	176	254	177	450	178	240	77.3	161	41.8	17.7	8.69
MAX	171	594	1,390	250	4,870	457	872	248	1,600	123	61	20
MIN	23	30	82	120	122	101	75	41	28	15	8.6	5.7
CFSM	.60	2.18	3.15	2.19	5.58	2.21	2.97	.96	2.00	.52	.22	.11
IN.	.69	2.44	3.64	2.53	5.81	2.55	3.32	1.10	2.23	.60	.25	.12

CAL YR 1972 TOTAL 36,343.8 MEAN 99.3 MAX 1,390 MIN 6.8 CFSM 1.23 IN 16.75
WTR YR 1973 TOTAL 54,852.9 MEAN 150 MAX 4,870 MIN 5.7 CFSM 1.86 IN 25.29

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-20	1330	7.58	716	4- 2	0600	8.38	944
12-16	0830	9.88	1,630	4- 8	2400	7.19	640
12-23	0500	6.97	601	6-23	0100	10.65	2,160
2- 3	0130	13.42	8,510				

NEUSE RIVER BASIN

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 mile downstream from Buffalo Creek, and 3.7 miles west of Kenly.

DRAINAGE AREA.--190 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--9 years, 179 cfs (12.79 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,260 cfs Feb. 5 (gage height, 13.87 ft); minimum, 10 cfs Sept. 9 (gage height, 3.56 ft).
Period of record: Maximum discharge, 5,030 cfs Oct. 6, 1964 (gage height, 16.30 ft); minimum, 0.18 cfs Oct. 4, 5, 6, 1968.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Some diurnal fluctuation and some regulation during periods of low flow caused by mill 10 miles upstream. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	47	316	348	273	454	1,050	400	236	215	34	17
2	149	47	277	322	558	416	1,310	190	169	546	29	16
3	126	45	237	292	1,400	392	1,190	170	117	500	27	15
4	91	44	210	287	1,860	569	1,030	150	90	198	34	14
5	63	44	190	274	2,200	636	910	180	76	215	39	14
6	75	44	179	270	1,820	580	540	210	93	190	72	13
7	142	42	182	259	1,030	521	460	220	65	160	79	12
8	171	95	172	251	586	433	680	170	56	153	54	12
9	186	223	166	256	487	380	1,200	170	53	94	39	11
10	159	234	170	270	460	368	1,100	140	62	65	32	13
11	108	201	175	280	400	335	620	124	68	53	28	16
12	72	171	172	270	380	394	430	112	59	62	30	16
13	57	142	175	253	360	503	320	95	51	75	27	17
14	49	120	199	237	387	450	270	80	48	86	24	20
15	45	119	354	239	778	390	240	73	53	64	26	20
16	43	114	839	291	842	335	210	75	67	141	28	17
17	40	181	1,210	315	630	286	200	68	68	132	30	15
18	38	285	1,220	320	474	258	190	68	107	146	24	17
19	37	289	930	316	385	233	180	72	207	87	23	20
20	36	422	552	320	322	208	170	74	189	59	36	19
21	36	640	368	289	286	200	160	98	169	45	53	17
22	37	758	449	281	266	250	150	169	150	36	40	15
23	34	741	496	377	246	290	140	237	862	30	32	14
24	35	582	476	336	229	299	130	249	950	28	29	13
25	42	374	477	285	213	282	120	188	610	29	26	13
26	58	342	425	252	218	254	130	150	360	30	24	12
27	65	360	363	246	318	242	220	142	201	27	22	12
28	57	361	309	252	446	222	430	138	138	26	20	12
29	56	349	268	340	-----	204	400	274	161	37	20	12
30	53	333	251	331	-----	206	370	321	148	38	18	12
31	51	-----	309	294	-----	327	-----	311	-----	39	18	-----
TOTAL	2,311	7,749	12,116	8,953	17,854	10,917	14,550	5,118	5,683	3,606	1,017	446
MEAN	74.5	258	391	289	638	352	485	165	189	116	32.8	14.9
MAX	186	758	1,220	377	2,200	636	1,310	400	950	546	79	20
MIN	34	42	166	237	213	200	120	68	48	26	18	11
CFSM	.39	1.36	2.06	1.52	3.36	1.85	2.55	.87	.99	.61	.17	.08
IN.	.45	1.52	2.37	1.75	3.50	2.14	2.85	1.00	1.11	.71	.20	.09

CAL YR 1972 TOTAL 67,557 MEAN 185 MAX 1,220 MIN 19 CFSM .97 IN 13.23
WTR YR 1973 TOTAL 90,320 MEAN 247 MAX 2,200 MIN 11 CFSM 1.30 IN 17.68

PEAK DISCHARGE (BASE, 1,000 CFS)

NOTE.--No gage-height record, Apr. 5 to May 10.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	2100	12.53	1,310	4- 9	Unknown	Unknown	Unknown
2- 5	1400	13.87	2,260	6-23	2330	11.60	1,230
4- 2	1400	11.97	1,340				

NEUSE RIVER BASIN

55

02088500 Little River near Princeton, N. C.

LOCATION.--Lat 35°30'40", long 78°09'36", Johnston County, on left bank 600 ft downstream from bridge on Secondary Road 2320, 0.8 mile upstream from Little Creek, and 3 miles north of Princeton.

DRAINAGE AREA.--229 sq mi.

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 above mean sea level. Prior to Nov. 17, 1934, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--43 years, 253 cfs (15.00 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,160 cfs Feb. 6 (gage height, 10.80 ft); minimum, 12 cfs Sept. 9, 10, 11, 12, minimum gage height, 1.07 ft Sept. 12.

Period of record: Maximum discharge, 7,150 cfs Oct. 6, 1964 (gage height, 13.94 ft); minimum, 1.0 cfs several times in September and October 1932, Oct. 10, 11, 1968.

Flood of July 1919 reached a stage of 14.57 ft; September 1924, 14.90 ft; September 1928, 13.3 ft; October 1929, 13.47 ft; 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. Water quality records for the current year are published in Part 2 of this report.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	59	515	493	391	500	1,060	422	295	166	41	22
2	160	55	449	501	717	600	1,580	301	220	442	37	21
3	156	53	362	433	1,590	470	1,530	210	143	601	36	20
4	128	51	306	414	1,800	620	1,290	183	100	295	51	19
5	73	50	270	409	1,930	700	1,080	208	82	219	46	17
6	118	49	253	392	2,130	820	783	230	87	308	64	16
7	175	49	258	385	1,740	720	589	244	92	187	88	15
8	207	103	242	361	876	620	1,160	209	68	169	71	14
9	228	278	230	361	644	540	1,500	195	56	122	47	13
10	213	295	230	376	598	470	1,370	192	54	74	36	14
11	145	288	237	376	557	400	1,030	155	65	61	30	12
12	80	239	235	388	500	560	754	131	61	63	29	12
13	58	198	232	373	470	720	546	111	52	70	43	13
14	46	159	251	342	600	600	403	94	46	94	28	17
15	41	145	464	340	820	500	331	84	44	83	25	18
16	39	141	943	429	900	450	291	80	58	131	28	18
17	40	235	1,290	496	800	390	266	78	75	166	29	18
18	40	407	1,460	503	740	360	249	75	112	184	29	17
19	42	414	1,420	496	580	320	231	74	178	124	28	24
20	43	586	1,040	512	460	290	215	80	233	79	27	24
21	41	800	641	459	370	280	200	93	252	59	43	20
22	44	865	602	411	330	300	184	147	200	48	53	18
23	43	925	721	457	310	320	170	232	536	39	39	17
24	42	833	710	462	290	360	154	289	1,060	36	36	17
25	50	614	664	437	270	400	145	272	684	33	30	16
26	60	561	632	358	340	290	161	183	361	36	28	16
27	80	588	562	342	430	305	268	157	266	34	27	15
28	76	549	479	380	480	284	468	148	166	32	27	15
29	71	512	403	527	-----	255	426	421	159	32	26	14
30	66	512	343	574	-----	252	407	463	198	43	24	14
31	63	-----	376	462	-----	387	-----	393	-----	42	23	-----
TOTAL	2,732	10,613	16,820	13,249	21,663	14,083	18,841	6,154	6,003	4,072	1,169	506
MEAN	88.1	354	543	427	774	454	628	199	200	131	37.7	16.9
MAX	228	925	1,460	574	2,130	820	1,580	463	1,060	601	88	24
MIN	39	49	230	340	270	252	145	74	44	32	23	12
CFSM	.38	1.55	2.37	1.86	3.38	1.98	2.74	.87	.87	.57	.16	.07
IN.	.44	1.72	2.73	2.15	3.52	2.29	3.06	1.00	.98	.66	.19	.08

CAL YR 1972 TOTAL 92,641 MEAN 253 MAX 1,460 MIN 17 CFSM 1.10 IN 15.05
WTR YR 1973 TOTAL 115,905 MEAN 318 MAX 2,130 MIN 12 CFSM 1.39 IN 18.83

PEAK DISCHARGE (BASE, 1,200 CFS)

NOTE.--No gage height record Feb. 12 to Mar. 26.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-18	1900	9.24	1,490	4- 2	1600	9.73	1,660
2- 6	1600	10.80	2,160	4- 9	1200	9.33	1,520

NEUSE RIVER BASIN

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 mile upstream from Stony Creek, 1.5 miles downstream from Seaboard Coast Line Railroad bridge, 3.2 miles south of Wayne County courthouse in Goldsboro, 4.3 miles downstream from Little River, and 135 miles upstream from mouth.

DRAINAGE AREA.--2,390 cfs, approximately.

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

GAGE.--Water stage recorder. Datum of gage is 42.95 ft above mean sea level. Prior to July 24, 1931, non-recording gage at railroad bridge, 1.5 miles upstream at datum 2.00 ft higher. July 24, 1931, to Aug. 31, 1948, water-stage recorder at site 2.3 miles upstream at datum 1.71 ft higher than present datum.

AVERAGE DISCHARGE.--43 years, 2,524 cfs (14.34 inches per year).

EXTREMES.--Current year: Maximum discharge, 18,800 cfs Feb. 9 (gage height, 23.20 ft); minimum, 250 cfs Sept. 30 (gage height, 2.84 ft).

Period of record: Maximum discharge, 30,700 cfs Sept. 23, 1945; maximum gage height, 26.72 ft Sept. 23, 1945, site and datum then in use; minimum discharge, 76 cfs Sept. 26, 1968.

Floods of June 1866 and July 1919, reached stages of about 29 and 28 ft, respectively, at site 2.3 miles upstream at present datum, from flood profiles of Corps of Engineers. Flood of Oct. 5, 1929, reached a stage of 27.3 ft at railroad bridge at present datum (discharge, 38,600 cfs).

REMARKS.--Records excellent. 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, 1935.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	799	1,410	7,860	6,640	5,070	4,050	7,470	4,510	3,520	3,930	918	537
2	1,810	1,180	7,490	5,180	5,860	4,580	7,660	4,910	3,420	3,810	875	501
3	2,170	989	6,660	4,660	6,760	4,920	8,340	5,280	2,250	4,290	800	470
4	2,150	874	6,260	4,530	7,570	5,660	9,130	5,670	1,600	5,860	1,520	451
5	1,510	832	5,680	4,520	8,370	6,030	9,870	5,640	1,210	7,370	1,690	446
6	1,470	756	4,660	4,460	10,200	6,500	10,800	4,550	1,030	8,060	2,000	416
7	2,270	721	3,630	4,410	13,400	6,980	11,600	3,870	946	8,800	2,200	394
8	3,300	970	3,210	4,500	16,300	7,400	12,600	2,990	958	9,000	2,500	382
9	3,630	1,460	3,060	4,550	18,500	7,740	12,800	2,480	1,030	7,500	1,800	389
10	3,710	2,930	3,030	4,410	18,500	7,980	12,900	2,250	882	6,400	1,200	398
11	3,970	3,510	2,910	4,220	17,500	8,150	12,700	2,350	842	4,500	1,000	388
12	4,330	3,800	2,690	4,220	16,200	8,330	12,300	2,550	826	3,000	900	383
13	4,650	3,980	2,640	3,970	14,800	8,260	11,600	2,240	820	2,200	800	375
14	3,810	4,130	2,670	3,670	13,200	8,020	10,900	1,730	840	1,700	850	404
15	1,890	3,170	2,890	3,420	11,700	7,730	10,000	1,450	790	1,600	900	367
16	1,210	2,300	4,130	3,410	10,000	7,370	9,120	1,300	700	1,500	880	381
17	961	2,850	4,770	3,630	9,040	6,860	7,360	1,200	850	1,800	920	558
18	839	3,380	5,470	4,020	8,490	5,740	5,170	1,140	1,100	2,200	860	542
19	790	3,930	6,320	4,390	8,050	4,640	3,550	1,100	1,300	2,500	800	486
20	741	4,660	8,120	4,650	7,410	4,180	3,000	1,110	1,500	2,410	900	432
21	720	5,230	9,680	4,670	5,980	4,060	2,660	1,100	1,900	2,010	1,800	392
22	705	5,760	10,800	4,580	4,700	4,230	2,440	1,260	2,100	1,580	2,300	366
23	731	6,300	11,800	4,480	4,130	4,150	2,270	1,690	2,350	1,260	2,490	344
24	688	6,990	12,100	4,400	3,570	4,120	2,100	1,610	3,400	1,010	1,860	323
25	749	7,760	12,100	4,520	3,220	4,260	1,970	1,500	4,040	864	1,630	301
26	818	8,600	11,800	4,580	2,990	4,450	1,880	1,600	4,780	798	1,270	294
27	954	9,120	11,400	4,470	3,040	4,570	2,060	1,810	5,610	780	925	295
28	985	8,900	10,700	4,070	3,410	4,450	2,870	1,630	6,180	741	761	280
29	923	8,320	9,970	4,030	-----	4,050	3,670	1,440	6,390	737	674	267
30	908	8,320	9,340	4,300	-----	3,880	4,230	2,250	5,120	830	614	256
31	1,250	-----	8,410	4,750	-----	4,100	-----	3,080	-----	850	566	-----
TOTAL	55,441	123,632	212,250	136,310	258,040	177,440	215,020	77,290	68,284	99,890	39,203	11,818
MEAN	1,788	4,121	6,847	4,397	9,216	5,724	7,167	2,493	2,276	3,222	1,265	394
MAX	4,650	9,120	12,100	6,640	18,500	8,330	12,900	5,670	6,390	9,000	2,500	558
MIN	688	721	2,640	3,410	2,990	3,880	1,880	1,100	700	737	566	256
CFSM	.75	1.72	2.86	1.84	3.86	2.40	3.00	1.04	.95	1.35	.53	.16
IN.	.86	1.92	3.30	2.12	4.02	2.76	3.35	1.20	1.06	1.55	.61	.18

CAL YR 1972 TOTAL 461,674 MEAN 1,261 MAX 12,100 MIN 400 CFSM .53 IN 7.19
WTR YR 1973 TOTAL 1,474,618 MEAN 4,040 MAX 18,500 MIN 256 CFSM 1.69 IN 22.95

NEUSE RIVER BASIN

57

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 downstream from bridge on State Highway 11, and 90 miles upstream from mouth.

DRAINAGE AREA.--2,690 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 10.90 ft above mean sea level. Prior to Nov. 25, 1934, non-recording gage at highway bridge 1 mile downstream at datum 0.80 ft lower.

AVERAGE DISCHARGE.--43 year, 2,895 cfs (14.61 inches per year).

EXTREMES.--Current year: Maximum discharge, 18,900 cfs Feb. 13 (gage height, 20.16 ft); minimum, 412 cfs Sept. 30 (gage height, 2.99 ft).

Period of record: Maximum discharge, 26,000 cfs Oct. 13, 1964; maximum gage height, 22.86 ft Oct. 13, 1964; minimum discharge, 124 cfs Sept. 26, 1932 (gage height, 1.29 ft, site and datum then in use).

Flood in July 1919 reached a stage of 25.0 ft, present site and datum (discharge, about 39,000 cfs), from information by North Carolina State Highway Commission. Flood in October 1924 reached a stage of 24.7 ft, present site and datum (discharge, 36,000 cfs), from information by North Carolina State Highway Commission. Flood of Sept 25-26, 1928, reached a stage of 24.2 ft, present site and datum (discharge, 34,000 cfs).

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,140	1,480	9,500	10,900	5,010	4,490	6,860	3,860	2,740	5,990	1,060	753
2	1,120	1,660	9,380	9,990	5,380	4,610	9,370	4,260	3,150	5,880	1,150	711
3	1,760	1,560	8,940	8,750	6,230	4,910	9,920	4,590	3,400	5,210	1,130	676
4	2,170	1,370	8,390	7,490	7,100	5,280	9,890	5,690	3,230	4,840	1,050	648
5	2,330	1,230	7,000	6,430	7,580	5,790	9,830	5,640	2,240	4,740	1,460	624
6	2,040	1,150	6,400	5,780	7,980	6,410	10,100	5,990	1,740	5,350	1,740	613
7	1,850	1,080	5,800	5,420	8,520	6,830	10,700	6,000	1,450	6,700	2,050	592
8	2,200	1,180	5,400	5,270	9,500	7,130	11,900	5,590	1,330	7,270	2,380	564
9	2,730	1,640	4,800	5,180	11,300	7,430	13,400	4,800	1,280	7,930	2,480	557
10	3,120	1,910	4,200	5,120	14,800	7,760	14,100	3,880	1,340	8,250	1,790	634
11	3,360	2,690	3,800	5,080	16,700	8,050	14,300	3,380	1,250	8,090	1,300	624
12	3,550	3,070	3,600	4,970	18,400	8,300	14,200	2,970	1,180	6,310	1,110	582
13	3,740	3,430	3,440	4,860	18,800	8,570	14,100	2,920	1,210	3,820	1,030	564
14	3,980	3,720	3,250	4,720	18,600	8,770	13,800	2,830	1,260	2,230	931	575
15	4,180	3,960	3,210	4,540	18,600	8,770	13,300	2,450	1,130	1,860	979	627
16	3,530	4,030	3,340	4,350	18,200	8,590	12,700	2,050	1,070	1,770	1,120	599
17	2,120	3,700	3,710	4,220	16,500	8,350	11,800	1,810	1,090	1,700	1,110	543
18	1,470	3,360	4,200	4,210	14,200	8,020	10,800	1,670	1,240	1,940	1,140	655
19	1,250	3,470	4,690	4,390	12,100	7,570	9,450	1,580	1,430	2,360	987	704
20	1,180	3,750	5,260	4,660	10,500	6,970	7,330	1,510	1,720	2,550	899	673
21	1,090	4,160	5,920	4,920	9,450	6,220	5,560	1,520	2,380	2,580	987	617
22	1,030	4,610	6,900	5,160	8,560	5,470	4,340	1,520	2,580	2,320	1,730	568
23	1,000	5,050	8,670	5,470	7,650	5,030	3,550	1,570	2,840	1,900	2,260	536
24	1,050	5,480	9,740	5,640	6,600	4,850	3,220	1,910	2,970	1,530	2,560	508
25	1,270	5,920	11,000	5,530	5,300	4,720	2,910	2,060	3,140	1,260	2,400	484
26	1,270	6,670	11,900	5,320	4,760	4,730	2,700	1,990	3,540	1,080	1,940	466
27	1,180	7,340	12,500	5,220	4,420	4,880	2,750	1,970	3,970	983	1,570	459
28	1,370	8,050	12,600	5,200	4,400	5,050	2,900	2,090	4,490	1,070	1,220	445
29	1,630	8,660	12,400	5,180	-----	5,090	3,080	2,050	5,080	1,170	1,000	430
30	1,500	9,210	12,000	5,090	-----	4,990	3,400	1,880	5,610	1,060	883	415
31	1,350	-----	11,500	5,000	-----	4,860	-----	2,270	-----	1,010	807	-----
TOTAL	62,560	114,590	223,440	174,060	297,140	198,490	262,260	93,700	71,080	110,753	44,253	17,446
MEAN	2,018	3,820	7,208	5,615	10,610	6,403	8,742	3,023	2,369	3,573	1,428	582
MAX	4,180	9,210	12,600	10,900	18,800	8,770	14,300	6,000	5,610	8,250	2,560	753
MIN	1,000	1,080	3,210	4,210	4,400	4,490	2,700	1,510	1,070	983	807	415
CFSM	.75	1.42	2.68	2.09	3.94	2.38	3.25	1.12	.88	1.33	.53	.22
IN.	.87	1.58	3.09	2.41	4.11	2.74	3.63	1.30	.98	1.53	.61	.24

CAL YR 1972 TOTAL 1,233,030 MEAN 3,369 MAX 12,600 MIN 706 CFSM 1.25 IN 17.05
WTR YR 1973 TOTAL 1,669,772 MEAN 4,575 MAX 18,800 MIN 415 CFSM 1.70 IN 23.09

NEUSE RIVER BASIN

02090380 Contentnea Creek near Lucama, N. C.

LOCATION.--Lat 35°41'29", long 78°06'29", Wilson County, on right bank 250 ft upstream from bridge on State Highway 581, 1.0 mile upstream from Buckhorn Branch, and 6.5 miles northwest of Lucama.

DRAINAGE AREA.--156 sq mi.

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

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

AVERAGE DISCHARGE.--9 years, 154 cfs (13.41 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,090 cfs Feb. 4 (gage height, 11.78 ft); minimum, 3.0 cfs Sept. 8, 9, 30; minimum gage height, 1.70 ft Sept. 8, 9.

Period of record: Maximum discharge, 5,860 cfs Oct. 6, 1964 (gage height, 16.28 ft); minimum, 0.40 cfs Oct. 7, 1968.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	195	40	249	363	228	532	704	126	204	84	17	4.7
2	160	37	250	400	492	435	1,330	106	98	74	16	4.2
3	64	35	201	310	1,340	328	1,370	94	70	101	20	4.1
4	41	35	174	253	2,000	477	908	129	57	150	24	3.7
5	34	35	168	258	1,470	653	574	182	49	111	26	3.7
6	168	35	154	240	774	633	414	165	47	201	49	3.6
7	351	34	156	226	475	468	308	107	39	160	38	3.5
8	459	107	144	210	363	328	684	87	45	91	26	3.2
9	285	325	132	226	340	294	1,170	86	44	53	18	3.6
10	79	460	163	237	352	301	1,070	94	38	44	14	4.5
11	50	446	174	232	333	284	712	95	35	36	12	4.3
12	41	182	151	238	312	343	408	73	32	35	11	4.2
13	37	93	201	231	291	461	259	60	28	39	10	3.7
14	34	87	258	211	322	458	216	52	28	33	12	5.2
15	32	118	457	217	591	330	191	49	27	30	10	8.5
16	30	124	1,130	289	729	241	174	53	27	93	8.6	8.0
17	29	193	1,930	340	664	220	164	53	33	148	11	6.4
18	29	366	1,450	354	467	213	156	49	60	108	11	6.4
19	29	468	762	306	298	189	145	59	84	66	11	8.2
20	28	568	430	313	259	164	136	56	59	42	14	7.3
21	35	741	297	297	243	160	127	123	91	31	24	6.5
22	38	930	354	253	224	246	119	256	217	26	20	5.8
23	33	765	480	381	205	331	110	244	607	22	20	5.2
24	32	442	553	397	191	350	101	129	560	33	15	4.9
25	39	223	484	285	178	253	98	96	296	41	12	4.4
26	63	276	378	229	205	193	127	124	115	28	9.0	4.0
27	60	388	309	220	332	192	249	112	79	22	7.6	3.7
28	49	441	271	244	488	178	385	92	65	22	6.7	3.4
29	48	384	228	355	-----	161	370	209	80	27	6.0	3.2
30	49	244	201	406	-----	156	191	313	76	24	5.5	3.2
31	44	-----	250	328	-----	262	-----	336	-----	19	5.0	-----
TOTAL	2,665	8,622	12,539	8,849	14,166	9,834	12,970	3,809	3,290	1,994	489.4	145.3
MEAN	86.0	287	404	285	506	317	432	123	110	64.3	15.8	4.84
MAX	459	930	1,930	406	2,000	653	1,370	336	607	201	49	8.5
MIN	28	34	132	210	178	156	98	49	27	19	5.0	3.2
CFSM	.55	1.84	2.59	1.83	3.24	2.03	2.77	.79	.71	.41	.10	.03
IN.	.64	2.06	2.99	2.11	3.38	2.35	3.09	.91	.78	.48	.12	.03

CAL YR 1972 TOTAL 66,206.0 MEAN 181 MAX 1,930 MIN 12 CFSM 1.16 IN 15.79
 WTR YR 1973 TOTAL 79,372.7 MEAN 217 MAX 2,000 MIN 3.2 CFSM 1.39 IN 18.93

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	0930	11.61	2,000	4- 2	2130	10.35	1,500
2- 4	0530	11.78	2,090	4- 9	1800	9.60	1,280

NEUSE RIVER BASIN

59

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 miles north of Eureka, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--2.2 sq mi, 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 (by barometer).

AVERAGE DISCHARGE.--5 years, 2.32 cfs (14.32 inches per year).

EXTREMES.--Current year: Maximum discharge, 42 cfs Apr. 7 (gage height, 3.14 ft); minimum, 0.38 cfs Sept. 6, 29 (gage height, 0.91 ft).

Period of record: Maximum discharge, 114 cfs June 18, 1969 (gage height, 4.12 ft) from rating curve extended above 56 cfs; minimum, 0.29 cfs Oct. 1, 2, 3, 1968 (gage height, 0.87 ft).

REMARKS.--Records good. Water quality records for 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.87	.77	4.2	3.0	3.3	4.1	17	1.9	.90	6.2	1.9	.49
2	.74	.75	2.8	2.5	17	3.7	8.9	1.7	.85	4.7	1.3	.47
3	.70	.75	2.3	2.3	11	6.0	5.6	1.7	.81	1.1	.92	.47
4	.68	.77	2.1	3.1	6.4	7.7	9.9	2.2	.77	.89	1.1	.46
5	1.3	.74	1.9	2.7	5.2	5.5	6.8	1.5	.74	4.6	.81	.46
6	2.6	.73	2.5	3.1	5.0	4.8	4.8	1.3	.73	2.6	.67	.49
7	1.3	.75	2.2	2.4	5.1	4.4	10	1.3	.74	1.0	.64	.52
8	.87	2.9	1.9	2.8	4.5	4.2	27	1.3	.74	.83	.59	.51
9	.74	1.6	3.0	2.9	5.7	4.5	10	2.0	.71	.75	.60	.57
10	.68	1.4	2.4	2.8	4.9	4.0	7.0	1.5	.71	.67	.63	.54
11	.68	1.4	2.1	2.9	4.9	3.8	5.3	1.2	.70	1.8	.64	.54
12	.70	1.3	2.1	2.7	4.7	6.0	4.6	1.1	.72	1.3	.86	.50
13	.69	1.3	2.0	2.4	4.5	4.4	4.0	1.1	.89	.76	5.2	.50
14	.71	1.5	2.0	2.4	12	3.7	3.6	1.1	.72	.69	1.8	.60
15	.67	1.4	7.0	2.6	19	3.4	3.3	1.2	.69	1.4	.76	.54
16	.69	1.3	5.4	3.2	9.5	3.2	3.1	1.1	.71	1.3	.73	.54
17	.68	2.9	3.4	4.5	6.3	3.1	2.9	1.1	2.1	1.5	.67	.60
18	.63	2.0	2.7	4.5	5.3	2.6	2.7	1.1	2.4	1.1	.69	.60
19	.85	2.0	2.5	4.8	4.8	2.4	2.5	1.0	.94	.78	.68	1.7
20	.77	3.8	2.4	4.4	4.5	2.3	2.3	1.3	3.2	.67	.62	.63
21	.72	2.2	3.1	3.4	4.2	3.5	2.1	1.7	5.4	.67	.59	.57
22	.72	2.0	11	6.1	3.9	4.2	2.0	1.1	1.3	.63	.63	.53
23	.70	1.9	5.4	5.5	3.6	2.9	1.9	.96	1.3	.66	.63	.52
24	.98	1.8	4.2	4.1	3.3	2.5	1.7	1.6	.99	.62	.59	.50
25	1.0	1.9	3.6	3.3	3.1	2.5	2.5	2.3	.86	.60	.57	.51
26	.79	2.9	3.3	3.0	3.2	3.2	2.6	1.2	.81	.59	.55	.49
27	.77	2.1	3.3	3.8	6.3	3.0	11	1.1	.87	.59	.54	.49
28	1.1	1.9	2.8	5.0	5.3	2.4	5.3	.98	.76	1.0	.52	.47
29	.87	1.7	2.5	7.2	-----	2.3	3.0	2.1	.71	.90	.52	.46
30	.76	5.8	2.5	4.4	-----	2.7	2.3	1.2	.69	.68	.50	.50
31	.75	-----	2.6	3.6	-----	5.7	-----	.96	-----	.67	.49	-----
TOTAL	26.71	54.26	101.2	111.4	176.5	118.7	175.7	42.90	34.46	42.25	27.94	16.77
MEAN	.86	1.81	3.26	3.59	6.30	3.83	5.86	1.38	1.15	1.36	.90	.56
MAX	2.6	5.8	11	7.2	19	7.7	27	2.3	5.4	6.2	5.2	1.7
MIN	.63	.73	1.9	2.3	3.1	2.3	1.7	.96	.69	.59	.49	.46
CFSM	.39	.82	1.48	1.63	2.86	1.74	2.66	.63	.52	.62	.41	.25
IN.	.45	.92	1.71	1.88	2.98	2.01	2.97	.73	.58	.71	.47	.28

CAL YR 1972 TOTAL 912.83 MEAN 2.49 MAX 39 MIN .60 CFSM 1.13 IN 15.44
WTR YR 1973 TOTAL 928.79 MEAN 2.54 MAX 27 MIN .46 CFSM 1.15 IN 15.70

PEAK DISCHARGE (BASE, 25 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 2	1615	2.87	34	4- 7	2400	3.14	42
2-14	2200	2.71	31	7- 1	2215	2.90	34

NEUSE RIVER BASIN

02091000 Nahunta Swamp near Shine, N. C.

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

DRAINAGE AREA.--77.6 sq mi.

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 above mean sea level. Prior to Apr. 1, 1955, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--19 years, 88.1 cfs (15.42 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,280 cfs Apr. 1 (gage height, 9.71 ft); minimum, 9.0 cfs Sept. 7 (gage height, 1.60 ft).

Period of record: Maximum discharge, 5,470 cfs Oct. 6, 1964 (gage height, 14.14 ft); minimum, 1.0 cfs Oct. 7, 8, 1954 (gage height, 0.80 ft).

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	33	243	104	127	162	1,080	61	32	32	18	10
2	28	33	180	99	417	134	866	52	26	85	51	9.7
3	25	33	140	87	733	199	383	48	22	27	28	9.5
4	24	34	119	106	503	512	322	98	19	20	41	9.4
5	86	33	104	101	286	281	311	57	17	122	26	9.7
6	126	32	105	120	217	215	206	45	15	481	20	9.5
7	300	31	113	114	223	180	230	41	17	96	17	9.4
8	130	182	93	106	186	161	769	37	32	49	15	9.7
9	80	151	174	120	218	169	702	90	34	37	13	11
10	50	77	141	113	205	155	411	70	20	30	13	19
11	40	58	119	112	199	143	231	60	18	129	22	16
12	36	50	106	118	191	309	180	50	15	247	55	12
13	34	46	102	104	175	219	150	46	19	58	34	10
14	32	51	100	96	267	163	128	40	17	37	33	20
15	30	56	200	114	729	138	114	36	14	32	31	25
16	26	46	319	168	563	120	103	34	13	86	36	15
17	28	152	207	180	313	116	95	32	21	45	20	12
18	25	162	147	179	218	102	88	32	80	53	17	13
19	31	110	126	176	185	89	81	32	60	35	17	67
20	34	294	115	179	166	83	74	32	50	27	15	24
21	30	254	110	139	151	104	66	80	70	22	14	17
22	29	161	384	185	137	191	61	70	150	20	41	15
23	28	120	280	251	125	139	56	60	350	20	22	14
24	32	99	203	174	113	108	52	120	300	19	17	13
25	51	92	165	134	103	95	52	80	100	16	15	12
26	38	215	141	114	114	112	62	70	50	15	14	12
27	33	175	131	124	187	114	228	60	36	18	13	11
28	40	127	115	141	216	94	223	50	32	39	12	11
29	41	104	100	308	-----	82	110	160	30	26	11	10
30	36	212	93	204	-----	87	78	100	26	18	11	10
31	34	-----	98	150	-----	143	-----	49	-----	15	10	-----
TOTAL	1,589	3,223	4,773	4,420	7,269	4,919	7,512	1,892	1,685	1,956	702	445.9
MEAN	51.3	107	154	143	260	159	250	61.0	56.2	63.1	22.6	14.9
MAX	300	294	384	308	733	512	1,080	160	350	481	55	67
MIN	24	31	93	87	103	82	52	32	13	15	10	9.4
CFSM	.66	1.38	1.98	1.84	3.35	2.05	3.22	.79	.72	.81	.29	.19
IN.	.76	1.55	2.29	2.12	3.48	2.36	3.60	.91	.81	.94	.34	.21

CAL YR 1972 TOTAL 36,507.0 MEAN 99.7 MAX 1,130 MIN 13 CFSM 1.28 IN 17.50
WTR YR 1973 TOTAL 40,385.9 MEAN 111 MAX 1,080 MIN 9.4 CFSM 1.43 IN 19.36

PEAK DISCHARGE (BASE, 580 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 3	0130	8.04	798	4- 1	1500	9.71	1,280
2-15	1130	7.81	747	4- 8	1430	8.03	796
3- 4	0500	7.40	665	7- 6	0300	7.79	743

NEUSE RIVER BASIN

61

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 mile upstream from bridge on State Highway 123, and 2.5 miles upstream from Wheat Swamp Creek.

DRAINAGE AREA.--729 sq mi.

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

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

AVERAGE DISCHARGE.--44 years (1929-73), 768 cfs (14.31 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,530 cfs Apr. 9 (gage height, 13.87 ft); minimum, 59 cfs Sept. 30 (gage height, 3.02 ft).

Period of record: Maximum discharge, 17,200 cfs Oct. 7, 1964; maximum gage height, 22.11 ft Oct. 8, 1964; minimum discharge, 15 cfs Oct. 28, 1933 (gage height, 1.22 ft).

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

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

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	241	217	1,420	1,360	1,430	1,500	1,880	1,000	644	784	233	98
2	224	207	1,390	1,250	1,570	1,600	2,340	999	672	567	232	90
3	218	200	1,360	1,140	2,060	1,700	2,390	948	654	564	333	85
4	220	192	1,320	1,060	2,300	1,950	2,420	948	562	613	375	82
5	253	185	1,260	1,030	2,410	2,000	2,530	831	403	664	408	85
6	284	179	1,180	1,040	2,530	2,220	2,780	666	317	689	455	124
7	346	173	1,090	1,060	2,760	2,200	2,960	589	281	852	464	110
8	417	232	979	1,070	3,020	2,140	3,310	526	273	927	387	89
9	444	408	886	1,060	3,170	2,080	3,500	557	263	922	290	88
10	458	495	843	1,030	3,180	2,030	3,470	610	258	879	229	104
11	468	516	823	998	3,010	1,940	3,370	580	250	724	199	95
12	467	515	783	984	2,700	1,850	3,290	504	249	776	235	92
13	428	540	738	977	2,350	1,810	3,190	444	285	768	330	84
14	321	578	709	972	2,100	1,740	2,990	398	293	506	273	85
15	262	600	719	969	2,190	1,630	2,710	365	245	372	309	101
16	216	581	829	992	2,320	1,540	2,390	340	209	334	317	119
17	189	554	941	1,040	2,420	1,500	2,030	317	189	365	271	114
18	173	586	1,040	1,090	2,460	1,440	1,560	298	306	441	212	108
19	166	642	1,160	1,150	2,500	1,350	1,260	280	520	451	176	139
20	170	713	1,330	1,220	2,520	1,240	1,040	275	720	432	162	163
21	170	845	1,530	1,260	2,460	1,120	873	293	828	387	157	150
22	165	953	1,820	1,320	2,290	1,060	782	323	948	334	147	125
23	159	1,050	2,090	1,450	2,050	1,020	684	344	1,020	282	148	108
24	159	1,150	2,270	1,500	1,760	988	619	359	1,010	246	147	91
25	188	1,270	2,270	1,490	1,500	974	566	456	925	231	135	81
26	202	1,430	2,150	1,450	1,300	1,020	534	514	881	207	132	73
27	207	1,530	2,010	1,410	1,250	1,100	689	499	966	181	145	69
28	210	1,570	1,860	1,380	1,300	1,110	788	447	1,100	180	140	65
29	225	1,530	1,730	1,410	-----	1,060	898	416	1,200	340	123	62
30	233	1,470	1,590	1,420	-----	980	967	478	1,150	457	111	60
31	229	-----	1,470	1,430	-----	923	-----	587	-----	306	105	-----
TOTAL	8,112	21,111	41,590	37,012	62,910	46,815	58,810	16,191	17,621	15,781	7,380	2,939
MEAN	262	704	1,342	1,194	2,247	1,510	1,960	522	587	509	238	98.0
MAX	468	1,570	2,270	1,500	3,180	2,220	3,500	1,000	1,200	927	464	163
MIN	159	173	709	969	1,250	923	534	275	189	180	105	60
CFSM	.36	.97	1.84	1.64	3.08	2.07	2.69	.72	.81	.70	.33	.13
IN.	.41	1.08	2.12	1.89	3.21	2.39	3.00	.83	.90	.81	.38	.15

CAL YR 1972 TOTAL 287,800 MEAN 786 MAX 2,860 MIN 128 CFSM 1.08 IN 14.69
WTR YR 1973 TOTAL 336,272 MEAN 921 MAX 3,500 MIN 60 CFSM 1.26 IN 17.16

NEUSE RIVER BASIN

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 miles upstream from Middle Swamp, and 5.5 miles southeast of Farmville.

DRAINAGE AREA.--93.3 sq mi.

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 (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.--17 years, 121 cfs (17.61 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,410 cfs Feb 4 (gage height, 13.93 ft); minimum, 0.40 cfs Sept. 29, 30; minimum gage height, 6.80 ft Sept. 28, 29.

Period of record: Maximum discharge, 5,170 cfs Oct. 6, 1964 (gage height, 19.65 ft, from floodmarks), from rating curve extended above 1,500 cfs; minimum daily, 0.02 cfs Oct. 2, 3, 1968.

Flood in August and September 1955 reached stages of 18.9 ft and 18.5 ft, respectively.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	7.4	197	160	290	420	688	100	46	13	30	1.5
2	16	7.2	236	223	367	339	1,080	59	23	123	29	1.5
3	13	6.7	213	209	1,180	267	854	43	15	377	53	1.4
4	9.6	6.6	154	180	1,380	402	676	104	10	424	59	1.3
5	8.0	6.9	113	162	1,210	618	564	140	7.6	171	109	2.1
6	8.8	7.0	92	150	847	657	456	90	6.0	331	102	2.2
7	10	7.0	84	137	510	542	359	53	6.2	378	48	1.3
8	13	17	76	126	347	361	698	37	11	374	26	1.2
9	13	56	76	133	296	267	890	95	7.4	174	16	1.3
10	9.6	63	111	133	292	229	803	152	5.9	55	11	2.7
11	7.2	55	119	137	275	205	703	89	6.8	39	16	2.5
12	5.8	39	104	142	290	358	419	55	5.4	507	43	1.6
13	5.1	29	91	139	277	528	219	35	10	472	27	1.3
14	4.7	25	87	126	273	395	147	25	17	187	67	1.9
15	4.4	22	107	122	676	275	111	22	8.2	64	56	5.0
16	3.8	19	220	173	935	195	91	20	5.3	42	33	2.9
17	3.7	32	301	247	842	150	76	17	9.0	38	19	1.9
18	3.5	61	271	277	710	118	66	15	744	35	12	1.5
19	4.0	63	185	265	455	95	57	13	710	35	9.5	1.4
20	4.7	92	130	265	247	78	50	13	534	24	7.7	1.2
21	4.6	160	108	257	213	75	43	18	413	16	6.2	1.0
22	4.8	180	158	244	177	113	38	22	389	12	4.8	.92
23	4.9	145	277	391	150	144	34	21	387	9.2	4.1	.82
24	5.5	94	329	426	127	131	31	18	268	7.9	3.7	.72
25	8.4	67	268	351	109	103	28	79	135	6.6	3.3	.64
26	8.0	90	208	244	111	124	29	55	69	5.7	3.0	.58
27	7.6	146	164	188	240	172	179	31	41	5.3	2.6	.50
28	8.6	153	139	183	426	145	337	23	30	18	2.3	.45
29	10	122	117	298	-----	109	316	28	22	232	2.0	.41
30	9.1	116	99	411	-----	90	206	58	17	186	1.9	.40
31	8.0	-----	98	391	-----	101	-----	65	-----	67	1.7	-----
TOTAL	244.4	1,894.8	4,952	6,890	13,252	7,806	10,248	1,595	3,958.8	4,428.7	808.8	44.14
MEAN	7.88	63.2	160	222	473	252	342	51.5	132	143	26.1	1.47
MAX	17	180	329	426	1,380	657	1,080	152	744	507	109	5.0
MIN	3.5	6.6	76	122	109	75	28	13	5.3	5.3	1.7	.40
CFSM	.08	.68	1.71	2.38	5.07	2.70	3.67	.55	1.41	1.53	.28	.02
IN.	.10	.76	1.97	2.75	5.28	3.11	4.09	.64	1.58	1.77	.32	.02

CAL YR 1972 TOTAL 31,684.90 MEAN 86.6 MAX 740 MIN 2.5 CFSM .93 IN 12.63
WTR YR 1973 TOTAL 56,122.64 MEAN 154 MAX 1,380 MIN .40 CFSM 1.65 IN 22.38

PEAK DISCHARGE (BASE, 660 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 4	1030	13.93	1,410	4- 2	0800	13.42	1,120
2-16	0300	13.10	960	6-18	1900	13.15	985
3- 6	1000	12.44	669				

NEUSE RIVER BASIN

63

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 miles northeast of Calico, and 4.5 miles upstream from mouth.

DRAINAGE AREA.--9.8 sq mi, 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 higher.

EXTREMES.--Current year: Maximum discharge, 616 cfs Apr. 1 (gage height, 36.17 ft); no flow Oct. 1-5, 16-18, July 12 to Sept. 30.

Period of record: Maximum discharge, 1,000 cfs Oct. 1, 1971 (gage height, 36.90 ft, present datum); no flow at times each year.

REMARKS.--Records good above 5 cfs, and fair below. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	3.6	52	154	23	42	416	27	3.2	3.7	0	0
2	0	2.9	52	130	27	31	421	18	2.5	2.6	0	0
3	0	2.5	39	80	46	29	167	12	1.7	1.6	0	0
4	0	2.2	29	61	43	36	82	16	.97	1.0	0	0
5	0	1.9	23	48	33	60	51	19	.50	.88	0	0
6	.14	1.6	22	43	26	55	35	15	.25	.65	0	0
7	.24	1.6	21	37	22	40	28	11	.14	.33	0	0
8	.18	2.1	20	35	18	30	70	8.3	.10	.18	0	0
9	.10	1.9	22	35	19	25	76	7.6	.05	.09	0	0
10	.05	1.4	26	34	22	20	49	13	.03	.03	0	0
11	.03	1.2	24	30	25	17	32	17	.02	.01	0	0
12	.02	1.1	21	29	25	16	23	13	.01	0	0	0
13	.02	1.1	18	27	24	15	17	9.4	.13	0	0	0
14	.01	1.1	16	25	33	13	13	7.0	.22	0	0	0
15	.01	1.1	16	24	143	11	10	6.0	.09	0	0	0
16	0	.94	20	32	147	10	8.8	4.6	.03	0	0	0
17	0	3.2	21	40	87	9.1	7.6	3.5	.02	0	0	0
18	0	3.7	18	40	54	7.8	6.6	2.8	1.6	0	0	0
19	.15	5.1	15	40	39	6.8	5.8	2.1	1.1	0	0	0
20	.30	7.6	13	47	30	6.1	4.9	1.6	1.0	0	0	0
21	.25	8.2	12	43	24	6.1	4.2	1.9	1.3	0	0	0
22	.19	8.6	19	42	20	7.3	3.6	1.3	1.8	0	0	0
23	.14	7.6	28	63	16	7.0	3.0	.91	6.6	0	0	0
24	.37	6.6	33	54	14	6.8	2.5	1.1	11	0	0	0
25	1.1	6.0	29	39	12	6.6	2.1	1.8	8.8	0	0	0
26	.78	19	24	30	11	11	1.8	1.3	5.8	0	0	0
27	.59	34	22	27	22	15	58	1.9	3.7	0	0	0
28	2.5	28	20	28	47	15	135	2.7	2.3	0	0	0
29	3.0	21	18	39	-----	13	75	4.7	2.6	0	0	0
30	3.7	29	15	37	-----	11	43	3.2	4.4	0	0	0
31	4.2	-----	36	29	-----	12	-----	2.8	-----	0	0	-----
TOTAL	18.07	215.84	744	1,422	1,052	590.6	1,851.9	237.51	61.96	11.07	0	0
MEAN	.58	7.19	24.0	45.9	37.6	19.1	61.7	7.66	2.07	.36	0	0
MAX	4.2	34	52	154	147	60	421	27	11	3.7	0	0
MIN	0	.94	12	24	11	6.1	1.8	.91	.01	0	0	0
CFSM	.06	.73	2.45	4.68	3.84	1.95	6.30	.78	.21	.04	0	0
IN.	.07	.82	2.82	5.40	3.99	2.24	7.03	.90	.24	.04	0	0

CAL YR 1972 TOTAL 5,418.14 MEAN 14.8 MAX 163 MIN 0 CFSM 1.51 IN 20.57
WTR YR 1973 TOTAL 6,204.95 MEAN 17.0 MAX 421 MIN 0 CFSM 1.73 IN 23.55

PEAK DISCHARGE (BASE, 50 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 1	2100	34.67	55	3- 5	1600	34.73	66
1- 1	1500	35.13	174	4- 1	2030	36.17	616
1-23	1315	34.74	68	4-28	0430	35.06	153
2-15	2100	35.14	177				

NEUSE RIVER BASIN

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 mile upstream from mouth, and 7.9 miles northwest of Vanceboro.

DRAINAGE AREA.--27 sq mi, 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 higher.

EXTREMES.--Current year: Maximum discharge, 1,360 cfs Apr. 2 (gage height, 23.81 ft); no flow July 23 to Aug. 2, 12, Aug. 29 to Sept. 8.
Period of record: Maximum discharge, 1,810 cfs Oct. 1, 1971 (gage height, 24.53 ft 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	7.0	78	213	59	89	817	110	4.8	9.4	0	0
2	.04	5.9	87	318	59	91	1,210	65	3.5	7.6	0	0
3	.03	5.3	87	279	89	78	712	47	2.2	5.7	.03	0
4	.02	4.6	72	195	93	80	380	38	1.4	5.0	.04	0
5	.04	3.7	56	147	86	100	227	33	.97	6.6	.04	0
6	.21	3.0	45	112	69	108	135	28	.66	6.2	.03	0
7	.39	2.4	41	94	56	108	93	25	.44	3.5	.02	0
8	.33	2.6	37	79	46	84	167	21	.33	1.8	.02	0
9	.22	2.6	37	74	43	67	221	20	.23	.92	.01	.01
10	.15	2.3	38	75	41	54	190	20	.20	.52	.01	.06
11	.09	2.0	38	74	42	45	124	18	.14	.28	.01	.04
12	.06	1.8	37	68	55	40	79	18	.07	.16	0	.03
13	.05	1.6	34	64	65	36	55	18	.33	.08	.01	.02
14	.04	1.6	31	56	71	32	40	17	.88	.05	.01	.01
15	.03	1.4	30	54	237	28	30	14	.79	.05	.05	.02
16	.02	1.3	33	64	371	25	24	12	.58	.07	.66	.01
17	.02	4.5	32	74	325	22	20	9.8	.40	.06	.66	.01
18	.01	8.6	30	85	218	20	17	8.7	7.3	.06	.44	.01
19	.03	8.9	29	91	129	19	15	6.9	11	.04	.31	.27
20	.05	11	27	101	88	17	13	5.5	9.1	.03	.21	1.1
21	.06	11	25	99	67	16	12	6.0	9.4	.02	.13	.78
22	.06	12	33	97	53	18	10	5.0	10	.01	.09	.46
23	.05	12	49	120	42	16	9.2	3.6	19	0	.06	.28
24	.15	12	55	119	35	18	8.1	3.5	19	0	.04	.17
25	1.2	12	56	104	30	17	7.1	4.5	17	0	.03	.10
26	1.5	27	52	78	28	20	6.1	4.5	15	0	.02	.06
27	1.3	35	47	64	41	26	127	4.0	13	0	.01	.04
28	5.2	35	41	60	71	28	389	3.2	10	0	.01	.03
29	13	40	36	74	-----	27	325	3.4	8.4	0	0	.02
30	10	52	32	76	-----	26	201	4.8	12	0	0	.02
31	8.7	-----	52	69	-----	27	-----	5.5	-----	0	0	-----
TOTAL	43.10	330.1	1,377	3,277	2,609	1,382	5,663.5	582.9	178.12	48.15	2.95	3.55
MEAN	1.39	11.0	44.4	106	93.2	44.6	189	18.8	5.94	1.55	.095	.12
MAX	13	52	87	318	371	108	1,210	110	19	9.4	.66	1.1
MIN	.01	1.3	25	54	28	16	6.1	3.2	.07	0	0	0
CFSM	.05	.41	1.64	3.93	3.45	1.65	7.00	.70	.22	.06	.004	.004
IN.	.06	.45	1.90	4.51	3.59	1.90	7.80	.80	.25	.07	.004	.004

CAL YR 1972 TOTAL 12,869.34 MEAN 35.2 MAX 335 MIN .01 CFSM 1.30 IN 17.73
WTR YR 1973 TOTAL 15,497.37 MEAN 42.5 MAX 1,210 MIN 0 CFSM 1.57 IN 21.35

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-16	1430	21.85	390	4-28	0930	21.90	410
4- 2	0200	23.81	1,360				

NEUSE RIVER BASIN

65

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 miles upstream from bridge on State Highway 118, 2.5 miles downstream from Clayroot Swamp, and 3.5 miles northwest of Vanceboro.

DRAINAGE AREA.--182 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 2.07 ft 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 higher.

AVERAGE DISCHARGE.--23 years, 207 cfs (15.42 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,820 cfs Apr. 2 (gage height, 15.58 ft); minimum, 8.1 cfs Sept. 30; minimum gage height, 3.88 ft Sept. 7.

Period of record: Maximum discharge, 6,060 cfs Sept. 22, 1955 (gage height, 19.67 ft, present datum); no flow Aug. 8-29, Oct. 4 to Nov. 9, 1954.

Flood in 1909 reached a stage of 22 ft, present datum, and flood in 1928 reached a stage of 17.7 ft, present datum, from information by local resident.

REMARKS.--Records good. During 1964, the channel was canalized from a point 12.2 miles upstream to a point 2.5 miles downstream from the gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	91	471	676	351	816	1,860	494	56	103	45	10
2	17	74	536	988	373	749	3,580	304	49	77	33	10
3	16	62	466	988	788	599	3,620	223	43	67	29	9.8
4	17	52	369	844	908	581	3,070	236	37	67	54	9.4
5	16	46	295	695	912	671	2,330	295	35	68	75	9.3
6	17	42	254	566	770	686	1,580	234	34	135	50	9.3
7	17	39	240	482	575	650	1,020	183	30	124	35	8.8
8	18	44	225	405	405	542	1,200	156	27	79	26	9.3
9	17	90	233	375	369	418	1,360	146	24	55	20	12
10	19	134	271	367	345	343	1,280	189	21	42	17	35
11	21	111	259	351	331	294	1,030	167	18	33	16	39
12	16	89	233	353	375	274	656	135	17	30	15	28
13	13	74	215	338	389	275	415	112	18	27	28	19
14	12	65	203	310	428	251	300	96	24	24	27	17
15	11	61	202	304	1,200	224	242	86	28	21	20	15
16	11	61	306	391	1,640	203	211	78	21	26	63	15
17	10	77	324	505	1,650	191	191	69	18	30	60	15
18	9.8	169	274	545	1,480	196	175	62	97	25	39	15
19	12	173	234	545	1,190	176	164	56	137	21	29	26
20	12	169	206	596	777	159	152	50	86	18	23	36
21	13	190	190	590	532	152	144	52	123	16	19	28
22	14	174	254	510	381	176	137	54	177	15	17	22
23	12	153	375	722	306	200	131	47	329	13	16	18
24	13	134	385	764	264	182	124	45	393	13	17	15
25	28	119	342	665	234	166	117	62	278	12	18	14
26	45	202	298	522	222	180	107	90	188	11	17	17
27	37	355	267	395	448	257	496	71	145	10	15	17
28	47	329	246	375	755	253	1,420	60	118	14	14	13
29	150	275	218	484	-----	222	1,300	62	99	66	12	10
30	144	288	196	525	-----	194	856	72	127	127	12	8.7
31	114	-----	232	430	-----	187	-----	66	-----	80	11	-----
TOTAL	916.8	3,942	8,819	16,606	18,398	10,467	29,268	4,052	2,797	1,449	872	510.6
MEAN	29.6	131	284	536	657	338	976	131	93.2	46.7	28.1	17.0
MAX	150	355	536	988	1,650	816	3,620	494	393	135	75	39
MIN	9.8	39	190	304	222	152	107	45	17	10	11	8.7
CFSM	.16	.72	1.56	2.95	3.61	1.86	5.36	.72	.51	.26	.15	.09
IN.	.19	.81	1.80	3.39	3.76	2.14	5.98	.83	.57	.30	.18	.10
CAL YR 1972	TOTAL	76,980.8	MEAN	210	MAX	1,400	MIN	9.8	CFSM	1.15	IN	15.73
WTR YR 1973	TOTAL	98,097.4	MEAN	269	MAX	3,620	MIN	8.7	CFSM	1.48	IN	20.05

NEUSE RIVER BASIN

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 miles upstream from mouth, and 2.5 miles northwest of Vanceboro.

DRAINAGE AREA.--24 sq mi, 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 upstream from bridge at datum 14.31 ft lower. Mar. 1, 1971 to Sept. 30, 1972 water-stage recorder at present site at datum 2.46 ft higher.

EXTREMES.--Current year: Maximum discharge, 1,670 cfs Apr. 1 (gage height, 10.92 ft); no flow Oct. 1-19, Sept. 4-9.

Period of record: Maximum discharge, 3,700 cfs Sept. 20, 1955 (gage height, 26.14 ft), site and datum then in use; no flow at times during several years.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	8.5	76	275	39	62	1,160	28	.57	3.6	.03	.01
2	0	6.8	97	372	45	46	1,300	18	.46	2.1	.04	.01
3	0	4.9	82	225	88	40	580	12	.33	1.2	.08	.01
4	0	3.7	50	118	110	44	177	12	.24	.75	.12	0
5	0	2.7	33	88	70	63	65	11	.17	.55	.12	0
6	0	2.2	26	70	50	60	37	10	.12	.44	.10	0
7	0	1.8	29	63	41	48	27	9.1	.09	.34	.07	0
8	0	1.8	28	56	34	38	255	7.9	.09	.23	.06	0
9	0	1.9	29	55	34	31	280	5.5	.07	.16	.04	.09
10	0	1.8	26	50	34	27	80	11	.06	.13	.03	1.3
11	0	1.7	22	55	39	24	43	11	.05	.10	.04	1.2
12	0	1.7	19	50	48	24	25	8.1	.04	.08	.03	.77
13	0	1.7	17	48	50	23	18	3.9	.05	.06	.06	.56
14	0	1.7	15	45	70	24	14	2.0	.07	.05	.05	.39
15	0	1.7	15	45	490	21	12	1.8	.05	.04	.07	.40
16	0	1.7	20	56	586	19	10	1.5	.04	.10	.20	.34
17	0	3.2	21	68	320	18	9.1	1.2	.04	.17	.21	.27
18	0	5.4	21	68	143	17	8.3	1.0	.35	.22	.21	.21
19	0	5.7	18	67	72	17	7.7	.90	1.8	.22	.18	.44
20	.01	11	15	78	53	18	6.5	.70	4.3	.20	.14	2.3
21	.01	15	14	76	43	18	4.9	.62	3.4	.16	.10	4.7
22	.01	14	29	67	37	18	3.7	.55	2.5	.13	.07	4.2
23	.01	14	44	74	31	19	2.9	.50	4.2	.10	.06	2.8
24	.12	11	70	74	27	19	2.3	.45	11	.08	.05	1.8
25	1.8	9.0	63	60	24	18	2.1	.40	9.1	.05	.05	1.3
26	2.2	21	50	46	22	18	1.8	.40	4.6	.03	.05	.82
27	1.7	25	35	40	30	19	671	.42	2.6	.02	.06	.48
28	11	27	28	39	52	19	728	.48	1.7	.02	.04	.29
29	20	23	26	52	-----	24	235	.54	1.6	.05	.03	.17
30	14	37	24	55	-----	32	58	.58	6.0	.05	.02	.12
31	11	-----	56	49	-----	35	-----	.58	-----	.04	.02	-----
TOTAL	61.86	267.6	1,098	2,584	2,682	903	5,824.3	162.12	55.69	11.47	2.43	24.92
MEAN	2.00	8.92	35.4	83.4	95.8	29.1	194	5.23	1.86	.37	.078	.83
MAX	20	37	97	372	586	63	1,300	28	11	3.6	.21	4.7
MIN	0	1.7	14	39	22	17	1.8	.40	.04	.02	.02	0
CFSM	.08	.37	1.48	3.48	3.99	1.21	8.08	.22	.08	.02	.003	.03
IN.	.10	.41	1.70	4.01	4.16	1.40	9.03	.25	.09	.02	.003	.04

CAL YR 1972 TOTAL 9,180.11 MEAN 25.1 MAX 396 MIN 0 CFSM 1.05 IN 14.23
WTR YR 1973 TOTAL 13,677.39 MEAN 37.5 MAX 1,300 MIN 0 CFSM 1.56 IN 21.20

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 2	1530	8.15	102	4- 1	2045	10.92	1,670
1- 2	0615	8.82	412	4- 9	0200	8.74	367
2- 4	0215	8.23	126	4-27	1245	9.85	1,030
2-16	0145	9.27	682				

NEUSE RIVER BASIN

67

02092500 Trent River near Trenton, N. C.

LOCATION.--Lat 35°03'54", long 77°27'24", Jones County, on left bank 50 ft downstream from Free Bridge on Secondary Road 1129, 800 ft downstream from Little Chinquapin Branch, 1.5 miles southwest of Phillips Crossroads, and 6 miles west of Trenton.

DRAINAGE AREA.--168 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 19.15 ft above mean sea level. Prior to Mar. 21, 1951, non-recording gage on bridge 50 ft upstream at same datum.

AVERAGE DISCHARGE.--22 years, 203 cfs (16.41 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,730 cfs Feb. 17 (gage height, 14.67 ft); minimum, 3.5 cfs Sept. 30 (gage height, 2.45 ft).

Period of record: Maximum discharge, 9,100 cfs Sept. 21, 1955 (gage height, 17.84 ft); minimum, 1.3 cfs Oct. 11-15, 1954.

Flood in 1928 reached a stage of 17.3 ft (discharge, 7,600 cfs), from information furnished by North Carolina State Highway Commission.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	350	600	368	355	370	652	272	18	108	14	9.4
2	79	350	700	468	345	388	1,350	292	16	77	15	7.5
3	62	340	660	614	411	382	2,210	192	14	57	30	6.4
4	52	330	640	677	533	383	2,440	196	13	44	55	5.7
5	45	310	600	628	700	402	1,640	255	11	36	76	5.5
6	39	290	540	555	721	440	1,040	257	13	43	102	5.3
7	36	280	500	491	634	475	761	217	9.9	95	86	4.9
8	36	270	450	451	518	519	783	177	9.2	127	57	4.5
9	38	260	410	422	421	528	954	146	8.4	116	40	5.5
10	42	210	410	396	374	478	1,160	141	8.4	93	30	18
11	43	160	380	375	356	405	1,090	129	11	62	24	43
12	38	130	350	356	369	341	856	110	14	41	20	68
13	30	100	300	339	399	322	645	89	13	35	17	66
14	22	90	250	325	492	322	497	71	100	35	15	66
15	18	96	230	311	1,030	305	372	63	103	32	13	61
16	17	90	245	307	1,970	272	264	59	67	32	12	45
17	16	130	244	321	2,640	242	206	51	47	41	19	31
18	15	210	233	344	2,420	224	176	45	158	61	24	20
19	14	220	214	369	1,580	205	154	40	250	74	24	15
20	15	200	193	395	1,040	188	137	37	307	69	23	13
21	16	190	178	406	768	177	123	33	353	48	22	10
22	18	180	256	414	601	219	111	30	338	34	18	8.7
23	17	170	315	441	498	266	100	28	285	24	15	7.7
24	16	140	337	479	419	281	88	28	243	18	13	6.8
25	30	100	342	542	357	271	77	29	216	16	12	6.4
26	50	250	328	565	307	265	72	30	194	13	15	5.7
27	100	280	303	501	299	259	570	30	169	11	22	5.3
28	200	300	266	431	336	244	729	28	160	11	24	4.9
29	250	320	227	396	-----	221	701	25	157	11	22	4.2
30	300	400	196	379	-----	200	577	22	140	11	17	3.8
31	320	-----	204	370	-----	191	-----	20	-----	16	13	-----
TOTAL	2,077	6,746	11,101	13,436	20,893	9,785	20,535	3,142	3,445.9	1,491	889	564.2
MEAN	67.0	225	358	433	746	316	685	101	115	48.1	28.7	18.8
MAX	320	400	700	677	2,640	528	2,440	292	353	127	102	68
MIN	14	90	178	307	299	177	72	20	8.4	11	12	3.8
CFSM	.40	1.34	2.13	2.58	4.44	1.88	4.08	.60	.68	.29	.17	.11
IN.	.46	1.49	2.46	2.98	4.63	2.17	4.55	.70	.76	.33	.20	.12

CAL YR 1972 TOTAL 95,864.0 MEAN 262 MAX 1,860 MIN 14 CFSM 1.56 IN 21.23
 WTR YR 1973 TOTAL 94,105.1 MEAN 258 MAX 2,640 MIN 3.8 CFSM 1.54 IN 20.84

NOTE.--No gage-height record Oct. 13 to Dec. 15.

02093000 New River near Gum Branch, N. C.

LOCATION.--Lat 34°50'56", long 77°31'11", Onslow County, on left bank 8 ft downstream from bridge on Secondary Road 1314, 0.7 mile downstream from Jenkins Swamp, 1.8 miles southwest of Gum Branch, and 3.8 miles south-east of Richlands.

DRAINAGE AREA.--74.5 sq mi.

PERIOD OF RECORD.--August 1949 to September 1973 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Aug. 19, 1949, to Mar. 22, 1950, nonrecording gage and Mar. 23, 1950 to Mar. 25, 1969, water-stage recorder at site 0.2 mile upstream at datum 2.52 ft higher.

AVERAGE DISCHARGE.--24 years, 115 cfs (20.96 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,800 cfs Feb. 16 (gage height, 13.09 ft); minimum, 11 cfs June 13 (gage height, 1.64 ft).

Period of record: Maximum discharge, 7,900 cfs Sept. 20, 1955 (gage height, 19.99 ft, from floodmark, site and datum then in use); minimum, 1.8 cfs Oct. 7, 1954.

Flood of 1908 reached a stage of about 18 ft, at former site and datum, from information by local resident.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	73	620	465	151	232	924	177	16	74	28	20
2	26	61	465	486	249	198	1,590	134	16	50	25	19
3	25	53	309	350	441	210	1,050	109	15	39	49	19
4	25	47	248	296	346	271	511	204	15	36	232	20
5	28	43	202	261	245	276	383	203	14	50	332	19
6	42	39	247	251	195	342	288	150	14	313	217	19
7	40	39	360	236	197	290	245	104	13	141	113	18
8	36	99	299	233	178	238	848	82	12	62	70	18
9	33	107	243	244	219	201	806	105	12	42	48	29
10	23	83	207	227	133	177	449	116	12	32	71	134
11	19	71	179	217	294	163	311	87	15	27	130	132
12	18	62	158	222	308	422	240	67	13	45	63	71
13	18	57	142	203	295	432	193	55	205	35	41	45
14	17	68	132	192	387	297	167	51	236	26	32	36
15	17	75	142	205	1,360	227	141	45	66	33	28	31
16	16	61	185	254	1,700	186	130	42	34	125	61	27
17	16	132	161	255	1,130	184	115	40	28	135	96	26
18	14	172	137	243	612	162	105	38	978	119	189	26
19	19	146	121	239	426	132	96	35	1,500	61	105	23
20	26	171	112	261	352	115	86	32	584	37	68	22
21	21	169	108	230	317	127	84	30	260	27	57	20
22	23	140	340	250	287	210	74	27	315	21	68	19
23	23	113	321	349	257	187	66	25	287	20	52	19
24	27	96	265	296	230	156	60	23	239	20	44	19
25	97	88	214	223	207	139	55	24	152	17	45	19
26	64	338	183	181	190	201	54	24	97	17	38	20
27	40	313	162	176	223	180	686	23	92	17	35	24
28	186	241	142	179	260	145	902	25	76	28	28	22
29	222	180	123	243	-----	124	408	25	81	54	23	19
30	144	451	112	209	-----	119	253	18	134	24	20	18
31	94	-----	293	174	-----	167	-----	17	-----	35	20	-----
TOTAL	1,429	3,788	6,932	7,850	11,289	6,510	11,320	2,137	5,531	1,762	2,428	953
MEAN	46.1	126	224	253	403	210	377	68.9	184	56.8	78.3	31.8
MAX	222	451	620	486	1,700	432	1,590	204	1,500	313	332	134
MIN	14	39	108	174	151	115	54	17	12	17	20	18
CFSM	.62	1.69	3.01	3.40	5.41	2.82	5.06	.92	2.47	.76	1.05	.43
IN.	.71	1.89	3.46	3.92	5.64	3.25	5.65	1.07	2.76	.88	1.21	.48

CAL YR 1972 TOTAL 64,994 MEAN 178 MAX 2,050 MIN 14 CFSM 2.39 IN 32.45
WTR YR 1973 TOTAL 61,929 MEAN 170 MAX 1,700 MIN 12 CFSM 2.28 IN 30.92

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-1	1100	7.31	616	4-2	1130	12.61	1,670
12-31	2300	7.31	616	4-8	2100	9.42	954
2-16	0430	13.09	1,800	4-28	0100	10.20	1,110
3-12	1530	7.47	640	6-19	0600	12.53	1,650

CAPE FEAR RIVER BASIN

69

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 mile downstream from Beaver Creek, and 2 miles east of Oak Ridge.

DRAINAGE AREA.--19.9 sq mi.

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

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

AVERAGE DISCHARGE.--18 years, 21.7 cfs (14.81 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,250 cfs Feb. 2 (gage height, 10.08 ft); minimum, 5.8 cfs Sept. 24, 25 (gage height, 3.09 ft); minimum daily, 7.4 cfs Sept. 8, 19, 23.

Period of record: Maximum discharge, 3,950 cfs Oct. 10, 1959 (gage height, 10.94 ft), from rating curve extended above 1,500 cfs on basis of contracted-opening measurement of peak flow; minimum, 1.5 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	11	26	21	24	19	175	23	18	18	15	8.3
2	11	11	20	20	579	18	71	22	17	19	37	8.1
3	9.6	11	17	21	119	46	40	42	15	19	97	8.1
4	9.5	11	16	34	46	38	33	37	14	21	50	8.3
5	11	9.9	16	25	36	77	29	24	14	18	26	9.0
6	11	9.4	20	23	29	53	26	22	15	15	44	8.8
7	11	11	17	20	27	40	34	21	18	14	21	8.0
8	9.0	32	16	21	28	41	87	31	15	13	16	7.4
9	8.9	15	23	21	26	38	40	33	15	13	14	7.8
10	8.7	13	20	19	23	31	40	24	14	14	13	8.9
11	8.9	12	18	18	21	22	31	24	14	16	12	8.6
12	9.4	11	18	18	20	54	27	20	13	14	11	7.6
13	9.3	11	17	16	21	33	26	18	13	12	12	8.0
14	9.2	69	17	16	29	28	24	17	13	11	12	11
15	9.0	32	216	20	33	28	23	17	13	44	14	9.5
16	9.8	19	123	21	25	34	23	17	13	28	11	8.5
17	10	19	37	19	21	137	22	17	13	26	11	8.2
18	9.1	16	27	20	20	52	23	16	18	20	21	8.1
19	12	24	24	22	20	33	22	15	14	16	19	7.4
20	11	79	24	20	21	29	21	15	13	14	14	8.0
21	9.6	31	32	17	20	30	20	16	19	14	12	7.5
22	9.7	23	149	45	19	32	20	14	49	18	11	7.5
23	11	18	52	34	19	26	19	15	165	19	11	7.4
24	11	16	33	25	19	24	19	20	27	15	11	7.9
25	9.9	25	28	22	18	25	20	16	20	14	11	7.7
26	10	66	25	22	19	33	24	15	17	22	11	7.6
27	9.4	31	23	40	23	32	106	16	16	17	10	9.2
28	30	22	21	37	21	26	49	106	19	14	10	8.5
29	15	19	20	52	-----	25	31	48	63	13	9.2	7.8
30	11	26	20	31	-----	28	26	27	23	13	9.6	9.8
31	11	-----	24	26	-----	46	-----	20	-----	12	9.4	-----
TOTAL	341.0	703.3	1,139	766	1,325	1,188	1,151	768	710	536	585.2	248.5
MEAN	11.0	23.4	36.7	24.7	47.3	38.3	38.4	24.8	23.7	17.3	18.9	8.28
MAX	30	79	216	52	579	137	175	106	165	44	97	11
MIN	8.7	9.4	16	16	18	18	19	14	13	11	9.2	7.4
CFSM	.55	1.18	1.84	1.24	2.38	1.92	1.93	1.25	1.19	.87	.95	.42
IN.	.64	1.31	2.13	1.43	2.48	2.22	2.15	1.44	1.33	1.00	1.09	.46

CAL YR 1972 TOTAL 9,301.8 MEAN 25.4 MAX 1,170 MIN 6.9 CFSM 1.28 IN 17.39
WTR YR 1973 TOTAL 9,461.0 MEAN 25.9 MAX 579 MIN 7.4 CFSM 1.30 IN 17.69

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	2100	8.13	504	6-23	0430	7.48	367
2-2	1330	10.08	1,250				

CAPE FEAR RIVER BASIN

02094500 Reedy Fork near Gibsonville, N. C.

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

DRAINAGE AREA.--133 sq mi.

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

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

AVERAGE DISCHARGE.--45 years, 100 cfs (10.21 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,020 cfs Feb. 3 (gage height, 10.89 ft); minimum daily, 7.0 cfs Sept. 29.

Period of record: Maximum discharge, 11,600 cfs Sept. 25, 1947 (gage height, 20.77 ft); minimum daily, 0.4 cfs Oct. 14, 1954.

Flood in July 1916 reached a stage of 17.90 ft, from information by local resident (discharge, 8,640 cfs).

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow partly regulated since 1923 by Lake Brandt 14 miles upstream (see p. 148), since 1957 by Lake Higgins on Brush Creek, a tributary to Lake Brandt, (see p. 148), since 1943 by Richland Lake 12 miles above station, and since 1968 by Lake Townsend 9 miles above station. City of Greensboro diverted from Lake Brandt an average of 22.4 cfs and an average of 16.5 cfs from Lake Townsend for municipal supply. Cone Mills diverted from Richland Lake an average of 1.5 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	14	68	61	56	58	924	84	46	39	29	8.8
2	18	14	54	127	1,560	54	960	84	43	43	44	8.6
3	13	15	50	187	2,640	94	778	115	40	46	133	8.4
4	8.4	15	51	89	945	185	113	148	39	310	391	8.8
5	70	13	58	69	301	436	68	167	36	56	365	9.4
6	41	13	295	65	80	211	65	125	36	29	183	9.0
7	22	14	47	64	77	362	88	101	40	26	26	8.9
8	14	61	35	84	137	145	549	96	36	25	22	8.6
9	11	27	46	364	217	98	477	122	33	25	20	8.2
10	11	19	46	78	67	236	169	118	32	38	18	8.2
11	14	16	44	46	64	116	111	116	30	29	17	9.6
12	14	16	46	45	63	325	94	95	31	28	16	9.2
13	14	15	47	45	63	235	93	79	28	26	16	9.0
14	14	86	59	45	65	56	85	68	27	24	16	9.8
15	12	48	1,030	51	76	62	81	62	25	23	14	14
16	11	26	1,260	55	75	89	80	60	32	23	13	10
17	16	29	760	53	72	449	82	57	38	32	11	9.5
18	15	27	421	55	70	532	75	53	236	28	27	9.3
19	14	48	205	113	69	412	72	49	76	26	20	9.1
20	17	198	47	187	68	198	70	48	40	24	15	9.0
21	15	84	76	48	68	60	67	46	42	22	16	8.8
22	16	95	497	123	68	77	70	45	64	21	14	8.4
23	16	81	463	359	65	69	69	43	319	20	13	8.1
24	18	214	410	418	64	67	113	45	379	30	12	7.9
25	17	258	378	100	62	68	394	43	346	35	11	7.8
26	16	268	100	50	62	80	347	41	62	39	11	7.6
27	14	294	51	131	160	85	244	42	27	37	10	7.8
28	30	393	50	479	152	83	117	343	27	35	10	7.2
29	23	74	50	491	-----	86	93	567	49	33	9.4	7.0
30	17	58	49	399	-----	93	83	419	39	31	9.2	8.2
31	16	-----	63	194	-----	138	-----	151	-----	31	9.2	-----
TOTAL	647.4	2,533	6,856	4,675	7,466	5,259	6,631	3,632	2,298	1,234	1,520.8	264.2
MEAN	20.9	84.4	221	151	267	170	221	117	76.6	39.8	49.1	8.81
MAX	100	393	1,260	491	2,640	532	960	567	379	310	391	14
MIN	8.4	13	35	45	56	54	65	41	25	20	9.2	7.0

CAL YR 1972 TOTAL 38,234.0 MEAN 104 MAX 3,000 MIN 6.0
WTR YR 1973 TOTAL 43,016.4 MEAN 118 MAX 2,640 MIN 7.0

NOTE.--No gage-height record Aug. 26 to Sept. 30.

CAPE FEAR RIVER BASIN

71

02095500 North Buffalo Creek near Greensboro, N. C.

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

DRAINAGE AREA.--37.0 sq mi.

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

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

AVERAGE DISCHARGE.--45 years, 51.2 cfs (18.79 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,840 cfs Feb. 2 (gage height, 14.65 ft); minimum, 16 cfs Sept. 17, 22 (gage height, 1.99 ft).

Period of record: Maximum discharge, 6,600 cfs June 16, 1969 (gage height, 16.63 ft), from rating curve extended above 2,900 cfs on basis of contracted-opening measurements at gage heights 14.15, 15.96, and 16.63 ft; minimum, 1.6 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	30	73	52	54	41	1,220	48	38	33	46	26
2	28	30	46	49	1,960	41	152	42	41	63	230	25
3	26	31	39	80	195	336	84	324	36	39	366	30
4	28	31	36	150	92	104	64	91	37	35	58	65
5	212	25	37	66	67	199	51	54	36	41	35	31
6	48	29	59	58	60	90	49	47	36	34	35	29
7	37	29	40	48	54	71	226	43	37	31	36	29
8	26	256	50	48	69	164	383	162	36	29	33	27
9	26	38	66	56	66	90	88	89	47	30	31	24
10	27	41	42	55	50	63	67	49	35	39	30	42
11	28	37	41	60	44	79	54	49	169	89	30	30
12	28	29	55	54	42	147	50	44	50	55	32	34
13	28	27	43	48	46	64	46	40	311	33	34	30
14	28	293	88	43	68	56	43	39	65	31	30	61
15	24	50	1,490	65	71	189	41	39	200	34	28	29
16	41	37	161	61	49	205	44	39	100	43	29	25
17	32	63	69	50	45	584	45	39	400	89	30	27
18	30	38	56	48	40	99	44	38	100	37	206	28
19	72	131	53	69	42	66	45	37	60	34	39	27
20	33	413	52	51	42	56	43	36	39	32	37	26
21	26	53	199	42	41	94	41	37	131	36	33	27
22	24	45	555	395	43	120	36	37	503	66	31	25
23	27	39	133	91	46	62	37	35	369	157	35	24
24	29	35	82	56	46	52	40	50	56	31	38	26
25	33	214	73	48	41	51	74	38	43	29	29	27
26	28	251	66	54	50	86	53	35	38	31	35	25
27	28	56	60	198	82	78	718	88	53	37	34	28
28	168	44	54	396	46	49	103	1,100	71	26	30	28
29	31	39	53	421	-----	47	56	81	251	24	29	28
30	30	152	52	86	-----	68	49	55	43	27	28	86
31	30	-----	84	62	-----	206	-----	44	-----	34	29	-----
TOTAL	1,290	2,586	4,007	3,060	3,551	3,657	4,046	2,949	3,431	1,349	1,746	969
MEAN	41.6	86.2	129	98.7	127	118	135	95.1	114	43.5	56.3	32.3
MAX	212	413	1,490	421	1,960	584	1,220	1,100	503	157	366	86
MIN	24	25	36	42	40	41	36	35	35	24	28	24

CAL YR 1972 TOTAL 27,170 MEAN 74.2 MAX 2,660 MIN 21
WTR YR 1973 TOTAL 32,641 MEAN 89.4 MAX 1,960 MIN 24

PEAK DISCHARGE (BASE, 920 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	1000	7.22	992	4- 1	0930	12.36	2,920
11-20	0330	8.68	1,270	4- 8	0300	7.41	1,020
11-25	2200	7.07	967	4-27	1630	8.12	1,150
12-15	1530	13.53	3,860	5- 3	1830	8.04	1,140
12-22	0200	9.59	1,470	5-28	1030	12.28	2,850
1-22	1430	8.12	1,150	6-13	1930	7.94	1,120
1-28	2000	7.97	1,120	6-22	2400	10.64	1,810
2- 2	1030	14.65	4,840	6-29	0230	6.95	946
3-15	2300	7.02	958	8- 3	1530	8.12	1,150
3-17	0800	7.90	1,110				

CAPE FEAR RIVER BASIN

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 downstream from Southern Railway bridge, 800 ft downstream from bridge on U. S. Highway 70 and State Highway 49, and 3 miles downstream from Stony Creek.

DRAINAGE AREA.--599 sq mi.

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

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

AVERAGE DISCHARGE.--45 years, 561 cfs (12.72 inches per year).

EXTREMES.--Current year: Maximum discharge, 13,100 cfs Feb. 2 (gage height, 20.62 ft); minimum, 85 cfs Sept. 23 (gage height, 1.75 ft); minimum daily, 97 cfs Sept. 25.

Period of record: Maximum discharge, 37,000 cfs Sept. 18, 1945 (gage height, 31.10 ft, from floodmark); minimum, 3 cfs Sept. 5, 1930 (gage height, 0.92 ft); minimum daily, 5 cfs Sept. 6, 1930.

REMARKS.--Records excellent. 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. 148) an average of 16.4 cfs 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 811: Drainage area. WSP 1383: 1930, 1932(M), 1933(m), 1936, 1943, 1944(M), 1947(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,160	253	1,240	792	758	601	6,360	392	416	526	198	126
2	597	225	774	593	7,770	489	4,750	498	325	842	424	117
3	532	211	591	717	9,190	1,260	2,310	559	288	586	724	105
4	385	220	499	1,360	4,240	1,920	1,390	1,250	260	681	1,650	118
5	3,350	210	444	1,060	2,330	1,840	882	744	240	519	911	192
6	2,490	193	636	758	1,290	1,800	674	592	225	355	657	132
7	938	178	625	616	937	1,290	717	476	277	280	319	121
8	507	1,060	433	555	727	1,570	3,930	486	241	227	238	116
9	332	873	479	717	959	1,690	2,130	933	237	198	201	108
10	246	449	566	667	641	1,150	1,610	671	206	301	182	107
11	214	368	496	480	531	1,000	1,070	535	197	668	168	132
12	199	300	465	477	463	1,100	787	453	208	659	157	129
13	191	257	475	425	445	1,200	663	381	261	315	159	245
14	185	846	629	392	465	750	571	338	244	235	171	474
15	182	1,230	5,420	450	605	570	532	317	235	207	162	296
16	175	607	7,410	656	596	1,250	496	302	577	214	152	147
17	189	1,150	2,700	576	529	1,750	483	286	432	634	143	127
18	195	1,000	1,660	521	456	2,800	472	279	1,100	1,170	572	119
19	202	710	1,260	510	422	1,400	457	271	690	462	952	124
20	278	4,370	771	756	422	1,000	445	261	329	260	387	117
21	221	1,740	728	497	427	700	427	257	302	213	269	115
22	177	1,020	4,270	745	424	950	403	245	759	192	217	106
23	170	821	2,410	1,830	407	850	386	241	1,730	371	193	98
24	165	715	1,610	1,310	396	700	374	251	999	325	185	101
25	176	794	1,390	946	383	600	627	304	785	221	175	97
26	176	3,530	1,020	602	381	750	828	273	502	195	155	100
27	168	1,800	695	928	823	951	3,010	342	273	200	152	106
28	489	1,200	560	1,620	1,180	770	2,650	3,280	344	200	148	105
29	659	906	491	3,900	-----	640	1,060	3,750	1,530	172	144	105
30	371	669	451	1,920	-----	664	757	1,280	1,030	158	139	148
31	300	-----	750	1,220	-----	1,090	-----	831	-----	155	136	-----
TOTAL	15,621	27,905	41,948	28,596	38,197	35,095	41,251	21,278	15,242	11,741	10,440	4,233
MEAN	504	930	1,353	922	1,364	1,132	1,375	686	508	379	337	141
MAX	3,350	4,370	7,410	3,900	9,190	2,800	6,360	3,750	1,730	1,170	1,650	474
MIN	165	178	433	392	381	489	374	241	197	155	136	97
CFSM	.84	1.55	2.26	1.54	2.28	1.89	2.30	1.15	.85	.63	.56	.24
IN.	.97	1.73	2.61	1.78	2.37	2.18	2.56	1.32	.95	.73	.65	.26

CAL YR 1972 TOTAL 261,672 MEAN 715 MAX 14,600 MIN 101 CFSM 1.19 IN 16.25
WTR YR 1973 TOTAL 291,547 MEAN 799 MAX 9,190 MIN 97 CFSM 1.33 IN 18.11

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 5	1730	14.61	6,780	2- 2	1900	20.62	13,100
12-15	2300	20.09	12,300	4- 1	1330	16.54	8,330

CAPE FEAR RIVER BASIN

73

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 miles upstream from Beaver Creek, and 4.5 miles south of Elon College.

DRAINAGE AREA.--116 sq mi.

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 (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 upstream at same datum.

AVERAGE DISCHARGE.--16 years, 109 cfs (12.76 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,480 cfs Feb. 2 (gage height, 19.30 ft); minimum, 6.1 cfs Sept. 28, 29 (gage height, 1.68 ft).

Period of record: Maximum discharge, 6,250 cfs Jan. 6, 1962 (gage height, 23.06 ft); minimum, 0.27 cfs Sept. 19, 20, 1968.

Flood in September 1945 reached a stage of 29.4 ft, from information by local resident (discharge not determined).

REMARKS.--Records good except those for period of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	52	265	160	181	127	3,120	129	108	160	41	9.8
2	55	45	152	122	3,460	103	702	109	90	109	149	9.2
3	35	42	112	109	1,130	542	355	119	76	95	97	9.0
4	26	44	91	412	410	478	268	166	67	138	71	10
5	872	43	81	245	280	512	219	102	60	103	52	14
6	355	38	100	178	226	438	173	83	57	82	44	11
7	155	35	142	137	197	294	231	74	59	61	39	10
8	90	441	88	136	175	324	1,290	199	57	52	34	9.5
9	57	238	103	143	212	394	425	152	54	47	30	9.0
10	43	121	102	146	158	235	353	110	51	43	29	10
11	36	90	88	116	128	193	241	90	48	47	27	12
12	33	74	89	112	115	362	198	80	84	50	24	10
13	32	63	89	99	109	214	173	70	105	39	23	9.8
14	30	299	194	97	115	160	152	60	117	34	20	12
15	30	244	3,050	111	152	143	140	53	72	48	18	20
16	29	123	1,460	226	120	306	130	50	192	58	16	12
17	31	294	354	173	94	896	123	48	130	1,280	14	11
18	29	244	230	154	83	380	119	44	407	774	80	10
19	32	199	181	154	85	212	112	42	134	178	50	9.8
20	49	1,690	158	190	80	161	104	41	77	104	30	9.6
21	42	362	215	124	84	197	96	40	89	76	24	9.6
22	33	188	2,080	298	78	446	86	37	135	61	22	9.4
23	32	122	472	344	74	284	81	35	432	74	20	9.0
24	32	91	283	185	68	187	77	38	134	81	17	8.8
25	34	163	223	134	63	154	91	48	84	58	15	8.6
26	32	1,070	191	113	71	167	118	42	66	50	14	7.5
27	31	324	170	280	196	281	1,090	122	62	47	13	6.5
28	210	181	142	414	223	166	499	1,880	83	43	12	6.5
29	152	127	124	928	-----	127	226	529	1,920	39	11	6.1
30	76	151	112	324	-----	158	157	223	329	35	10	10
31	59	-----	167	221	-----	350	-----	147	-----	32	10	-----
TOTAL	2,910	7,198	11,308	6,585	8,367	8,991	11,149	4,962	5,379	4,098	1,056	299.7
MEAN	93.9	240	365	212	299	290	372	160	179	132	34.1	9.99
MAX	872	1,690	3,050	928	3,460	896	3,120	1,880	1,920	1,280	149	20
MIN	26	35	81	97	63	103	77	35	48	32	10	6.1
CFSM	.81	2.07	3.15	1.83	2.58	2.50	3.21	1.38	1.54	1.14	.29	.09
IN.	.93	2.31	3.63	2.11	2.68	2.88	3.58	1.59	1.72	1.31	.34	.10

CAL YR 1972 TOTAL 50,390.2 MEAN 138 MAX 3,220 MIN 5.5 CFSM 1.19 IN 16.16
WTR YR 1973 TOTAL 72,302.7 MEAN 198 MAX 3,460 MIN 6.1 CFSM 1.71 IN 23.19

PEAK DISCHARGE (BASE, 2,000 CFS)

NOTE.--No gage-height record Aug. 14 to Sept. 27.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 5	1345	13.58	2,490	4- 1	1115	16.85	3,600
11-20	0415	14.00	2,620	4- 8	0445	12.04	2,030
12-15	1730	18.57	4,200	5-28	1230	14.96	2,940
12-22	0330	13.76	2,550	6-29	1145	14.62	2,820
2- 2	1415	19.30	4,480	7-17	2200	14.86	2,900

CAPE FEAR RIVER BASIN

02096850 Cane Creek near Teer, N. C.

LOCATION.--Lat 35°56'34", long 79°14'46", Orange County, on left bank at downstream side of bridge on State Highway 54, 1.5 miles southwest of Teer, 2.5 miles upstream from mouth, and 10 miles west of Carrboro.

DRAINAGE AREA.--31.3 sq mi.

PERIOD OF RECORD.--October 1959 to September 1973 (discontinued).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 432.30 ft above mean sea level.

AVERAGE DISCHARGE.--14 years, 30.9 cfs (13.41 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,030 cfs Feb. 2 (gage height, 17.46 ft); minimum, 1.2 cfs Sept. 27, minimum gage height, 3.96 ft Sept. 25, 26, 27.

Period of record: Maximum discharge, 4,030 cfs Feb. 2, 1973 (gage height, 17.46 ft); minimum, 0.09 cfs Sept. 22, 23-26, 1968.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	10	120	60	43	46	895	39	20	45	9.7	4.8
2	7.9	8.0	60	41	1,720	36	241	32	18	32	24	4.6
3	5.0	7.6	40	36	257	486	145	30	16	45	46	4.2
4	4.1	8.0	32	131	109	276	112	123	15	48	26	4.0
5	210	7.8	28	63	75	327	85	46	14	62	15	3.9
6	64	7.0	34	49	61	251	65	28	14	27	12	3.8
7	30	6.2	52	39	55	158	205	26	14	22	11	4.4
8	18	200	30	40	49	313	449	93	13	19	9.3	5.0
9	12	70	33	39	55	315	238	42	13	18	8.4	3.8
10	8.3	30	31	36	42	186	169	31	12	17	7.7	3.8
11	6.9	20	27	35	36	139	138	28	11	24	7.3	3.6
12	6.4	16	26	34	34	210	143	24	11	26	7.9	3.4
13	6.1	12	25	31	32	102	102	22	19	17	12	3.2
14	5.7	100	166	30	34	73	74	21	14	15	8.8	4.4
15	5.1	70	1,450	41	38	63	65	20	19	15	7.4	4.9
16	5.2	30	213	69	32	120	53	19	27	15	6.9	5.3
17	5.4	100	79	55	28	321	44	18	17	86	6.5	5.8
18	5.2	70	56	48	27	176	36	20	214	27	37	6.3
19	6.0	50	47	48	27	104	36	19	28	19	18	4.1
20	10	700	41	50	27	80	34	20	117	16	11	3.5
21	8.0	160	55	38	26	164	31	20	131	15	9.7	2.6
22	6.0	70	365	113	25	315	29	18	29	14	10	2.4
23	6.0	40	124	80	25	209	27	17	57	12	9.1	2.2
24	6.0	30	78	50	23	123	25	25	70	12	8.1	1.9
25	6.4	70	57	39	23	92	24	23	64	11	7.8	1.6
26	6.0	500	47	34	32	259	28	20	19	11	6.8	1.4
27	5.6	200	41	72	148	264	176	19	14	10	6.2	1.3
28	100	70	35	102	95	140	400	130	83	9.6	5.8	1.4
29	40	44	31	212	-----	92	126	126	1,250	9.5	5.5	1.8
30	18	60	29	69	-----	110	52	34	90	8.7	5.2	1.8
31	12	-----	73	51	-----	360	-----	24	-----	8.3	4.9	-----
TOTAL	654.3	2,766.6	3,525	1,835	3,178	5,910	4,247	1,157	2,433	716.1	371.0	105.2
MEAN	21.1	92.2	114	59.2	114	191	142	37.3	81.1	23.1	12.0	3.51
MAX	210	700	1,450	212	1,720	486	895	130	1,250	86	46	6.3
MIN	4.1	6.2	25	30	23	36	24	17	11	8.3	4.9	1.3
CFSM	.67	2.95	3.64	1.89	3.64	6.10	4.54	1.19	2.59	.74	.38	.11
IN.	.78	3.29	4.19	2.18	3.78	7.02	5.05	1.38	2.89	.85	.44	.13

CAL YR 1972 TOTAL 14,813.4 MEAN 40.5 MAX 1,450 MIN 1.1 CFSM 1.29 IN 17.61
WTR YR 1973 TOTAL 26,898.2 MEAN 73.7 MAX 1,720 MIN 1.3 CFSM 2.35 IN 31.97

PEAK DISCHARGE (BASE, 900 CFS)

NOTE.--No gage-height record, Oct. 17 to Dec. 8.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-20	Unknown	Unknown	Unknown	3- 3	1300	10.31	1,050
11-26	Unknown	Unknown	Unknown	4- 1	0645	12.80	1,860
12-15	1600	16.19	3,400	4- 7	2300	9.77	912
2- 2	1345	17.46	4,030	6-29	0600	15.61	3,100

CAPE FEAR RIVER BASIN

75

02097000 Haw River near Pittsboro, N. C.

LOCATION.--Lat 35°42'07", long 79°05'12", Chatham County, on left bank 100 ft upstream from Robeson Creek, 1,000 ft downstream from bridge on Secondary Road 1943, 2 miles downstream from bridge on U. S. Highway 64, and 5 miles east of Pittsboro.

DRAINAGE AREA.--1,310 sq mi, approximately.

PERIOD OF RECORD.--October 1928 to September 1973 (discontinued). October 1928 monthly discharge only, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 179.22 ft above mean sea level. Prior to Oct. 15, 1929, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--45 years, 1,221 cfs (12.66 inches per year).

EXTREMES.--Current year: Maximum daily discharge about 11,000 cfs Feb. 3; maximum gage height, 25.37 ft Feb. 3, result of backwater from partially closed B. Everett Jordan Dam under construction; minimum discharge, 36 cfs Sept. 22 (gage height, 1.67 ft); minimum daily, 93 cfs Sept. 25.

Period of record: Maximum discharge, 79,000 cfs Sept. 18, 1945 (gage height, 28.58 ft, from floodmark in gage shelter); minimum, 3.1 cfs Sept. 13, 1954; minimum daily, 5.3 cfs Sept. 20, 1953.

Flood in August 1908 reached a stage of 32.1 ft, from floodmarks 1,000 ft upstream (discharge, 98,000 cfs). Flood in 1865 reached a stage about 1 ft lower than flood of 1908, from information by local residents. Flood in September 1928 reached a stage of 20.3 ft from floodmarks (discharge, 39,200 cfs).

REMARKS.--Records good except those for periods of no gage-height record and those for periods of backwater caused by B. Everett Jordan Dam, which are poor. Considerable diurnal fluctuation and some regulation for short periods at low flow caused by powerplants above station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1383: 1929(M), 1931, 1933-34, 1936(m), 1937, 1941-44(m), 1946-47(m), 1948. WSP 1703: 1957.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,850	582	2,860	2,640	2,070	2,180	6,000	1,700	1,160	5,910	732	161
2	1,420	505	2,330	1,830	6,000	1,510	9,000	1,400	816	1,860	1,000	212
3	938	452	1,620	1,480	11,000	4,500	8,000	1,200	662	1,500	1,050	202
4	794	386	1,350	3,050	10,000	7,000	5,000	1,800	592	1,710	1,800	274
5	1,800	422	1,190	3,290	9,500	5,320	3,500	2,200	538	2,100	2,000	198
6	5,200	452	1,130	2,170	8,000	6,000	2,200	1,600	508	1,200	1,300	282
7	2,550	392	1,630	1,770	6,800	5,400	3,700	1,200	537	837	900	267
8	1,570	2,430	1,280	1,560	5,000	5,000	5,400	1,000	544	662	669	144
9	938	3,140	1,140	1,530	4,000	5,000	3,200	1,800	592	578	508	197
10	642	1,450	1,360	1,740	2,010	3,800	2,000	2,200	490	514	460	270
11	505	978	1,310	1,420	1,470	2,400	1,600	1,500	448	800	364	183
12	440	794	1,240	1,340	1,290	3,000	1,300	1,100	412	1,300	388	180
13	410	666	1,220	1,270	1,200	3,900	1,200	900	532	1,030	442	209
14	344	1,100	3,000	1,130	1,250	3,100	1,100	820	641	634	376	266
15	368	3,300	5,000	1,170	1,600	2,900	1,050	676	683	578	394	618
16	422	1,700	10,000	2,120	1,590	2,200	980	676	988	660	376	438
17	356	5,010	9,000	2,120	1,320	3,400	920	627	1,610	711	340	345
18	350	3,880	8,000	1,810	1,140	5,400	860	620	4,520	3,410	502	236
19	398	2,010	7,000	1,640	1,040	3,500	820	578	3,500	2,000	2,350	198
20	386	6,000	6,200	1,900	1,010	2,600	780	578	1,120	1,140	1,150	202
21	446	7,400	5,200	1,740	1,010	2,200	740	599	2,430	697	740	194
22	422	3,880	7,000	1,850	996	3,500	710	564	2,500	557	576	107
23	422	1,940	7,600	4,250	948	4,100	680	526	3,890	514	481	160
24	362	1,560	6,000	2,920	900	3,000	640	532	2,860	676	410	245
25	344	1,450	4,000	2,220	865	2,400	1,000	592	1,800	514	318	93
26	338	6,600	2,760	1,630	1,340	2,100	1,700	620	1,350	424	341	142
27	368	7,650	1,900	1,900	2,170	2,800	3,000	550	858	424	369	155
28	458	3,080	1,560	3,020	4,080	2,700	5,000	2,000	1,000	412	288	157
29	1,590	2,210	1,320	7,790	-----	1,700	3,800	4,200	6,400	352	277	158
30	1,080	1,670	1,180	5,680	-----	1,610	2,400	4,050	8,000	400	268	158
31	706	-----	1,690	2,820	-----	2,000	-----	1,720	-----	599	254	-----
TOTAL	30,217	73,089	108,070	72,800	89,599	106,220	78,280	40,128	51,981	34,703	21,423	6,651
MEAN	975	2,436	3,486	2,348	3,200	3,426	2,609	1,294	1,733	1,119	691	222
MAX	5,200	7,650	10,000	7,790	11,000	7,000	9,000	4,200	8,000	5,910	2,350	618
MIN	338	386	1,130	1,130	865	1,510	640	526	412	352	254	93
CFSM	.74	1.86	2.66	1.79	2.44	2.62	1.99	.99	1.32	.85	.53	.17
IN.	.86	2.08	3.07	2.07	2.54	3.02	2.22	1.14	1.48	.99	.61	.19

CAL YR 1972 TOTAL 562,211 MEAN 1,536 MAX 23,300 MIN 115 CFSM 1.17 IN 15.97
WTR YR 1973 TOTAL 713,161 MEAN 1,954 MAX 11,000 MIN 93 CFSM 1.49 IN 20.25

NOTE.--No gage-height record Mar. 31 to May 14.

CAPE FEAR RIVER BASIN

02097243 Third Fork Creek at Durham, N. C.

LOCATION.--Lat 35°58'43", long 78°54'48", Durham County, on right bank 60 ft downstream from bridge on Forest Hills Boulevard, at Durham, 7 miles upstream from mouth.

DRAINAGE AREA.--1.67 sq mi.

PERIOD OF RECORD.--November 1968 to May 1973 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 292.78 ft above mean sea level (levels by city of Durham).

EXTREMES.--October 1972 to May 1973: Maximum discharge during period, 1,870 cfs Apr. 27 (gage height, 5.47 ft) from rating curve extended as explained below; minimum daily, 0.28 cfs Oct. 15.

Period of record: Maximum discharge, 1,870 cfs Apr. 27, 1973 (gage height, 5.47 ft) from rating curve extended above 280 cfs on basis of slope-area measurement of peak flow; minimum daily, 0.07 cfs Oct. 7, 28, 1969, Nov. 9, 1970.

REMARKS.--Records good above 0.5 cfs and fair below. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	.58	1.6	1.7	.98	.73	59	.73				
2	.90	.49	.98	1.0	163	.78	3.9	.63				
3	.50	.54	.84	5.0	3.7	43	2.0	11				
4	.49	.63	.73	2.0	2.1	2.5	1.5	5.6				
5	88	.42	.68	.90	1.6	6.6	1.3	1.9				
6	10	.42	1.8	.98	2.5	5.7	1.0	.84				
7	1.3	.54	.63	.63	1.3	1.9	34	.78				
8	.46	51	2.0	.58	3.8	8.3	3.8	17				
9	.38	1.8	.90	1.4	1.5	1.0	1.9	7.2				
10	.31	.84	.68	1.3	1.0	1.0	1.6	2.7				
11	.42	.73	.73	1.8	3.6	8.5	1.1	1.4				
12	.46	.49	.63	1.9	2.0	1.7	1.0	1.3				
13	.34	.46	3.7	1.4	1.7	.68	.90	.84				
14	.31	12	21	1.6	6.6	.63	.90	.63				
15	.28	.73	161	3.0	3.2	.63	.84	.54				
16	1.7	4.4	2.5	1.8	1.8	.58	.90	.58				
17	.38	39	1.0	1.2	1.4	6.6	.73	3.1				
18	.31	.98	.84	.98	1.3	.63	.90	1.0				
19	1.2	17	.84	2.7	1.5	.58	1.4	.42				
20	.70	6.9	.73	.90	1.3	.63	1.6	1.4				
21	.58	1.2	34	.73	1.0	10	1.5	.58				
22	.50	.98	8.0	8.7	1.1	1.5	1.4	1.0				
23	.60	.78	6.6	1.3	1.2	.68	1.4	.54				
24	.80	.68	2.1	.90	1.0	.63	1.4	.50				
25	.72	16	1.4	.84	1.0	.98	2.6	1.3				
26	.70	10	1.5	.98	6.1	.90	6.6	.60				
27	.70	.90	1.8	6.3	10	1.5	111	.50				
28	3.0	.63	1.0	15	.98	.98	1.5	.54				
29	1.0	.58	1.0	2.8	-----	.90	.84	1.5				
30	.60	8.0	.90	.98	-----	3.6	.73	.70				
31	.46	-----	9.7	.84	-----	22	-----	.60	-----			-----
TOTAL	120.60	179.70	271.81	72.14	228.26	136.34	249.24	67.95				
MEAN	3.89	5.99	8.77	2.33	8.15	4.40	8.31	2.19				
MAX	88	51	161	15	163	43	111	17				
MIN	.28	.42	.63	.58	.98	.58	.73	.42				
CFSM	2.33	3.59	5.25	1.40	4.88	2.63	4.98	1.31				
IN.	2.69	4.00	6.05	1.61	5.08	3.04	5.55	1.51				

CAL YR 1972 TOTAL 1,544.70 MEAN 4.22 MAX 161 MIN .20 CFSM 2.53 IN 34.41

PEAK DISCHARGE (BASE, 480 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-5	1210	4.78	872	2-2	1025	5.30	1,550
12-15	1015	5.31	1,570	4-27	0310	5.47	1,870

CAPE FEAR RIVER BASIN

77

02098000 New Hope River near Pittsboro, N. C.

LOCATION.--Lat 35°44'12", long 79°01'36", Chatham County, on right bank at downstream side of bridge on U. S. Highway 68, 0.2 mile downstream from Whiteoak Creek, and 8.8 miles east of Pittsboro.

DRAINAGE AREA.--285 sq mi.

PERIOD OF RECORD.--January 1949 to September 1973 (discontinued).

GAGE.--Water-stage recorder and concrete control since 1953. Datum of gage is 175.75 ft above mean sea level. Prior to Mar. 18, 1950, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--24 years, 281 cfs (13.39 inches per year).

EXTREMES.--Current year: Maximum daily discharge, about 7,000 cfs Feb. 3; maximum gage height, 27.57 ft Feb. 3, result of backwater from partially closed B. Everett Jordan Dam under construction; minimum discharge, 24 cfs Sept. 26, 27 (gage height, 3.09 ft).

Period of record: Maximum discharge, 7,900 cfs Mar. 5, 1952 (gage height, 19.74 ft); minimum, 2.0 cfs Sept. 4, 1953.

Flood in September 1945 reached a stage of 27.65 ft; 1929 flood, 25.3 ft; 1908 flood, 23.85 ft; from information by North Carolina State Highway Commission.

REMARKS.--Records good except those for periods of backwater caused by B. Everett Jordan Dam, which are poor. City of Durham discharged an average of about 11.3 cfs sewage effluent into basin above station, diverted from Neuse River during the year. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	933	199	591	700	1,110	1,010	1,000	700	133	800	40	34
2	607	152	601	742	1,800	1,060	2,500	474	79	750	64	35
3	385	131	619	641	7,000	1,130	1,800	306	68	400	158	30
4	162	120	510	627	4,500	1,700	1,300	365	63	383	155	29
5	91	117	384	700	3,000	2,200	950	426	59	351	201	27
6	620	112	315	708	2,300	2,500	700	404	56	378	184	26
7	800	112	323	625	1,800	1,700	450	291	55	283	91	27
8	700	663	323	508	1,400	1,400	700	215	56	220	54	27
9	570	850	305	470	1,100	1,110	1,200	337	56	197	47	28
10	476	950	309	462	900	912	2,000	479	54	187	42	30
11	111	750	313	464	650	990	1,600	458	54	181	39	29
12	74	600	358	464	540	1,130	1,000	314	52	190	38	26
13	58	468	358	450	480	1,140	509	194	60	214	39	25
14	49	392	903	414	700	1,080	375	162	74	190	175	29
15	44	647	1,000	422	800	833	315	139	86	173	126	43
16	41	637	3,000	643	890	518	277	126	64	174	62	94
17	38	800	2,500	782	848	501	255	122	58	201	52	47
18	42	1,000	1,500	784	544	772	243	122	127	284	71	36
19	52	1,100	1,000	673	382	681	234	124	170	346	274	30
20	47	1,700	600	609	339	545	222	121	128	223	390	28
21	49	2,000	550	541	319	451	208	145	173	182	223	28
22	49	1,600	1,100	506	298	696	192	151	719	166	148	27
23	74	1,200	1,800	675	275	871	181	123	1,850	106	243	26
24	100	850	1,400	718	251	946	181	110	1,970	53	201	25
25	106	537	1,100	655	230	707	185	177	1,420	54	92	25
26	108	800	1,000	488	237	477	195	241	967	48	55	24
27	113	1,200	850	517	508	422	800	167	513	45	46	25
28	149	1,100	673	716	849	409	1,600	127	148	43	42	25
29	343	900	498	1,210	-----	399	1,500	700	1,000	41	39	26
30	390	750	404	1,500	-----	375	1,200	400	900	40	37	25
31	315	-----	442	1,350	-----	556	-----	317	-----	40	35	-----
TOTAL	7,696	22,437	25,629	20,764	34,050	29,221	23,872	8,537	11,212	6,943	3,463	936
MEAN	248	748	827	670	1,216	943	796	275	374	224	112	31.2
MAX	933	2,000	3,000	1,500	7,000	2,500	2,500	700	1,970	800	390	94
MIN	38	112	305	414	230	375	181	110	52	40	35	24

CAL YR 1972 TOTAL 138,028 MEAN 377 MAX 3,000 MIN 22
WTR YR 1973 TOTAL 194,760 MEAN 534 MAX 7,000 MIN 24

CAPE FEAR RIVER BASIN

02098200 Haw River near Haywood, N. C.

LOCATION.--Lat 35°38'50", long 79°03'54", Chatham County, 0.2 mile downstream from B. Everett Jordan Dam (under construction), on right bank 1.3 miles upstream from bridge on U. S. Highway 1, 2.1 miles north of Haywood, and 3.9 miles upstream from mouth.

DRAINAGE AREA.--1,700 sq mi, approximately.

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

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

AVERAGE DISCHARGE.--8 years, 1,395 cfs (11.14 inches per year).

EXTREMES.--Current year: Maximum discharge, 15,400 cfs Feb. 3 (gage height, 19.02 ft, from floodmark); minimum daily discharge, 170 cfs Sept. 22.

Period of record: Maximum discharge, 25,800 cfs Oct. 25, 1971 (gage height, 22.41 ft); minimum daily discharge, 35 cfs Sept. 12, 1966.

REMARKS.--Records good except those for period of no gage-height record or below 350 cfs, which are fair. Some regulation for short periods at low flow caused by powerplants above station. Flows above 12,000 cfs regulated by temporary storage in B. Everett Jordan Reservoir beginning Dec. 16, 1972. Water quality records collected 1.3 miles downstream from station for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,000	771	2,810	4,000	5,000	3,660	9,360	2,900	1,510	7,900	744	374
2	2,000	648	2,930	3,000	8,000	2,610	11,600	1,930	972	6,260	1,260	274
3	1,200	603	2,280	2,200	14,500	4,250	11,000	1,440	798	4,600	1,280	309
4	915	513	1,890	3,700	12,500	7,950	8,000	2,400	728	3,000	2,090	396
5	1,100	546	1,560	4,500	11,500	7,590	5,000	2,530	649	3,400	2,190	407
6	6,060	543	1,390	3,500	10,000	8,020	3,000	1,790	625	1,930	1,550	406
7	4,790	503	1,690	3,000	8,500	7,410	5,000	1,460	614	1,260	1,120	283
8	2,630	2,260	1,710	2,300	6,500	6,070	7,800	1,230	656	937	742	232
9	1,920	4,210	1,440	2,000	5,000	5,980	4,500	2,130	677	789	636	260
10	1,180	2,620	1,590	2,200	3,900	5,150	3,000	2,560	612	700	600	370
11	686	2,050	1,660	1,860	3,000	3,700	2,200	1,810	593	1,490	503	280
12	575	1,830	1,620	1,740	1,900	4,300	1,800	1,450	529	2,020	508	210
13	527	1,150	1,670	1,660	1,600	4,810	1,500	1,120	694	1,330	593	300
14	452	1,240	3,500	1,490	2,000	3,630	1,200	971	1,050	863	599	400
15	468	3,560	6,000	1,490	2,800	2,800	1,100	875	883	742	690	690
16	495	2,390	12,500	2,580	2,620	2,620	1,050	822	1,130	922	520	600
17	439	4,400	11,000	2,600	2,220	4,250	1,000	792	1,990	965	432	450
18	438	2,850	10,500	2,100	1,810	6,650	980	773	4,000	4,370	433	360
19	458	3,840	9,000	1,800	1,490	4,900	930	727	5,310	2,880	2,150	270
20	430	6,450	8,000	2,000	1,410	3,170	900	725	1,800	1,120	1,620	240
21	514	8,280	7,000	1,900	1,380	2,710	860	764	2,870	839	1,070	220
22	521	7,740	8,000	2,080	1,370	4,370	820	749	3,830	792	774	170
23	496	3,080	9,000	4,640	1,310	4,700	800	679	6,540	767	750	240
24	466	2,300	6,800	3,400	1,240	3,530	760	673	6,220	792	673	310
25	442	1,950	5,000	2,500	1,200	2,760	1,300	749	4,280	762	618	200
26	459	5,180	3,500	2,000	1,430	2,410	2,500	857	2,460	457	533	180
27	451	9,000	2,700	3,000	2,280	3,030	4,000	802	1,720	440	487	185
28	525	6,190	2,200	5,000	4,940	2,960	7,200	1,410	1,180	410	456	190
29	1,550	4,250	1,800	8,000	-----	2,240	5,200	5,790	7,380	430	491	200
30	1,370	2,890	1,600	6,500	-----	2,070	3,500	5,980	9,700	500	437	210
31	981	-----	2,800	3,300	-----	3,310	-----	3,620	-----	600	389	-----
TOTAL	38,538	93,837	135,140	92,040	121,400	133,610	107,860	52,508	72,000	54,267	26,938	9,216
MEAN	1,243	3,128	4,359	2,969	4,336	4,310	3,595	1,694	2,400	1,751	869	307
MAX	6,060	9,000	12,500	8,000	14,500	8,020	11,600	5,980	9,700	7,900	2,190	690
MIN	430	503	1,390	1,490	1,200	2,070	760	673	529	410	389	170
CFSM	.73	1.84	2.56	1.75	2.55	2.54	2.11	1.00	1.41	1.03	.51	.18
IN.	.84	2.05	2.96	2.01	2.66	2.92	2.36	1.15	1.58	1.19	.59	.20

CAL YR 1972 TOTAL 721,972 MEAN 1,973 MAX 24,600 MIN 214 CFSM 1.16 IN 15.80
WTR YR 1973 TOTAL 937,354 MEAN 2,568 MAX 14,500 MIN 170 CFSM 1.51 IN 20.51

PEAK DISCHARGE (BASE, 20,000 CFS)

NOTE.--No gage-height record Jan. 17 to Feb. 15.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 3	Unknown	19.02	15,400				

CAPE FEAR RIVER BASIN

79

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 upstream from bridge on Secondary Road 154, 3.3 miles upstream from High Point Dam, and 5.2 miles northeast of High Point College, High Point.

DRAINAGE AREA.--14.7 sq mi.

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

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

AVERAGE DISCHARGE.--45 years, 15.2 cfs (14.04 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,780 cfs Feb. 2 (gage height, 6.09 ft); minimum, 3.0 cfs Oct. 31, Sept. 12, 13, 21 (gage height, 0.31 ft); minimum daily, 3.3 cfs Sept. 12.

Period of record: Maximum discharge, 6,300 cfs Sept. 24, 1947 (gage height, 10.87 ft, from floodmark), from rating curve extended above 1,600 cfs on basis of contracted-opening measurement of peak flow; minimum, 0.7 cfs Sept. 22, 1941 (result of temporary regulation); minimum unregulated, 1.1 cfs 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. Since Apr. 19, 1968 recording rain gage located at station.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	4.4	16	11	16	11	548	13	10	7.8	5.9	4.7
2	4.6	4.1	9.9	9.5	995	10	53	12	9.4	13	31	4.5
3	4.1	4.3	8.4	13	69	85	26	75	8.5	7.9	133	4.4
4	4.1	4.4	7.5	33	30	32	22	32	7.7	7.8	23	4.5
5	5.0	4.2	7.1	17	21	74	18	17	7.3	8.7	11	4.3
6	4.8	4.1	10	13	17	32	15	13	10	7.7	8.8	3.9
7	4.8	4.4	9.1	11	15	24	72	11	10	7.0	7.0	3.7
8	4.0	17	8.9	12	17	36	127	34	8.1	6.4	6.9	3.6
9	3.9	6.1	13	11	17	26	30	27	7.6	6.2	6.6	3.7
10	3.7	5.0	10	10	13	19	28	17	7.2	7.1	5.6	4.1
11	3.8	4.7	9.3	10	11	30	19	16	6.8	13	5.9	3.8
12	3.9	4.5	9.9	9.9	10	44	16	12	6.9	8.9	5.4	3.3
13	4.0	4.5	9.2	9.0	10	20	14	10	7.5	6.6	5.5	3.5
14	4.0	4.9	13	9.0	17	17	13	9.7	9.9	6.1	5.4	5.6
15	3.9	12	579	15	19	49	12	9.2	13	6.1	5.1	4.4
16	4.7	6.5	58	17	13	63	12	8.7	27	18	4.9	4.1
17	4.4	7.2	22	15	11	192	11	8.6	12	35	5.0	4.0
18	4.0	5.9	15	14	10	33	11	8.1	19	16	9.5	4.0
19	6.4	39	13	16	9.9	20	11	7.9	8.9	8.6	6.1	3.8
20	4.6	49	11	14	9.8	18	11	8.0	7.9	7.3	5.6	3.6
21	4.2	13	74	11	9.6	21	10	7.6	40	6.6	5.2	3.7
22	4.1	8.1	137	109	9.1	26	9.8	7.4	202	6.0	5.2	3.7
23	4.0	6.8	33	32	9.0	18	9.7	7.7	57	58	5.1	3.7
24	4.2	6.2	20	18	8.6	15	9.5	9.5	16	12	5.3	3.7
25	4.0	35	16	14	8.3	15	11	8.3	11	8.3	5.5	3.6
26	4.0	51	14	14	9.7	21	14	7.9	9.0	8.1	5.6	3.7
27	4.1	15	12	51	19	23	201	11	14	12	5.4	5.2
28	16	9.9	11	81	14	16	40	452	9.3	7.6	5.2	5.2
29	6.5	8.1	9.3	145	-----	15	20	34	17	6.5	5.1	4.8
30	5.7	20	9.0	28	-----	17	16	18	8.8	5.9	5.0	6.6
31	5.0	-----	14	19	-----	63	-----	13	-----	5.7	4.9	-----
TOTAL	150.8	413.4	1,188.6	791.4	1,418.0	1,085	1,410.0	925.6	588.8	341.9	354.7	125.4
MEAN	4.86	13.8	38.3	25.5	50.6	35.0	47.0	29.9	19.6	11.0	11.4	4.18
MAX	16	51	579	145	995	192	548	452	202	58	133	6.6
MIN	3.7	4.1	7.1	9.0	8.3	10	9.5	7.4	6.8	5.7	4.9	3.3
CFSM	.33	.94	2.61	1.73	3.44	2.38	3.20	2.03	1.33	.75	.78	.28
IN.	.38	1.05	3.01	2.00	3.59	2.75	3.57	2.34	1.49	.87	.90	.32

CAL YR 1972 TOTAL 6,460.6 MEAN 17.7 MAX 946 MIN 3.2 CFSM 1.20 IN 16.35
WTR YR 1973 TOTAL 8,793.6 MEAN 24.1 MAX 995 MIN 3.3 CFSM 1.64 IN 22.25

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1200	5.15	2,300	5-28	0645	4.28	1,780
2- 2	0930	6.09	2,780	6-22	1930	3.50	1,260
4- 1	0800	4.62	1,990				

CAPE FEAR RIVER BASIN

02099500 Deep River near Randleman, N. C.

LOCATION.--Lat 35°54'06", long 79°51'05", Randolph County, on left bank 500 ft downstream from bridge on Secondary Road 1929, 0.2 mile downstream from Coltrane's mill, 0.5 mile south of Guilford County line, 4.8 miles upstream from Muddy Creek, and 7 miles north of Randleman.

DRAINAGE AREA.--124 sq mi.

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

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

AVERAGE DISCHARGE.--45 years, 120 cfs (13.14 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,850 cfs July 17 (gage height, 24.61 ft); minimum, 14 cfs Oct. 15, 16 (gage height, 1.90 ft); minimum daily, 16 cfs Oct. 9.
Period of record: Maximum discharge, 20,000 cfs Sept. 25, 1947 (gage height, 32.2 ft, from floodmark) from rating curve extended above 7,100 cfs on basis of contracted-opening measurement of peak flow at bridge 1.5 miles upstream; minimum, 0.5 cfs Nov. 28, 1931 (gage height, 1.41 ft); minimum daily, 1.2 cfs Nov. 12, 1933.

REMARKS.--Records good. Some regulation by High Point Lake and Oak Hollow Reservoir (see p. 148). City of High Point diverted an average of 15.0 cfs for municipal water supply during water year; 11.0 cfs was discharged as sewage effluent into Richland Creek above station and 5.5 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	25	202	105	165	92	2,830	112	130	98	48	20
2	28	25	112	86	4,410	79	797	91	105	156	559	19
3	22	25	78	82	1,350	640	329	156	91	108	556	18
4	20	24	66	282	366	450	230	291	81	33	385	20
5	26	23	60	183	238	617	180	146	74	177	161	22
6	28	21	83	143	186	428	140	93	72	119	100	21
7	24	25	84	104	156	314	268	76	116	65	73	21
8	18	159	73	117	154	406	1,050	166	81	51	58	19
9	16	52	100	122	175	341	372	272	77	45	49	17
10	19	32	91	104	128	231	251	143	71	45	43	28
11	18	26	80	102	100	195	187	118	65	70	37	37
12	18	24	118	98	89	324	147	92	61	94	33	26
13	20	25	97	78	87	213	126	76	63	48	32	24
14	19	235	155	77	106	159	105	65	91	37	34	47
15	17	105	2,290	112	184	145	97	62	62	66	31	29
16	17	49	1,240	170	138	428	93	55	222	139	29	22
17	23	63	314	148	104	1,250	98	51	164	4,440	29	22
18	20	44	179	142	75	446	86	50	509	730	105	25
19	28	61	136	169	76	234	84	45	102	221	73	24
20	29	627	113	170	75	175	78	43	89	121	55	23
21	20	197	246	110	75	222	72	44	85	86	44	23
22	18	91	1,360	609	75	307	68	43	245	68	37	21
23	17	63	428	393	66	192	65	41	460	285	32	19
24	22	45	246	213	62	152	64	74	163	207	30	19
25	22	132	179	146	57	134	75	61	85	94	29	22
26	24	541	143	124	78	193	87	50	59	98	25	22
27	24	222	131	399	131	198	1,100	116	84	142	24	24
28	120	116	101	693	127	144	600	3,140	218	88	25	23
29	48	80	86	973	-----	116	230	761	1,320	63	25	20
30	31	140	80	353	-----	155	149	294	179	50	24	35
31	28	-----	115	215	-----	381	-----	179	-----	44	23	-----
TOTAL	832	3,301	8,786	6,822	9,033	9,371	10,048	7,006	5,224	8,138	2,808	712
MEAN	26.8	110	283	220	323	302	335	226	174	263	90.6	23.7
MAX	120	627	2,290	973	4,410	1,250	2,830	3,140	1,320	4,440	559	47
MIN	16	21	60	77	57	79	64	41	59	37	23	17

CAL YR 1972 TOTAL 47,780 MEAN 131 MAX 3,710 MIN 14
WTR YR 1973 TOTAL 72,081 MEAN 197 MAX 4,440 MIN 16

PEAK DISCHARGE (BASE, 2,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1900	17.83	4,330	5-28	1500	20.08	5,490
2- 2	1400	21.77	6,590	6-29	0300	14.94	3,240
4- 1	1300	17.31	4,120	7-17	1600	24.61	8,850

CAPE FEAR RIVER BASIN

81

02100500 Deep River at Ramseur, N. C.

LOCATION.--Lat 35°43'40", long 79°39'10", Randolph County, on right bank 0.2 mile downstream from Main Street bridge in Ramseur, 0.5 mile downstream from mill dam, and 1.5 miles downstream from Sandy Creek.

DRAINAGE AREA.--346 sq mi.

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

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

AVERAGE DISCHARGE.--50 years, (1923-73) 343 cfs (13.46 inches per year).

EXTREMES.--Current year: Maximum discharge, 17,000 cfs June 29 (gage height, 22.51 ft); minimum, 43 cfs Sept. 25-27; minimum gage height, 0.84 ft Oct. 11, 12, 13, 14, 16, 17.

Period of record: Maximum discharge, 43,000 cfs Sept. 18, 1945 (gage height, 34.04 ft, from floodmark), from rating curve extended above 18,000 cfs on basis of slope-area measurement of peak flow; minimum, 0.4 cfs May 27, Nov. 28, 29, 1941; minimum daily, 0.7 cfs Nov. 29, 1941.

Flood in August 1901 reached a stage of 28.75 ft, from floodmarks, 0.2 mile upstream (discharge, 30,000 cfs).

REMARKS.--Records excellent. 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.) and small powerplant reservoirs. Town of Asheboro diverted an average of 4.4 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257	71	507	323	436	372	7,660	300	236	497	137	66
2	99	64	311	264	9,160	298	2,710	255	192	473	1,240	69
3	65	61	224	239	5,480	2,440	966	278	165	395	872	57
4	55	60	186	784	1,080	1,760	658	534	145	406	906	58
5	113	58	168	560	655	1,420	527	344	131	486	352	72
6	220	56	191	426	515	1,410	416	244	126	436	230	63
7	107	60	248	346	446	972	706	205	161	288	180	64
8	74	800	195	334	406	999	3,340	268	153	256	161	61
9	58	300	282	358	545	1,390	1,200	696	140	236	150	56
10	49	200	259	334	398	722	892	362	135	215	137	50
11	45	140	239	320	380	559	592	257	118	198	123	48
12	44	120	292	315	340	891	456	220	137	205	115	61
13	45	100	277	260	320	630	398	183	764	228	109	61
14	46	800	1,340	242	1,000	458	341	159	801	209	111	65
15	47	300	7,730	323	600	397	310	151	227	182	107	99
16	45	1,400	5,220	615	353	665	292	141	381	339	99	91
17	45	387	1,060	510	282	2,550	281	133	269	3,420	89	69
18	49	274	591	490	235	1,410	271	131	3,030	4,800	121	56
19	51	193	453	540	229	648	261	123	483	525	239	52
20	61	1,970	398	610	231	466	248	120	515	306	176	53
21	75	628	512	390	224	651	231	122	902	233	142	52
22	57	293	4,050	1,160	219	1,110	218	113	801	200	130	51
23	50	200	1,290	1,360	210	690	208	109	1,110	510	111	50
24	50	157	655	607	196	482	201	195	454	480	95	46
25	53	217	455	415	185	409	208	207	260	254	87	44
26	55	1,980	374	340	237	461	248	143	188	199	84	43
27	55	691	346	1,020	775	574	1,940	131	166	222	76	43
28	246	338	288	1,020	658	426	1,720	3,140	248	216	71	46
29	239	237	248	2,710	-----	349	592	2,840	9,670	177	70	52
30	109	240	224	1,020	-----	403	378	603	1,020	160	68	50
31	83	-----	298	572	-----	1,450	-----	333	-----	144	63	-----
TOTAL	2,647	12,395	28,911	18,807	25,795	27,462	28,469	13,040	23,128	16,895	6,651	1,748
MEAN	85.4	413	933	607	921	886	949	421	771	545	215	58.3
MAX	257	1,980	7,730	2,710	9,160	2,550	7,660	3,140	9,670	4,800	1,240	99
MIN	44	56	168	239	185	298	201	109	118	144	63	43
CFSM	.25	1.19	2.70	1.75	2.66	2.56	2.74	1.22	2.23	1.58	.62	.17
IN.	.28	1.33	3.11	2.02	2.77	2.95	3.06	1.40	2.49	1.82	.72	.19

CAL YR 1972 TOTAL 148,256 MEAN 405 MAX 7,730 MIN 34 CFSM 1.17 IN 15.94
WTR YR 1973 TOTAL 205,948 MEAN 564 MAX 9,670 MIN 43 CFSM 1.63 IN 22.14

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1700	20.82	14,800	5-29	0030	12.23	7,200
2-2	1530	20.05	14,000	6-29	0630	22.51	17,000
4-1	0700	14.95	9,340	7-18	0230	18.75	12,700

CAPE FEAR RIVER BASIN

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 upstream from bridge on U. S. Highway 421, 1.5 miles east of Mount Vernon Springs, and 4 miles upstream from mouth.

DRAINAGE AREA.--15.3 sq mi.

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

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

AVERAGE DISCHARGE.--15 years, 15.1 cfs (13.40 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,280 cfs June 22 (gage height, 8.41 ft); minimum, 0.08 cfs Sept. 30; minimum gage height, 1.82 ft Sept. 28, 30.

Period of record: Maximum discharge, 2,920 cfs Aug. 30, 1964 (gage height, 9.21 ft); no flow at times in most years.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	1.4	22	37	18	35	570	5.6	10	6.3	14	1.4
2	1.1	1.3	12	22	739	20	59	11	8.0	5.4	4.9	1.6
3	.75	1.6	8.7	21	85	60	32	27	6.5	8.1	4.4	1.4
4	.56	1.3	7.6	62	36	170	27	18	5.5	44	22	1.2
5	5.8	1.2	6.9	29	26	60	21	11	5.0	30	140	1.3
6	6.0	1.1	9.6	31	23	35	16	9.0	5.2	8.5	68	1.2
7	3.7	1.1	9.4	22	21	30	152	8.0	5.5	6.0	11	1.1
8	1.9	53	7.0	22	19	27	99	12	5.2	5.0	6.9	1.1
9	1.2	8.8	8.8	22	24	23	36	25	5.6	4.5	5.2	.98
10	.90	4.9	8.2	20	18	21	29	13	4.0	3.8	4.2	.99
11	.73	3.8	9.0	20	17	19	20	7.2	5.0	4.0	3.6	1.1
12	.67	3.2	26	19	16	64	16	4.9	4.5	4.9	4.0	1.2
13	1.1	2.7	17	15	17	35	13	4.4	5.4	3.5	12	1.3
14	1.3	37	207	14	37	23	13	4.0	5.6	3.0	8.1	4.2
15	1.5	11	588	29	40	20	12	3.5	5.9	2.8	3.7	2.0
16	1.5	5.9	94	43	24	25	11	3.2	6.6	7.0	3.0	.99
17	1.7	107	32	37	16	30	10	3.0	12	37	2.5	.70
18	1.8	20	22	35	14	35	9.5	11	168	11	3.5	.63
19	1.8	26	18	41	12	24	8.7	7.0	16	5.1	3.6	.73
20	1.9	107	15	32	11	15	8.0	5.0	13	3.9	2.6	.56
21	1.9	22	46	20	9.5	30	7.5	14	33	3.1	2.7	.62
22	2.1	12	164	65	9.0	60	7.1	5.5	631	2.7	2.5	.55
23	2.5	8.7	108	37	8.2	35	6.6	4.5	364	27	1.9	.59
24	3.1	7.1	43	22	7.6	25	6.5	7.0	33	7.4	1.8	.31
25	4.2	22	26	17	7.0	20	7.0	13	17	4.4	2.6	.20
26	3.7	119	20	14	17	18	95	11	10	3.5	1.9	.14
27	3.2	25	16	32	33	16	25	8.0	8.0	3.3	1.5	.12
28	11	14	13	70	60	14	9.9	6.5	7.2	3.9	1.3	.12
29	4.3	10	11	83	-----	25	7.4	22	24	3.1	1.2	.19
30	2.1	17	10	29	-----	22	7.8	16	8.6	2.4	1.2	.09
31	1.6	-----	71	21	-----	162	-----	13	-----	3.0	1.2	-----
TOTAL	78.11	656.1	1,656.2	983	1,364.3	1,198	1,342.0	313.3	1,440.3	267.6	347.0	28.61
MEAN	2.52	21.9	53.4	31.7	48.7	38.6	44.7	10.1	48.0	8.63	11.2	.95
MAX	11	119	588	83	739	170	570	27	631	44	140	4.2
MIN	.56	1.1	6.9	14	7.0	14	6.5	3.0	4.5	2.4	1.2	.09
CFSM	.16	1.43	3.49	2.07	3.18	2.52	2.92	.66	3.14	.56	.73	.06
IN.	.19	1.60	4.03	2.39	3.32	2.91	3.26	.76	3.50	.65	.84	.07

CAL YR 1972 TOTAL 6,070.90 MEAN 16.6 MAX 588 MIN .21 CFSM 1.09 IN 14.76
WTR YR 1973 TOTAL 9,674.52 MEAN 26.5 MAX 739 MIN .09 CFSM 1.73 IN 23.52

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1600	7.06	1,370	4- 7	2015	5.47	610
12-22	0045	4.76	373	6-18	0100	5.23	526
2- 2	1200	7.74	1,790	6-22	2100	8.41	2,280
4- 1	0415	7.23	1,470	8- 5	2045	5.51	624

NOTE.--No gage-height record Feb. 18 to Mar. 30;
May 13 to June 14.

CAPE FEAR RIVER BASIN

83

02102000 Deep River at Moncure, N. C.

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

DRAINAGE AREA.--1,410 sq mi, 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 above mean sea level.

AVERAGE DISCHARGE.--43 years, 1,444 cfs (13.91 inches per year).

EXTREMES.--Current year: Maximum discharge, 33,700 cfs Feb. 2 (gage height, 10.84 ft); minimum, 95 cfs Sept. 30 (gage height, 1.13 ft).

Period of record: Maximum discharge, 80,300 cfs Sept. 18, 1945 (gage height, 17.20 ft); minimum, 5.5 cfs Oct. 10, 1954 (gage height, 0.35 ft).

REMARKS.--Records good. Diurnal fluctuation and some regulation at low flow caused by small powerplants above station. Water quality records collected 1.5 miles downstream from station for the current year are published in Part 2 of this report.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,000	328	1,320	3,530	2,140	2,470	22,400	1,410	971	3,180	648	175
2	2,000	251	1,650	2,380	15,700	1,540	19,000	1,170	733	1,150	1,520	161
3	1,000	205	1,250	1,620	21,700	7,620	20,100	1,040	611	1,180	2,530	147
4	500	176	943	2,550	20,600	14,100	11,900	1,160	542	2,110	2,600	145
5	246	160	795	3,660	18,300	10,700	3,090	1,360	488	2,850	2,210	144
6	379	150	714	2,660	5,990	9,560	2,190	1,180	450	1,890	1,300	125
7	322	147	873	2,710	2,280	5,270	2,550	928	720	1,240	995	116
8	409	900	1,180	2,140	2,030	3,170	14,200	835	714	833	654	123
9	322	2,130	950	2,080	1,910	3,580	13,500	1,500	567	635	512	123
10	241	1,360	961	2,060	2,140	3,400	6,130	2,060	545	557	435	124
11	192	696	1,020	1,940	1,840	2,310	3,040	1,330	498	505	394	119
12	157	478	1,100	1,900	1,680	4,030	2,200	974	450	478	475	117
13	137	394	1,320	1,780	1,610	4,210	1,810	824	460	475	476	110
14	124	588	6,520	1,540	1,790	2,510	1,550	731	1,270	463	374	155
15	115	2,120	17,900	1,530	4,710	1,860	1,390	666	2,290	438	377	193
16	112	1,620	21,700	3,300	3,620	1,610	1,270	623	1,980	642	366	178
17	109	3,550	18,800	3,920	2,270	2,440	1,200	601	1,490	722	307	227
18	109	3,580	17,200	3,600	1,600	5,440	1,150	595	5,030	3,410	279	242
19	109	1,680	5,250	3,290	1,350	3,120	1,110	599	5,250	5,530	335	206
20	109	4,460	1,700	3,740	1,250	1,870	1,060	612	1,780	1,260	434	169
21	106	5,510	1,660	2,930	1,200	1,710	1,000	599	3,330	726	455	149
22	106	2,320	9,820	2,630	1,140	4,540	944	580	6,440	554	426	136
23	109	1,250	12,000	7,150	1,070	3,960	843	559	17,600	1,540	374	128
24	130	902	7,900	4,550	1,010	2,360	853	529	12,700	4,530	494	123
25	153	748	3,510	2,370	943	1,770	825	540	3,630	1,670	461	120
26	140	5,700	2,250	1,750	902	1,580	814	630	1,350	899	322	114
27	130	6,490	1,800	2,090	1,420	1,700	8,930	665	974	633	267	111
28	172	2,640	1,550	3,870	3,300	1,720	9,580	593	789	531	255	108
29	333	1,420	1,330	4,150	-----	1,400	4,730	3,120	5,800	512	234	101
30	622	1,060	1,150	7,180	-----	1,300	2,050	4,150	8,910	496	216	98
31	487	-----	1,590	3,350	-----	4,470	-----	1,530	-----	463	193	-----
TOTAL	13,180	53,013	147,706	97,950	125,495	117,270	161,509	33,693	88,362	42,102	20,918	4,287
MEAN	425	1,767	4,765	3,160	4,482	3,783	5,384	1,087	2,945	1,358	675	143
MAX	4,000	6,490	21,700	8,150	21,700	14,100	22,400	4,150	17,600	5,530	2,600	242
MIN	106	147	714	1,530	902	1,300	814	529	450	438	193	98
CFSM	.30	1.25	3.38	2.24	3.18	2.68	3.82	.77	2.09	.96	.48	.10
IN.	.35	1.40	3.90	2.58	3.31	3.09	4.26	.89	2.33	1.11	.55	.11

CAL YR 1972 TOTAL 636,093 MEAN 1,738 MAX 21,700 MIN 103 CFSM 1.23 IN 16.78
WTR YR 1973 TOTAL 905,485 MEAN 2,481 MAX 22,400 MIN 98 CFSM 1.76 IN 23.89

PEAK DISCHARGE (BASE, 15,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	2400	10.58	32,000	4- 1	1400	10.01	28,200
2- 2	2300	10.84	33,700	4- 8	0700	7.56	15,400
3- 3	2100	7.82	16,600	6-23	0800	8.78	21,000

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 mile downstream from White Oak Creek, and 2 miles east of Corinth.

DRAINAGE AREA.--74.2 sq mi.

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

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

EXTREMES.--June to September 1972: Maximum discharge during period, 205 cfs June 21 (gage height, 3.72 ft); minimum, 1.8 cfs Sept. 7, 10, 11, 12, 13, 15.

Water year 1973: Maximum discharge, 6,920 cfs Feb. 2 (gage height, 20.02 ft); minimum, 2.9 cfs Sept. 30; minimum gage height, 1.49 ft Sept. 3, 4, 5, 6, 7, 8.

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 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									21	20	22	4.6
2									20	12	31	3.8
3									18	8.2	18	2.9
4									17	6.4	14	5.6
5									14	13	18	8.6
6									13	16	25	4.6
7									12	9.1	20	3.1
8									11	6.4	15	2.7
9									9.3	4.6	13	2.2
10									9.1	3.3	11	2.0
11									6.7	4.9	10	2.0
12									6.0	4.9	6.4	1.8
13									5.3	7.8	5.0	2.0
14									5.3	3.7	4.6	2.0
15									5.6	2.3	4.2	2.2
16									6.4	1.8	3.8	2.7
17									5.6	1.7	3.1	5.6
18									4.9	1.5	6.0	1.6
19									4.6	7.8	6.7	7.4
20									11	3.8	4.6	5.3
21									101	2.4	6.4	4.6
22									109	6.7	4.9	7.4
23									30	6.3	3.5	6.4
24									18	2.9	2.4	4.9
25									14	1.3	2.4	5.3
26									10	1.1	5.6	4.0
27									8.2	1.8	4.6	4.6
28									7.8	7.1	5.6	1.2
29									32	3.3	4.0	3.7
30									31	7.7	2.9	7.1
31		-----			-----		-----		-----	3.4	3.1	-----
TOTAL									566.8	534.2	286.8	244.3
MEAN									18.9	17.2	9.25	8.14
MAX									109	7.8	3.1	7.1
MIN									4.6	2.4	2.4	1.8
CFSM									.26	.23	.13	.11
IN.									.28	.27	.14	.12

PEAK DISCHARGE (BASE, 700 CFS).--No peak above base.

CAPE FEAR RIVER BASIN

85

02102192 Buckhorn Creek near Corinth, N. C.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	12	72	154	80	121	1,410	51	16	54	20	4.2
2	14	12	58	97	3,130	85	691	42	14	36	46	3.8
3	9.5	12	47	72	3,100	460	191	40	12	32	31	3.8
4	6.7	204	41	162	315	620	141	91	11	28	74	3.5
5	14	126	38	124	186	500	166	55	9.5	80	29	3.5
6	60	44	40	135	143	300	199	37	9.1	165	18	3.3
7	34	29	49	124	139	200	130	31	8.6	48	14	3.3
8	16	24	39	105	114	160	92	32	8.6	29	11	3.8
9	11	20	47	114	127	120	78	127	9.1	26	9.5	4.0
10	8.5	26	58	107	112	100	65	77	8.2	23	8.2	7.1
11	8.2	78	52	103	110	90	60	41	8.2	20	7.8	4.6
12	7.8	33	79	110	107	190	56	30	9.5	25	34	4.0
13	7.4	198	87	95	102	150	54	25	12	21	13	4.6
14	6.7	170	477	85	153	120	52	21	18	18	11	8.2
15	7.8	140	1,170	114	378	100	50	20	17	70	9.1	8.2
16	9.9	300	1,530	255	191	95	48	18	11	100	7.8	6.4
17	9.9	490	279	209	116	100	44	18	12	50	6.7	6.4
18	9.9	239	138	191	87	95	42	23	101	30	15	4.9
19	11	90	107	168	78	85	39	19	29	23	10	13
20	14	552	89	174	72	80	36	23	20	19	9.5	7.1
21	21	268	117	108	66	120	33	25	95	15	8.6	5.1
22	18	98	842	121	61	200	31	20	383	12	8.6	3.9
23	13	64	451	163	55	140	29	17	2,540	10	12	3.5
24	18	49	240	97	49	100	27	18	448	9.6	9.1	3.1
25	40	46	151	72	45	80	27	21	129	9.1	8.6	3.1
26	22	562	117	63	48	60	29	18	67	8.6	13	3.3
27	16	283	103	84	174	50	786	17	46	8.6	8.6	3.5
28	13	103	85	123	281	45	546	17	37	8.6	6.7	3.3
29	12	69	69	399	-----	44	114	51	240	9.5	6.0	3.1
30	12	57	62	154	-----	52	68	41	250	7.8	5.6	3.1
31	13	-----	109	99	-----	239	-----	23	-----	11	4.9	-----
TOTAL	491.3	4,398	6,843	4,181	9,619	4,901	5,334	1,089	4,578.8	1,006.8	476.3	142.7
MFAN	15.8	147	221	135	344	158	178	35.1	153	32.5	15.4	4.76
MAX	60	562	1,530	399	3,130	620	1,410	127	2,540	165	74	13
MIN	6.7	12	38	63	45	44	27	17	8.2	7.8	4.9	3.1
CFSM	.21	1.99	2.99	1.82	4.65	2.14	2.41	.47	2.07	.44	.21	.06
IN.	.25	2.21	3.44	2.10	4.84	2.46	2.68	.55	2.30	.51	.24	.07

WTR YR 1973 TOTAL 43,060.9 MEAN 118 MAX 3,130 MIN 3.1 CFSM 1.59 IN 21.65

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-26	1130	7.54	710	3- 3	2300	9.06	1,000
12-16	0145	13.74	2,290	4- 1	1530	12.32	1,840
12-22	0945	9.17	1,020	4-27	1700	9.83	1,180
2- 2	2215	20.02	6,920	6-23	0915	16.25	3,420

CAPE FEAR RIVER BASIN

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 downstream from Norfolk Southern Railway bridge, 0.5 mile north of Lillington, 1 mile downstream from Neal Creek, and at mile 178.

DRAINAGE AREA.--3,440 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 104.62 ft above mean sea level. Prior to Oct. 8, 1927, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--49 years (1924-73), 3,339 cfs (13.18 inches per year).

EXTREMES.--Current year: Maximum discharge, 53,800 cfs Feb. 3 (gage height, 19.27 ft); minimum, 211 cfs Sept. 26 (gage height, 0.93 ft).

Period of record: Maximum discharge not determined, Sept. 19, 1945 (gage height, 33.19 ft, from flood-mark), maximum daily, 140,000 cfs Sept. 19, 1945; minimum discharge, 11 cfs Oct. 14, 15, 1954 (gage height, -0.17 ft).

REMARKS.--Records good. 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 miles 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,580	1,250	4,350	6,600	6,350	7,750	29,600	6,620	3,320	14,300	1,460	492
2	4,710	951	5,430	5,830	24,000	5,130	36,000	3,790	1,940	8,700	3,200	377
3	2,240	798	4,260	4,060	50,400	8,600	32,400	2,830	1,550	6,350	3,140	429
4	1,550	735	3,260	4,950	37,800	24,900	27,800	3,430	1,310	5,060	5,480	411
5	1,150	667	2,710	8,090	35,300	21,300	14,800	4,450	1,180	6,170	5,240	447
6	5,940	623	2,410	6,300	23,700	18,200	11,100	3,350	1,090	5,460	3,330	383
7	7,000	645	2,610	5,540	14,600	15,300	9,010	2,680	1,100	3,110	2,480	427
8	4,160	2,100	3,160	4,690	12,600	10,900	21,100	2,240	1,390	2,110	1,590	441
9	2,800	7,000	2,680	4,270	11,000	9,950	23,700	3,350	1,370	1,610	1,170	328
10	1,980	5,340	2,710	4,320	9,370	9,920	17,300	5,130	1,210	1,410	997	429
11	1,100	3,310	2,890	4,140	5,740	7,090	11,300	3,740	1,160	1,530	888	484
12	798	2,760	2,860	3,870	4,370	8,540	8,390	2,750	1,090	3,090	866	342
13	690	1,940	3,250	3,700	4,120	10,300	5,490	2,130	1,080	2,210	995	339
14	630	1,510	8,190	3,220	4,210	7,610	4,260	1,780	1,820	1,450	859	425
15	516	4,930	24,900	3,040	8,230	5,650	3,680	1,590	3,350	1,260	918	745
16	549	5,250	40,700	5,430	8,130	4,710	3,320	1,450	3,000	1,470	861	876
17	582	7,210	31,300	7,430	5,900	6,010	3,100	1,380	4,140	2,640	740	706
18	503	11,600	30,300	6,820	4,430	11,800	2,930	1,380	7,110	6,710	738	658
19	479	7,320	20,700	6,220	3,570	9,950	2,820	1,330	11,700	9,870	1,770	540
20	542	11,100	12,300	6,400	3,230	6,060	2,680	1,370	5,810	3,670	2,580	457
21	516	16,300	10,600	5,990	3,060	4,980	2,510	1,390	4,810	1,830	1,680	427
22	609	11,600	18,400	4,430	2,930	8,090	2,340	1,330	11,300	1,410	1,340	378
23	542	8,020	22,300	10,100	2,820	9,830	2,190	1,260	34,800	1,390	1,140	291
24	596	5,130	19,400	10,000	2,590	7,020	2,070	1,240	22,700	5,230	1,110	321
25	652	3,440	13,000	5,940	2,440	5,320	1,980	1,350	11,600	3,400	1,160	382
26	575	9,600	9,640	4,320	2,380	4,480	2,220	1,430	5,080	1,810	909	253
27	523	16,300	6,960	3,890	3,730	4,930	13,000	1,530	3,470	1,320	721	291
28	667	10,800	4,300	6,910	8,330	5,340	21,600	1,470	2,420	1,160	687	295
29	1,470	7,050	3,340	13,300	-----	4,240	14,700	7,890	10,900	1,070	603	279
30	2,160	4,810	2,760	15,400	-----	3,740	9,690	11,700	19,100	1,030	574	299
31	1,720	-----	2,750	10,200	-----	5,970	-----	7,020	-----	947	533	-----
TOTAL	54,529	170,089	324,420	195,400	305,330	273,610	343,080	94,380	181,900	108,777	49,759	12,952
MEAN	1,759	5,670	10,470	6,303	10,900	8,826	11,440	3,045	6,063	3,509	1,605	432
MAX	7,000	16,300	40,700	15,400	50,400	24,900	36,000	11,700	34,800	14,300	5,480	876
MIN	479	623	2,410	3,040	2,380	3,740	1,980	1,240	1,080	947	533	253
CFSM	.51	1.65	3.04	1.83	3.17	2.57	3.33	.89	1.76	1.02	.47	.13
IN.	.59	1.84	3.51	2.11	3.30	2.96	3.71	1.02	1.97	1.18	.54	.14

CAL YR 1972 TOTAL 1,505,029 MEAN 4.112 MAX 40,700 MIN 347 CFSM 1.20 IN 16.28
WTR YR 1973 TOTAL 2,114,226 MEAN 5.792 MAX 50,400 MIN 253 CFSM 1.68 IN 22.86

PEAK DISCHARGE (BASE, 30,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-16	1000	17.28	44,100	4-1	2400	16.60	41,000
2-3	0600	19.27	53,800	6-23	0900	15.71	37,000

CAPE FEAR RIVER BASIN

87

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 downstream from culvert on Manchester Road, 0.4 mile upstream from mouth, and 3.6 miles east of Inverness.

DRAINAGE AREA.--7.65 sq mi.

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

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

AVERAGE DISCHARGE.--5 years, 13.5 cfs (23.96 inches per year).

EXTREMES.--Current year: Maximum discharge, 394 cfs Apr. 1 (gage height, 7.30 ft); minimum, 7.8 cfs Sept. 2, 3, 5, 6, 7 (gage height, 1.02 ft).
Period of record: Maximum discharge, 394 cfs Apr. 1, 1973 (gage height, 7.30 ft); minimum, 2.4 cfs Feb. 12, 1969 (gage height, 0.85 ft) due to regulation from unknown source; minimum unregulated, 3.7 cfs many days in August, September and October 1968.

REMARKS.--Records good. Recording rain gage located at station.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	9.9	17	19	16	20	200	20	15	15	11	9.1
2	12	9.5	13	17	151	19	122	19	14	16	13	9.1
3	11	9.5	13	19	93	53	41	19	14	15	14	8.8
4	11	9.5	13	22	56	53	34	24	13	14	15	9.1
5	11	9.2	12	17	20	34	32	18	13	16	13	8.8
6	11	8.8	18	23	25	31	27	17	16	21	18	8.8
7	11	8.8	16	18	22	25	44	17	26	15	11	11
8	9.5	33	13	19	20	24	97	17	20	14	10	14
9	8.8	18	15	18	19	27	34	22	16	14	9.7	13
10	8.5	11	13	18	50	24	30	17	16	14	9.4	29
11	8.8	11	13	18	35	24	27	16	16	15	9.7	12
12	8.5	10	14	18	30	56	26	22	17	16	12	10
13	8.5	9.9	13	17	22	29	26	16	16	13	10	9.7
14	8.5	13	23	17	32	24	25	15	14	12	10	14
15	8.5	11	56	20	47	23	24	15	14	13	10	25
16	8.5	9.9	42	23	30	22	24	14	14	14	13	13
17	8.5	38	23	21	26	23	24	14	14	30	11	11
18	8.2	19	17	21	23	21	23	15	32	18	19	11
19	9.2	16	16	23	20	20	23	14	16	13	12	20
20	9.5	45	16	20	19	20	22	16	15	12	11	12
21	8.8	20	19	16	19	24	21	16	17	12	12	11
22	8.8	15	45	21	18	28	21	14	60	11	12	10
23	8.5	14	25	20	18	21	20	13	119	21	11	9.7
24	15	13	20	16	17	20	20	27	27	22	11	9.7
25	22	16	18	15	16	19	20	29	21	14	14	9.7
26	11	33	17	15	15	20	21	16	18	13	16	9.7
27	9.9	17	16	23	15	20	85	15	18	12	11	9.7
28	22	14	16	20	22	19	34	15	19	14	10	9.4
29	15	13	15	27	-----	18	23	52	22	13	9.7	9.1
30	11	17	15	17	-----	24	22	25	16	11	9.4	9.1
31	9.9	-----	22	16	-----	35	-----	16	-----	11	9.4	-----
TOTAL	339.4	482.0	604	594	896	820	1,192	585	668	464	367.3	355.5
MEAN	10.9	16.1	19.5	19.2	32.0	26.5	39.7	18.9	22.3	15.0	11.8	11.9
MAX	22	45	56	27	151	56	200	52	119	30	19	29
MIN	8.2	8.8	12	15	15	18	20	13	13	11	9.4	8.8
CFSM	1.42	2.10	2.55	2.51	4.18	3.46	5.19	2.47	2.92	1.96	1.54	1.56
IN.	1.65	2.34	2.94	2.89	4.36	3.99	5.80	2.84	3.25	2.26	1.79	1.73

CAL YR 1972 TOTAL 5,471.2 MEAN 14.9 MAX 96 MIN 6.8 CFSM 1.95 IN 26.61
WTR YR 1973 TOTAL 7,367.2 MEAN 20.2 MAX 200 MIN 8.2 CFSM 2.64 IN 35.82

PEAK DISCHARGE (BASE, 60 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	2030	2.33	79	4- 8	0330	3.72	166
2- 2	1330	6.32	325	4-27	1145	3.21	136
3- 3	2200	2.70	103	5-29	1345	2.40	84
3-12	1515	2.19	70	6-23	0500	5.01	244
4- 1	0515	7.30	394				

CAPE FEAR RIVER BASIN

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 upstream from William O. Huske Lock, 1 mile downstream from Cumberland-Bladen County line, 7 miles north of Tarheel, 9 miles upstream from Phillips Creek, and at mile 123.

DRAINAGE AREA.--4,810 sq mi, 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 above mean sea level. Prior to Jan. 8, 1939, nonrecording gage on upper lock wall 100 ft downstream at same datum. Auxiliary water-stage recorder 1.8 miles downstream from base gage; prior to Jan. 14, 1943, auxiliary non-recording gage 400 ft downstream on lower end of lock wall; Jan. 14, 1943 to Sept. 30, 1953, auxiliary water-stage recorder at site 600 ft downstream.

AVERAGE DISCHARGE.--36 years, 8,190 cfs (13.98 inches per year).

EXTREMES.--Current year: Maximum discharge, 46,800 cfs Feb. 4; maximum gage height, 28.49 ft Feb. 5; minimum discharge, 740 cfs Sept. 30 (gage height, 1.07 ft); minimum daily, 764 cfs Sept. 30.

Period of record: Maximum discharge not determined; maximum gage height, 43.44 ft Sept. 22, 1945; maximum daily discharge, 112,000 cfs Sept. 21, 1945; minimum discharge, 170 cfs Sept. 20, 1954; minimum daily, 208 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5,350	2,500	7,450	7,420	15,800	11,400	12,000	13,100	8,360	16,000	2,270	1,060
2	8,550	2,100	7,350	10,100	13,800	9,440	21,000	8,830	4,950	13,000	4,130	1,020
3	5,880	1,700	7,250	8,700	37,000	7,950	42,000	5,690	3,290	10,000	6,010	884
4	3,670	1,500	5,940	7,760	46,200	18,400	45,000	5,250	2,550	7,270	6,670	895
5	2,680	1,440	4,960	10,000	44,300	21,000	42,000	6,100	2,180	7,210	7,040	960
6	2,910	1,380	4,410	11,800	41,300	22,000	34,000	6,010	1,970	8,620	5,920	1,020
7	7,890	1,900	4,410	10,100	29,700	21,000	27,000	4,920	1,860	6,690	4,360	942
8	6,850	5,700	4,770	9,310	23,100	20,100	21,000	4,040	2,180	4,560	3,390	936
9	4,360	6,780	4,890	8,440	19,400	15,900	26,000	3,980	2,430	3,200	2,570	1,020
10	3,240	8,120	4,460	8,060	16,800	14,600	30,000	5,530	2,390	2,640	2,050	1,000
11	2,460	5,940	4,520	7,950	13,900	12,600	26,000	6,410	2,290	2,350	1,810	1,130
12	1,670	4,430	4,480	7,580	10,100	11,200	19,000	5,100	2,280	3,450	1,830	1,230
13	1,370	3,750	4,540	7,240	8,420	13,600	15,000	4,000	2,160	3,950	1,850	1,100
14	1,260	2,710	5,020	6,820	8,390	13,900	10,000	3,230	2,280	3,060	1,800	1,040
15	1,240	3,040	14,300	6,360	11,400	11,500	7,700	2,940	3,220	2,320	1,690	1,220
16	1,110	6,280	27,000	6,980	13,600	9,020	6,500	2,660	4,310	2,830	1,790	1,590
17	1,100	6,870	35,900	10,000	13,000	8,080	6,140	2,470	5,160	3,090	1,670	1,600
18	2,080	10,000	34,600	11,300	10,700	10,600	5,820	2,320	7,070	5,480	1,540	1,530
19	3,000	14,000	33,400	10,700	8,300	13,300	5,490	2,300	13,000	9,860	1,660	1,560
20	2,540	11,000	28,400	10,200	7,120	10,800	5,040	2,260	14,000	9,270	2,860	1,500
21	2,100	15,000	21,300	10,300	6,500	8,070	4,960	2,350	7,380	4,170	3,000	1,290
22	1,700	17,000	19,000	9,280	6,120	8,040	4,650	2,330	8,920	2,760	2,460	1,140
23	1,510	14,000	23,900	10,200	5,770	12,300	4,330	2,290	13,000	2,560	2,090	997
24	1,410	10,000	25,900	13,900	5,430	11,900	4,070	2,420	21,000	4,070	2,000	880
25	1,330	7,230	24,900	12,300	5,100	8,950	3,810	2,860	20,000	6,910	2,140	850
26	1,280	6,880	20,100	9,060	4,850	7,390	3,730	2,950	15,000	4,990	2,040	851
27	1,800	14,600	15,500	7,030	5,170	6,980	6,050	2,920	10,000	3,350	1,720	789
28	2,050	16,000	11,200	7,850	7,690	7,490	18,700	2,630	6,180	3,430	1,500	772
29	2,100	13,200	7,720	12,500	-----	6,990	21,700	4,910	5,690	3,400	1,390	776
30	2,670	10,100	6,360	17,200	-----	6,150	17,800	12,800	11,000	2,600	1,250	764
31	3,000	-----	5,930	17,200	-----	7,120	-----	14,200	-----	2,250	1,140	-----
TOTAL	90,160	225,150	429,860	303,640	438,960	367,770	496,490	149,800	206,100	165,340	83,640	32,346
MEAN	2,908	7,505	13,870	9,795	15,680	11,860	16,550	4,832	6,870	5,334	2,698	1,078
MAX	8,550	17,000	35,900	17,200	46,200	22,000	45,000	14,200	21,000	16,000	7,040	1,600
MIN	1,100	1,380	4,410	6,360	4,850	6,150	3,730	2,260	1,860	2,250	1,140	764
CFSM	.60	1.56	2.88	2.04	3.26	2.47	3.44	1.00	1.43	1.11	.56	.22
IN.	.70	1.74	3.32	2.35	3.39	2.84	3.84	1.16	1.59	1.28	.65	.25

CAL YR 1972 TOTAL 2,085,083 MEAN 5.697 MAX 35,900 MIN 782 CFSM 1.18 IN 16.13
WTR YR 1973 TOTAL 2,989,256 MEAN 8.190 MAX 46,200 MIN 764 CFSM 1.70 IN 23.12

89

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

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 13.9 cfs 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.

CAL YR 1972	TOTAL	2,287,604	MEAN	6,250	MAX	37,300	MIN	840	CFSM	1.20	IN	16.30
WTR YR 1973	TOTAL	3,355,389	MEAN	9,193	MAX	54,400	MIN	858	CFSM	1.76	IN	23.91

CAPE FEAR RIVER BASIN

02105900 Hood Creek near Leland, N. C.

LOCATION.--Lat 34°16'43", long 78°07'34", Brunswick County, on right bank 150 ft downstream from bridge on U. S. Highway 74 and 76, 0.4 mile downstream from Pasture Pond Branch, 1 mile southeast of Maco, and 4.8 miles northwest of Leland.

DRAINAGE AREA.--21.6 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements water years 1950-56, and annual maximum, water years 1953-56. October 1956 to September 1973 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 12.22 ft above mean sea level. Prior to Nov. 28, 1956, crest-gage at site 150 ft upstream at datum 9.60 ft lower. Nov. 29, 1956 to Apr. 24, 1969 water-stage recorder 150 ft upstream at datum 0.19 ft higher.

AVERAGE DISCHARGE.--17 years, 36.2 cfs (22.76 inches per year).

EXTREMES.--Current year: Maximum discharge, 564 cfs Feb. 15 (gage height, 6.96 ft); minimum daily, 0.19 cfs June 11, 12.
Period of record: Maximum discharge, 2,050 cfs Sept. 20, 1955 (gage height, 10.58 ft, present datum) from rating curve extended above 650 cfs; no flow Oct. 5, 1968.

REMARKS.--Records good except those below 2.0 cfs, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	4.7	292	173	43	60	316	15	2.0	9.4	113	8.2
2	6.6	4.2	174	223	61	47	393	11	1.4	5.8	88	7.0
3	5.0	3.6	116	141	135	44	197	9.5	.67	4.2	183	6.8
4	4.2	5.4	87	113	119	49	133	24	.30	6.0	240	6.0
5	9.1	8.2	68	103	85	48	107	23	.23	15	154	6.3
6	69	5.8	80	89	64	44	84	14	.23	19	96	5.6
7	70	5.0	162	78	54	40	70	9.3	.21	15	65	5.0
8	31	14	142	77	49	35	135	7.1	.20	12	42	4.2
9	16	18	101	77	67	31	158	20	.20	9.7	27	5.4
10	11	10	78	66	101	29	108	28	.20	7.6	51	29
11	8.2	7.9	63	60	110	30	79	16	.19	8.5	135	57
12	6.8	6.8	51	63	102	35	38	25	.19	25	101	37
13	5.8	6.0	44	67	85	39	46	29	3.0	39	64	22
14	5.0	16	40	62	121	33	37	19	18	24	36	16
15	4.0	34	42	60	486	27	31	25	25	15	34	16
16	3.3	22	54	69	391	24	26	24	43	17	56	13
17	2.7	28	53	74	236	25	23	14	29	19	46	11
18	2.2	37	41	71	151	26	20	9.4	20	38	34	9.8
19	2.0	26	34	73	111	21	18	6.8	18	42	26	7.9
20	2.4	26	31	79	91	18	16	5.0	15	31	19	6.8
21	2.7	26	30	72	78	23	14	4.0	14	19	25	6.3
22	2.4	19	59	82	68	33	12	2.9	13	15	58	5.8
23	2.2	15	98	185	59	33	11	1.9	24	23	95	5.2
24	2.4	13	77	145	51	27	9.4	2.0	48	25	61	4.2
25	5.6	16	58	100	44	26	8.9	2.7	43	18	42	4.4
26	5.8	70	47	76	41	33	8.2	1.8	31	14	30	5.4
27	4.4	113	41	66	54	316	36	1.5	26	12	22	4.7
28	8.5	77	36	68	71	35	60	1.2	35	18	19	3.6
29	11	49	31	69	-----	27	36	1.2	29	196	14	2.7
30	7.0	149	31	64	-----	26	21	1.2	15	170	12	2.6
31	5.4	-----	48	52	-----	33	-----	1.9	-----	110	9.7	-----
TOTAL	331.4	835.6	2,309	2,797	3,128	1,317	2,271.5	356.4	455.02	982.2	1,997.7	324.9
MEAN	10.7	27.9	74.5	90.2	112	42.5	75.7	11.5	15.2	31.7	64.4	10.8
MAX	70	149	292	223	486	316	393	29	48	196	240	57
MIN	2.0	3.6	30	52	41	18	8.2	1.2	.19	4.2	9.7	2.6
CFSM	.50	1.29	3.45	4.18	5.19	1.97	3.50	.53	.70	1.47	2.98	.50
IN.	.57	1.44	3.98	4.82	5.39	2.27	3.91	.61	.78	1.69	3.44	.56

CAL YR 1972 TOTAL 10,849.30 MEAN 29.6 MAX 361 MIN .10 CFSM 1.37 IN 18.68
WTR YR 1973 TOTAL 17,105.72 MEAN 46.9 MAX 486 MIN .19 CFSM 2.17 IN 29.46

PEAK DISCHARGE (BASE, 300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 1	0330	6.38	346	4- 1	2200	6.92	548
2-15	1130	6.96	564				

CAPE FEAR RIVER BASIN

91

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 miles east of Roseboro, and 1.5 miles upstream from Bearskin Swamp.

DRAINAGE AREA.--96.4 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 80.52 ft above mean sea level (levels by Corps of Engineers). Prior to Jan. 12, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 116 cfs (16.34 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,790 cfs Apr. 2 (gage height, 9.46 ft); minimum daily, 5.2 cfs Sept. 8.

Period of record: Maximum discharge, 3,400 cfs Oct. 7, 1964 (gage height, 9.97 ft); minimum, 0.1 cfs Sept. 13, 14, 27, Oct. 1-11, 1954.

Flood in 1924 reached a stage of 11.6 ft, from information by North Carolina State Highway Commission.

REMARKS.--Records good except those for periods of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	32	221	133	251	195	794	114	37	140	55	8.2
2	72	29	211	132	339	186	2,340	84	31	150	47	7.6
3	40	29	197	130	508	193	1,920	73	27	170	50	7.2
4	31	32	203	144	512	261	992	72	23	190	55	6.8
5	28	26	221	150	600	357	604	80	19	170	58	6.3
6	30	26	205	161	536	460	460	70	16	140	62	5.9
7	38	26	201	176	440	417	417	64	15	130	55	5.4
8	38	71	173	193	366	375	556	62	14	120	47	5.2
9	30	94	171	210	333	348	635	66	14	110	38	5.7
10	25	97	170	217	330	320	720	78	14	100	30	6.2
11	21	95	159	214	333	291	552	72	16	90	25	6.6
12	19	78	152	219	320	301	440	64	18	80	21	6.5
13	17	57	146	211	303	313	372	56	21	72	18	6.4
14	17	54	133	200	323	295	315	52	24	67	15	6.2
15	16	60	130	191	492	297	273	47	28	64	13	7.2
16	16	56	150	195	516	291	236	44	33	80	12	8.4
17	15	104	160	200	592	263	207	40	40	100	12	10
18	15	128	179	213	564	227	184	38	60	115	12	12
19	15	133	216	231	468	192	167	36	100	130	13	14
20	20	155	224	257	393	164	152	35	200	105	13	15
21	22	170	207	261	339	156	138	36	300	90	14	13
22	20	160	225	261	303	163	123	35	380	78	12	11
23	19	155	225	279	279	162	111	31	300	68	14	10
24	23	153	207	271	253	159	99	39	210	60	13	9.5
25	71	148	203	271	219	155	90	62	150	54	13	9.0
26	71	157	200	261	196	149	87	51	120	47	12	8.6
27	59	148	184	240	200	137	98	41	100	52	12	8.1
28	44	147	167	224	211	127	113	36	110	58	11	9.2
29	49	154	150	251	-----	119	119	35	120	64	10	8.4
30	47	186	135	259	-----	119	123	44	130	72	9.5	8.0
31	38	-----	131	251	-----	152	-----	47	-----	62	9.0	-----
TOTAL	1,054	2,960	5,656	6,606	10,519	7,344	13,437	1,704	2,670	3,028	780.5	251.6
MEAN	34.0	98.7	182	213	376	237	448	55.0	89.0	97.7	25.2	8.39
MAX	88	186	225	279	600	460	2,340	114	380	190	62	15
MIN	15	26	130	130	196	119	87	31	14	47	9.0	5.2
CFSM	.35	1.02	1.89	2.21	3.90	2.46	4.65	.57	.92	1.01	.26	.09
IN.	.41	1.14	2.18	2.55	4.06	2.83	5.19	.66	1.03	1.17	.30	.10

CAL YP 1972 TOTAL 45,471.0 MEAN 124 MAX 734 MIN 15 CFSM 1.29 IN 17.55
WTR YR 1973 TOTAL 56,010.1 MEAN 153 MAX 2,340 MIN 5.2 CFSM 1.59 IN 21.61

NOTE.--No gage-height record
June 11 to Aug. 14; Aug. 28
to Sept. 30.

CAPE FEAR RIVER BASIN

02106500 Black River near Tomahawk, N. C.

LOCATION.--Lat 34°45'17", long 78°17'21", Sampson County, on left bank 30 ft upstream from bridge on State Highway 411, 0.2 mile downstream from Clear Run Swamp, and 3.8 miles northeast of Tomahawk.

DRAINAGE AREA.--680 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 24.61 ft 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 lower.

AVERAGE DISCHARGE.--22 years, 790 cfs (15.78 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,100 cfs Apr. 5 (gage height, 20.60 ft); minimum, 51 cfs Sept. 30 (gage height, 1.54 ft).

Period of record: Maximum discharge, 11,200 cfs Oct. 9, 1964 (gage height, 21.14 ft); minimum, 8.5 cfs Oct. 13, 1954 (gage height, 0.59 ft, present site and datum).

Flood in 1928 reached a stage of 22.0 ft, present datum (discharge, 14,500 cfs) and floods in 1945 and 1948 reached a stage of 17.6 ft, present datum (discharge, 5,420 cfs), 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	396	620	1,500	1,210	1,960	1,800	1,730	721	279	634	289	103
2	353	486	1,550	1,150	2,000	1,850	2,520	669	260	867	281	93
3	310	396	1,670	1,150	2,200	1,860	4,790	626	238	685	405	87
4	260	337	1,650	1,180	2,450	1,850	8,270	777	215	515	488	81
5	212	304	1,640	1,190	2,850	1,840	8,720	953	192	470	603	74
6	319	280	1,590	1,190	3,280	1,960	7,120	899	175	481	603	70
7	572	275	1,520	1,230	3,530	2,120	5,840	755	165	677	588	68
8	644	380	1,510	1,300	3,480	2,360	5,180	632	160	665	446	67
9	636	889	1,560	1,370	3,280	2,590	4,630	634	156	504	311	65
10	548	1,090	1,540	1,400	3,050	2,680	4,410	767	153	398	230	75
11	396	1,120	1,450	1,440	2,780	2,670	4,370	737	172	340	203	92
12	282	1,040	1,370	1,470	2,500	2,670	4,280	634	192	427	209	79
13	216	904	1,330	1,490	2,320	2,590	4,010	526	173	499	179	72
14	183	784	1,250	1,470	2,260	2,440	3,630	473	276	454	159	80
15	166	680	1,190	1,460	2,580	2,340	3,150	450	244	550	238	128
16	154	632	1,210	1,440	3,120	2,200	2,670	409	202	831	262	189
17	158	718	1,250	1,500	3,870	2,050	2,270	374	282	921	235	161
18	146	1,100	1,270	1,580	4,550	1,870	1,940	342	457	841	255	140
19	145	1,220	1,250	1,680	4,610	1,760	1,690	318	851	771	192	135
20	153	1,280	1,240	1,720	4,250	1,660	1,490	299	1,020	691	162	138
21	157	1,280	1,220	1,800	3,830	1,580	1,310	282	1,200	509	148	118
22	162	1,280	1,380	1,860	3,370	1,530	1,150	278	1,430	338	153	102
23	162	1,240	1,560	1,930	2,920	1,540	1,010	266	1,740	291	160	91
24	150	1,160	1,700	2,000	2,530	1,530	887	262	2,020	361	157	80
25	384	1,080	1,790	2,050	2,200	1,480	813	367	2,090	350	168	73
26	714	1,150	1,860	2,000	1,950	1,480	785	520	2,020	284	282	67
27	708	1,300	1,810	1,980	1,800	1,500	775	464	1,760	221	296	64
28	676	1,400	1,670	1,930	1,770	1,590	903	364	1,310	196	202	58
29	806	1,450	1,500	1,900	-----	1,570	927	330	937	405	155	58
30	820	1,480	1,360	1,850	-----	1,540	837	347	741	491	129	54
31	738	-----	1,260	1,940	-----	1,450	-----	306	-----	392	114	-----
TOTAL	11,726	27,355	45,650	48,860	81,290	59,950	92,107	15,781	21,110	16,059	8,302	2,762
MEAN	378	912	1,473	1,576	2,903	1,934	3,070	509	704	518	268	92.1
MAX	820	1,480	1,860	2,050	4,610	2,680	8,720	953	2,090	921	603	189
MIN	145	275	1,190	1,150	1,770	1,450	775	262	153	196	114	54
CFSM	.56	1.34	2.17	2.32	4.27	2.84	4.51	.75	1.04	.76	.39	.14
IN.	.64	1.50	2.50	2.67	4.45	3.28	5.04	.86	1.15	.88	.45	.15

CAL YR 1972 TOTAL 349,076 *MEAN 954 MAX 3,140 MIN 127 CFSM 1.40 IN 19.10
 WTR YR 1973 TOTAL 430,952 MEAN 1,181 MAX 8,720 MIN 54 CFSM 1.74 IN 23.58

CAPE FEAR RIVER BASIN

93

02107000 South River near Parkersburg, N. C.

LOCATION.--Lat 34°48'45", long 78°27'26", Bladen County, on right bank 5 ft downstream from bridge on Secondary Road 1505, 1.9 miles southwest of Parkersburg, and 2.1 miles upstream from Cypress Creek.

DRAINAGE AREA.--382 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 50.38 ft above mean sea level. Prior to Oct. 13, 1961, non-recording gage at present site at datum 50.00 ft lower.

AVERAGE DISCHARGE.--22 years, 428 cfs (15.22 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,580 cfs Apr. 4 (gage height, 13.49 ft); minimum, 12 cfs Sept. 30 (gage height, 2.77 ft).

Period of record: Maximum discharge, 5,900 cfs Oct. 10, 1964 (gage height, 14.32 ft); minimum, 0.1 cfs Oct. 3-6, 11-14, 1954.

Flood of 1918 or 1928 reached a stage of 15.88 ft, present datum, from highwater mark witnessed by local resident.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	218	157	1,030	808	1,000	880	852	395	109	732	254	37
2	271	148	1,030	774	1,060	838	1,440	399	120	761	224	35
3	262	140	1,020	751	1,210	816	3,450	389	119	741	282	32
4	228	139	988	757	1,360	831	4,490	400	110	798	287	28
5	207	138	947	761	1,610	891	3,940	375	102	802	285	25
6	197	130	912	777	1,860	1,010	3,280	342	100	740	265	23
7	174	121	900	804	1,930	1,170	2,800	317	103	667	209	21
8	144	186	860	870	1,850	1,270	2,620	303	104	603	161	19
9	119	270	816	915	1,750	1,280	2,460	319	97	527	138	19
10	100	269	784	952	1,700	1,260	2,490	331	94	466	131	22
11	84	252	768	965	1,680	1,240	2,510	328	104	437	131	24
12	73	235	740	956	1,670	1,240	2,340	315	111	444	122	21
13	65	213	703	938	1,620	1,230	2,090	296	105	423	107	20
14	60	200	664	914	1,580	1,220	1,860	281	95	367	92	21
15	59	205	635	894	1,750	1,190	1,640	268	83	292	102	28
16	58	208	617	893	1,820	1,160	1,440	250	80	273	139	32
17	57	265	593	898	1,870	1,110	1,260	224	122	279	203	28
18	57	324	587	912	1,890	1,060	1,120	190	192	319	214	30
19	58	359	623	948	1,830	986	992	158	322	407	171	37
20	60	403	696	988	1,710	918	882	136	434	479	118	36
21	59	460	764	1,010	1,570	874	782	121	699	474	97	36
22	60	518	860	1,030	1,440	854	686	108	949	410	91	34
23	59	571	904	1,070	1,300	819	598	97	960	336	79	30
24	66	629	920	1,080	1,170	777	515	94	872	273	67	25
25	152	699	934	1,090	1,070	734	443	104	749	225	60	22
26	177	816	961	1,100	983	742	394	102	641	217	67	19
27	172	896	988	1,100	945	730	385	103	588	231	66	17
28	177	943	982	1,100	911	677	393	101	586	251	56	15
29	177	961	947	1,110	-----	622	386	103	631	312	49	14
30	169	997	901	1,080	-----	578	385	104	710	358	43	13
31	164	-----	856	1,040	-----	566	-----	101	-----	317	39	-----
TOTAL	3,983	11,852	25,930	29,285	42,139	29,573	48,933	7,154	10,091	14,001	4,349	763
MEAN	128	395	836	945	1,505	954	1,631	231	336	452	140	25.4
MAX	271	997	1,030	1,110	1,930	1,280	4,490	400	960	802	287	37
MIN	57	121	587	751	911	566	385	94	80	217	39	13
CFSM	.34	1.03	2.19	2.47	3.94	2.50	4.27	.60	.88	1.18	.37	.07
IN.	.39	1.15	2.53	2.85	4.10	2.88	4.77	.70	.98	1.36	.42	.07

CAL YR 1972 TOTAL 169,743 MEAN 464 MAX 1,790 MIN 53 CFSM 1.21 IN 16.53
WTR YR 1973 TOTAL 228,053 MEAN 625 MAX 4,490 MIN 13 CFSM 1.64 IN 22.21

CAPE FEAR RIVER BASIN

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 miles upstream from Buck Marsh Branch, and 6 miles southwest of Seven Springs.

DRAINAGE AREA.--47.5 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 89.93 ft above mean sea level.

AVERAGE DISCHARGE.--15 years, 64.6 cfs (18.47 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,890 cfs Apr. 1 (gage height, 9.14 ft); minimum daily, 6.5 cfs Sept. 30.

Period of record: Maximum discharge, 2,740 cfs Oct. 6, 1964 (gage height, 9.59 ft); minimum, 3.0 cfs Oct. 5, 1968 (gage height, 2.74 ft).

REMARKS.--Records good except those for periods 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	106	171	78	110	138	986	48	15	50	52	10
2	55	86	183	105	149	115	944	38	14	42	60	9.0
3	38	73	147	110	418	108	342	32	13	33	52	8.0
4	30	66	121	115	298	135	218	80	11	38	54	7.8
5	42	61	104	120	183	170	171	121	10	47	48	7.6
6	305	56	101	140	137	171	137	84	9.8	46	34	7.2
7	325	51	121	160	125	159	205	55	9.0	97	20	7.2
8	191	88	123	190	114	130	220	40	9.0	90	13	7.2
9	127	216	109	210	113	128	275	66	8.8	66	10	10
10	91	201	103	230	123	131	310	88	11	58	9.0	20
11	67	135	106	200	121	121	260	64	11	48	8.0	50
12	54	106	96	170	126	116	200	42	10	41	7.6	100
13	46	88	88	140	122	113	160	32	20	47	7.4	50
14	42	79	83	120	154	105	132	27	64	40	7.0	30
15	38	74	86	110	535	93	116	29	58	50	6.6	25
16	35	69	115	140	558	84	92	29	54	100	7.0	30
17	33	97	136	160	297	77	78	25	54	150	7.0	35
18	31	168	111	128	193	70	69	22	70	100	8.0	30
19	37	169	90	127	151	63	63	20	120	50	8.3	25
20	51	151	81	128	133	59	55	19	100	30	7.8	30
21	65	148	78	116	122	62	48	20	90	23	8.0	25
22	54	136	124	114	111	76	41	18	110	18	13	20
23	40	112	181	166	101	80	36	17	140	14	12	17
24	45	94	152	170	92	68	33	19	160	11	25	14
25	119	84	122	129	84	56	31	38	140	11	30	12
26	154	114	104	105	69	77	29	45	120	11	45	10
27	123	154	98	96	107	120	43	29	110	13	40	9.0
28	105	141	93	102	155	115	70	23	100	15	30	8.0
29	149	113	86	158	-----	87	78	21	73	24	20	7.0
30	186	117	76	189	-----	79	58	19	56	21	13	6.5
31	135	-----	72	137	-----	105	-----	17	-----	18	11	-----
TOTAL	2,885	3,353	3,461	4,363	5,008	3,211	5,500	1,227	1,770.6	1,402	673.7	627.5
MEAN	93.1	112	112	141	179	104	183	39.6	59.0	45.2	21.7	20.9
MAX	325	216	183	230	558	171	986	121	160	150	60	100
MIN	30	51	72	78	69	56	29	17	8.8	11	6.6	6.5
CFSM	1.96	2.36	2.36	2.97	3.77	2.19	3.85	.83	1.24	.95	.46	.44
IN.	2.26	2.63	2.71	3.42	3.92	2.51	4.31	.96	1.39	1.10	.53	.49

CAL YR 1972 TOTAL 29,761.0 MEAN 81.3 MAX 354 MIN 13 CFSM 1.71 IN 23.31
 WTH YR 1973 TOTAL 33,481.8 MEAN 91.7 MAX 986 MIN 6.5 CFSM 1.93 IN 26.22

NOTE.--No gage-height record June 12 to Aug. 16; Aug. 23 to Sept. 30.

CAPE FEAR RIVER BASIN

95

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 downstream from bridge on State Highway 2, 0.5 mile downstream from Muddy Creek, and 1.2 miles west of Chinquapin.

DRAINAGE AREA.--600 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 17.28 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--33 years, 730 cfs (16.52 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,230 cfs Apr. 4 (gage height, 15.46 ft); minimum daily, 62 cfs Sept. 30.

Period of record: Maximum discharge, 20,400 cfs July 6, 1962 (gage height, 20.16 ft); minimum, 5.3 cfs Oct. 10, 11, 1954.

Flood in 1908 reached a stage of 22.6 ft at old bridge site 1,000 ft upstream from gage. Flood in 1928 reached a stage 0.8 ft lower than that in 1908, from information by North Carolina State Highway Commission.

REMARKS.--Records good except those for periods of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	332	1,520	2,310	1,150	2,100	1,900	2,040	800	152	438	200	120
2	276	1,360	2,540	1,100	2,400	2,000	4,830	720	138	316	150	110
3	256	1,160	2,590	1,200	2,800	2,000	6,420	640	133	228	120	100
4	244	940	2,480	1,300	3,100	2,000	7,830	640	125	186	140	96
5	240	768	2,220	1,250	4,000	2,000	7,890	872	107	195	300	90
6	830	624	1,960	1,200	4,100	1,900	6,560	880	96	624	300	90
7	1,340	530	1,920	1,300	4,300	1,900	5,020	774	88	858	250	90
8	1,120	631	1,970	1,400	4,200	2,000	4,340	656	85	752	180	80
9	838	864	1,990	1,600	4,000	2,400	4,520	611	89	597	150	80
10	924	928	1,910	1,900	3,500	2,600	4,580	599	85	417	120	100
11	1,010	948	1,790	2,000	3,000	2,600	4,270	516	80	269	100	170
12	957	965	1,660	2,000	3,000	2,500	3,800	455	90	197	90	220
13	754	983	1,500	1,900	3,200	2,300	3,500	442	167	177	80	200
14	552	993	1,320	1,700	4,000	2,100	3,000	422	293	156	80	160
15	394	988	1,170	1,500	5,000	1,900	2,700	374	321	150	75	130
16	292	920	1,160	1,400	5,600	1,700	2,400	336	195	521	80	190
17	232	970	1,160	1,400	6,000	1,500	2,000	302	150	744	200	190
18	194	1,190	1,120	1,400	6,000	1,310	1,700	267	888	674	180	160
19	180	1,380	1,060	1,400	5,900	1,120	1,500	246	1,850	510	170	150
20	190	1,480	1,010	1,500	5,600	950	1,300	226	2,060	361	150	140
21	202	1,520	975	1,550	5,000	868	1,100	210	1,820	260	140	130
22	208	1,520	1,110	1,600	4,500	993	1,000	195	1,260	179	150	120
23	200	1,450	1,310	1,700	4,000	1,100	900	183	1,040	125	170	110
24	204	1,350	1,500	1,800	3,000	1,100	800	174	1,200	104	400	100
25	486	1,200	1,580	2,000	2,500	1,020	750	181	1,380	88	420	90
26	718	1,420	1,600	2,100	2,300	1,030	700	217	1,320	67	420	85
27	776	1,780	1,540	2,000	2,200	1,070	700	231	1,110	70	360	80
28	1,110	2,000	1,430	1,900	2,000	1,060	900	230	953	70	300	70
29	1,720	2,010	1,280	1,900	-----	1,020	900	212	736	80	200	66
30	1,920	2,070	1,120	1,900	-----	975	900	190	561	400	140	62
31	1,760	-----	1,200	1,900	-----	1,020	-----	170	-----	350	130	-----
TOTAL	20,459	36,462	49,485	49,950	107,300	49,936	88,750	12,971	18,572	10,163	5,945	3,579
MEAN	660	1,215	1,596	1,611	3,832	1,611	2,958	418	619	328	192	119
MAX	1,920	2,070	2,590	2,100	6,000	2,600	7,890	880	2,060	858	420	220
MIN	180	530	975	1,100	2,000	868	700	170	80	67	75	62
CFSM	1.10	2.03	2.66	2.69	6.39	2.69	4.93	.70	1.03	.55	.32	.20
IN.	1.27	2.26	3.07	3.10	6.65	3.10	5.50	.80	1.15	.63	.37	.22

CAL YR 1972 TOTAL 377,846
WTR YR 1973 TOTAL 453,572

MEAN 1,032 MAX 3,590
MEAN 1,243 MAX 7,890

MIN 120
MIN 62

CFSM 1.72 IN 23.43
CFSM 2.07 IN 28.12

NOTE.--No gage-height record
Dec. 31 to Mar. 16; July 26
to Sept. 30.

CAPE FEAR RIVER BASIN

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 miles upstream from Doctors Creek, and 2.5 miles west of Wallace.

DRAINAGE AREA.--63.8 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 29.36 ft above mean sea level. Prior to Oct. 1, 1958 non-recording gage at site 1.0 mile downstream at different datum. Oct. 1, 1958, to June 1, 1960, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--18 years, 99.1 cfs (21.09 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,900 cfs Apr. 2 (gage height, 11.00 ft); minimum, 4.7 cfs Sept. 9 (gage height, 0.92 ft).

Period of record: Maximum discharge, 4,940 cfs Aug. 18, 1971 (gage height, 12.98 ft); minimum daily, 0.4 cfs July 27-30, 1955.

Flood in 1948 reached a stage of about 15.5 ft at former site and datum, from information by local resident (discharge, 2,800 cfs).

A discharge of 0.04 cfs was measured on Sept. 8, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	43	370	76	178	310	845	31	9.0	35	11	8.0
2	7.8	33	402	85	221	245	1,700	27	8.0	28	11	6.6
3	7.3	30	346	86	576	209	953	24	7.6	36	15	6.0
4	7.2	23	248	97	640	213	605	67	7.0	33	94	6.2
5	7.9	20	186	110	453	260	482	79	7.0	22	201	5.9
6	12	19	189	105	304	441	342	88	6.4	18	185	6.4
7	16	17	322	111	255	449	274	71	6.4	15	101	6.7
8	15	59	318	119	224	371	913	34	7.4	12	52	5.5
9	10	135	301	137	222	291	904	42	8.2	10	24	9.5
10	8.8	136	246	159	228	269	590	45	8.5	10	17	82
11	8.2	159	203	180	218	257	373	34	12	9.2	13	169
12	7.5	104	184	163	310	337	260	26	16	43	11	138
13	7.1	50	160	155	315	515	194	23	36	52	9.8	34
14	6.4	51	137	147	336	367	151	21	239	68	8.5	20
15	5.7	79	127	148	1,180	270	120	23	180	63	7.5	26
16	6.4	78	156	181	1,380	203	99	21	57	422	9.8	30
17	6.9	119	158	207	862	161	78	18	45	356	14	22
18	6.7	186	151	220	565	123	66	14	153	290	34	20
19	8.3	192	138	218	403	92	60	13	337	178	53	24
20	12	215	109	239	300	73	52	11	306	75	30	20
21	15	183	94	264	240	73	50	11	200	32	20	17
22	11	141	140	259	202	106	48	11	142	22	28	13
23	9.5	116	229	358	177	159	42	9.8	143	19	18	11
24	11	91	319	362	156	196	38	9.7	376	36	13	12
25	37	65	264	318	136	152	34	11	386	44	14	11
26	46	201	195	227	122	140	32	14	235	25	30	9.7
27	51	323	149	169	194	149	41	12	172	16	53	8.6
28	66	312	127	145	354	162	50	11	162	13	50	7.2
29	123	241	115	166	-----	158	50	9.7	118	13	20	6.2
30	100	246	83	185	-----	122	38	11	63	20	13	5.4
31	88	-----	71	207	-----	121	-----	11	-----	15	9.8	-----
TOTAL	734.4	3,667	6,237	5,603	10,751	6,994	9,444	833.2	3,453.5	2,030.2	1,170.4	746.9
MEAN	23.7	122	201	181	384	226	316	26.9	115	65.5	37.8	24.9
MAX	123	323	402	362	1,380	515	1,700	88	386	422	201	169
MIN	5.7	17	71	76	122	73	32	9.7	6.4	9.2	7.5	5.4
CFSM	.37	1.91	3.15	2.84	6.02	3.54	4.95	.42	1.80	1.03	.59	.39
IN.	.43	2.14	3.64	3.27	6.27	4.08	5.53	.49	2.01	1.18	.68	.44

CAL YR 1972 TOTAL 44,069.3 MEAN 120 MAX 1,320 MIN 5.7 CFSM 1.88 IN 25.70
WTR YR 1973 TOTAL 51,704.6 MEAN 142 MAX 1,700 MIN 5.4 CFSM 2.23 IN 30.15

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-16	0300	10.55	1,540	4- 8	1200	9.54	1,040
4- 2	0700	11.00	1,900				

WACCAMAW RIVER BASIN

97

02109500 Waccamaw River at Freeland, N. C.

LOCATION.--Lat 34°05'43", long 78°32'56", Brunswick County, on left bank 150 ft downstream from New Britton Bridge on State Highway 130, 1 mile southwest of Freeland, 7 miles downstream from Juniper Creek, and 117 miles upstream from mouth in Winyah Bay.

DRAINAGE AREA.--706 sq mi.

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 15.52 ft above mean sea level. Prior to July 15, 1943, non-recording gage 150 ft upstream at same datum. Auxiliary nonrecording gage 3.3 miles 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.--34 years, 692 cfs (13.31 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,390 cfs Apr. 5 (gage height, 15.57 ft); minimum, 14 cfs Oct. 18 (gage height, 1.16 ft).

Period of record: Maximum discharge, 10,200 cfs Sept. 25, 1955; maximum gage height, 16.63 ft Sept. 26, 1955; minimum discharge, 0.1 cfs Aug. 30, Sept. 9, 10, 28, Oct. 4-14, 1954.

REMARKS.--Records good.

REVISIONS.--WSP 1172: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	50	533	919	2,310	2,310	2,000	518	56	577	107	155
2	28	51	621	897	2,310	2,150	2,800	478	50	557	109	131
3	26	51	711	881	2,470	2,080	5,000	447	45	511	113	116
4	26	52	777	873	2,640	2,000	5,800	413	41	454	134	129
5	25	53	805	865	2,800	1,970	6,080	377	37	400	154	118
6	24	54	837	865	2,940	1,950	6,210	339	35	347	171	103
7	24	56	892	870	3,100	1,920	5,840	314	34	302	222	91
8	23	56	934	907	3,150	1,880	5,470	306	33	265	315	84
9	22	57	973	949	3,190	1,860	5,100	311	32	233	360	85
10	20	58	997	1,010	3,340	1,860	4,900	438	28	203	357	261
11	20	57	992	1,060	3,480	1,860	4,540	375	29	177	347	327
12	19	56	962	1,100	3,380	1,860	4,190	300	37	227	341	356
13	19	55	916	1,120	3,320	1,840	3,770	292	35	278	331	394
14	18	54	864	1,120	3,310	1,820	3,330	286	54	268	296	432
15	17	56	830	1,120	3,670	1,800	2,890	272	60	249	253	454
16	17	57	820	1,120	4,160	1,750	2,520	252	58	234	231	444
17	16	68	815	1,130	4,970	1,690	2,200	228	92	211	227	399
18	16	79	822	1,140	5,660	1,610	1,940	206	112	194	230	340
19	22	79	827	1,160	5,880	1,530	1,710	186	131	178	229	288
20	26	80	824	1,190	5,790	1,460	1,520	166	125	160	220	248
21	30	82	814	1,240	5,410	1,410	1,350	145	122	139	207	212
22	33	82	834	1,370	4,900	1,360	1,230	134	120	129	218	184
23	36	79	860	1,520	4,330	1,310	1,110	129	152	218	274	160
24	39	77	898	1,670	3,810	1,300	996	117	227	279	335	136
25	41	112	934	1,840	3,330	1,280	912	107	278	252	351	116
26	42	247	958	2,000	2,960	1,260	842	98	302	213	339	107
27	43	242	968	2,150	2,710	1,240	774	89	325	179	317	96
28	45	288	969	2,270	2,490	1,260	709	82	369	147	289	85
29	47	323	964	2,370	-----	1,300	644	76	463	128	249	77
30	49	489	957	2,410	-----	1,400	576	70	546	119	212	70
31	50	-----	939	2,380	-----	1,600	-----	63	-----	111	183	-----
TOTAL	893	3,200	26,847	41,516	101,810	51,920	86,853	7,615	4,028	7,939	7,721	6,198
MEAN	28.8	107	866	1,339	3,636	1,675	2,895	246	134	256	249	207
MAX	50	489	997	2,410	5,880	2,310	6,210	518	546	577	360	454
MIN	16	50	533	865	2,310	1,240	576	63	28	111	107	70
CFSM	.04	.15	1.23	1.90	5.15	2.37	4.10	.35	.19	.36	.35	.29
IN.	.05	.17	1.41	2.19	5.36	2.74	4.58	.40	.21	.42	.41	.33

CAL YR 1972 TOTAL 215,849 MEAN 590 MAX 4,370 MIN 16 CFSM .84 IN 11.37
WTR YR 1973 TOTAL 346,540 MEAN 949 MAX 6,210 MIN 16 CFSM 1.34 IN 18.26

02111000 Yadkin River at Patterson, N. C.

LOCATION.--Lat 35°59'29", long 81°33'30", Caldwell County, on left bank 200 ft upstream from bridge on State Highway 268, 0.4 mile upstream from Warrior Creek, 0.5 mile south of Patterson, 2 miles downstream from Walnut Branch, and at mile 416.

DRAINAGE AREA.--29.0 sq mi.

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 above mean sea level. Prior to Feb. 9, 1940 non-recording gage at present site, at datum 1.00 ft higher. Prior to Oct. 20, 1970 at datum 1.00 ft higher.

AVERAGE DISCHARGE.--34 years, 48.3 cfs (22.62 inches per year).

EXTREMES.--Current year: Maximum discharge, 12,100 cfs Aug. 7 (gage height, 12.80 ft) from rating curve extended above 1,400 cfs on basis of computation of peak flow over dam 1 mile upstream; minimum, 8.6 cfs Jan. 12 (gage height, 0.82 ft), result of freezeup; minimum daily, 18 cfs Oct. 16.

Period of record: Maximum discharge, 16,200 cfs Aug. 13, 1940 (gage height, 12.70 ft, datum then in use), from rating curve extended above 1,400 cfs on basis of computation of peak flow over dam 1 mile upstream at gage heights 4.58, 6.60, 7.70, and 12.70 ft; minimum observed, 3.0 cfs May 15, 1940.

REMARKS.--Records good. Occasional slight regulation at low flow by paper mill and detention dam 1 mile 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	22	30	36	67	40	126	111	108	62	158	45
2	21	21	27	33	604	38	107	97	73	62	89	44
3	20	21	26	35	250	73	94	103	88	69	108	43
4	20	21	25	45	148	61	94	90	80	67	143	43
5	40	20	25	38	105	180	81	80	76	63	263	42
6	29	20	56	36	92	140	73	75	79	57	124	43
7	22	22	42	35	76	126	97	70	74	55	1,120	41
8	20	46	36	37	72	140	131	155	69	52	232	39
9	20	26	37	34	64	128	105	163	67	53	138	56
10	19	24	35	33	58	105	96	120	64	52	108	49
11	9	22	33	32	54	111	83	118	62	53	100	42
12	9	21	37	32	49	128	78	97	62	48	83	39
13	19	22	34	29	47	105	72	86	62	46	72	40
14	19	78	33	32	57	90	67	80	63	45	99	98
15	19	38	195	32	57	92	65	73	91	52	114	54
16	18	31	109	32	50	313	62	70	100	51	80	45
17	19	27	65	31	46	859	75	67	74	52	70	42
18	19	25	52	32	44	303	70	64	83	49	142	41
19	26	31	45	46	43	193	67	62	168	48	94	39
20	21	49	42	42	42	140	64	61	95	46	79	38
21	20	35	61	39	41	124	61	58	91	46	73	37
22	19	32	113	150	39	99	60	56	94	59	68	37
23	20	28	78	96	39	86	60	58	89	52	62	37
24	21	26	64	67	37	80	57	70	76	64	59	35
25	20	28	58	56	36	94	67	62	69	86	56	35
26	19	41	52	57	36	124	128	56	65	95	54	35
27	20	32	47	150	54	113	737	94	63	91	52	35
28	42	30	45	103	43	96	285	965	82	64	49	36
29	28	28	40	92	-----	92	180	305	86	54	48	35
30	23	30	38	72	-----	92	133	180	65	48	48	37
31	22	-----	38	64	-----	116	-----	128	-----	56	48	-----
TOTAL	690	897	1,618	1,648	2,350	4,481	3,475	3,874	2,440	1,797	4,033	1,282
MEAN	22.3	29.9	52.2	53.2	83.9	145	116	125	81.3	58.0	130	42.7
MAX	42	78	195	150	604	859	737	965	168	95	1,120	98
MIN	18	20	25	29	36	38	57	56	62	45	48	35
CFSM	.77	1.03	1.80	1.83	2.89	5.00	4.00	4.31	2.80	2.00	4.48	1.47
IN.	.89	1.15	2.08	2.11	3.01	5.75	4.46	4.97	3.13	2.31	5.17	1.64

CAL YR 1972 TOTAL 19,104 MEAN 52.2 MAX 648 MIN 18 CFSM 1.80 IN 24.51
WTR YR 1973 TOTAL 28,585 MEAN 78.3 MAX 1,120 MIN 18 CFSM 2.70 IN 36.67

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-2	0430	4.84	1,110	5-28	0330	6.49	2,260
3-17	0500	5.68	1,630	8-7	0240	12.80	12,100
4-27	0400	5.10	1,260				

PEE DEE RIVER BASIN

99

02111180 Elk Creek at Elkville, N. C.

LOCATION.--Lat 36°04'16", long 81°24'13", Wilkes County, on left bank 700 ft upstream from bridge on State Highway 268, in community of Elkville, and 3,400 ft upstream from mouth.

DRAINAGE AREA.--50.9 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 1,082.40 ft above mean sea level.

AVERAGE DISCHARGE.--8 years, 99.0 cfs (26.41 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,400 cfs May 28 (gage height, 8.20 ft); minimum, 32 cfs Oct. 15, 16, 17, 18 (gage height, 1.03 ft).

Period of record: Maximum discharge, 8,660 cfs June 15, 1969 (gage height, 8.33 ft), from rating curve extended above 2,400 cfs on basis of contracted-opening measurement at gage height, 7.28 ft; minimum, 16 cfs Oct. 3, 1968 (gage height, 0.83 ft).

The flood of Aug. 13, 1940 reached a stage of about 22 ft (discharge, about 70,000 cfs, on basis of several contracted-opening and slope-area measurements). A discharge of 6.0 cfs was measured Sept. 19, 1956.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	39	64	73	118	73	282	219	212	115	331	68
2	49	37	59	68	1,560	73	225	200	191	106	148	67
3	40	36	56	70	551	133	192	204	177	100	172	66
4	38	38	55	85	312	120	183	184	163	110	184	65
5	77	38	53	76	237	384	160	171	148	100	324	66
6	57	36	109	72	200	276	150	164	148	100	167	66
7	45	39	97	69	170	283	182	163	149	95	574	66
8	38	92	84	73	150	289	262	294	129	95	178	64
9	37	55	82	69	130	253	218	316	132	90	139	71
10	36	48	78	63	120	207	148	237	124	90	182	75
11	36	45	75	64	110	219	177	230	111	90	302	65
12	36	42	75	61	100	271	167	192	106	85	155	59
13	36	44	73	60	95	218	159	177	107	85	126	58
14	36	152	70	60	93	179	151	171	110	90	134	193
15	33	87	360	63	110	172	145	158	130	110	162	97
16	32	67	219	61	105	555	131	147	144	100	122	76
17	33	60	136	59	90	2,280	148	144	115	90	110	70
18	33	55	108	62	85	614	138	138	145	82	246	65
19	46	61	94	85	83	331	136	133	617	80	161	62
20	37	111	88	89	82	252	132	135	226	75	135	58
21	34	79	114	79	80	229	129	131	196	75	120	59
22	34	70	255	292	80	199	138	124	221	83	105	60
23	34	65	178	209	80	174	132	129	214	78	95	61
24	35	60	141	147	78	161	129	154	173	129	90	58
25	36	62	126	119	75	191	136	145	157	103	85	57
26	34	94	108	110	75	253	234	132	141	116	80	57
27	35	75	98	308	85	234	1,910	196	129	123	78	59
28	42	68	91	213	75	191	702	3,040	166	90	76	61
29	52	62	82	168	-----	186	419	613	176	78	74	71
30	43	64	77	136	-----	180	280	329	129	69	73	72
31	40	-----	77	119	-----	214	-----	249	-----	77	72	-----
TOTAL	1,299	1,481	3,382	3,282	5,129	9,394	7,745	9,019	5,086	2,909	5,000	2,092
MEAN	41.6	62.7	109	106	183	303	258	291	170	93.8	161	69.7
MAX	82	152	360	308	1,560	2,280	1,910	3,040	617	129	574	193
MIN	32	36	53	59	75	73	129	124	106	69	72	57
CFSM	.82	1.23	2.14	2.08	3.60	5.95	5.07	5.72	3.34	1.84	3.16	1.37
IN.	.94	1.37	2.47	2.40	3.75	6.87	5.66	6.59	3.72	2.13	3.65	1.53

CAL YR 1972 TOTAL 36,921 MEAN 101 MAX 1,930 MIN 29 CFSM 1.98 IN 26.98
WTR YR 1973 TOTAL 56,208 MEAN 154 MAX 3,040 MIN 32 CFSM 3.03 IN 41.08

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1415	2.66	822	5-28	0400	8.20	8,400
2- 2	0600	5.19	3,170	6-19	0715	3.88	1,820
3-17	0515	6.72	5,460	8- 1	0500	2.76	898
4-27	0515	5.09	3,050	8- 7	0315	3.71	1,670

PEE DEE RIVER BASIN

02111500 Reddies River at North Wilkesboro, N. C.

LOCATION.--Lat 36°10'29", long 81°10'09", Wilkes County, on left bank 400 ft upstream from bridge on Secondary Road 1517, 1.2 miles northwest of North Wilkesboro, 1.4 miles upstream from North Wilkesboro municipal dam, and 2.3 miles upstream from mouth.

DRAINAGE AREA.--93.9 sq mi.

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 above mean sea level.

AVERAGE DISCHARGE.--34 years, 138 cfs (19.96 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,280 cfs May 28 (gage height, 9.71 ft); minimum, 69 cfs Oct. 16 (gage height, 1.13 ft).

Period of record: Maximum discharge, 27,000 cfs Aug. 14, 1940 (gage height, 22.02 ft), from rating curve extended above 2,200 cfs on basis of computation of peak flow over dam; minimum, 22 cfs Aug. 17, 1954 (gage height, 0.63 ft).

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	90	113	137	152	154	354	302	322	177	434	130
2	99	87	105	130	1,700	149	308	282	302	173	224	128
3	91	89	102	134	515	204	299	302	222	165	251	126
4	88	86	99	161	316	197	280	275	268	174	262	130
5	171	83	97	145	254	304	253	254	256	170	479	166
6	116	82	197	137	243	270	240	244	267	169	279	130
7	92	87	152	132	219	310	283	239	263	157	342	128
8	82	197	129	139	208	351	304	304	262	157	251	124
9	78	113	134	130	102	301	307	434	227	161	206	136
10	75	99	126	127	177	257	313	323	220	147	187	185
11	75	93	121	126	167	264	269	325	223	167	189	142
12	76	89	118	121	161	207	256	276	219	150	168	128
13	76	87	113	94	159	251	261	257	221	143	162	125
14	75	309	116	110	190	226	231	243	264	166	258	497
15	73	155	510	110	192	222	224	234	244	244	285	234
16	72	124	306	126	169	507	218	226	308	149	189	169
17	75	113	101	122	155	1,600	240	226	221	109	252	151
18	73	106	163	126	153	520	224	217	228	161	373	145
19	92	119	152	146	152	406	228	213	280	152	205	136
20	78	197	145	141	142	335	220	211	229	150	193	132
21	75	139	195	129	146	324	213	204	225	171	181	129
22	75	122	441	507	143	297	202	109	307	166	168	128
23	75	113	254	271	141	266	206	212	286	142	161	126
24	79	106	205	188	137	240	204	245	226	241	155	123
25	75	113	193	159	134	203	215	232	205	202	158	124
26	73	157	178	149	134	307	299	207	190	217	149	120
27	75	126	163	320	243	324	1,990	229	190	222	145	119
28	197	114	155	238	169	201	616	2,370	222	166	141	122
29	118	108	146	197	-----	271	410	727	217	151	138	117
30	97	116	141	166	-----	227	329	464	181	144	136	122
31	92	-----	145	155	-----	322	-----	373	-----	163	134	-----
TOTAL	2,409	3,619	5,414	5,082	6,868	10,563	10,053	10,440	7,775	5,362	6,882	4,472
MEAN	90.6	121	175	164	245	341	335	353	246	173	222	149
MAX	197	309	519	507	1,700	1,680	1,990	2,370	329	244	479	497
MTN	72	82	97	94	134	149	204	199	181	142	134	117
CFSM	.96	1.29	1.86	1.75	2.61	3.63	3.57	3.76	2.62	1.84	2.36	1.59
IN.	1.11	1.43	2.14	2.01	2.72	4.18	3.98	4.33	2.92	2.12	2.73	1.77

CAL YR 1972 TOTAL 61,513 MEAN 168 MAX 2,620 MTN 72 CFSM 1.79 IN 24.37
WTP YR 1973 TOTAL 79,439 MEAN 218 MAX 2,370 MTN 72 CFSM 2.32 IN 31.47

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-2	0530	8.27	3,190	4-27	0430	8.23	3,160
3-17	0830	7.64	2,760	5-28	0700	9.71	4,280

PEE DEE RIVER BASIN

101

02112000 Yadkin River at Wilkesboro, N. C.

LOCATION.--Lat 36°09'09", long 81°08'45", Wilkes County, on right bank 150 ft upstream from bridge on U. S. Highway 421A between North Wilkesboro and Wilkesboro, 150 ft downstream from Reddies River, 0.5 mile northeast of Wilkesboro, and 382 miles upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--493 sq mi.

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 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 miles 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 lower than that used 1903-09.

AVERAGE DISCHARGE.--58 years (1903-8, 1920-73), 803 cfs (22.12 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 8,570 cfs Feb. 2 (gage height, 10.31 ft); minimum, 475 cfs Jan.

13 (gage height, 2.37 ft); minimum daily, 506 cfs Nov. 13.

Period of record: Maximum discharge, 160,000 cfs Aug. 14, 1940 (gage height, 37.6 ft, from floodmarks), from rating curve extended above 20,000 cfs on basis of slope-area measurement of peak flow; minimum, 86 cfs Dec. 4, 1965; minimum daily, 110 cfs Sept. 18, 19, 1956.

Flood in July 1916 reached a stage of 34.5 ft (present site and datum), from floodmark (discharge, 116,000 cfs from rating curve extended as explained above).

REMARKS.--Records good. Flow regulated by W. Kerr Scott Reservoir 5.5 miles upstream since 1962 (see p. 146). Water quality records for the current year are published in Part 2 of this report.

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	545	543	525	673	856	777	1,940	3,070	1,770	1,020	2,240	740
2	542	523	521	655	3,500	718	1,960	1,370	1,560	1,030	1,880	741
3	527	526	530	636	1,590	989	1,440	1,530	1,590	1,020	1,610	692
4	533	528	520	769	5,470	1,090	1,660	1,580	1,360	962	1,460	1,250
5	655	527	533	737	5,070	1,470	1,370	1,450	1,300	1,000	2,510	2,460
6	577	518	712	672	1,840	1,930	1,260	1,260	1,270	960	1,620	733
7	552	546	619	642	1,300	1,860	1,380	1,230	1,500	869	4,430	719
8	533	704	581	646	1,110	1,860	2,130	1,790	1,230	882	3,100	709
9	513	519	586	733	1,050	1,820	1,930	2,800	1,120	887	1,340	727
10	510	518	573	618	998	1,540	1,580	1,990	1,210	921	1,120	884
11	524	516	560	545	872	1,310	1,500	1,750	1,150	1,220	1,630	797
12	527	510	559	539	716	1,650	1,300	1,520	1,190	933	1,300	725
13	523	506	551	541	795	1,500	1,340	1,370	1,100	802	1,110	703
14	527	1,060	555	564	894	1,170	1,220	1,310	1,260	840	1,370	1,750
15	527	576	1,450	563	1,050	1,130	1,180	1,220	1,430	1,080	1,870	1,240
16	520	554	1,520	568	990	2,320	1,170	1,240	1,500	938	1,510	784
17	527	534	1,700	564	801	3,980	1,240	1,230	1,190	1,110	1,230	760
18	527	524	1,520	560	721	4,670	1,230	1,100	1,350	862	2,420	752
19	568	545	862	615	745	5,490	1,200	1,110	1,990	825	1,730	720
20	533	589	698	749	724	3,060	1,190	1,210	2,090	818	1,050	696
21	536	540	851	718	733	1,730	1,150	1,140	1,360	848	1,060	648
22	537	534	1,530	1,730	703	1,550	1,080	1,050	1,540	825	1,050	624
23	534	530	1,420	1,950	715	1,260	1,090	1,100	1,810	809	1,040	624
24	526	523	1,390	1,930	692	1,200	1,050	1,160	1,350	1,630	864	616
25	521	554	1,420	1,280	650	1,340	1,210	1,300	1,130	1,360	800	608
26	517	638	1,080	715	624	1,950	1,600	1,070	1,120	963	880	608
27	539	563	831	1,380	1,220	1,890	5,110	1,220	1,040	1,130	904	600
28	734	546	757	1,810	1,030	1,470	5,040	4,580	1,330	1,090	800	600
29	583	533	730	1,590	-----	1,400	6,350	6,260	1,450	854	762	616
30	562	528	664	1,120	-----	1,650	6,030	5,920	1,090	754	746	680
31	553	-----	636	1,010	-----	1,640	-----	4,650	-----	749	722	-----
TOTAL	16,982	16,855	26,984	27,831	37,459	57,414	58,930	60,580	41,380	29,991	46,158	24,806
MFAN	548	562	870	898	1,338	1,852	1,964	1,954	1,379	967	1,489	827
MAX	734	1,060	1,700	1,950	5,470	5,490	6,350	6,260	2,090	1,630	4,430	2,460
MIN	510	506	520	539	624	718	1,050	1,050	1,040	749	722	600
(+)	-61	+75	+88	0	0	+6	+9	-3	-12	0	0	-81
MEAN†	487	637	958	898	1,338	1,858	1,973	1,951	1,367	967	1,489	746
CFS‡	.99	1.29	1.94	1.82	2.71	3.77	4.00	3.96	2.77	1.96	3.02	1.51
IN.‡	1.14	1.44	2.24	2.10	2.82	4.35	4.46	4.56	3.09	2.26	3.48	1.68
CAL YR 1972	TOTAL 335,576	MEAN 917	MAX 1,700	MIN 506	MEAN‡ 917	CFS‡ 1.86	IN‡ 25.32					
WTR YR 1973	TOTAL 445,370	MEAN 1,220	MAX 6,350	MIN 506	MEAN‡ 1,222	CFS‡ 2.48	IN‡ 33.65					

† 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.

PEE DEE RIVER BASIN

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 upstream from bridge on Secondary Road 1990, 3.8 miles northeast of village of Roaring River, and 4.1 miles upstream from mouth.

DRAINAGE AREA.--122 sq mi.

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 above mean sea level. Prior to May 1, 1964, non-recording gage on downstream side of bridge at same site and datum.

AVERAGE DISCHARGE.--9 years, 177 cfs (19.70 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,540 cfs May 28 (gage height, 10.68 ft); minimum, 87 cfs Jan. 13 (gage height, 1.44 ft), result of freezeup.

Period of record: Maximum discharge, 13,200 cfs Sept. 21, 1971 (gage height, 17.32 ft), from rating curve extended as explained below; minimum, 53 cfs July 7, 8, 1964.

Flood of 1916 reached a stage of about 28 ft (estimated discharge, 37,000 cfs) and the flood of August 1940 about 24 ft (estimated discharge, 26,000 cfs), from stage information by local residents and rating curve extended above 2,400 cfs on basis of slope-area measurements at gage heights 10.83 ft, 14.40 ft, the Aug. 14, 1940 peak (discharge, 29,200 cfs) at the Gordon Cotton Mill dam 2.4 miles downstream, and step-backwater profile study. A discharge of 24.2 cfs was measured Sept. 18, 1956.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	113	141	171	201	198	406	340	357	186	375	145
2	119	112	129	162	1,990	188	357	315	333	185	271	143
3	112	112	125	167	621	286	319	347	368	179	295	141
4	114	109	122	202	418	266	329	312	288	261	227	158
5	159	106	120	179	344	372	245	285	275	211	508	172
6	129	104	323	168	328	346	275	275	319	182	254	146
7	115	111	230	162	298	423	322	268	295	176	540	146
8	167	244	179	166	288	473	444	452	261	179	285	141
9	104	138	183	160	257	401	343	520	261	211	248	155
10	101	123	172	154	249	332	347	385	251	234	224	224
11	101	118	165	152	234	316	305	342	238	204	224	167
12	104	112	160	154	224	334	241	326	234	173	195	149
13	104	111	153	157	219	288	275	302	231	164	182	145
14	102	414	155	172	255	268	261	281	231	167	299	497
15	100	188	630	164	260	265	251	271	329	305	307	245
16	99	150	371	147	230	484	244	261	333	378	207	191
17	104	136	244	142	211	1,490	265	261	248	295	189	174
18	101	127	208	144	211	531	261	251	271	214	322	166
19	128	143	181	178	206	427	254	248	227	195	227	156
20	111	236	178	167	195	364	244	241	224	231	208	152
21	105	163	236	152	191	350	236	231	244	268	201	151
22	105	146	502	552	187	315	231	224	303	198	190	150
23	107	136	320	338	183	286	227	244	281	182	176	148
24	112	129	264	251	178	272	224	295	224	182	170	143
25	105	139	255	215	174	307	236	278	208	185	166	142
26	102	204	230	205	173	389	298	244	195	204	162	140
27	106	158	208	355	271	322	2,710	261	192	188	158	142
28	253	143	192	285	217	290	715	2,690	231	170	153	144
29	145	134	180	254	-----	286	468	790	234	158	151	140
30	122	142	174	219	-----	326	382	504	195	149	148	145
31	116	-----	182	205	-----	350	-----	403	-----	182	146	-----
TOTAL	3,633	4,501	6,912	6,299	8,823	11,601	11,819	12,487	7,826	6,398	7,408	5,058
MEAN	117	150	223	203	315	374	394	403	251	206	239	169
MAX	253	414	630	552	1,990	1,490	2,710	2,690	357	378	540	497
MIN	99	104	120	142	173	188	224	224	192	149	146	140
CFSM	.96	1.23	1.43	1.66	2.58	3.07	3.23	3.30	2.14	1.69	1.96	1.39
IN.	1.11	1.37	2.11	1.92	2.69	3.54	3.60	3.81	2.39	1.95	2.26	1.54

CAL YR 1972 TOTAL 76,440 MEAN 209 MAX 2,870 MIN 87 CFSM 1.71 IN 23.31
WTR YR 1973 TOTAL 92,765 MEAN 254 MAX 2,710 MIN 99 CFSM 2.08 IN 28.29

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-2	0630	9.29	4,430	4-27	0630	9.93	4,940
3-17	0800	6.29	2,400	5-28	0630	10.68	5,540

PEE DEE RIVER BASIN

103

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 mile downstream from Elkin River and 362 miles upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--854 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 866.03 ft above mean sea level. Prior to Aug. 28, 1964, non-recording gage on upstream side of bridge at same datum.

AVERAGE DISCHARGE.--9 years, 1,343 cfs (21.36 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 16,000 cfs Apr. 27 (gage height, 17.33 ft); minimum, 790 cfs Oct. 10, 11, 16, 18 (gage height, 2.44 ft); minimum daily, 795 cfs Oct. 16.

Period of record: Maximum discharge, 24,700 cfs Aug. 10, 1970 (gage height, 23.52 ft); minimum, 338 cfs July 28, 29, 1966.

Flood of July 1916 reached a stage of 36.0 ft, from information by North Carolina State Highway Commission. Flood of August 1940 reached a stage of 37.5 ft. A discharge of 172 cfs was measured on Sept. 19, 1956.

REMARKS.--Records good. Considerable regulation by W. Kerr Scott Reservoir. (See p. 146).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,060	870	955	1,130	1,480	1,460	2,990	4,800	3,010	1,520	3,260	1,180
2	910	840	905	1,120	11,000	1,300	2,960	2,300	2,320	1,510	4,100	1,190
3	950	845	900	1,100	3,040	1,640	2,490	2,290	2,300	1,490	3,100	1,150
4	840	840	895	1,270	6,310	1,840	2,360	2,560	2,110	1,500	2,210	1,130
5	985	820	885	1,260	6,590	2,280	2,360	2,180	1,920	1,590	3,470	2,960
6	1,000	805	1,700	1,150	3,800	3,050	1,960	2,020	1,940	1,470	3,060	1,690
7	890	830	1,420	1,100	2,230	3,030	2,080	1,930	2,170	1,340	4,050	1,200
8	855	1,380	1,140	1,120	1,860	3,530	3,230	2,500	2,030	1,340	4,900	1,160
9	815	940	1,100	1,120	1,820	3,080	3,120	4,050	1,720	1,350	2,390	1,160
10	800	890	1,080	1,120	1,620	2,800	2,550	3,330	1,940	1,410	1,690	1,440
11	800	855	1,040	995	580	2,210	2,380	2,800	1,700	1,620	2,120	1,360
12	810	840	1,030	962	1,350	2,550	2,110	2,400	1,730	1,560	2,120	1,190
13	820	830	995	913	1,340	2,630	2,030	2,200	1,640	1,260	1,620	1,160
14	815	3,680	990	943	1,540	2,060	1,960	2,050	1,810	1,240	1,890	2,270
15	810	1,380	3,590	1,030	1,790	1,850	1,840	1,950	2,380	1,770	3,240	2,490
16	795	1,070	2,820	1,000	1,700	3,240	1,820	1,850	2,540	1,810	2,340	1,410
17	820	1,000	2,220	993	1,450	8,340	1,870	1,800	1,970	2,060	1,730	1,260
18	800	950	2,110	998	1,300	5,930	1,970	1,750	1,970	1,550	4,340	1,240
19	930	985	1,550	1,040	1,320	7,090	1,860	1,700	2,200	1,370	3,110	1,190
20	875	1,410	1,220	1,150	1,310	5,350	1,830	1,650	2,910	1,330	1,750	1,160
21	825	1,100	1,340	1,210	1,280	2,870	1,810	1,650	2,050	1,530	1,730	1,110
22	825	1,000	3,250	3,180	1,270	2,710	1,700	1,610	2,220	1,350	1,640	1,100
23	830	960	2,370	2,980	1,230	2,170	1,700	1,630	2,540	1,310	1,570	1,090
24	840	925	1,960	2,610	1,250	2,030	1,680	1,790	2,370	1,710	1,510	1,050
25	830	950	2,050	2,270	1,190	2,110	1,750	2,010	2,250	2,090	1,320	1,050
26	810	1,250	1,760	1,320	1,170	3,490	2,040	1,690	1,700	1,550	1,350	1,050
27	815	1,070	1,400	2,110	2,100	3,290	12,500	1,860	1,700	1,570	1,390	1,020
28	1,360	965	1,280	2,520	1,890	2,560	6,490	8,510	1,900	1,650	1,330	1,040
29	1,050	945	1,220	2,390	-----	2,270	7,210	7,620	2,080	1,320	1,260	1,040
30	930	950	1,180	1,850	-----	2,520	6,940	6,760	1,730	1,230	1,220	1,090
31	890	-----	1,140	1,480	-----	2,580	-----	6,250	-----	1,190	1,200	-----
TOTAL	27,285	32,175	47,495	45,434	65,810	93,860	89,590	89,490	62,650	46,590	72,010	39,630
MEAN	880	1,073	1,532	1,466	2,350	3,028	2,986	2,887	2,088	1,503	2,323	1,321
MAX	1,360	3,680	3,590	3,180	11,000	8,340	12,500	8,510	3,010	2,090	4,900	2,960
MIN	795	805	885	913	1,170	1,300	1,680	1,610	1,640	1,190	1,200	1,020
(+)	-61	+75	+88	0	0	+6	+9	-3	-12	0	0	-81
MEAN†	819	1,148	1,620	1,466	2,350	3,034	2,995	2,884	2,076	1,503	2,323	1,240
CFSM‡	.96	1.34	1.90	1.72	2.75	3.55	3.51	3.38	2.43	1.76	2.72	1.45
IN.‡	1.11	1.50	2.19	1.98	2.86	4.09	3.92	3.90	2.71	2.03	3.14	1.62

CAL YR 1972 TOTAL 559,928 MEAN 1,530 MAX 20,300 MIN 739 MEAN‡ 1,530 CFSM‡ 1.79 IN‡ 24.39
 WTR YR 1973 TOTAL 712,019 MEAN 1,951 MAX 12,500 MIN 795 MEAN‡ 1,953 CFSM‡ 2.29 IN‡ 31.04

† 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.

PEE DEE RIVER BASIN

02112360 Mitchell River near State Road, N. C.

LOCATION.--Lat 36°18'58", long 80°48'36", Surry County, on right bank 18 ft upstream from bridge on Secondary Road 1001, 1.8 miles upstream from Grass Creek, and 3.3 miles east of State Road.

DRAINAGE AREA.--80.4 sq mi.

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 above mean sea level. Prior to Aug. 29, 1964, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--9 years, 123 cfs (20.78 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,740 cfs Apr. 27 (gage height, 7.23 ft); minimum, 65 cfs Oct. 16 (gage height, 2.03 ft).

Period of record: Maximum discharge, 6,450 cfs Aug. 30, 1964 (gage height, 14.85 ft); minimum, 35 cfs Aug. 17, 19, 1967; minimum gage height, 1.73 ft July 28, 29, 1966.

Maximum stage known since at least 1900, about 18 ft in August 1940, from information by local resident (estimated discharge, 9,000 cfs). A discharge of 16.5 cfs was measured on Sept. 19, 1956.

REMARKS.--Records good except those for period of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	80	100	117	127	129	287	252	227	158	300	110
2	89	78	94	109	1,280	127	248	238	214	146	180	100
3	80	78	90	109	385	194	224	255	206	138	160	100
4	76	80	90	131	248	183	245	234	197	140	170	110
5	96	73	89	117	206	231	214	214	192	140	790	130
6	89	73	313	113	194	238	200	206	217	163	240	110
7	80	74	180	107	180	395	224	203	220	138	250	105
8	73	158	136	111	174	322	331	336	192	138	190	105
9	71	98	131	107	163	267	245	350	183	135	171	110
10	70	87	124	102	151	227	238	259	180	130	160	140
11	70	83	120	102	146	217	214	245	177	124	150	120
12	70	80	115	98	138	227	206	217	174	124	181	105
13	70	78	111	100	133	203	197	209	174	122	163	100
14	71	465	109	100	158	192	192	197	180	117	300	300
15	71	153	480	100	169	189	189	194	200	200	220	150
16	68	117	241	102	148	259	183	189	250	160	155	115
17	71	105	163	98	133	764	189	189	175	170	200	107
18	70	96	141	96	133	360	192	183	175	154	270	98
19	85	102	122	109	131	271	189	180	200	140	163	94
20	76	174	120	109	129	238	183	177	160	140	158	92
21	73	120	153	100	127	238	177	174	250	150	150	92
22	73	107	455	309	122	217	174	169	300	140	133	92
23	71	100	211	192	120	200	174	180	250	135	127	92
24	74	94	174	148	117	192	174	231	180	180	127	90
25	74	98	163	133	117	211	180	211	169	145	131	90
26	71	136	148	127	117	283	209	186	160	140	130	90
27	73	111	136	214	172	231	1,580	211	148	138	122	90
28	146	102	129	169	141	206	480	1,280	210	125	117	90
29	100	96	120	153	-----	197	327	445	200	112	110	90
30	85	100	120	136	-----	220	279	304	158	117	110	90
31	81	-----	120	129	-----	234	-----	252	-----	117	110	-----
TOTAL	2,472	3,396	4,998	3,947	5,559	7,662	8,144	8,170	5,918	4,376	5,938	3,307
MEAN	79.7	113	161	127	199	247	271	264	197	141	192	110
MAX	146	465	480	309	1,280	764	1,580	1,280	300	200	790	300
MIN	68	73	89	96	117	127	174	169	148	112	110	90
CFSM	.99	1.41	2.00	1.58	2.48	3.07	3.37	3.28	2.45	1.75	2.39	1.37
IN.	1.14	1.57	2.31	1.83	2.57	3.55	3.77	3.78	2.74	2.02	2.75	1.53

CAL YR 1972 TOTAL 52,764 MEAN 144 MAX 2,030 MIN 67 CFSM 1.79 IN 24.41
WTR YR 1973 TOTAL 63,887 MEAN 175 MAX 1,580 MIN 68 CFSM 2.18 IN 29.56

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 2	0630	7.19	2,710	5-28	0530	5.85	2,020
4-27	0600	7.23	2,740	8- 5	Unknown	5.57	1,870

NOTE.--No gage-height record
June 15 to Sept. 14.

PEE DEE RIVER BASIN

105

02113000 Fisher River near Copeland, N. C.

LOCATION.--Lat 36°20'27", long 80°40'20", Surry County, on left bank 500 ft upstream from bridge on State Highway 268, 1 mile upstream from Cody Creek, and 2 miles northwest of Copeland.

DRAINAGE AREA.--121 sq mi.

PERIOD OF RECORD.--October 1931 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 913 ft (by barometer). Prior to Sept. 5, 1936, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--42 years, 179 cfs (20.09 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,630 cfs Feb. 2 (gage height, 10.31 ft); minimum, 85 cfs Oct. 10, 11, 15, 16 (gage height, 2.28 ft).

Period of record: Maximum discharge, 27,300 cfs Aug. 14, 1940 (gage height, 18.4 ft, from floodmarks, from rating curve extended above 6,200 cfs on basis of slope-area measurement of peak flow; minimum, 14 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	105	155	179	196	172	540	321	310	191	223	122
2	116	103	139	167	3,140	165	421	297	289	181	370	119
3	104	102	134	165	734	332	339	328	263	171	583	117
4	99	101	130	215	453	307	375	314	247	166	341	121
5	122	98	126	190	357	358	322	267	237	189	2,460	122
6	121	95	677	176	328	345	287	252	281	163	578	126
7	101	96	367	166	312	586	316	245	336	157	469	135
8	93	285	224	173	286	497	591	383	247	154	276	116
9	88	148	202	163	268	402	382	458	231	151	235	120
10	86	124	187	159	243	323	380	320	226	217	206	163
11	86	115	178	155	224	296	317	300	227	156	230	140
12	88	109	172	150	213	331	294	265	210	142	189	121
13	89	105	166	155	208	274	275	247	214	136	177	111
14	90	1,020	166	183	244	252	261	233	239	145	416	335
15	88	304	988	154	302	244	252	225	260	318	374	207
16	85	188	482	154	224	403	244	218	255	362	193	145
17	94	159	270	148	192	1,390	249	219	258	380	179	127
18	90	144	221	147	188	569	259	215	244	193	248	121
19	103	153	197	161	182	406	245	207	216	166	194	114
20	105	418	185	168	176	344	236	206	202	158	173	113
21	95	206	256	151	173	340	229	198	307	158	173	107
22	93	170	1,120	591	168	325	222	191	443	213	167	107
23	92	155	415	376	164	281	218	206	349	388	156	107
24	97	143	298	249	161	262	215	354	233	190	150	103
25	96	144	271	211	157	295	223	392	196	173	146	115
26	93	235	239	197	155	570	243	238	183	227	143	104
27	93	177	215	442	225	390	1,780	268	176	214	144	100
28	214	156	200	301	195	313	662	2,500	196	165	136	103
29	153	145	186	260	-----	289	432	721	468	147	131	99
30	118	146	181	216	-----	342	359	448	215	136	129	99
31	109	-----	184	203	-----	369	-----	358	-----	135	126	-----
TOTAL	3,257	5,649	8,931	6,525	9,868	11,772	11,168	11,394	7,758	6,042	9,715	3,839
MEAN	105	188	288	210	352	380	372	368	259	195	313	128
MAX	214	1,020	1,120	591	3,140	1,390	1,780	2,500	468	388	2,460	335
MIN	85	95	126	147	155	165	215	191	176	135	126	99
CFSM	.87	1.55	2.38	1.74	2.91	3.14	3.07	3.04	2.14	1.61	2.59	1.06
IN.	1.00	1.74	2.75	2.01	3.03	3.62	3.43	3.50	2.39	1.86	2.99	1.18

CAL YR 1972 TOTAL 78,463 MEAN 214 MAX 4,920 MIN 71 CFSM 1.77 IN 24.12
WTR YR 1973 TOTAL 95,918 MEAN 263 MAX 3,140 MIN 85 CFSM 2.17 IN 29.49

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	1030	6.53	2,510	4-27	1130	7.53	3,310
12-15	1430	6.30	2,330	5-28	1100	8.78	4,310
2- 2	1000	10.31	5,630	8- 5	0400	9.65	5,040
3-17	1000	6.43	2,430				

PEE DEE RIVER BASIN

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 downstream from Flat Shoal Creek.

DRAINAGE AREA.--231 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 880.97 ft above mean sea level.

AVERAGE DISCHARGE.--9 years, 284 cfs (16.70 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,840 cfs Feb. 2 (gage height, 11.28 ft); minimum, 150 cfs Oct. 16 (gage height, 1.13 ft); minimum daily, 163 cfs Oct. 11, 15, 16.
 Period of record: Maximum discharge, 10,800 cfs June 21, 1972 (gage height, 14.72 ft); minimum, 20 cfs Aug. 17, 18, Oct. 7, 8, 1966 (gage height, 0.65 ft); minimum daily, 56 cfs, July 28, 1966.
 Maximum stage known since at least 1904, 21.4 ft June 14, 1947 (result of failure of dams upstream, discharge about 31,000 cfs), from information by local residents.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	355	180	291	339	365	349	985	542	509	341	397	197
2	250	178	260	313	4,460	344	755	520	488	323	543	194
3	223	182	247	315	1,280	548	660	569	453	363	752	199
4	201	185	243	405	685	491	750	549	429	561	418	236
5	245	170	235	354	580	563	655	494	405	592	2,690	213
6	228	166	1,330	325	547	503	595	479	467	374	783	187
7	201	173	660	316	523	507	645	468	479	335	778	242
8	173	479	405	328	491	549	973	618	403	324	495	201
9	168	256	371	314	463	505	690	662	385	318	414	195
10	163	221	345	301	433	462	720	536	377	315	360	245
11	163	203	336	299	411	454	625	505	376	366	368	223
12	165	189	321	291	398	497	590	479	358	297	338	208
13	169	187	310	277	390	436	569	459	363	240	331	196
14	166	2,190	309	292	482	420	553	446	361	272	363	426
15	163	600	1,540	292	587	415	542	435	389	544	416	385
16	163	378	760	293	453	571	531	425	479	448	308	263
17	176	320	445	284	404	1,890	536	431	378	532	293	235
18	165	240	382	281	391	872	547	429	612	364	356	226
19	197	321	346	312	385	660	525	419	374	319	303	213
20	188	775	338	312	380	600	514	413	415	310	284	206
21	169	384	496	286	372	615	503	405	536	337	283	204
22	167	323	1,760	963	361	600	498	392	667	326	278	201
23	167	293	640	582	355	547	492	416	516	397	263	206
24	184	271	481	434	350	531	481	539	398	311	255	200
25	177	279	451	391	345	580	457	593	338	303	246	222
26	164	443	415	374	346	1,140	547	438	331	586	242	208
27	165	330	388	688	411	680	1,460	477	318	478	246	197
28	339	290	362	495	368	595	825	2,780	370	343	226	201
29	252	271	343	452	-----	575	620	1,150	897	277	223	194
30	201	240	330	394	-----	640	564	675	381	258	208	191
31	166	-----	355	378	-----	680	-----	568	-----	266	201	-----
TOTAL	6,098	10,797	15,495	11,680	17,019	18,819	19,437	18,311	13,252	11,461	13,665	6,714
MEAN	197	360	500	377	608	607	648	591	442	370	441	224
MAX	355	2,190	1,760	963	4,460	1,890	1,460	2,780	897	592	2,690	426
MIN	163	166	235	277	345	344	481	392	318	258	201	187
CFSM	.85	1.56	2.16	1.63	2.63	2.63	2.81	2.56	1.91	1.60	1.91	.97
IN.	.98	1.74	2.50	1.88	2.74	3.03	3.13	2.95	2.13	1.45	2.20	1.08

CAL YR 1972 TOTAL 135,866 MEAN 371 MAX 6,600 MIN 138 CFSM 1.61 IN 21.88
 WTR YR 1973 TOTAL 162,748 MEAN 446 MAX 4,460 MIN 163 CFSM 1.93 IN 26.21

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	1200	7.54	4,080	5-28	1500	7.37	3,960
12-15	1500	6.09	3,110	7-26	1500	10.66	6,260
2- 2	1500	11.28	6,840	8- 5	0300	8.55	4,780

PEE DEE RIVER BASIN

107

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 downstream from bridge on U. S. Highway 52, 1.0 mile southwest of Dalton, 1.3 miles downstream from Southern Railway bridge, and 2.0 miles downstream from Danbury Creek.

DRAINAGE AREA.--42.8 sq mi.

PERIOD OF RECORD.--August 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 813.7 ft above mean sea level (North Carolina State Highway Commission bench mark).

AVERAGE DISCHARGE.--13 years, 44.8 cfs (14.21 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,530 cfs Feb. 2 (gage height, 9.84 ft); minimum, 16 cfs Oct. 15, 16, 17, 18, 19; minimum gage height, 0.60 ft Sept. 9, 24, 25, 26, 27, 29.

Period of record: Maximum discharge, 8,290 cfs June 21, 1972 (gage height, 18.81 ft), from rating curve extended above 2,700 cfs on basis of slope-area measurement at gage height 17.86 ft; minimum, 1.4 cfs July 29, 1966.

REMARKS.--Records good.

REVISIONS.--WSP 2104: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	22	46	41	44	38	264	49	44	35	54	20
2	34	21	41	38	1,240	37	119	46	42	35	67	20
3	21	21	39	43	165	183	83	73	40	32	103	20
4	25	21	38	79	87	105	86	61	37	61	41	21
5	46	20	36	56	68	122	70	48	36	38	309	21
6	32	19	74	47	60	95	62	44	49	32	59	20
7	28	21	60	43	56	75	98	42	48	30	44	19
8	23	90	47	44	59	277	177	98	39	29	38	18
9	21	35	50	41	57	127	102	84	39	28	34	19
10	19	28	43	38	51	80	225	55	40	26	30	23
11	19	26	46	37	48	71	46	48	39	28	28	21
12	19	24	44	35	45	70	70	43	35	24	26	19
13	17	24	42	37	42	63	61	40	33	24	26	18
14	17	596	41	40	75	56	56	38	32	23	77	39
15	16	89	596	35	76	58	53	37	32	74	60	25
16	17	52	142	36	60	127	52	36	32	36	30	21
17	18	44	70	34	49	732	51	40	231	42	27	20
18	16	38	54	34	47	117	50	37	228	32	116	20
19	35	84	48	38	45	79	48	35	55	29	47	19
20	23	108	46	36	43	68	47	35	44	27	33	19
21	19	66	185	33	42	79	45	34	190	25	30	19
22	19	49	414	174	40	46	44	33	63	24	30	18
23	19	41	112	87	40	71	43	34	58	33	26	19
24	20	38	73	55	38	63	42	174	451	27	26	18
25	19	51	60	46	37	38	43	89	61	25	25	17
26	18	149	54	43	39	362	53	47	46	26	24	18
27	19	66	48	164	45	178	249	64	43	31	23	18
28	42	49	43	81	41	84	94	509	48	25	23	19
29	26	42	40	74	-----	72	61	98	44	23	22	18
30	23	46	40	53	-----	95	53	63	37	21	22	19
31	22	-----	45	47	-----	189	-----	49	-----	55	21	-----
TOTAL	756	2,070	2,722	1,689	2,738	3,976	2,587	2,182	2,216	1,000	1,521	605
MEAN	24.4	69.0	87.8	54.5	97.8	128	86.2	70.4	73.0	32.3	49.1	20.2
MAX	57	596	596	174	1,240	732	264	509	451	74	309	39
MIN	15	19	36	33	37	37	42	33	32	21	21	17
CFSM	.57	1.61	2.05	1.27	2.29	2.99	2.91	1.64	1.73	.75	1.15	.47
IN.	.66	1.80	2.37	1.47	2.38	3.46	2.25	1.90	1.93	.47	1.32	.53
CAL YR 1972	TOTAL 23,915	MEAN 65.3	MAX 164	MIN 12	CFSM 1.53	IN 20.79						
WTR YR 1973	TOTAL 24,062	MEAN 65.9	MAX 1,240	MIN 16	CFSM 1.54	IN 20.91						

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0630	7.51	2,550	3-17	0500	5.98	1,950
12-15	1300	6.47	2,140	6-17	2300	6.35	2,090
2- 2	0730	9.84	3,530	6-24	0230	6.97	2,340

PEE DEE RIVER BASIN

02115360 Yadkin River at Enon, N. C.

LOCATION.--Lat 36°07'55", long 80°26'39", Forsyth County, on left bank 100 ft upstream from bridge on Secondary Road 1525 (revised), 1.5 miles east of Enon, 4 miles upstream from Forbush Creek, and 324 miles upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--1,680 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 701.71 ft above mean sea level, unadjusted. Prior to Nov. 6, 1968, nonrecording gage on downstream side of bridge at same site and datum.

AVERAGE DISCHARGE.--9 years, 2,412 cfs (19.50 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 36,500 cfs Feb. 2 (gage height, 22.88 ft); minimum, 1,380 cfs Oct. 11, 16, 17 (gage height, 3.62 ft); minimum daily, 1,390 cfs Oct. 11, 16.
Period of record: Maximum discharge, 73,300 cfs June 21, 1972 (gage height, 27.83 ft); minimum observed, 625 cfs Aug. 17, 1967; minimum gage height, observed, 2.29 ft July 28, 1966.
Flood of Aug. 15, 1940 reached a stage of 737.5 ft msl (35.8 ft, gage datum), from information by Corps of Engineers.

REMARKS.--Records good. Some regulation by W. Kerr Scott Reservoir. (See p. 146).

REVISIONS (WATER YEARS).--WRD N. C. 1972: 1970(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,450	1,520	1,900	2,240	2,710	2,940	4,770	4,490	4,310	2,860	2,540	1,960
2	1,830	1,500	1,790	2,130	23,300	2,570	4,220	4,860	4,070	2,760	7,910	1,950
3	1,620	1,480	1,710	2,090	15,100	3,470	5,170	4,040	3,790	2,680	6,060	1,950
4	1,520	1,480	1,690	2,630	6,920	4,350	4,390	4,700	3,690	2,670	4,560	1,950
5	1,570	1,460	1,670	2,610	3,030	4,510	5,000	3,960	3,350	3,240	12,500	2,730
6	1,840	1,420	3,210	2,350	7,450	5,240	4,010	3,780	3,430	2,700	4,620	3,540
7	1,630	1,430	4,820	2,180	4,360	5,740	3,950	3,520	3,260	2,490	4,660	2,070
8	1,580	2,510	2,650	2,160	3,690	7,230	4,570	3,740	3,620	2,340	4,000	1,960
9	1,450	2,300	2,290	2,120	3,500	6,390	5,920	6,490	3,130	2,400	4,600	1,890
10	1,410	1,640	2,230	2,510	3,170	5,110	5,780	5,860	3,160	2,460	3,150	2,170
11	1,390	1,550	2,110	2,040	3,010	4,210	4,740	4,630	3,070	2,560	3,160	2,450
12	1,400	1,520	2,040	1,950	2,790	4,320	4,290	4,340	2,960	2,680	3,410	2,080
13	1,420	1,490	1,990	1,350	2,610	4,410	3,900	3,800	2,990	2,280	2,920	1,920
14	1,420	9,940	1,940	1,810	2,840	3,840	3,800	3,610	2,890	2,110	2,400	2,320
15	1,610	5,100	4,170	1,910	4,090	3,470	3,600	3,440	3,750	2,950	5,340	4,810
16	1,390	2,500	4,480	1,950	3,440	4,040	3,510	3,280	4,490	3,250	3,920	2,820
17	1,410	2,050	4,100	1,950	3,010	16,800	3,470	3,260	3,600	4,240	3,130	2,190
18	1,410	1,850	3,560	1,940	2,670	10,100	3,660	3,270	4,320	3,080	4,900	2,060
19	1,490	1,420	3,120	1,950	2,590	9,490	3,520	3,050	3,440	2,530	5,630	2,000
20	1,620	4,330	2,450	2,120	2,580	4,830	3,450	3,060	4,050	2,370	3,420	1,910
21	1,450	2,750	2,500	2,110	2,540	5,430	3,370	3,100	4,220	2,420	2,830	1,880
22	1,420	2,110	11,100	4,480	2,490	5,010	3,270	2,960	4,120	2,470	2,760	1,820
23	1,420	1,400	5,300	6,790	2,430	4,170	3,170	2,900	4,780	2,840	2,620	1,820
24	1,440	1,770	3,950	4,290	2,390	3,770	3,160	3,270	5,320	2,440	2,530	1,800
25	1,460	1,750	3,540	3,770	2,340	3,660	3,120	4,220	3,300	3,220	2,350	1,780
26	1,420	2,860	3,370	2,900	2,290	7,720	3,630	3,390	2,940	2,950	2,210	1,800
27	1,400	2,480	2,880	3,990	2,540	7,700	15,400	3,150	2,920	3,040	2,250	1,760
28	1,750	2,000	2,510	4,400	4,020	5,170	13,600	13,500	2,810	2,840	2,240	1,750
29	2,390	1,340	2,450	4,100	-----	4,320	9,730	14,300	4,160	2,540	2,130	1,750
30	1,690	1,780	2,260	3,460	-----	4,580	9,570	9,840	3,440	2,220	2,040	1,740
31	1,550	-----	2,250	2,890	-----	5,080	-----	8,860	-----	2,160	2,010	-----
TOTAL	49,070	70,250	105,020	85,670	129,900	173,740	159,800	154,660	111,930	83,900	127,200	64,630
MEAN	1,593	2,342	3,388	2,764	4,639	5,605	5,327	4,989	3,731	2,706	4,103	2,154
MAX	2,950	9,940	11,100	6,790	23,300	16,800	15,400	14,300	6,310	4,240	12,500	4,810
MIN	1,390	1,420	1,670	1,810	2,290	2,570	3,120	2,900	2,810	2,110	2,010	1,740
(+)	-61	+75	+88	0	0	+6	+9	-3	-12	0	0	-81

CAL YR 1972 TOTAL 1,108,030 MEAN 3,027 MAX 46,400 MIN 1,260 MEAN+ 3,028 CFSM+ 1.80 IN+ 24.53
WTR YR 1973 TOTAL 1,315,770 MEAN 3,605 MAX 23,300 MIN 1,390 MEAN+ 3,607 CFSM+ 2.15 IN+ 29.14

+ 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 upstream from bridge at Winston-Salem Elledge Wastewater Treatment Plant, 2,700 ft upstream from effluent outfall, 4,100 ft upstream from bridge on Secondary Road 1120, 1.4 miles southeast of Atwood, and 3.4 miles upstream from mouth.

DRAINAGE AREA.--64.4 sq mi.

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 above mean sea level.

EXTREMES.--Current year: Maximum discharge, 2,540 cfs Nov. 14 (gage height, 12.96 ft); minimum, 20 cfs Oct. 15, 16 (gage height, 0.59 ft); minimum daily, 22 cfs Oct. 9-12, 15, 18, 21, 22, 25, 26.

REMARKS.--Records good. Flow regulated by Salem Lake in the headwaters. The city of Winston-Salem diverted an average of 23.6 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	23	70	57	53	40	454	52	47	88	37	27
2	32	23	48	51	1,040	40	204	51	43	54	152	26
3	26	26	40	74	437	259	103	195	40	76	477	25
4	26	27	38	101	118	129	102	99	37	54	134	29
5	50	25	37	67	86	268	83	63	36	42	328	27
6	34	24	78	62	76	161	72	51	103	36	143	27
7	28	26	43	53	67	105	196	47	54	33	65	27
8	24	258	46	60	78	161	266	210	40	31	48	24
9	22	35	91	61	64	98	124	108	40	33	41	25
10	22	29	50	57	55	76	149	68	37	37	36	30
11	22	26	53	55	47	144	77	60	36	77	33	26
12	22	25	53	45	45	165	67	50	37	33	31	25
13	23	34	41	41	45	88	61	45	39	31	43	25
14	24	688	41	36	152	69	57	44	38	29	37	116
15	22	86	802	42	90	122	54	42	50	267	36	30
16	28	51	425	44	65	119	55	40	42	100	31	26
17	24	75	123	33	51	676	52	42	38	694	31	26
18	22	43	79	36	45	202	51	40	57	248	90	27
19	52	172	65	61	47	92	53	37	35	81	94	29
20	25	267	61	37	47	74	51	38	34	59	37	28
21	22	83	211	32	44	116	49	42	34	49	36	28
22	22	49	384	326	44	90	47	45	304	86	92	27
23	23	38	148	112	43	67	46	53	182	64	36	27
24	25	35	76	65	42	59	48	98	60	38	32	26
25	22	166	60	51	40	64	51	46	43	35	29	25
26	22	217	51	59	45	134	72	40	37	122	28	25
27	23	84	51	123	58	87	403	86	40	75	28	27
28	125	60	51	123	43	71	135	696	106	43	28	26
29	27	40	47	153	-----	68	69	190	430	39	28	29
30	23	120	47	80	-----	82	57	74	78	37	28	37
31	23	-----	90	61	-----	154	-----	55	-----	39	28	-----
TOTAL	934	2,855	3,500	2,258	3,067	4,080	3,308	2,807	2,197	2,730	2,317	902
MEAN	30.1	95.2	113	72.8	110	132	110	90.5	73.2	88.1	74.7	30.1
MAX	125	688	802	326	1,040	676	454	696	430	694	477	116
MIN	22	23	37	32	40	40	46	37	34	29	28	24

CAL YR 1972 TOTAL 29,558 MEAN 80.8 MAX 2,730 MIN 20
WTR YR 1973 TOTAL 30,955 MEAN 84.8 MAX 1,040 MIN 22

PEE DEE RIVER BASIN

02115860 Muddy Creek near Muddy Creek, N. C.

LOCATION.--Lat 36°00'01", long 80°20'25", Forsyth County, on right bank 100 ft upstream from bridge on Secondary Road 2995, 0.2 mile downstream from Salem Creek, and 1.8 miles east of community of Muddy Creek.

DRAINAGE AREA.--178 sq mi.

RECORDS AVAILABLE.--July 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 682.67 ft above mean sea level.

AVERAGE DISCHARGE.--9 years, 212 cfs (16.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,830 cfs Dec. 15 (gage height, 14.96 ft); minimum, 86 cfs Sept. 23, 24; minimum daily, 92 cfs Sept. 23; minimum gage height, 2.38 ft Oct. 16.

Period of record: Maximum discharge, 14,500 cfs June 22, 1972 (gage height, 21.26 ft); minimum, 21 cfs Oct. 6, 1968 (gage height, 1.26 ft); minimum daily, 35 cfs Oct. 6, 1968.

Flood of June 1957 reached a stage of about 23 ft, from information by local resident.

REMARKS.--Records fair. Records following peak stages above 14 ft 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 cfs from Salem Lake in the basin and 23.1 cfs from the Yadkin River for water supply. An average of about 36.9 cfs sewage effluent was returned to Salem Creek 3.5 miles 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	484	126	241	224	241	178	1,490	240	194	178	156	105
2	195	127	191	216	2,970	173	611	226	174	224	259	99
3	165	130	168	249	1,940	810	369	434	156	189	698	99
4	149	125	168	423	470	578	321	364	156	170	279	120
5	189	113	167	297	346	903	283	238	153	208	711	140
6	174	116	273	261	301	544	255	207	215	151	1,190	121
7	148	123	218	232	267	458	391	204	249	137	297	118
8	124	617	191	244	284	603	798	469	175	128	228	107
9	125	199	267	245	270	527	372	489	160	136	200	98
10	128	161	199	240	222	348	421	271	147	139	183	119
11	124	142	198	236	197	375	302	264	152	236	163	118
12	125	128	203	228	194	659	269	217	154	154	145	111
13	125	136	184	206	197	373	249	195	156	137	174	109
14	120	1,960	181	199	370	311	232	184	166	128	164	268
15	111	609	2,440	224	411	362	219	189	180	691	174	143
16	124	248	1,740	240	259	448	221	188	196	367	148	107
17	130	259	426	220	209	2,540	221	191	149	1,200	142	109
18	120	207	309	220	182	806	222	192	236	515	284	112
19	165	297	274	288	190	412	220	174	166	236	405	118
20	141	1,080	259	240	191	343	214	167	157	197	176	112
21	117	342	544	204	187	389	202	174	158	169	164	109
22	110	232	1,650	1,240	181	487	192	173	474	164	253	103
23	118	192	551	617	176	340	189	197	528	364	156	92
24	129	175	354	319	167	288	200	294	204	185	142	99
25	123	326	295	263	157	268	211	217	169	165	132	104
26	120	764	264	247	197	580	250	180	155	232	121	103
27	119	308	248	528	230	453	1,360	226	153	265	126	107
28	305	226	234	407	197	311	572	1,930	170	164	128	108
29	161	197	220	599	-----	293	297	599	807	142	124	102
30	133	249	215	311	-----	349	259	272	223	142	121	128
31	130	-----	274	260	-----	507	-----	219	-----	150	119	-----
TOTAL	4,731	9,914	13,146	9,927	11,203	16,016	11,412	9,584	6,532	7,663	7,762	3,488
MEAN	153	330	424	320	400	517	380	309	218	247	250	116
MAX	484	1,960	2,440	1,240	2,970	2,540	1,490	1,930	807	1,200	1,190	268
MIN	110	113	167	199	157	173	189	167	147	128	119	92

CAL YR 1972 TOTAL 114,532 MEAN 313 MAX 8,130 MIN 86
WTR YR 1973 TOTAL 111,378 MEAN 305 MAX 2,970 MIN 92

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0830	14.39	3,480	3-17	0830	13.82	3,160
12-15	1600	14.96	3,830	5-28	1000	14.05	3,280
12-22	0130	11.82	2,350	7-17	1500	13.18	2,840
1-22	1300	11.48	2,240	8- 5	2130	13.18	2,840
2- 2	1400	14.95	3,820				

PEE DEE RIVER BASIN

111

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 upstream from bridge on Secondary Road 2902, 1.9 miles downstream from Leak Creek, and 4.2 miles southeast of Clemmons.

DRAINAGE AREA.--42.2 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 684 ft (from topographic map).

AVERAGE DISCHARGE.--9 years, 41.5 cfs (13.35 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,440 cfs Feb. 2 (gage height, 13.12 ft); minimum, 16 cfs Oct. 10, 15, 16, Sept. 8, 9, 13, 25; minimum gage height, 2.74 ft Sept. 8, 9.

Period of record: Maximum discharge, 2,980 cfs Aug. 10, 1970 (gage height, 16.30 ft); minimum, 3.8 cfs Oct. 3, 1968.

In the period 1930-64, three floods equalled or exceeded 15 ft. The highest was about 16.3 ft on Aug. 31, 1959 as a result of dam failure (from information by local resident).

REMARKS.--Records good. 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	20	49	42	55	37	525	46	49	27	31	19
2	25	19	37	30	944	36	166	41	43	40	181	19
3	23	19	34	41	292	145	95	90	40	67	176	19
4	23	19	32	72	101	99	76	78	36	56	75	21
5	29	18	31	50	72	182	64	47	35	40	200	22
6	26	18	47	45	61	101	57	40	34	28	216	20
7	23	19	37	41	55	88	101	37	38	24	70	19
8	20	93	34	44	58	130	204	75	33	23	52	18
9	20	29	43	42	57	96	44	71	30	21	43	18
10	14	24	39	40	46	67	146	46	30	20	37	20
11	18	23	37	39	43	79	80	55	29	24	34	19
12	18	22	40	38	42	163	69	39	28	20	31	18
13	18	22	36	36	41	73	61	35	28	19	32	18
14	18	327	36	36	72	60	56	32	27	18	33	38
15	17	74	544	41	80	81	52	31	28	117	35	23
16	19	40	303	44	53	132	50	29	29	89	28	20
17	19	41	87	41	44	530	49	30	28	265	27	20
18	17	32	62	42	41	135	49	27	37	151	34	20
19	23	57	53	48	42	84	47	27	27	52	35	19
20	20	224	51	43	41	71	44	27	27	37	27	19
21	18	59	95	38	40	74	42	26	29	30	27	19
22	18	42	325	203	39	69	41	25	67	31	26	18
23	19	35	105	93	39	55	39	26	103	40	25	18
24	20	31	69	60	36	50	38	41	36	35	24	18
25	18	70	58	49	35	50	40	30	29	29	24	17
26	18	150	52	47	39	67	48	27	26	50	23	18
27	18	56	47	103	43	55	230	30	48	83	23	18
28	46	42	42	87	39	49	106	504	41	34	22	19
29	24	37	40	276	-----	47	63	147	122	28	21	19
30	21	53	39	83	-----	57	52	82	32	26	21	25
31	20	-----	50	62	-----	104	-----	59	-----	26	22	-----
TOTAL	668	1,720	2,555	1,965	2,549	3,056	2,784	1,900	1,189	1,590	1,655	598
MEAN	21.5	57.3	82.4	63.4	91.0	98.6	92.8	61.3	39.6	51.3	53.4	19.9
MAX	46	327	544	276	944	530	525	504	122	265	216	38
MIN	17	18	31	36	35	36	38	25	26	18	21	17
CFSM	.51	1.36	1.95	1.50	2.16	2.34	2.20	1.45	.94	1.22	1.27	.47
IN.	.59	1.52	2.25	1.73	2.25	2.69	2.45	1.67	1.05	1.40	1.46	.53

CAL YR 1972 TOTAL 19,419 MEAN 53.1 MAX 1,630 MIN 15 CFSM 1.26 IN 17.12
WTR YR 1973 TOTAL 22,229 MEAN 60.9 MAX 944 MIN 17 CFSM 1.44 IN 19.60

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	2030	11.13	973	4- 1	1130	9.93	772
2- 2	1630	13.12	1,440	5-28	1300	10.17	809
3-17	0830	9.96	775	8- 5	2100	9.64	737

PEE DEE RIVER BASIN

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 miles south of Yadkin College, 6.2 miles downstream from Reedy Creek, and 295 miles upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--2,280 sq mi, approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 638.65 ft above mean sea level (levels by Corps of Engineers). Prior to July 26, 1957 at site on left bank 80 ft downstream at same datum.

AVERAGE DISCHARGE.--45 years, 2,917 cfs (17.37 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 34,300 cfs Feb. 3 (gage height, 22.74 ft); minimum, 1,560 cfs Oct. 18; minimum gage height, 1.78 ft Sept. 30; minimum daily, 1,660 cfs Oct. 12, 13.

Period of record: Maximum discharge, 80,200 cfs Aug. 15, 1940 (gage height, 33.75 ft); minimum observed, 177 cfs Oct. 12, 1954 (gage height, -0.42 ft); minimum daily, 330 cfs Oct. 9, 1954, Sept. 23, 1956.

Flood of July 1916, reached a stage of 36.3 ft, from floodmarks (discharge, 94,300 cfs).

REMARKS.--Records good. Diurnal fluctuation during low flow caused by small hydroelectric plant with little storage capacity 10 miles upstream. Since August 1962, some regulation by W. Kerr Scott Reservoir. (See p. 146). 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,180	1,850	2,960	3,250	3,630	3,970	11,700	9,400	8,130	3,550	2,870	2,300
2	2,830	1,850	2,810	3,090	13,500	3,490	8,940	6,920	5,150	3,460	6,450	2,250
3	2,080	1,820	2,590	2,980	31,200	4,420	6,490	5,040	4,500	3,250	6,930	2,250
4	1,920	1,820	2,510	3,700	15,300	6,390	5,520	5,560	4,350	3,240	6,500	2,260
5	1,860	1,780	2,450	3,830	10,200	6,330	5,540	5,100	4,130	3,530	8,240	2,380
6	2,220	1,740	2,660	3,480	9,370	6,710	5,080	4,570	3,900	3,400	14,100	3,790
7	2,200	1,700	6,360	3,180	6,220	7,150	4,750	4,330	4,440	3,050	5,790	2,860
8	1,900	2,960	4,090	3,100	4,930	7,570	7,490	4,460	4,280	2,850	6,800	2,300
9	1,740	3,500	3,450	3,080	4,630	9,690	7,260	6,580	3,960	2,830	6,230	2,210
10	1,700	2,300	3,310	3,000	4,290	6,450	7,030	6,810	3,600	2,810	4,040	2,250
11	1,670	1,980	3,110	2,930	3,930	5,580	5,740	5,610	3,640	3,270	3,300	2,670
12	1,660	1,890	3,050	2,770	3,770	5,950	5,160	5,020	3,500	3,110	3,630	2,530
13	1,660	1,820	2,920	2,660	3,490	5,450	4,760	4,680	3,480	2,970	3,600	2,260
14	1,710	7,690	2,830	2,530	3,580	5,120	4,550	4,240	3,430	2,570	3,110	2,470
15	1,700	12,300	7,570	2,680	5,090	4,560	4,410	4,170	4,050	4,090	4,390	4,130
16	1,680	4,340	18,900	2,870	4,730	5,050	4,230	3,970	5,040	4,830	4,850	3,780
17	1,670	3,290	7,200	2,820	4,110	15,500	4,170	3,910	4,690	4,950	3,720	2,610
18	1,670	2,920	4,970	2,780	3,680	20,200	4,230	3,900	4,690	5,190	3,600	2,350
19	1,710	2,720	4,380	2,870	3,470	10,600	4,310	3,810	4,350	3,430	6,930	2,280
20	1,990	5,930	3,760	3,060	3,470	10,200	4,160	3,630	4,060	2,990	4,570	2,220
21	1,850	4,990	3,470	2,990	3,430	7,770	4,050	3,750	4,790	2,860	3,210	2,170
22	1,720	3,410	12,900	5,120	3,350	6,320	4,010	3,630	4,550	3,060	3,260	2,150
23	1,710	2,960	11,100	9,730	3,290	5,490	3,880	3,540	5,460	3,720	3,020	2,100
24	1,750	2,700	5,910	5,800	3,230	4,790	3,860	3,910	5,500	3,330	2,870	2,100
25	1,770	2,640	4,810	4,880	3,210	4,540	3,790	4,520	4,400	3,190	2,770	2,050
26	1,740	4,480	4,550	4,340	3,160	7,000	4,050	4,330	3,440	3,630	2,560	2,060
27	1,700	4,210	4,080	4,870	3,220	10,800	10,800	3,770	3,320	3,620	2,520	2,060
28	2,070	3,210	3,590	6,080	4,310	6,810	22,100	10,300	3,380	3,420	2,540	2,040
29	2,960	2,860	3,320	6,380	-----	5,440	11,800	20,900	4,890	3,220	2,500	2,040
30	2,360	2,760	3,190	4,940	-----	5,300	10,300	12,100	4,460	2,750	2,400	2,150
31	1,960	-----	3,240	4,120	-----	5,930	-----	9,310	-----	2,600	2,320	-----
TOTAL	63,340	100,420	152,040	119,910	169,790	220,560	194,150	181,770	131,560	104,810	139,680	73,070
MEAN	2,043	3,347	4,905	3,868	6,064	7,115	6,472	5,864	4,385	3,381	4,506	2,436
MAX	6,180	12,300	18,900	9,730	31,200	20,200	22,100	20,900	8,130	5,190	14,100	4,130
MTN	1,660	1,700	2,450	2,530	3,160	3,490	3,790	3,540	3,320	2,570	2,320	2,040
(+)	-61	+75	+88	0	0	+6	+9	-3	-12	0	0	-81

CAL YR 1972 TOTAL 1,388,900 MEAN 3,795 MAX 66,000 MTN 1,380 MEAN 3,795 CFSM# 1.66 IN# 22.65
WTO YR 1973 TOTAL 1,651,100 MEAN 4,524 MAX 31,200 MTN 1,660 MEAN 4,525 CFSM# 1.98 IN# 26.94

+ 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 upstream from culvert on Secondary Road 1813, 1.9 miles south of Fork, and 2.3 miles upstream from mouth.

DRAINAGE AREA.--1.05 sq mi.

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

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Altitude of gage is 695 ft (from topographic map).

AVERAGE DISCHARGE.--5 years, 1.05 cfs (13.58 inches per year).

 EXTREMES.--Current year: Maximum discharge, 137 cfs Apr. 1 (gage height, 4.05 ft), from rating curve extended as explained below; minimum, 0.24 cfs Oct. 8, 15 (gage height, 0.49 ft).
 Period of record: Maximum discharge, 161 cfs Oct. 25, 1971 (gage height, 4.57 ft), from rating curve extended above 65 cfs on basis of computation of flow through culvert; minimum daily, 0.12 cfs Oct. 1-6, 1968.
 A discharge of 0.08 cfs was measured on Sept. 23, 1968.

REMARKS.--Records fair. Diurnal fluctuation at low flow during growing season. Recording rain gage located at station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.37	.37	.92	.84	1.3	.71	34	1.2	.96	.84	1.5	.43
2	.33	.37	.76	.76	20	.72	3.2	1.1	.87	.76	8.6	.42
3	.32	.38	.69	.89	3.0	2.1	1.8	1.4	.79	.67	6.7	.44
4	.33	.38	.65	1.1	1.6	1.5	1.5	1.2	.73	.66	2.0	.45
5	.49	.37	.61	.94	1.3	4.4	1.3	.97	.72	.64	1.3	.44
6	.40	.36	.83	.93	1.2	6.4	1.2	.90	.81	.60	1.0	.42
7	.34	.37	.81	.84	1.0	4.1	3.8	.84	.80	.58	.87	.40
8	.31	1.3	.68	.91	1.2	3.1	5.5	1.5	.72	.57	.77	.38
9	.32	.56	.64	.85	1.1	2.1	2.5	1.3	.76	.54	.71	.41
10	.29	.46	.62	.80	.91	1.6	2.3	.99	.76	.53	.67	.47
11	.29	.44	.60	.80	.85	2.4	2.1	.91	.70	.47	.64	.43
12	.31	.42	.58	.77	.81	2.7	2.0	.83	.72	.54	.61	.41
13	.32	.41	.56	.74	.81	1.6	1.9	.77	.83	.56	.64	.42
14	.33	7.4	.56	.75	1.2	1.3	1.6	.76	.72	.81	.62	.96
15	.30	1.8	12	.90	1.1	2.0	1.1	.74	.71	7.3	.59	.58
16	.35	.78	3.5	.95	.93	2.7	1.0	.72	.71	1.7	.55	.52
17	.33	.71	1.3	1.0	.85	16	1.0	.74	.66	1.3	.58	.50
18	.31	.64	.90	1.1	.83	2.3	.92	.71	.68	.96	.66	.50
19	.40	.57	.75	1.5	.84	1.6	.88	.69	.65	.78	.60	.47
20	.35	3.0	.70	1.3	.80	1.3	.85	.72	.67	.70	.59	.47
21	.34	1.8	1.5	1.0	.78	1.5	.82	.67	.67	.65	.58	.47
22	.34	.99	8.0	9.4	.75	1.3	.78	.65	.78	.85	.57	.47
23	.36	.77	2.0	2.5	.74	1.2	.71	.65	1.1	9.5	.54	.47
24	.37	.63	1.5	1.8	.71	1.1	.71	1.6	.69	1.5	.55	.45
25	.35	1.4	1.3	1.6	.70	1.1	.78	1.0	.62	1.0	.53	.45
26	.35	2.1	1.1	1.6	.77	1.2	1.1	.97	.59	1.2	.50	.42
27	.39	1.1	.94	2.3	.86	1.2	16	1.0	.57	1.2	.48	.42
28	.71	.84	.84	2.2	.76	.99	3.1	34	.57	.86	.47	.42
29	.43	.73	.78	2.2	-----	1.0	1.7	3.5	8.6	.74	.46	.50
30	.39	.98	.77	1.6	-----	1.3	1.3	1.6	1.2	.67	.46	.50
31	.38	-----	1.0	1.4	-----	8.8	-----	1.1	-----	.67	.44	-----
TOTAL	11.20	32.43	48.39	46.27	47.70	81.32	97.45	65.73	30.36	40.95	35.78	14.09
MEAN	.36	1.08	1.56	1.49	1.70	2.62	3.25	2.12	1.01	1.32	1.15	.47
MAX	.71	7.4	12	9.4	20	16	34	34	8.6	9.5	8.6	.96
MIN	.29	.36	.56	.74	.70	.71	.71	.65	.57	.53	.44	.38
CFSM	.34	1.03	1.49	1.42	1.62	2.50	3.10	2.02	.96	1.26	1.10	.45
IN.	.40	1.15	1.71	1.64	1.69	2.88	3.45	2.33	1.08	1.45	1.27	.50

 CAL YR 1972 TOTAL 429.07 MEAN 1.17 MAX 51 MIN .22 CFSM 1.11 IN 15.20
 WTR YR 1973 TOTAL 551.67 MEAN 1.51 MAX 34 MIN .29 CFSM 1.44 IN 19.54

PEAK DISCHARGE (BASE, 20 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	Unknown	2.17	52	4-27	1320	2.12	49
12-15	Unknown	2.79	92	5-28	1030	3.70	121
1-22	0810	1.94	38	6-29	0400	2.13	50
2-2	0635	2.33	63	7-15	0110	2.15	51
3-6	1840	1.63	23	7-23	0350	2.46	72
3-17	0115	2.04	44	8-2	2100	2.41	69
4-1	0535	4.05	137				

PEE DEE RIVER BASIN

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 mile upstream from Little Creek, 4 miles downstream from Fifth Creek, 4.5 miles upstream from Hunting Creek, and 6.5 miles southwest of Mocksville.

DRAINAGE AREA.--313 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 663.6 ft above mean sea level.

AVERAGE DISCHARGE.--35 years, 333 cfs (14.45 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,920 cfs Feb. 3 (gage height, 14.00 ft); minimum, 160 cfs Sept. 25-30 (gage height, 2.15 ft); minimum gage height, 2.10 ft Oct. 19.

Period of record: Maximum discharge, 11,800 cfs Oct. 17, 1964 (gage height, 18.23 ft); minimum, 30 cfs Aug. 14, 16, 1956.

The flood of Oct. 3, 1929 reached a stage of 22.6 ft, from floodmark established by local resident (discharge, about 22,000 cfs).

REMARKS.--Records good. The city of Statesville diverts about 11 cfs for water supply and waste-water dilution. The Alexander Water Corporation withdraws an average of 1.0 cfs for water supply. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	790	219	337	402	423	570	2,730	721	528	344	301	215
2	323	214	308	370	2,000	486	1,730	642	482	425	471	210
3	252	212	288	356	5,100	893	944	668	449	354	811	206
4	226	214	278	484	3,200	936	780	722	420	323	587	209
5	226	209	271	472	937	888	726	590	307	312	381	216
6	254	203	357	421	721	877	638	539	437	298	335	211
7	232	201	876	391	637	748	698	512	818	286	311	203
8	206	329	540	403	578	1,020	1,140	603	518	282	289	202
9	194	347	447	394	595	1,590	870	993	478	279	277	195
10	188	262	437	372	515	940	791	708	457	273	266	212
11	181	237	392	361	473	769	677	605	400	344	259	224
12	181	225	405	353	445	996	618	553	384	309	257	212
13	183	218	376	327	427	761	585	506	385	271	253	200
14	183	857	353	313	466	637	554	474	382	263	268	248
15	182	1,150	1,710	355	662	662	534	456	373	376	276	348
16	178	509	2,890	374	571	1,120	520	439	384	705	277	244
17	179	377	2,270	369	480	2,660	510	427	376	1,100	240	202
18	180	323	686	370	441	3,580	509	418	362	444	279	186
19	183	313	543	403	425	1,640	505	407	354	340	502	181
20	212	660	479	404	416	841	493	402	341	308	328	170
21	201	522	582	368	406	760	477	397	347	292	341	170
22	190	387	1,990	1,010	396	824	462	382	350	285	313	170
23	189	334	1,750	1,180	384	672	451	376	386	365	305	170
24	194	302	822	645	375	607	446	464	365	293	263	170
25	198	307	640	498	365	585	439	470	324	285	256	162
26	191	536	553	438	364	1,150	503	428	307	284	242	160
27	187	488	494	909	436	1,390	2,060	418	298	466	242	160
28	307	381	445	759	811	900	3,610	2,060	403	424	233	160
29	365	336	412	957	-----	726	2,580	2,290	890	333	226	160
30	257	315	387	585	-----	788	889	997	433	281	222	165
31	228	-----	408	480	-----	1,060	-----	624	-----	264	218	-----
TOTAL	7,240	11,188	22,726	15,523	23,049	32,076	28,469	20,291	12,828	11,208	9,829	5,941
MEAN	234	373	733	501	823	1,035	949	655	428	362	317	198
MAX	790	1,150	2,890	1,180	5,100	3,580	3,610	2,290	890	1,100	811	348
MIN	178	201	271	313	364	486	439	376	298	263	218	160
CFSM	.75	1.19	2.34	1.60	2.63	3.31	3.03	2.09	1.37	1.16	1.01	.63
IN.	.86	1.33	2.70	1.84	2.74	3.81	3.38	2.41	1.52	1.33	1.17	.71

CAL YR 1972 TOTAL 161,299 MEAN 441 MAX 8,300 MIN 142 CFSM 1.41 IN 19.17
WTR YR 1973 TOTAL 200,368 MEAN 549 MAX 5,100 MIN 160 CFSM 1.75 IN 23.81

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	0100	10.41	3,260	4- 1	1200	9.56	2,980
2- 3	1500	14.00	5,920	4-28	1800	12.05	4,340
3-18	1200	11.32	3,890				

PEE DEE RIVER BASIN

115

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 mile downstream from Kennedy Creek, 1 mile east of Houstonville, 2 miles downstream from U. S. Highway 21, and 3.5 miles northeast of Harmony.

DRAINAGE AREA.--153 sq mi.

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 above mean sea level, unadjusted. Prior to Apr. 5, 1951, nonrecording gage on upstream side of bridge at same datum.

AVERAGE DISCHARGE.--23 years, 198 cfs (17.57 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,850 cfs Feb. 2 (gage height, 17.25 ft); minimum, 106 cfs Oct. 16, 18 (gage height, 1.22 ft).

Period of record: Maximum discharge, 12,700 cfs June 21, 1972 (gage height, 24.30 ft, from high-water mark in well); minimum, 18 cfs Oct. 8, 1954.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	270	120	166	169	220	266	792	418	333	244	208	136
2	167	117	147	157	5,170	240	578	385	316	224	1,240	134
3	141	117	139	161	1,190	399	459	393	299	203	1,480	131
4	130	116	136	246	498	340	439	408	287	200	474	137
5	145	114	132	191	379	447	407	357	274	207	305	176
6	146	148	519	171	334	401	367	345	299	193	290	137
7	133	111	409	159	312	432	395	338	432	187	233	134
8	123	255	247	166	295	693	578	466	303	184	204	127
9	116	159	220	160	280	581	427	515	281	183	191	127
10	112	134	146	152	255	397	416	392	283	179	178	159
11	111	125	179	148	241	351	359	371	266	204	177	155
12	114	119	175	146	233	418	342	343	263	181	166	131
13	114	116	165	140	230	338	327	324	265	169	217	127
14	112	1,250	161	146	281	307	314	313	261	170	260	273
15	111	405	2,060	152	362	300	309	305	340	253	274	202
16	110	239	308	157	284	470	303	298	312	378	182	148
17	112	149	365	153	251	2,890	301	295	282	349	171	138
18	108	166	276	155	234	714	305	290	251	226	567	135
19	127	172	243	168	232	463	299	284	244	197	326	128
20	130	443	225	171	224	390	292	282	243	189	231	128
21	116	245	374	156	219	392	285	275	242	184	221	127
22	115	187	1,440	664	211	326	279	267	246	202	204	128
23	116	164	513	473	206	340	275	273	264	207	181	129
24	120	150	346	296	200	325	273	317	230	192	173	125
25	116	158	281	238	195	351	279	370	214	189	165	123
26	112	309	239	218	197	1,040	316	287	205	190	161	124
27	115	219	207	533	344	732	4,870	308	201	216	155	122
28	220	176	186	357	349	476	1,320	1,880	223	193	150	125
29	154	159	173	323	-----	405	569	718	314	172	145	121
30	129	159	166	253	-----	471	476	429	214	163	142	139
31	121	-----	143	229	-----	555	-----	373	-----	161	141	-----
TOTAL	4,070	6,501	11,076	7,008	13,426	16,310	16,951	12,630	8,187	6,349	9,212	4,226
MEAN	131	217	357	226	480	526	565	407	273	206	297	141
MAX	270	1,250	2,060	664	5,170	2,890	4,870	1,880	432	378	1,480	273
MIN	108	108	132	140	195	240	273	267	201	161	141	121
CFSM	.86	1.42	2.33	1.48	3.14	3.44	3.69	2.66	1.78	1.35	1.94	.92
IN.	.99	1.58	2.69	1.70	3.25	3.97	4.12	3.07	1.99	1.55	2.24	1.03

CAL YR 1972 TOTAL 103,528 MEAN 283 MAX 2,060 MIN 92 CFSM 1.85 IN 25.17
WTR YR 1973 TOTAL 115,986 MEAN 318 MAX 5,170 MIN 108 CFSM 2.08 IN 28.20

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	1100	9.96	2,830	3-17	0900	13.82	4,800
12-15	1700	12.49	4,070	4-27	1800	17.14	6,780
12-22	0500	9.09	2,440	5-28	0830	10.00	2,850
2- 2	1600	17.25	6,850	8- 3	1500	11.02	3,310

02125000 Big Bear Creek near Richfield, N. C.

LOCATION.--Lat 35°20'02", long 80°20'09", Stanly County, on left bank 300 ft downstream from Little Creek, 400 ft upstream from bridge on Secondary Road 1134, and 10 miles southwest of Richfield.

DRAINAGE AREA.--55.7 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 426.62 ft above mean sea level, unadjusted.

AVERAGE DISCHARGE.--19 years, 55.5 cfs (13.53 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,590 cfs July 24 (gage height, 12.72 ft); minimum daily, 0.15 cfs Oct. 19-27; minimum gage height, 0.69 ft Oct. 18, 19.

Period of record: Maximum discharge, 11,100 cfs Aug 22, 1967 (gage height, 15.95 ft); no flow at times 1954, 1961-64, 1966-69, 1972.

Flood of August 1921 reached a stage of about 19 ft, from information by North Carolina State Highway Commission.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1503: 1955, 1956(M). WSP 1553: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	.35	7.4	27	67	24	2,090	15	5.8	28	13	2.1
2	.80	.35	7.7	22	2,310	22	262	13	4.8	67	12	1.9
3	.60	.37	6.1	21	356	414	135	13	4.3	19	11	1.7
4	.40	.50	5.1	112	165	197	102	12	3.6	13	10	1.6
5	.40	.61	4.4	79	109	431	73	10	3.2	15	9.5	1.6
6	.40	.50	4.9	128	89	200	55	9.3	3.7	9.4	8.5	1.5
7	.30	.61	6.1	93	73	126	678	8.8	4.5	7.4	7.6	1.4
8	.30	3.9	5.7	80	68	100	883	14	4.6	6.5	6.9	1.2
9	.30	1.6	7.7	80	110	92	200	29	4.4	5.7	6.3	1.1
10	.30	.83	9.7	70	72	70	153	15	4.5	12	5.8	1.1
11	.30	.61	9.3	66	59	61	89	11	4.0	26	5.5	1.1
12	.20	.45	9.0	60	53	157	69	15	4.3	7.5	13	1.1
13	.20	.40	9.0	49	49	89	55	9.3	7.4	5.4	14	.94
14	.20	.94	298	45	58	65	45	8.1	6.3	4.7	16	9.3
15	.20	.83	2,080	90	73	53	38	7.5	21	33	6.6	4.3
16	.20	.83	265	167	54	50	33	6.9	16	153	5.3	2.4
17	.20	1.4	92	155	40	272	31	6.8	8.1	273	29	2.0
18	.20	1.4	54	153	34	122	28	7.0	25	61	30	1.7
19	.15	1.4	40	163	32	72	26	6.3	10	24	9.3	1.5
20	.15	11	34	121	31	54	24	6.5	12	15	7.2	1.4
21	.15	6.7	243	75	28	141	21	6.2	13	11	7.2	1.3
22	.15	4.2	575	143	26	205	19	5.5	236	8.7	5.6	1.3
23	.15	3.1	187	119	24	102	17	5.1	149	170	5.0	1.2
24	.15	2.2	105	73	21	71	16	8.7	38	1,870	4.4	1.1
25	.15	4.9	71	54	19	59	15	11	18	100	4.4	1.1
26	.15	55	53	46	20	61	18	8.7	12	181	4.1	.95
27	.15	19	42	272	31	50	83	7.3	8.8	97	3.6	.89
28	1.3	9.3	33	293	34	38	44	10	7.8	47	3.2	.85
29	.61	6.7	26	321	-----	34	24	31	6.8	30	2.9	.72
30	.37	5.7	23	130	-----	112	18	12	8.1	20	2.6	.69
31	.35	-----	27	86	-----	550	-----	7.7	-----	15	2.4	-----
TOTAL	11.08	145.68	4,340.1	3,393	4,105	4,004	5,344	336.7	655.0	3,335.3	271.9	51.04
MEAN	.36	4.86	140	109	147	132	178	10.9	21.8	108	8.77	1.70
MAX	1.6	55	2,080	321	2,310	550	2,090	31	236	1,870	30	9.3
MIN	.15	.35	4.4	21	19	22	15	5.1	3.2	4.7	2.4	.69
CFSM	.007	.09	2.51	1.96	2.64	2.37	3.20	.20	.39	1.94	.16	.03
IN.	.007	.10	2.90	2.27	2.74	2.73	3.57	.22	.44	2.23	.18	.03

CAL YR 1972 TOTAL 18,365.69 MEAN 50.2 MAX 2,080 MIN 0 CFSM .90 IN 12.27
 WTR YR 1973 TOTAL 26,082.80 MEAN 71.5 MAX 2,310 MIN .15 CFSM 1.28 IN 17.42

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1230	10.77	4,590	4- 7	2000	8.28	2,670
2- 2	0730	11.15	4,950	7-24	0300	12.72	6,590
4- 1	0230	11.70	5,500				

PEE DEE RIVER BASIN

117

02126000 Rocky River near Norwood, N. C.

LOCATION.--Lat 35°08'50", long 80°10'26", Stanly County, on left bank 1,000 ft downstream from Lanes Creek, 1.5 miles upstream from bridge on Secondary Road 1935, 6 miles southwest of Norwood, and 11.2 miles upstream from mouth.

DRAINAGE AREA.--1,370 sq mi, approximately.

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 212.91 ft above mean sea level, (levels by Corps of Engineers).

AVERAGE DISCHARGE.--44 years, 1,298 cfs (12.87 inches per year).

EXTREMES.--Current year: Maximum discharge, 62,000 cfs Apr. 1 (gage height, 33.16 ft); minimum daily, 92 cfs Oct. 15, 16.

Period of record: Maximum discharge, 105,000 cfs Sept. 18, 1945 (gage height, 46.37 ft, from floodmark); minimum, 17 cfs Oct. 8, 1954 (gage height, 0.00 ft).

Flood in August 1908 reached a stage of 35 ft, from information by local residents (discharge, 67,600 cfs).

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

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	969	127	452	698	1,750	1,070	52,700	525	473	340	218	110
2	355	119	586	675	24,000	812	30,200	476	360	1,020	214	105
3	192	119	427	634	32,100	7,770	5,400	449	296	620	212	105
4	149	117	331	3,050	12,900	7,680	3,050	443	252	404	270	105
5	134	115	289	2,700	3,480	5,830	2,530	434	225	316	434	115
6	128	105	301	2,660	2,550	6,150	1,690	386	370	749	356	115
7	142	97	611	3,320	2,210	3,510	5,200	332	1,460	523	270	110
8	138	174	590	2,150	1,720	2,680	25,200	334	843	374	215	110
9	110	395	419	2,030	2,160	4,020	9,490	568	599	302	187	110
10	99	339	464	1,760	2,040	2,690	4,290	629	2,510	258	175	110
11	95	218	425	1,510	1,520	1,930	2,320	442	898	274	163	110
12	94	167	424	1,460	1,470	7,850	1,970	477	571	318	151	107
13	94	144	391	1,250	1,450	4,760	1,510	407	709	296	198	109
14	93	256	5,680	1,060	2,270	2,470	1,190	305	908	228	210	177
15	92	1,130	28,000	1,470	4,890	1,750	1,010	278	1,020	210	171	714
16	92	561	29,600	4,600	2,940	1,430	898	267	1,870	277	146	394
17	94	448	9,690	3,920	1,730	5,220	842	259	1,460	4,010	163	204
18	98	428	2,250	3,540	1,210	6,090	804	260	1,590	1,530	613	151
19	105	320	1,350	3,340	1,020	2,900	757	260	1,590	606	362	139
20	107	1,110	1,050	3,500	957	1,780	707	248	704	378	238	135
21	105	1,790	1,440	2,180	901	2,040	648	233	3,610	284	176	135
22	98	728	13,200	3,400	841	5,830	582	232	4,120	231	179	134
23	97	411	7,390	6,380	782	3,450	542	236	9,730	233	167	126
24	94	305	3,720	3,060	716	2,120	505	476	3,000	10,800	161	115
25	108	299	2,150	1,760	637	1,560	490	684	1,190	1,610	166	108
26	110	2,500	1,520	1,260	600	1,430	515	579	720	648	165	109
27	112	2,130	1,150	5,540	974	1,350	1,480	352	553	807	150	110
28	140	837	927	6,010	1,880	1,130	1,670	485	443	571	140	115
29	223	517	773	10,500	-----	966	931	3,230	395	553	130	115
30	204	401	673	4,510	-----	1,210	618	1,810	345	307	120	118
31	151	-----	644	2,510	-----	6,160	-----	715	-----	241	110	-----
TOTAL	4,821	16,407	116,917	92,437	111,698	105,628	160,239	16,811	43,714	29,472	6,632	4,520
MEAN	156	547	3,772	2,982	3,989	3,407	5,341	542	1,457	951	214	151
MAX	969	2,500	29,600	10,500	32,100	7,850	52,700	3,230	9,730	10,800	613	714
MIN	92	97	289	634	600	812	490	232	225	210	110	105
CFSM	.11	.40	2.75	2.18	2.91	2.49	3.90	.40	1.06	.69	.16	.11
IN.	.13	.45	3.17	2.51	3.03	2.87	4.35	.46	1.19	.90	.18	.12

CAL YR 1972 TOTAL 490,943 MEAN 1,341 MAX 29,600 MIN 85 CFSM .98 IN 13.37
WTR YR 1973 TOTAL 709,296 MEAN 1,943 MAX 52,700 MIN 92 CFSM 1.42 IN 19.26

PEAK DISCHARGE (BASE, 16,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	2100	26.99	45,500	4- 8	0700	20.16	29,300
2- 2	2000	25.89	42,700	6-23	0300	14.02	17,300
4- 1	1200	33.16	62,000	7-24	0900	17.37	23,700

PEE DEE RIVER BASIN

02128000 Little River near Star, N. C.

LOCATION.--Lat 35°23'11", long 79°49'56", Montgomery County, on left bank 9 ft downstream from bridge on Secondary Road 1340, 50 ft upstream from Black Rock Branch, 0.2 mile upstream from Norfolk Southern Railway bridge, 0.3 mile downstream from West Fork Little River, and 3 miles west of Star.

DRAINAGE AREA.--105 sq mi.

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 above mean sea level.

AVERAGE DISCHARGE.--19 years, 106 cfs (13.71 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,520 cfs Dec. 15 (gage height, 13.67 ft); minimum, 8.2 cfs Oct. 16, 21, 22 (gage height, 1.24 ft).

Period of record: Maximum discharge, 10,400 cfs Oct. 15, 1954 (gage height, 16.46 ft); minimum, 0.24 cfs Oct. 4, 5, 1968 (gage height, 0.68 ft), may be affected by upstream pond storage releases for water supply.

Flood in September 1945 reached a stage of about 20 ft, from information by local resident.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	19	104	125	135	141	3,250	110	66	52	30	19
2	35	16	83	100	3,870	116	567	105	61	49	113	17
3	20	14	63	91	901	1,320	265	105	59	54	53	16
4	16	14	56	244	272	581	205	147	55	156	102	15
5	13	15	53	172	193	300	183	109	52	436	93	14
6	12	15	64	159	165	395	149	96	100	94	106	14
7	11	15	103	160	162	211	542	92	65	66	50	13
8	14	275	72	130	142	209	1,570	119	58	56	40	13
9	13	113	65	144	199	337	348	234	62	51	36	12
10	11	48	75	134	154	187	259	120	70	47	33	12
11	9.7	34	68	127	133	161	194	97	66	45	31	11
12	9.2	30	84	122	131	298	164	89	58	43	30	11
13	9.2	28	84	105	129	192	150	84	69	40	28	12
14	9.2	120	1,250	97	147	147	137	80	77	38	32	91
15	8.7	136	3,700	112	206	134	130	79	64	39	27	92
16	8.2	55	2,230	232	150	135	126	76	62	59	25	40
17	9.2	161	235	205	119	448	122	76	54	62	33	26
18	10	114	145	218	107	250	119	85	56	67	230	21
19	10	64	115	231	105	157	116	80	55	51	71	19
20	9.7	329	101	299	104	133	111	76	66	43	44	18
21	8.7	125	135	161	102	233	107	76	97	40	35	17
22	8.2	69	1,050	851	99	416	103	71	188	38	49	17
23	9.2	54	311	535	96	200	102	68	999	110	36	16
24	11	47	196	208	93	155	100	74	128	59	39	15
25	12	58	139	149	90	141	100	82	80	47	38	14
26	11	497	116	127	98	156	135	75	66	41	33	13
27	12	153	105	319	296	154	335	70	60	39	30	13
28	55	82	96	323	274	128	283	84	62	41	26	13
29	75	65	88	576	-----	116	146	281	92	40	25	12
30	33	62	84	216	-----	152	121	113	63	34	23	12
31	22	-----	125	156	-----	654	-----	78	-----	31	21	-----
TOTAL	615.2	2,827	11,195	6,837	8,672	8,357	10,739	3,131	3,108	2,118	1,562	628
MEAN	19.8	94.2	361	221	310	270	358	101	104	68.3	50.4	20.9
MAX	120	497	3,700	851	3,870	1,320	3,250	281	999	496	230	92
MIN	8.2	14	53	91	90	116	100	68	52	31	21	11
CFSM	.19	.90	3.44	2.10	2.95	2.57	3.41	.96	.99	.65	.48	.20
IN.	.22	1.00	3.97	2.42	3.07	2.96	3.80	1.11	1.10	.75	.55	.22

CAL YR 1972 TOTAL 51,663.8 MEAN 141 MAX 4,710 MIN 8.2 CFSM 1.34 IN 18.30
WTR YR 1973 TOTAL 59,789.2 MEAN 164 MAX 3,870 MIN 9.2 CFSM 1.56 IN 21.18

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	2230	13.67	7,520	4- 1	0730	10.69	4,750
2- 2	1400	12.78	6,630	4- 8	0300	8.40	2,990
3- 3	1600	7.80	2,590	6-23	0330	7.67	2,510

PEE DEE RIVER BASIN

119

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 miles upstream from Falling Creek, 3.3 miles downstream from Blewett Falls hydroelectric plant, 6 miles west of Rockingham, and 192 miles upstream from mouth in Winyah Bay.

DRAINAGE AREA.--6,870 sq mi, 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 above mean sea level (levels by Corps of Engineers). August 1906 to January 1912 nonrecording gage at site 3.3 miles upstream at different datum. September 1927 to Sept. 30, 1931, water-stage recorder at present site at datum 1.00 ft higher.

AVERAGE DISCHARGE.--51 years (1906-11, 1927-73), 7,835 cfs (15.49 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 128,000 cfs Apr. 2 (gage height, 18.09 ft); minimum, 193 cfs Feb. 26 (gage height, 0.72 ft); minimum daily, 433 cfs Oct. 8.
Period of record: Maximum discharge, 276,000 cfs Aug. 27, 1908 (gage height, 31.28 ft, present site and datum, from records of State Highway Commission); minimum, 50 cfs Dec. 2, 3, 1951; minimum daily, 58 cfs 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 cfs Oct. 25, 1943; minimum daily, 120 cfs Oct. 8, 1961.

REMARKS.--Records good. Flow regulated since 1928 by Blewett Falls Lake and five other reservoirs upstream. (See p. 147). 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	717	5,090	8,860	9,180	13,800	11,600	95,400	17,600	14,100	11,600	6,420	1,820
2	4,910	4,740	8,980	9,620	40,900	11,600	120,000	14,000	12,500	11,000	9,250	600
3	4,080	4,030	8,070	10,100	100,000	16,000	62,000	13,000	11,800	10,000	8,900	1,110
4	5,390	2,400	5,150	11,900	90,900	29,900	27,200	12,200	10,300	10,500	9,750	3,720
5	8,450	667	5,980	14,600	49,700	19,700	16,600	11,600	9,150	10,200	10,000	5,790
6	4,290	4,530	7,650	14,200	26,800	22,000	15,100	11,300	7,990	9,950	10,200	6,880
7	1,600	5,180	8,250	15,400	18,400	18,500	15,300	11,000	9,650	8,540	16,000	4,220
8	433	5,760	8,380	13,200	15,900	16,200	51,300	10,900	9,950	1,170	11,300	2,140
9	4,260	5,320	8,940	12,800	15,400	16,600	45,900	12,000	9,750	5,400	10,700	1,580
10	3,710	5,760	6,870	12,200	12,400	17,000	27,900	12,300	9,800	5,660	9,950	3,650
11	3,830	2,390	7,880	11,500	12,700	16,000	17,700	11,100	8,360	6,600	9,650	5,310
12	4,550	522	8,800	10,100	13,200	20,300	15,200	10,900	8,540	5,570	3,550	6,150
13	4,960	4,600	5,040	9,500	13,800	23,400	12,700	10,900	8,910	7,260	5,440	6,200
14	1,880	5,190	11,300	3,650	14,000	16,100	13,300	9,950	8,220	2,490	8,620	6,880
15	776	5,190	45,600	4,450	17,300	14,100	12,800	8,030	7,020	658	9,150	6,020
16	4,780	6,980	77,600	8,680	17,100	15,900	11,900	6,240	9,250	4,880	8,220	439
17	3,900	9,150	47,800	9,280	14,700	19,300	12,200	4,220	11,700	9,650	8,820	3,570
18	7,460	9,110	20,000	11,700	12,900	39,900	12,600	7,070	8,450	14,500	4,790	2,760
19	2,880	6,670	14,000	11,900	10,600	37,200	11,100	7,070	8,220	14,700	3,210	5,660
20	5,070	7,900	12,200	13,300	11,600	24,200	10,600	3,010	9,850	10,600	8,540	6,110
21	2,480	7,990	12,200	11,100	11,500	21,000	10,100	3,350	10,600	10,300	8,450	5,880
22	3,050	9,030	27,700	9,120	12,300	22,200	7,620	5,660	14,300	3,920	4,460	485
23	3,470	9,100	42,200	18,700	10,400	17,700	5,090	8,490	27,300	4,580	5,660	1,320
24	3,350	9,070	31,000	16,800	9,650	15,400	8,590	9,950	17,400	10,900	6,750	4,880
25	5,100	8,650	19,500	12,600	8,720	13,800	9,500	9,550	10,700	16,100	5,660	4,380
26	4,260	9,010	13,700	12,100	1,280	13,200	9,400	9,800	8,490	11,900	799	3,040
27	4,550	9,150	12,400	13,300	5,880	13,700	13,200	8,450	9,500	9,950	3,800	4,880
28	2,270	10,000	11,000	19,200	10,500	16,900	22,700	8,360	9,850	3,280	6,840	5,220
29	1,630	9,390	9,550	27,400	-----	15,200	21,300	22,700	8,670	820	4,790	2,530
30	3,920	9,160	9,850	22,100	-----	12,800	21,500	33,100	9,950	5,840	7,480	700
31	4,860	-----	9,590	15,500	-----	17,100	-----	21,400	-----	6,380	4,670	-----
TOTAL	116,866	191,729	526,040	395,180	592,330	584,500	735,800	345,200	320,270	244,898	231,819	113,924
MEAN	3,770	6,391	16,970	12,750	21,150	18,850	24,530	11,140	10,680	7,900	7,478	3,797
MAX	8,450	10,000	77,600	27,400	100,000	39,900	120,000	33,100	27,300	16,100	16,000	6,880
MIN	433	522	5,040	3,650	1,280	11,600	5,090	3,010	7,020	658	799	439
(+)	-603	+452	+1,190	+512	-1,217	+1,371	-66	-65	-243	-120	-431	-291

CAL YR 1972 TOTAL 3,403,593 MEAN 9,299 MAX 93,400 MIN 245 MEAN# 9,398 CFSM# 1.37 IN# 18.62
WTR YR 1973 TOTAL 4,398,556 MEAN 12,050 MAX 120,000 MIN 433 MEAN# 12,099 CFSM# 1.76 IN# 23.91

+ 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.

PEE DEE RIVER BASIN

02133500 Drowning Creek near Hoffman, N. C.

LOCATION.--Lat 35°03'38", long 79°29'39", Richmond County, on right bank 10 ft downstream from bridge on U. S. Highway 1, 0.8 mile downstream from Deep Creek, 1 mile upstream from Seaboard Coast Line Railroad bridge, and 4 miles northeast of Hoffman.

DRAINAGE AREA.--178 sq mi.

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft (from topographic map).

AVERAGE DISCHARGE.--34 years, 263 cfs (20.06 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,880 cfs Apr. 2 (gage height, 8.34 ft); minimum, 92 cfs Sept. 8, 9; minimum gage height, 2.59 ft Sept. 9.
Period of record: Maximum discharge, 10,900 cfs Sept. 18, 1945 (gage height, 10.29 ft); minimum, 22 cfs Oct. 5, 1968.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 972: 1941(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	642	180	341	444	477	421	1,740	528	475	307	134	101
2	660	161	307	488	709	424	3,160	442	317	245	152	98
3	472	156	292	511	1,110	518	1,820	400	242	244	193	96
4	275	153	279	484	1,350	702	1,060	390	214	274	200	99
5	146	151	259	455	1,030	849	986	385	201	261	193	100
6	171	146	254	493	765	802	914	385	191	264	180	98
7	172	142	269	496	672	672	874	359	233	228	186	95
8	164	166	293	522	632	620	1,070	332	300	190	180	92
9	144	257	308	512	626	576	1,310	367	329	188	143	94
10	130	318	310	474	626	528	1,150	415	371	231	129	107
11	124	335	254	449	613	492	850	492	410	188	123	116
12	122	299	271	420	594	570	728	420	351	172	134	107
13	122	214	258	397	562	610	665	367	332	170	126	99
14	121	192	289	382	564	661	620	436	326	151	109	124
15	121	213	606	371	624	600	582	367	300	144	103	200
16	118	247	1,380	375	726	504	552	293	243	195	99	274
17	118	393	1,700	396	731	456	534	266	215	317	99	223
18	120	530	1,080	433	624	448	516	255	204	351	134	143
19	123	538	720	466	536	459	498	252	233	302	157	148
20	129	612	583	483	485	456	480	260	260	195	134	155
21	130	567	538	473	460	431	464	298	246	155	148	135
22	133	564	629	463	443	442	447	326	346	144	165	121
23	134	508	755	437	427	475	420	285	622	172	138	113
24	146	393	882	435	410	499	400	270	717	354	127	109
25	205	321	741	475	396	459	385	329	681	329	126	106
26	248	338	606	416	381	409	375	335	507	213	158	104
27	216	400	522	398	377	399	458	308	348	171	184	105
28	189	495	463	422	399	393	582	283	288	166	147	105
29	249	520	422	517	-----	372	906	329	346	171	119	102
30	274	420	393	568	-----	366	714	475	334	158	111	99
31	246	-----	409	554	-----	462	-----	594	-----	138	105	-----
TOTAL	6,404	9,949	16,443	14,209	17,349	16,075	25,260	11,243	10,182	6,788	4,436	3,668
MFAN	207	332	530	458	620	519	842	363	339	219	143	122
MAX	660	612	1,700	568	1,350	849	3,160	594	717	354	200	274
MIN	118	142	254	371	377	366	375	252	191	138	99	92
CFSM	1.16	1.87	2.98	2.57	3.48	2.92	4.73	2.04	1.90	1.23	.80	.69
IN.	1.34	2.08	3.44	2.97	3.63	3.36	5.28	2.35	2.13	1.42	.93	.77

CAL YR 1972 TOTAL 111,683 MEAN 305 MAX 1,700 MIN 79 CFSM 1.71 IN 23.34
WTR YR 1973 TOTAL 142,006 MEAN 389 MAX 3,160 MIN 92 CFSM 2.19 IN 29.68

PEAK DISCHARGE (BASE, 850 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-17	0300	7.10	1,800	4- 2	1300	8.34	3,880
12-24	0600	6.21	898	4- 9	1930	6.65	1,380
2- 4	1100	6.79	1,420	4-29	1030	6.18	954
3- 5	1730	6.09	882				

PEE DEE RIVER BASIN

121

02134500 Lumber River at Boardman, N. C.

LOCATION.--Lat 34°26'32", long 78°57'38", Robeson County, on right bank 50 ft downstream from bridge on U. S. Highway 74, 1 mile downstream from Seaboard Coast Line Railroad bridge at Boardman, 1.5 miles downstream from Big Swamp, and 40.5 miles upstream from mouth.

DRAINAGE AREA.--1,220 sq mi, approximately.

PERIOD OF RECORD.--September 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 72.05 ft above mean sea level (levels by Corps of Engineers). Prior to Sept. 30, 1936, nonrecording gage at site 100 ft downstream at same datum. Sept. 30, 1936, to June 8, 1943, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--44 years, 1,326 cfs (14.76 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,180 cfs Apr. 6 (gage height, 9.93 from high-water mark in well); minimum, 351 cfs Oct. 19 (gage height, 2.37 ft).

Period of record: Maximum discharge, 13,400 cfs Sept. 24, 1945 (gage height, 10.64 ft); minimum, 66 cfs Oct. 9, 1968.

Flood of August 1928 reached a stage of 11.8 ft, from floodmark witnessed by local resident (discharge, 25,000 cfs).

Flood of July 22, 1901, the highest during the period 1896-1913, reached a stage of 10.8 ft, from observations by Butters Lumber Co. (discharge, 14,800 cfs).

REMARKS.--Records excellent except those for period of no gage-height record, which are good. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 892: Drainage area. WSP 1303: 1932(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	386	599	1,770	2,690	3,090	2,980	6,500	1,700	826	1,660	920	742
2	413	608	1,750	2,630	3,520	2,840	7,200	1,600	837	1,740	959	726
3	427	614	1,710	2,510	3,840	2,880	7,900	1,550	818	1,760	952	693
4	404	617	1,670	2,390	4,870	2,960	8,500	1,620	796	1,720	946	642
5	466	618	1,640	2,300	5,520	3,420	8,900	1,640	805	1,710	1,130	544
6	490	618	1,670	2,250	6,170	3,880	9,100	1,670	835	1,670	1,500	507
7	506	598	1,720	2,220	6,870	4,230	9,000	1,700	841	1,580	1,750	463
8	629	626	1,740	2,400	7,350	4,550	8,900	1,640	835	1,470	1,840	420
9	762	660	1,760	2,480	7,440	4,870	8,500	1,570	808	1,390	1,820	418
10	809	686	1,730	2,480	7,370	5,120	8,000	1,460	768	1,290	1,750	463
11	804	683	1,690	2,510	6,920	5,260	7,600	1,340	721	1,150	1,610	508
12	754	664	1,660	2,510	6,250	5,440	7,000	1,280	686	1,070	1,450	492
13	637	658	1,610	2,500	5,650	5,340	6,520	1,210	634	1,020	1,290	473
14	542	666	1,560	2,500	5,300	5,030	6,080	1,170	723	987	1,150	484
15	503	676	1,550	2,500	5,480	4,770	5,610	1,130	792	985	992	511
16	456	689	1,530	2,510	6,070	4,500	5,100	1,060	812	993	904	527
17	425	770	1,520	2,530	6,650	4,220	4,570	1,030	791	1,010	858	519
18	383	834	1,530	2,580	6,880	3,950	4,030	1,000	860	1,070	754	501
19	356	907	1,530	2,650	6,810	3,770	3,560	979	972	1,090	695	477
20	366	977	1,540	2,730	6,500	3,600	3,160	952	1,020	1,140	660	500
21	385	1,000	1,610	2,760	6,010	3,430	2,850	917	1,070	1,210	639	506
22	373	1,010	1,860	2,880	5,470	3,220	2,600	872	1,080	1,250	584	497
23	359	1,000	2,180	3,020	4,940	3,500	2,390	840	1,110	1,270	587	481
24	363	1,020	2,600	3,090	4,460	3,900	2,190	813	1,130	1,260	632	510
25	408	1,100	2,990	3,210	4,000	4,200	2,030	810	1,170	1,200	638	512
26	425	1,280	3,090	3,280	3,620	4,200	1,890	785	1,280	1,120	618	486
27	456	1,410	2,980	3,280	3,400	4,000	1,860	778	1,360	922	585	460
28	552	1,520	2,790	3,220	3,160	4,300	1,840	793	1,430	796	589	439
29	572	1,600	2,670	3,260	-----	4,800	1,820	784	1,460	757	624	407
30	609	1,720	2,660	3,200	-----	5,100	1,780	776	1,520	756	691	382
31	618	-----	2,710	3,140	-----	5,700	-----	772	-----	821	733	-----
TOTAL	15,638	26,428	61,020	84,210	153,610	129,960	156,980	36,241	28,790	37,867	30,850	15,290
MEAN	504	881	1,968	2,716	5,486	4,192	5,233	1,169	960	1,222	995	510
MAX	809	1,720	3,090	3,280	7,440	5,700	9,100	1,700	1,520	1,760	1,840	742
MIN	356	598	1,520	2,220	3,090	2,840	1,780	772	634	756	584	382
CFSM	.41	.72	1.61	2.23	4.50	3.44	4.29	.96	.79	1.00	.82	.42
IN.	.48	.81	1.86	2.57	4.68	3.96	4.79	1.11	.88	1.15	.94	.47
CAL YR 1972	TOTAL 488,256	MEAN 1,334	MAX 4,720	MIN 319	CFSM 1.09	IN 14.89	NOTE.--No gage-height record Mar. 23 to Apr. 12.					
WTR YR 1973	TOTAL 776,884	MEAN 2,128	MAX 9,100	MIN 356	CFSM 1.74	IN 23.69						

SANTEE RIVER BASIN

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 downstream from Jarrett Creek, 0.5 mile northwest of Old Fort, and 1 mile upstream from mouth.

DRAINAGE AREA.--20.7 sq mi.

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 above mean sea level. May to September 1907, non-recording gage at site 0.2 mile downstream at different datum. August 1930 to July 1931, nonrecording gage at present site at datum 1.00 ft lower.

AVERAGE DISCHARGE.--13 years (1960-73), 41.5 cfs (27.23 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,420 cfs May 28 (gage height, 8.03 ft); minimum, 13 cfs Oct. 15, 16, 17 (gage height, 1.29 ft).

Period of record: Maximum discharge, 2,420 cfs May 28, 1973 (gage height, 8.03 ft); minimum, 4.7 cfs Sept. 3, 4, 1930.

Flood of Aug. 13, 1940 reached a stage of 11.1 ft, from floodmarks (discharge, 7,880 cfs). Flood in July 1916 reached a stage about 4 ft higher than that of Aug. 13, 1940, from information by local residents. A discharge of 3.02 cfs 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 0.88 cfs for municipal water supply.

REVISIONS (WATER YEARS).--WSP 1503: 1931. See PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	19	27	35	66	34	82	81	78	38	41	19
2	16	19	26	33	360	35	73	76	71	38	51	18
3	15	23	24	37	149	41	67	77	66	36	46	18
4	15	20	24	45	102	36	66	69	61	35	43	17
5	70	19	23	39	84	49	60	64	63	33	35	17
6	31	18	31	38	80	49	57	60	67	32	32	17
7	23	26	26	38	71	59	81	58	61	32	31	17
8	19	39	26	38	67	87	88	104	59	36	30	20
9	18	28	30	35	60	79	78	89	59	33	29	25
10	16	26	30	33	56	79	71	78	63	32	30	25
11	16	23	30	32	51	92	66	79	56	33	30	19
12	16	22	30	28	49	111	63	69	53	30	28	17
13	16	23	30	33	47	84	58	64	54	29	28	19
14	15	46	30	32	56	72	56	60	51	32	26	39
15	14	32	216	33	51	89	55	56	65	35	25	23
16	13	29	99	32	47	385	53	54	74	30	24	20
17	17	26	62	33	45	504	64	52	57	29	24	21
18	18	24	50	34	42	213	64	49	51	29	29	30
19	20	33	45	44	42	154	68	48	52	28	24	21
20	16	38	41	40	41	120	65	47	54	29	24	19
21	15	32	56	38	41	108	61	45	55	31	23	18
22	15	30	72	112	39	92	59	43	53	30	22	18
23	17	27	60	71	38	83	56	43	49	30	22	20
24	18	26	53	57	37	77	55	52	45	30	21	19
25	16	29	49	49	36	79	71	45	42	32	24	20
26	15	34	45	53	36	76	76	42	41	49	21	18
27	21	29	41	71	36	69	223	171	39	40	20	20
28	39	28	39	64	35	65	141	622	50	33	20	20
29	25	26	37	65	-----	67	107	165	46	30	20	18
30	21	29	36	57	-----	65	91	110	39	28	26	19
31	20	-----	37	52	-----	80	-----	89	-----	34	20	-----
TOTAL	626	823	1,425	1,401	1,864	3,233	2,275	2,761	1,674	1,016	869	611
MEAN	20.2	27.4	46.0	45.2	66.6	104	75.8	89.1	55.8	32.8	28.0	20.4
MAX	70	46	216	112	360	504	223	622	78	49	51	39
MIN	13	18	23	28	35	34	53	42	39	28	20	17
CFSM	.98	1.32	2.22	2.18	3.22	5.02	3.66	4.30	2.70	1.58	1.35	.99
IN.	1.12	1.48	2.56	2.52	3.35	5.81	4.09	4.96	3.01	1.83	1.56	1.10

CAL YR 1972 TOTAL 15,605 MEAN 42.6 MAX 648 MIN 12 CFSM 2.06 IN 28.04
WTR YR 1973 TOTAL 18,578 MEAN 50.9 MAX 622 MIN 13 CFSM 2.46 IN 33.39

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-2	0300	4.63	639	5-28	0030	8.03	2,420
3-16	2230	5.50	950				

SANTÉE RIVER BASIN

123

02138000 Catawba River near Marion, N. C.

LOCATION.--Lat 35°42'26", long 82°02'00", McDowell County, on right bank 15 ft downstream from bridge on U. S. Highway 221, 0.2 mile downstream from Tom Creek, 2.2 miles northwest of Marion, and at mile 294. Records include flow of small tributary on right bank 250 ft downstream.

DRAINAGE AREA.--171 sq mi (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 above mean sea level.

AVERAGE DISCHARGE.--32 years, 332 cfs (26.37 inches per year).

EXTREMES.--Current year: Maximum discharge, 13,000 cfs May 28 (gage height, 13.66 ft); minimum, 120 cfs Oct. 16 (gage height, 1.15 ft); minimum daily, 127 cfs Oct. 15.

Period of record: Maximum discharge, 19,700 cfs Aug. 28, 1949 (gage height, 15.02 ft); from rating curve extended as explained below; minimum, 28 cfs Sept. 30, Oct. 1, 5, 1954 (gage height, 0.50 ft).

Flood of Aug. 13, 1940 reached a stage of 19.34 ft (discharge, 71,400 cfs, from rating curve extended above 10,000 cfs on basis of contracted opening measurements at gage height 15.02 ft and 19.34 ft).

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 cfs is diverted by the town of Marion for water supply. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1032: 1942, 1943(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	237	182	247	296	580	303	778	584	646	480	337	208
2	186	156	196	278	3,670	277	651	537	586	453	532	202
3	169	186	197	305	1,290	369	575	564	534	415	901	195
4	161	179	206	404	844	312	568	511	498	372	938	192
5	656	179	211	349	685	541	513	467	542	355	501	198
6	337	177	289	270	635	517	465	442	574	323	409	195
7	198	206	272	289	569	577	673	415	511	275	521	202
8	186	380	251	348	531	811	923	763	476	320	410	202
9	188	251	221	323	465	729	682	699	483	337	357	248
10	179	230	233	313	443	706	613	580	488	306	337	268
11	175	203	259	273	424	823	553	602	457	321	366	216
12	174	175	271	223	396	1,110	521	517	416	308	415	199
13	155	197	273	216	392	774	492	474	408	272	374	200
14	135	552	278	227	477	633	441	444	445	274	338	471
15	127	335	1,820	279	463	692	434	430	475	402	290	258
16	134	267	983	289	417	2,450	451	394	836	315	245	219
17	169	240	580	276	368	5,080	510	390	515	293	268	208
18	168	192	456	292	330	1,580	496	375	454	293	317	278
19	189	253	396	329	346	1,100	503	353	441	303	271	216
20	151	429	371	283	356	887	493	367	421	274	258	204
21	130	306	561	285	326	815	442	358	591	246	259	197
22	130	270	826	1,250	306	695	433	326	507	334	246	195
23	145	241	596	750	300	632	447	310	448	420	240	200
24	173	238	499	530	257	580	426	401	414	370	236	194
25	164	244	439	441	292	633	531	363	374	342	244	287
26	166	329	408	431	302	641	609	298	338	429	230	226
27	180	287	372	937	307	568	1,720	487	398	501	221	218
28	451	252	350	682	303	522	1,060	6,960	622	406	216	227
29	257	240	326	728	-----	535	768	1,540	525	322	214	208
30	223	265	252	580	-----	542	656	984	400	295	222	227
31	200	-----	291	498	-----	699	-----	756	-----	341	216	-----
TOTAL	6,293	7,641	12,930	12,974	16,074	27,133	18,427	22,691	14,823	10,607	10,829	6,758
MEAN	203	255	417	419	574	875	614	732	494	345	349	225
MAX	656	552	1,820	1,250	3,670	5,080	1,720	6,960	836	501	901	471
MIN	127	156	196	216	257	277	426	298	338	246	214	192
CFSM	1.19	1.49	2.44	2.45	3.36	5.12	3.59	4.28	2.89	2.02	2.04	1.32
IN.	1.37	1.66	2.81	2.82	3.50	5.90	4.01	4.94	3.22	2.33	2.36	1.47

CAL YR 1972 TOTAL 134,509 MEAN 368 MAX 7,280 MIN 112 CFSM 2.15 IN 29.26
WTR YR 1973 TOTAL 167,270 MEAN 458 MAX 6,960 MIN 127 CFSM 2.68 IN 36.39

PEAK DISCHARGE (BASE, 3,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 2	0630	9.28	5,740	5-28	0700	13.66	13,000
3-17	0500	11.48	8,070				

SANTEE RIVER BASIN

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 upstream from bridge on State Highway 126, 0.2 mile downstream from Shooks Creek, 0.5 mile upstream from Lake James, 2.0 miles northeast of Longtown, and 6.0 miles northeast of Nebo.

DRAINAGE AREA.--67.2 sq mi.

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 1,205.87 ft above mean sea level. May 1907 to August 1908 nonrecording gage about 1.2 miles 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 downstream at same datum.

AVERAGE DISCHARGE.--51 years (1922-73), 144 cfs (29.10 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,010 cfs May 28 (gage height, 6.71 ft) from rating curve extended above 4,800 cfs; minimum, 37 cfs Sept. 8, 9 (gage height, -0.02 ft).

Period of record: Maximum discharge, 39,500 cfs Aug. 13, 1940 (gage height, 11.4 ft), from rating curve extended above 6,400 cfs on basis of slope-area measurement of peak flow; minimum, 2 cfs Jan. 9, 1956 (result of freezeup); minimum daily, 8 cfs Sept. 7-9, 1925.

Flood of July 1916 reached a stage of about 11 ft (discharge, 34,600 cfs).

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	103	101	118	207	122	360	299	228	110	96	58
2	47	70	93	111	1,790	120	286	252	159	118	137	51
3	42	90	72	111	747	150	242	247	156	108	264	47
4	39	76	66	138	425	168	224	245	141	109	303	44
5	142	50	64	132	336	286	207	204	129	98	243	44
6	138	55	102	125	296	296	186	191	122	96	167	42
7	68	69	169	118	280	296	218	181	125	113	167	42
8	52	144	106	120	240	328	403	310	114	116	135	40
9	46	121	109	114	231	348	286	424	108	113	119	54
10	42	97	115	78	207	316	254	279	103	98	104	115
11	40	70	118	70	183	328	223	317	97	105	98	80
12	39	54	194	50	177	430	203	267	91	92	112	58
13	39	53	176	50	171	328	189	226	87	72	108	52
14	41	192	165	60	168	276	175	201	90	63	105	129
15	50	135	527	70	198	260	166	186	85	69	137	160
16	48	156	500	74	177	1,270	158	173	108	63	109	90
17	50	88	310	79	148	3,410	186	164	98	63	92	71
18	54	73	240	86	142	964	212	157	94	60	117	67
19	65	89	220	115	153	614	198	149	88	58	125	58
20	63	158	194	136	144	448	195	146	76	56	96	54
21	57	153	205	115	138	377	181	142	158	71	98	51
22	62	106	332	341	134	308	169	133	229	58	90	49
23	60	91	281	347	132	251	162	133	164	62	83	49
24	58	92	244	225	128	222	157	154	132	143	80	47
25	51	87	221	179	124	218	177	163	117	108	76	92
26	43	118	200	161	124	280	227	135	109	126	74	74
27	45	101	180	378	132	265	1,560	149	102	121	72	60
28	103	94	168	310	130	226	859	4,160	151	98	67	60
29	68	97	156	305	-----	210	522	862	167	80	63	58
30	50	105	131	235	-----	229	377	451	127	72	60	60
31	99	-----	123	208	-----	273	-----	288	-----	78	63	-----
TOTAL	1,859	2,987	5,882	4,759	7,462	13,617	8,962	11,388	3,755	2,797	3,660	1,956
MEAN	60.0	99.6	190	154	267	439	299	367	125	90.2	118	65.2
MAX	142	192	527	378	1,790	3,410	1,560	4,160	229	143	303	160
MIN	39	50	64	50	124	120	157	133	76	56	60	40
CFSM	.89	1.48	2.83	2.29	3.97	6.53	4.45	5.46	1.86	1.34	1.76	.97
IN.	1.03	1.65	3.26	2.63	4.13	7.54	4.96	6.30	2.08	1.55	2.03	1.08

CAL YR 1972 TOTAL 61,411 MEAN 168 MAX 800 MIN 30 CFSM 2.50 IN 34.00
WTR YR 1973 TOTAL 69,084 MEAN 189 MAX 4,160 MIN 39 CFSM 2.81 IN 38.24

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-2	0900	4.70	3,100	4-27	1000	3.54	1,960
3-17	0430	6.27	7,520	5-28	0200	6.71	9,010

SANTÉE RIVER BASIN

125

02139650 East Prong near Morganton, N. C.

LOCATION.--Lat 35°44'29", long 81°39'39", Burke County, on right bank 55 ft downstream from bridge on Secondary Road 1704, 0.5 mile upstream from mouth, and 1.4 miles east of courthouse, Morganton.

DRAINAGE AREA.--8.94 sq mi.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,032.77 ft above mean sea level (city of Morganton bench mark).

AVERAGE DISCHARGE.--7 years, 13.5 cfs (20.51 inches per year).

EXTREMES.--Current year: Maximum discharge, 925 cfs Feb. 2 (gage height, 9.05 ft, from high-water mark in gage well); minimum daily, 6.4 cfs Oct. 15.

Period of record: Maximum discharge, 935 cfs Aug. 9, 1970 (gage height, 9.07 ft); minimum, 4.2 cfs Sept. 8, 1968.

Flood of Aug. 13, 1940 reached a stage of about 15 ft, from information by local resident.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. Recording rain gage located at station.

REVISIONS (WATER YEARS).--WSP 2104: 1969(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	7.5	10	8.6	17	17	31	16	15	12	12	8.4
2	8.5	7.9	9.7	9.0	500	17	22	15	14	11	20	8.4
3	8.3	7.9	9.4	11	50	25	19	15	13	11	25	8.4
4	7.9	7.2	9.0	13	20	20	19	14	13	11	14	8.5
5	12	6.9	8.9	11	18	32	17	14	13	10	11	13
6	8.9	6.9	20	11	17	25	15	13	17	9.8	11	10
7	7.9	9.7	14	10	16	23	33	13	15	10	50	8.5
8	7.5	12	13	10	17	26	36	30	13	10	15	8.5
9	7.8	8.6	13	10	15	22	21	18	14	13	13	8.5
10	7.7	8.9	12	9.0	15	20	19	16	14	10	14	10
11	7.7	8.5	11	8.5	14	31	18	19	13	8.9	12	9.0
12	7.7	7.6	11	8.5	14	35	17	15	13	8.4	11	8.4
13	7.5	8.7	11	8.5	14	23	16	14	14	8.9	10	8.4
14	6.9	54	10	9.0	23	20	15	14	16	9.5	10	11
15	6.4	14	161	8.8	19	29	14	14	16	9.5	12	22
16	6.8	12	23	9.0	17	108	14	15	15	13	10	13
17	7.1	11	14	9.0	16	169	15	14	15	25	10	9.2
18	7.3	10	12	11	15	36	14	12	13	12	11	9.0
19	8.3	16	10	15	14	26	14	13	13	11	10	8.8
20	7.7	17	9.6	13	14	22	13	13	13	10	9.5	8.8
21	7.0	13	27	12	13	23	13	13	13	9.8	9.2	8.7
22	7.0	11	32	70	13	19	12	13	13	9.7	9.0	8.7
23	7.0	10	17	20	12	17	12	14	13	9.6	8.8	8.6
24	7.3	9.7	14	15	12	16	12	17	12	9.5	8.6	8.6
25	7.3	14	12	14	12	27	14	13	12	12	8.5	8.6
26	7.2	17	11	15	12	33	60	12	11	20	8.5	8.5
27	9.0	13	9.8	40	43	23	184	17	11	12	8.5	8.5
28	14	11	9.4	20	21	19	32	211	23	10	8.5	8.5
29	8.8	10	8.6	23	-----	21	21	29	15	9.8	8.5	8.5
30	8.1	11	8.6	17	-----	20	18	20	11	9.7	8.6	8.5
31	8.0	-----	9.0	15	-----	33	-----	16	-----	9.8	8.5	-----
TOTAL	249.8	362.0	550.0	463.9	983	977	760	682	416	345.9	385.7	285.5
MEAN	8.06	12.1	17.7	15.0	35.1	31.5	25.3	22.0	13.9	11.2	12.4	9.52
MAX	14	54	161	70	500	169	184	211	23	25	50	22
MIN	6.4	6.9	8.6	8.5	12	16	12	12	11	8.4	8.5	8.4
CFSM	.90	1.35	1.98	1.68	3.93	3.52	2.83	2.46	1.55	1.25	1.39	1.06
IN.	1.04	1.51	2.29	1.93	4.09	4.07	3.16	2.84	1.73	1.44	1.60	1.19

CAL YR 1972 TOTAL 5,180.6 MEAN 14.2 MAX 345 MIN 5.5 CFSM 1.59 IN 21.56
WTR YR 1973 TOTAL 6,460.8 MEAN 17.7 MAX 500 MIN 6.4 CFSM 1.98 IN 24.88

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1145	7.76	471	4-26	1930	5.90	254
2-2	Unknown	9.05	925	4-27	0345	7.27	390
3-16	2330	8.12	547	5-28	0700	7.73	466

NOTE.--No gage-height record Jan. 8 to Feb. 7, July 4 to Sept. 30.

SANTÉE RIVER BASIN

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 downstream from Zacks Fork Creek, and 0.8 mile southeast of courthouse, Lenoir.

DRAINAGE AREA.--31.8 sq mi.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,071.45 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 38.0 cfs (16.23 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,530 cfs Apr. 27 (gage height, 9.88 ft); minimum, 14 cfs Oct. 17, 25 (gage height, 0.80 ft); minimum daily, 16 cfs Oct. 11-18, 20, 21, 26.

Period of record: Maximum discharge, 3,430 cfs Aug. 10, 1970 (gage height, 11.03 ft in gage well, 11.50 ft, from outside gage); minimum, 5.8 cfs July 17, 1970; minimum daily, 7.7 cfs July 17, 20, 1970; minimum gage height, 0.55 ft Oct. 1, 1968, July 17, 1970.

The flood of Aug. 13, 1940 reached a stage of 1,087.0 ft above mean sea level (discharge, 20,000 cfs) at mouth of Zacks Fork Creek 1,100 ft upstream.

REMARKS.--Records good. At times slight fluctuation and diversions by industrial and recreational development. The City of Lenoir diverted an average of 0.83 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	18	22	27	77	46	109	72	48	49	63	26
2	25	18	21	25	933	42	76	66	45	45	87	27
3	22	18	21	32	157	72	64	89	43	44	45	26
4	22	18	20	38	85	57	70	68	40	53	44	29
5	41	17	19	31	65	139	57	60	40	44	37	27
6	24	17	63	29	61	123	52	57	65	39	33	25
7	21	25	39	28	52	116	87	55	50	35	769	25
8	19	40	30	30	53	177	101	199	42	34	76	25
9	17	23	33	29	46	106	69	131	41	32	54	33
10	17	21	28	27	42	76	61	88	40	33	51	31
11	16	20	28	27	40	93	53	84	38	35	59	27
12	16	20	30	25	37	99	49	69	38	30	45	25
13	16	21	27	25	36	70	45	61	37	29	41	27
14	16	96	26	26	54	61	44	56	36	33	47	81
15	16	42	388	27	47	68	42	53	39	56	55	32
16	16	31	111	27	42	218	41	52	41	110	40	28
17	16	28	56	27	39	446	46	51	47	72	36	28
18	16	26	43	28	37	118	43	49	47	43	144	27
19	21	42	39	33	35	77	41	48	40	38	60	24
20	16	53	35	29	35	65	39	48	38	38	48	25
21	16	36	67	27	34	65	38	46	38	37	43	25
22	17	31	106	266	32	56	37	44	100	34	39	28
23	17	27	62	88	31	50	36	46	58	32	36	31
24	17	25	47	56	30	47	36	64	43	36	34	26
25	17	35	42	44	30	67	53	50	40	37	33	25
26	16	44	37	56	29	172	182	46	38	36	32	25
27	20	30	33	134	113	123	1,370	66	37	37	30	25
28	42	25	31	79	56	77	170	261	215	31	29	25
29	23	22	28	88	-----	76	106	92	123	29	27	26
30	19	24	28	57	-----	73	85	61	58	27	29	37
31	19	-----	30	47	-----	114	-----	52	-----	29	29	-----
TOTAL	628	893	1,590	1,512	2,328	3,189	3,302	2,284	1,605	1,257	2,195	851
MEAN	20.3	29.8	51.3	48.8	83.1	103	110	73.7	53.5	40.5	70.8	28.4
MAX	42	96	388	266	933	446	1,370	261	215	110	769	61
MIN	16	17	19	25	29	42	36	44	36	27	27	24
CFSM	.64	.94	1.61	1.53	2.61	3.24	3.46	2.32	1.68	1.27	2.23	.89
IN.	.73	1.04	1.86	1.77	2.62	3.73	3.86	2.67	1.88	1.47	2.57	1.00

CAL YR 1972 TOTAL 13,873 MEAN 37.9 MAX 437 MIN 11 CFSM 1.19 IN 16.23
WTR YR 1973 TOTAL 21,634 MEAN 59.3 MAX 1,370 MIN 16 CFSM 1.86 IN 25.31

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1200	5.76	882	4-27	0715	9.88	2,530
1-22	0845	4.04	508	6-28	2030	5.11	726
2-2	0715	8.39	1,760	8-7	0730	9.67	2,400
3-17	0100	5.92	921				

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 mile downstream from Grassy Creek, 0.4 mile upstream from Lambert Creek, 2.2 miles northeast of All Healing Springs, and 4 miles northwest of Taylorsville.

DRAINAGE AREA.--31.2 sq mi.

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 (by barometer). Prior to June 13, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--21 years, 36.1 cfs (15.71 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,180 cfs Apr. 27 (gage height, 12.15 ft); minimum daily, 16 cfs Oct. 16, 17.

Period of record: Maximum discharge, 4,850 cfs Aug. 10, 1970 (gage height, 15.68 ft); minimum, 2.9 cfs Sept. 20, 21, 1955.

REMARKS.--Records good except those for period of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	18	25	32	46	45	133	76	60	44	47	24
2	22	18	24	31	822	42	105	68	55	40	81	23
3	20	18	23	35	176	66	84	86	51	39	47	23
4	19	18	23	42	105	60	81	72	49	37	38	25
5	40	17	22	38	79	94	68	64	47	36	39	26
6	25	17	80	36	69	82	62	60	73	34	32	23
7	20	21	53	35	60	90	87	57	64	33	30	23
8	19	40	40	36	58	131	111	167	53	33	29	22
9	18	23	37	34	52	112	86	144	49	32	28	23
10	18	20	33	33	47	82	76	98	48	32	27	24
11	17	19	31	33	44	81	66	85	47	35	28	23
12	17	19	31	32	42	91	62	70	46	31	27	22
13	17	19	29	32	41	71	58	63	47	30	31	22
14	17	237	28	32	56	62	55	59	49	30	42	46
15	17	54	313	32	55	61	52	56	47	40	41	28
16	16	35	121	32	48	132	52	53	47	41	30	24
17	16	29	65	32	44	426	52	52	45	40	30	23
18	19	26	49	33	42	137	52	50	49	34	222	23
19	23	32	43	36	40	95	50	49	43	34	67	21
20	19	48	40	34	39	75	52	48	43	32	46	21
21	17	34	62	32	37	74	48	47	44	31	40	21
22	17	30	130	190	36	65	47	44	60	30	34	22
23	17	27	75	98	35	59	47	46	52	30	31	21
24	18	25	57	41	34	55	45	56	43	33	30	21
25	18	31	49	48	33	67	55	51	41	32	29	21
26	20	42	44	46	33	148	140	46	40	50	27	21
27	25	33	39	99	67	120	1,070	59	39	44	26	21
28	40	30	36	69	52	87	187	399	90	32	25	21
29	25	26	34	67	-----	80	115	137	82	28	25	21
30	21	27	33	52	-----	85	90	86	49	27	25	30
31	19	-----	35	47	-----	116	-----	68	-----	27	25	-----
TOTAL	643	1,033	1,704	1,489	2,292	2,991	3,288	2,516	1,552	1,071	1,279	709
MEAN	20.7	34.4	55.0	48.0	81.9	96.5	110	81.2	51.7	34.5	41.3	23.6
MAX	40	237	313	190	822	426	1,070	399	90	50	222	46
MIN	16	17	22	31	33	42	45	44	39	27	25	21
CFSM	.66	1.10	1.76	1.54	2.63	3.09	3.53	2.60	1.66	1.11	1.32	.76
IN.	.77	1.23	2.03	1.78	2.73	3.57	3.92	3.00	1.85	1.28	1.52	.85

CAL YR 1972 TOTAL 16,257 MEAN 44.4 MAX 1,060 MIN 13 CFSM 1.42 IN 19.38
WTR YR 1973 TOTAL 20,567 MEAN 56.3 MAX 1,070 MIN 16 CFSM 1.80 IN 24.52

PEAK DISCHARGE (BASE, 550 CFS)

NOTE.--No gage-height record Oct. 2-30.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0430	7.24	803	4-27	0600	12.15	2,180
12-15	1130	7.06	763	5-28	0800	6.52	623
2-2	0530	10.88	1,610	8-18	0700	6.68	649
3-17	0430	7.34	761				

SANTEE RIVER BASIN

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 downstream from McIntyre Creek, 1.2 miles upstream from Gutter Branch, and 3.6 miles north of community of Paw Creek.

DRAINAGE AREA.--16.1 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 648.7 ft above mean sea level.

AVERAGE DISCHARGE.--8 years, 15.1 cfs (12.71 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,250 cfs Feb. 2 (gage height, 11.20 ft); minimum, 1.4 cfs Sept. 12 (gage height, 1.00 ft); minimum daily, 1.8 cfs Oct. 10, 11, Aug. 30.

Period of record: Maximum discharge, 2,250 cfs Feb. 2, 1973 (gage height, 11.20 ft); minimum, 0.65 cfs July 28, 29, 1966; minimum gage height, 0.93 ft Sept. 15, 1972,

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	2.5	13	11	18	14	435	7.2	5.7	4.0	2.5	2.3
2	2.7	2.7	8.4	10	570	13	57	6.8	5.4	5.4	2.5	2.3
3	2.2	3.5	7.1	11	84	72	26	7.2	4.7	5.0	24	2.5
4	2.0	4.0	6.6	23	28	28	23	6.8	4.3	4.0	19	3.7
5	2.9	4.0	6.1	16	21	111	18	6.1	4.0	3.7	6.1	2.5
6	2.5	3.9	15	29	19	32	16	5.7	30	3.3	5.0	2.5
7	2.0	4.7	11	19	17	25	211	5.7	22	3.7	4.3	3.0
8	1.9	21	9.7	20	16	23	178	12	9.6	3.7	3.7	2.8
9	1.9	4.6	13	18	16	22	37	11	15	3.3	3.0	2.5
10	1.8	4.1	11	16	16	19	26	7.2	12	3.3	2.8	2.8
11	1.8	4.0	19	17	14	25	20	6.5	9.1	3.7	2.8	2.8
12	2.0	5.0	12	16	13	64	18	6.1	12	3.0	22	2.3
13	1.9	4.9	11	13	24	23	16	5.7	12	2.8	4.3	2.5
14	1.9	69	14	13	25	18	14	5.4	7.2	3.3	3.7	32
15	1.9	9.3	535	23	20	16	13	5.4	34	28	3.7	5.0
16	1.9	5.6	75	27	14	20	13	4.7	22	43	3.0	3.3
17	2.0	6.0	23	24	13	236	13	5.0	10	7.7	2.8	2.8
18	2.0	4.8	17	24	13	32	12	4.7	11	6.1	3.3	2.5
19	2.0	38	14	26	13	22	12	4.7	6.8	4.7	3.3	2.5
20	1.9	107	12	23	14	18	11	5.0	15	4.0	3.3	2.5
21	2.1	13	81	17	13	37	10	4.7	11	3.7	4.0	2.3
22	2.3	8.5	175	139	12	36	9.6	4.7	11	3.3	3.0	2.3
23	2.3	6.6	34	38	11	21	9.6	4.7	14	3.3	2.8	2.5
24	2.2	5.8	22	23	10	17	8.6	40	7.2	3.3	2.8	2.5
25	2.2	39	17	18	10	17	9.1	16	6.1	3.3	2.8	4.3
26	1.9	57	15	20	20	18	9.6	8.6	5.4	6.1	2.8	2.5
27	2.9	14	13	116	45	16	16	17	4.7	4.7	2.5	2.0
28	9.5	9.4	12	82	18	13	10	48	4.7	3.7	2.3	2.3
29	3.4	7.4	10	54	-----	13	8.1	18	4.7	3.3	2.0	2.3
30	2.7	11	9.8	25	-----	43	7.7	9.1	4.0	2.8	1.8	2.3
31	2.5	-----	12	20	-----	154	-----	6.5	-----	2.8	2.0	-----
TOTAL	77.2	480.3	1,233.7	931	1,107	1,218	1,267.3	306.2	324.6	186.0	153.9	110.4
MEAN	2.49	16.0	39.8	30.0	39.5	39.3	42.2	9.88	10.8	6.00	4.96	3.68
MAX	9.5	107	535	139	570	236	435	48	34	43	24	32
MIN	1.8	2.5	6.1	10	10	13	7.7	4.7	4.0	2.8	1.8	2.0
CFSM	.15	.99	2.47	1.86	2.45	2.44	2.62	.61	.67	.37	.31	.23
IN.	.18	1.11	2.85	2.15	2.56	2.81	2.93	.71	.75	.43	.36	.26

CAL YR 1972 TOTAL 6,550.04 MEAN 17.9 MAX 535 MIN .97 CFSM 1.11 IN 15.13
WTR YR 1973 TOTAL 7,395.60 MEAN 20.3 MAX 570 MIN 1.8 CFSM 1.26 IN 17.09

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1545	9.98	844	3-17	0330	7.87	614
12-21	2315	7.42	503	4- 1	0415	10.45	1,500
2- 2	1045	11.20	2,250	4- 7	2115	8.95	838

SANTEE RIVER BASIN

129

02143000 Henry Fork near Henry River, N. C.

LOCATION.--Lat 35°41'06", long 81°24'03", Catawba County, on left bank 450 ft downstream from bridge on Secondary Road 1124, at site of Old Link Ford, 1.2 miles downstream from Burke-Catawba County line, and 2 miles southeast of village of Henry River.

DRAINAGE AREA.--80 sq mi, 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 above mean sea level. July 1925 to November 1931, at site 450 ft upstream at same datum.

AVERAGE DISCHARGE.--37 years (1925-31, 1942-73), 129 cfs (21.90 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,720 cfs Feb. 2 (gage height, 12.69 ft); minimum, 8.0 cfs Oct. 28 (gage height, 0.63 ft); minimum daily, 44 cfs Oct. 28
Period of record: Maximum discharge, 15,300 cfs Oct. 2, 1929 (gage height, 18.40 ft, site then in use), from rating curve extended above 2,300 cfs on basis of computation of peak flow over dam at Henry River, at gage height 29.2 ft; minimum, 3 cfs Dec. 20, 1942; minimum daily, 4 cfs Nov. 15, Dec. 20, 1942.
Maximum stage known, 29.2 ft Aug. 13, 1940 at former site, from floodmarks (discharge, 31,300 cfs). The flood of July 16, 1916 reached a stage of about 23 ft at former site (discharge, 20,700 cfs).

REMARKS.--Records good. Occasionally, diurnal fluctuation and some regulation caused by mill above station. An average of about 2.0 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	62	95	109	175	197	626	214	205	124	116	68
2	88	61	86	103	3,400	175	435	202	190	138	138	66
3	67	63	82	108	644	235	322	205	177	129	180	63
4	59	62	79	141	346	237	300	199	169	124	149	75
5	140	59	77	130	261	288	263	182	161	114	118	112
6	104	59	212	122	226	299	240	177	266	110	110	74
7	74	63	205	115	205	282	323	171	226	107	199	69
8	64	144	138	123	193	345	593	381	190	105	131	70
9	59	89	122	109	182	327	372	513	171	103	110	69
10	58	74	112	106	166	263	305	287	166	101	101	76
11	56	68	110	104	159	269	262	252	159	101	97	73
12	57	64	111	101	152	490	239	214	152	97	91	66
13	57	64	106	95	149	323	223	196	152	93	93	66
14	56	587	103	104	190	254	208	182	152	95	112	187
15	56	184	1,130	101	236	274	202	177	193	154	93	106
16	54	117	487	107	193	642	199	171	199	144	88	81
17	57	96	226	107	166	2,200	199	169	169	131	86	75
18	59	85	164	113	154	539	196	164	149	110	103	74
19	63	102	140	135	149	364	190	159	142	103	97	70
20	63	222	129	136	144	300	188	159	142	101	90	69
21	58	140	225	121	142	289	182	154	144	95	91	68
22	57	110	609	893	142	270	177	149	154	93	86	68
23	103	95	296	403	140	239	174	149	166	91	82	67
24	104	86	207	223	135	224	174	211	138	112	80	65
25	82	101	172	171	131	267	185	161	129	122	78	66
26	57	179	151	156	131	525	190	149	124	112	77	66
27	50	136	137	354	465	389	1,120	208	122	138	75	65
28	44	110	125	265	261	294	473	1,990	169	140	72	69
29	88	96	116	249	-----	267	287	533	161	97	72	65
30	70	98	110	199	-----	280	239	297	124	91	70	76
31	65	-----	115	174	-----	367	-----	233	-----	90	73	-----
TOTAL	2,241	3,476	6,177	5,477	9,037	11,714	9,086	8,608	4,961	3,465	3,158	2,284
MEAN	72.3	116	199	177	323	378	303	278	165	112	102	76.1
MAX	172	587	1,130	893	3,400	2,200	1,120	1,990	266	154	199	187
MIN	44	59	77	95	131	175	174	149	122	90	70	63
CFSM	.90	1.45	2.49	2.21	4.04	4.73	3.79	3.48	2.06	1.40	1.28	.95
IN.	1.04	1.62	2.87	2.55	4.20	5.45	4.22	4.00	2.31	1.61	1.47	1.06

CAL YR 1972 TOTAL 51,999 MEAN 142 MAX 3,420 MIN 44 CFSM 1.78 IN 24.18
WTR YR 1973 TOTAL 69,684 MEAN 191 MAX 3,400 MIN 44 CFSM 2.39 IN 32.40

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-2	0700	12.69	6,720	5-28	1000	8.12	3,420
3-17	0430	9.33	4,160				

SANTEE RIVER BASIN

02143040 Jacob Fork at Ramsey, N. C.

LOCATION.--Lat 35°35'26", long 81°34'02", Burke County, on left bank 16 ft downstream from bridge on Secondary Road 1924, 0.6 mile downstream from Queens Creek, and 0.6 mile north of Ramsey.

DRAINAGE AREA.--25.4 sq mi.

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 above mean sea level.

AVERAGE DISCHARGE.--12 years, 48.9 cfs (26.14 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,420 cfs Feb. 2 (gage height, 11.58 ft); minimum, 16 cfs Oct. 15, 16; minimum gage height, 1.90 ft Sept. 29.

Period of record: Maximum discharge, 4,040 cfs Aug. 9, 1970 (gage height, 16.92 ft); minimum, 7.3 cfs July 28, 29, 1966 (gage height, 1.67 ft).

Flood of August 1940 reached a stage of about 39 ft, from information by local resident. Flood of July 1916 reached a stage of about 19 ft, from information by North Carolina State Highway Commission.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	21	29	33	60	60	248	65	67	37	35	21
2	19	21	27	31	967	54	142	61	66	39	56	21
3	17	24	26	34	185	86	103	67	55	38	56	19
4	17	23	25	44	103	84	95	61	52	35	55	22
5	47	22	24	45	81	107	82	57	51	34	53	24
6	28	21	102	41	71	102	74	54	83	33	44	20
7	21	24	85	38	62	101	114	53	74	32	47	19
8	19	45	47	39	62	126	195	239	50	31	35	19
9	18	28	40	35	52	117	115	190	53	30	31	19
10	18	24	36	33	44	91	97	102	51	30	29	23
11	17	22	35	32	46	111	83	85	48	29	28	21
12	18	21	36	31	45	205	78	72	49	28	27	19
13	18	22	36	32	45	107	72	63	48	28	27	20
14	18	189	35	34	60	84	67	58	58	29	28	72
15	17	54	392	31	80	81	65	56	58	46	27	27
16	17	34	141	33	60	214	63	53	62	32	25	22
17	19	29	69	34	54	681	64	53	53	30	25	21
18	20	26	50	41	48	160	62	50	46	30	28	21
19	21	34	43	56	46	110	60	49	44	29	25	20
20	21	73	39	51	45	93	58	50	44	28	24	20
21	21	43	92	42	45	92	56	48	44	27	25	19
22	21	33	207	268	44	84	55	47	56	26	23	19
23	21	29	97	117	41	76	54	49	54	27	23	20
24	23	26	71	70	39	70	54	74	44	40	23	19
25	22	34	57	54	37	89	60	51	41	34	22	19
26	21	56	49	54	37	192	63	51	38	40	22	19
27	24	43	44	121	140	120	315	69	37	36	21	20
28	48	34	39	88	83	92	125	859	40	32	20	22
29	27	29	36	76	-----	84	85	171	38	28	20	21
30	23	30	34	62	-----	82	72	97	36	26	20	21
31	21	-----	35	54	-----	114	-----	75	-----	26	21	-----
TOTAL	686	1,114	2,078	1,754	2,682	3,869	2,876	3,129	1,548	990	945	669
MEAN	22.1	37.1	67.0	56.6	95.8	125	95.9	101	51.6	31.9	30.5	22.3
MAX	48	189	392	268	967	681	315	859	83	46	56	72
MIN	17	21	24	31	37	54	54	47	36	26	20	19
CFSM	.87	1.46	2.64	2.23	3.77	4.92	3.78	3.98	2.03	1.26	1.20	.88
IN.	1.00	1.63	3.04	2.57	3.93	5.67	4.21	4.58	2.27	1.45	1.38	.98

CAL YR 1972 TOTAL 17,570 MEAN 48.0 MAX 978 MIN 14 CFSM 1.89 IN 25.73
WTR YR 1973 TOTAL 22,340 MEAN 61.2 MAX 967 MIN 17 CFSM 2.41 IN 32.72

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1300	6.50	995	3-17	0230	8.88	1,620
2-2	0400	11.58	420	5-28	0700	10.06	1,970

SANTÉE RIVER BASIN

131

02143500 Indian Creek near Laboratory, N. C.

LOCATION.--Lat 35°25'20", long 81°15'52", Lincoln County, on left bank 250 ft upstream from remains of Rudisill Mill dam, 0.5 mile upstream from bridge on Secondary Road 1252, 1.5 miles upstream from mouth, 1.5 miles south of Laboratory, and 3.5 miles south of Lincolnton.

DRAINAGE AREA.--68.4 sq mi.

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

GAGE.--Water-stage recorder. Altitude of gage is 736 ft (by barometer).

AVERAGE DISCHARGE.--22 years, 90.7 cfs (18.01 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,850 cfs Feb. 2 (gage height, 6.23 ft); minimum, 23 cfs Sept. 2, 3, 4 (gage height, 0.84 ft).

Period of record: Maximum discharge, 8,450 cfs Aug. 10, 1970 (gage height, 10.61 ft); minimum, 4.6 cfs Oct. 8, 1954.

Peak discharge of flood in October 1929 was 9,920 cfs; flood in July 1916, 7,840 cfs; flood in August 1940, 6,000 cfs. Discharge based on computation of peak flow over dam 1 mile downstream, using floodmarks and information by local resident.

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

REVISIONS (WATER YEARS).--WRD N. C. 1971: 1970(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	38	63	87	115	87	1,150	90	104	54	38	26
2	40	38	56	84	1,960	84	335	87	90	54	47	25
3	36	42	54	84	795	229	202	101	84	56	63	25
4	36	40	51	108	219	161	176	101	76	61	108	28
5	56	38	49	93	168	191	148	84	73	49	49	31
6	49	36	152	101	145	232	138	79	98	47	47	27
7	38	38	95	93	132	191	327	79	118	47	44	30
8	36	76	64	104	132	256	504	135	84	47	42	36
9	35	45	63	93	128	223	213	142	95	45	40	30
10	33	42	59	90	111	161	176	101	93	44	38	42
11	33	40	56	90	98	191	148	95	76	61	38	31
12	35	40	56	87	95	377	135	87	76	45	36	28
13	35	40	54	81	93	183	128	79	76	42	36	31
14	33	343	51	81	128	145	121	76	71	42	35	202
15	33	104	938	93	145	142	118	73	118	56	35	59
16	31	68	815	98	111	226	111	71	179	56	33	42
17	35	56	176	95	98	1,980	108	71	90	49	42	38
18	35	51	132	95	93	393	104	68	98	47	47	36
19	38	59	111	108	93	209	101	68	73	45	36	35
20	38	158	98	98	90	176	98	71	68	44	35	33
21	34	81	226	93	87	183	95	71	73	42	35	33
22	36	66	805	540	84	187	93	63	87	40	33	33
23	36	59	271	242	79	148	93	63	142	40	33	33
24	40	54	187	158	76	135	90	108	76	44	33	31
25	38	71	148	128	76	142	95	79	63	44	31	31
26	36	145	128	121	79	213	95	68	61	49	30	31
27	38	87	115	343	121	168	183	98	56	66	30	30
28	66	71	101	195	93	142	128	1,340	59	45	28	31
29	47	63	95	161	-----	132	101	965	63	40	27	30
30	42	63	90	128	-----	158	95	176	54	36	26	33
31	42	-----	93	115	-----	232	-----	128	-----	36	26	-----
TOTAL	1,209	2,152	5,456	4,087	5,644	7,577	5,609	4,917	2,574	1,473	1,221	1,151
MEAN	39.0	71.7	176	132	202	244	187	159	85.8	47.5	39.4	38.4
MAX	66	343	938	540	1,960	1,880	1,150	1,340	179	66	108	202
MTN	31	36	49	81	76	84	90	63	54	36	26	25
CFSM	.57	1.05	2.57	1.93	2.95	3.57	2.73	2.32	1.25	.69	.58	.56
IN.	.66	1.17	2.97	2.22	3.07	4.12	3.05	2.67	1.40	.80	.66	.63

CAL YR 1972 TOTAL 37,913 MEAN 104 MAX 1,230 MIN 26 CFSM 1.52 IN 20.62
WTR YR 1973 TOTAL 43,070 MEAN 118 MAY 1,960 MIN 25 CFSM 1.73 IN 23.42

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-16	0300	4.81	1,570	3-17	1500	6.04	2,640
2-2	1830	6.23	2,850	5-28	2330	5.91	2,510

SANTEE RIVER BASIN

02144000 Long Creek near Bessemer City, N. C.

LOCATION.--Lat 35°18'23", long 81°14'03", Gaston County, on right bank 700 ft upstream from bridge on Secondary Road 1456, 2 miles northeast of Bessemer City limits, and 8.2 miles upstream from mouth.

DRAINAGE AREA.--31.4 sq mi.

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 above mean sea level.

AVERAGE DISCHARGE.--21 years, 34.7 cfs (15.01 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,110 cfs Feb. 2 (gage height, 7.06 ft); minimum, 7.9 cfs Oct. 10, 11, 16 (gage height, 1.20 ft); minimum daily, 8.0 cfs Oct. 16.

Period of record: Maximum discharge, 6,500 cfs Oct. 16, 1971 (gage height, 9.10 ft), from rating curve extended above 2,100 cfs on basis of contracted-opening measurement of peak flow; minimum, 0.4 cfs Oct. 7 1954; minimum daily, 0.8 cfs Oct. 7, 1954.

Flood of July 1916 reached a stage of 26 ft at site on left bank 1,500 ft 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 2.1 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.9	18	29	41	31	622	31	27	15	34	12
2	10	9.9	16	27	1,350	30	105	31	26	17	28	12
3	9.0	10	15	28	126	123	66	32	24	20	97	12
4	9.2	10	14	41	68	59	59	32	22	20	143	14
5	15	10	14	33	54	77	49	29	22	22	41	15
6	11	9.9	44	43	50	62	47	28	46	19	32	13
7	9.7	10	29	36	46	58	267	28	35	17	28	13
8	9.9	30	21	41	49	95	296	41	34	16	24	14
9	8.6	13	20	37	50	69	21	38	29	15	22	13
10	8.2	11	21	35	42	55	64	30	26	16	20	17
11	8.2	11	29	34	39	74	54	32	23	134	19	14
12	8.5	11	23	31	36	130	50	29	25	37	21	12
13	8.5	11	21	27	36	63	46	27	24	23	18	21
14	8.7	49	21	28	53	52	44	26	21	21	18	145
15	8.7	18	539	33	53	49	43	26	23	42	18	30
16	8.0	13	106	37	43	40	42	25	31	31	16	21
17	8.7	13	50	35	38	916	41	26	32	37	21	18
18	8.5	12	38	35	36	101	41	24	57	26	23	14
19	9.8	21	33	37	35	66	40	23	27	22	17	13
20	8.8	53	30	33	34	56	39	24	25	20	16	13
21	8.8	20	141	30	33	70	37	23	53	18	18	13
22	9.2	16	371	266	32	74	37	22	40	18	17	13
23	9.5	14	88	77	31	54	35	22	29	16	15	13
24	10	14	55	50	30	49	35	36	23	122	15	13
25	9.6	28	45	41	30	54	35	31	20	31	14	12
26	9.3	49	39	45	34	60	35	25	19	42	14	12
27	9.8	23	35	161	39	49	53	33	18	55	13	12
28	21	19	31	74	33	44	37	245	19	27	13	13
29	11	16	28	63	-----	44	33	57	18	23	13	12
30	10	18	27	47	-----	71	32	38	16	19	13	12
31	9.9	-----	32	42	-----	186	-----	30	-----	19	13	-----
TOTAL	306.1	552.7	1,994	1,576	2,541	3,011	2,465	1,144	834	1,080	814	561
MEAN	9.87	18.4	64.3	50.8	90.8	97.1	82.2	36.9	27.8	34.8	26.3	18.7
MAX	21	53	539	266	1,350	916	622	245	57	134	143	145
MIN	8.0	9.9	14	27	30	30	32	22	16	15	13	12
CFSM	.31	.59	2.05	1.62	2.89	3.09	2.62	1.18	.89	1.11	.84	.60
IN.	.36	.65	2.36	1.87	3.01	3.57	2.92	1.36	.99	1.28	.96	.66

CAL YR 1972 TOTAL 14,935.60 MEAN 40.8 MAX 815 MIN 6.1 CFSM 1.30 IN 17.69
WTR YR 1973 TOTAL 16,878.80 MEAN 46.2 MAX 1,350 MIN 8.0 CFSM 1.47 IN 20.00

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1130	5.27	985	3-17	0600	6.09	1,420
12-21	2400	5.03	865	4- 1	0600	5.36	1,030
2- 2	1230	7.06	2,110	4- 7	2130	5.03	865

SANTÉE RIVER BASIN

133

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 upstream from Southern Railway bridge, 0.7 mile upstream from Taggart Creek, 4.2 miles southwest of city hall, Charlotte.

DRAINAGE AREA.--30.5 sq mi.

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 above mean sea level (city of Charlotte bench mark).

AVERAGE DISCHARGE.--11 years, 39.6 cfs (17.64 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,750 cfs Feb. 2 (gage height, 13.78 ft); minimum, 7.1 cfs Sept. 2 (gage height, 0.74 ft); minimum daily, 8.6 cfs Oct. 22.

Period of record: Maximum discharge, 3,750 cfs Feb. 2, 1973 (gage height, 13.78 ft); minimum, 3.9 cfs Aug 7, 8, 1966.

Maximum stage known since at least 1927, about 17.3 ft Apr. 6, 1936, at site 400 ft downstream from information by plant employee. Peak may have been affected by failure of Lakewood Dam 5 miles upstream. Flood of Jan. 6, 1962 reached a stage of 14.32 ft, from floodmarks (discharge, 4,120 cfs). Flood of Apr. 11, 1962 reached a stage of 15.18 ft, from floodmarks (discharge, 4,740 cfs, 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	10	31	21	39	30	710	19	24	17	13	9.4
2	13	12	22	21	1,600	27	85	19	21	32	13	9.6
3	16	12	19	47	135	201	58	19	22	17	65	21
4	13	11	18	58	99	50	55	19	24	17	36	17
5	22	11	18	29	86	219	43	16	24	14	24	10
6	12	10	83	84	66	70	38	15	196	16	13	10
7	10	49	25	31	31	50	553	16	54	14	12	11
8	10	163	38	39	66	43	168	70	32	14	11	10
9	11	16	30	42	51	38	67	26	107	16	10	14
10	11	14	28	42	35	33	50	20	32	14	13	14
11	11	13	41	53	32	84	43	22	28	37	9.9	9.1
12	11	12	26	34	30	110	39	16	100	14	90	10
13	11	16	31	28	29	43	35	15	55	13	14	37
14	9.2	335	56	30	86	36	32	16	27	12	12	341
15	8.8	29	1,190	53	50	34	28	16	387	45	26	20
16	10	27	97	43	34	59	28	16	90	63	11	15
17	13	28	41	35	28	364	26	32	72	19	42	14
18	10	15	33	35	26	56	25	19	103	15	15	13
19	10	227	25	58	27	40	25	14	31	15	11	13
20	10	151	28	33	27	36	23	33	126	13	19	13
21	9.6	30	306	25	27	220	22	18	49	13	14	16
22	8.6	24	185	317	27	81	21	15	131	12	12	16
23	11	19	60	68	25	46	22	24	46	17	11	13
24	14	18	38	42	23	39	22	300	26	141	12	16
25	9.9	167	32	34	23	40	23	45	25	17	10	20
26	9.3	93	30	81	36	36	36	32	23	35	10	16
27	78	30	27	199	105	32	37	55	21	17	10	17
28	77	23	24	197	34	29	21	250	21	14	11	16
29	13	20	22	89	-----	34	19	64	20	12	12	17
30	12	72	22	47	-----	81	19	33	18	13	11	16
31	12	-----	28	37	-----	588	-----	27	-----	12	10	-----
TOTAL	493.4	1,657	2,654	1,952	2,877	2,849	2,373	1,301	1,935	720	582.9	774.1
MEAN	15.9	55.2	85.6	63.0	103	91.9	79.1	42.0	64.5	23.2	18.8	25.8
MAX	78	335	1,190	317	1,600	588	710	300	387	141	90	341
MIN	8.6	10	18	21	23	27	19	14	18	12	9.9	9.1
CFSM	.52	1.81	2.81	2.07	3.38	3.01	2.59	1.38	2.11	.76	.62	.85
IN.	.60	2.02	3.24	2.38	3.51	3.47	2.89	1.59	2.36	.88	.71	.94

CAL YR 1972 TOTAL 17,009.4 MEAN 46.5 MAX 1,190 MIN 8.1 CFSM 1.52 IN 20.75
WTR YR 1973 TOTAL 20,168.4 MEAN 55.3 MAX 1,600 MIN 8.6 CFSM 1.81 IN 24.60

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-14	0445	9.23	1,690	2- 2	0815	13.78	3,750
11-19	2200	8.05	1,340	3-31	2330	13.06	3,290
12-15	1045	11.30	2,470	4- 7	1445	9.82	1,900
12-21	2045	8.48	1,460	6-15	1615	12.22	2,860
1-22	0845	7.77	1,250				

SANTÉE RIVER BASIN

02146450 Briar Creek at Sharon Road, Charlotte, N. C.

LOCATION.--Lat 35°10'47", long 80°49'46", Mecklenburg County, on right bank at upstream side of bridge on Sharon Road (Secondary Road 3600), 2.4 miles upstream from mouth, and 3.0 miles south of city hall Charlotte.

DRAINAGE AREA.--18.5 sq mi.

PERIOD OF RECORD.--April 1962 to March 1973 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 605.06 ft (city of Charlotte bench mark).

AVERAGE DISCHARGE.--10 years (1962-72), 19.1 cfs (14.05 inches per year).

EXTREMES.--October 1972 to March 1973: Maximum discharge during period, 1,510 cfs Feb. 2 (gage height, 9.86 ft); minimum, 2.2 cfs Oct. 20 (gage height, 1.35 ft).

Period of record: Maximum discharge, 2,260 cfs Apr. 11, 1962 (gage height, 11.9 ft, from outside floodmarks); minimum, 0.70 cfs Oct. 4, 1970; minimum gage height, 1.27 ft Oct. 4, 8, 9, 10, 1970.

Flood of Jan. 6, 1962 reached a stage of 10.1 ft, from floodmarks (discharge 1,580 cfs).

REMARKS.--Records good. Creek channel improved by dredging in 1914 and maintained by the Mecklenburg County Drainage Commission to present time. The drainage basin is urban and has an impervious area of about 10 percent, expected development by 1995 is 20 percent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.3	3.9	14	9.4	16	12						
2	4.9	3.6	8.7	8.7	644	11						
3	4.6	3.4	7.4	28	43	119						
4	3.8	3.4	6.9	36	24	31						
5	6.9	3.1	6.6	14	19	217						
6	4.1	3.1	46	50	24	33						
7	3.6	22	10	16	18	25						
8	3.3	81	18	21	34	23						
9	3.2	5.5	15	21	28	19						
10	3.0	4.4	9.8	20	18	17						
11	2.7	4.1	13	27	15	39						
12	3.5	3.6	12	18	14	56						
13	3.2	4.7	10	13	13	19						
14	3.1	165	63	15	34	17						
15	2.9	9.3	519	28	23	18						
16	2.8	9.6	62	22	15	39						
17	3.9	13	26	17	13	183						
18	3.2	6.2	14	16	12	24						
19	3.1	94	11	35	12	18						
20	2.6	72	11	19	12	18						
21	2.7	10	154	14	13	136						
22	3.2	7.2	80	135	11	30						
23	4.0	6.3	21	26	11	19						
24	5.3	5.7	16	17	10	17						
25	3.6	80	14	14	9.9	18						
26	3.5	45	13	46	13	17						
27	20	11	12	116	48	14						
28	28	7.8	11	142	16	12						
29	4.3	6.8	10	44	-----	14						
30	3.4	51	9.5	21	-----	45						
31	4.7	-----	12	17	-----	162	-----	-----	-----	-----	-----	-----
TOTAL	158.4	745.7	1,235.9	1,026.1	1,162.9	1,422						
MEAN	5.11	24.9	39.9	33.1	41.5	45.9						
MAX	28	165	519	142	644	217						
MIN	2.6	3.1	6.6	8.7	9.9	11						
CFSM	.28	1.35	2.16	1.79	2.24	2.48						
IN.	.32	1.50	2.49	2.06	2.34	2.86						

CAL YR 1972 TOTAL 8,041.4 MEAN 22.0 MAX 519 MIN 2.1 CFSM 1.19 IN 16.17

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1100	9.13	1,290	2-2	0815	9.86	1,510

02146500 Little Sugar Creek near Charlotte, N. C.

LOCATION.--Lat 35°09'13", long 80°51'18", Mecklenburg County, on right bank 10 ft upstream from bridge on Tyvola Road at sewage-disposal plant of city of Charlotte, 1,500 ft downstream from Briar Creek, and 4.8 miles south of city hall, Charlotte.

DRAINAGE AREA.--41.0 sq mi.

PERIOD OF RECORD.--July 1924 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 568.58 ft 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 upstream at datum 2.7 ft higher.

AVERAGE DISCHARGE.--49 years, 46.3 cfs (15.33 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,440 cfs June 15 (gage height, 17.6 ft in gage well, 18.2 ft from floodmarks), from rating curve extended as explained below; minimum daily, 6.0 cfs Sept. 3, 27, 30. Period of record: Maximum discharge, 8,440 cfs June 15, 1973 (gage height, 17.6 ft in gage well, 18.2 ft from floodmarks), from rating curve extended above 3,400 cfs on basis of slope-area measurement at gage height 13.10 ft and step backwater method at gage heights 17.52 ft, 19.02 ft, and 21.52 ft; minimum, 1.2 cfs 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. The drainage area is urban, within the city of Charlotte, and has an impervious area of 14.6 percent.

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	8.3	29	18	33	23	925	17	14	39	9.9	6.4
2	10	7.5	18	17	1,540	22	71	17	13	68	11	6.1
3	9.2	7.6	15	65	88	292	45	18	13	22	107	6.0
4	8.5	7.2	14	79	47	61	45	17	13	16	53	7.6
5	19	6.6	14	27	38	434	32	15	57	15	77	6.3
6	9.3	6.6	107	116	50	68	29	14	231	20	17	6.2
7	7.8	51	22	32	33	51	858	15	67	29	11	21
8	7.1	209	39	45	77	44	251	101	42	15	10	23
9	7.0	12	32	47	55	36	59	29	137	14	9.6	14
10	6.8	9.1	20	44	35	32	43	20	27	39	9.1	17
11	6.4	8.9	30	62	29	89	34	22	26	71	12	6.9
12	7.2	7.7	22	39	27	122	31	15	112	18	25	6.3
13	7.1	11	22	30	26	38	28	14	63	13	9.6	55
14	7.0	521	122	34	88	32	27	13	20	13	8.8	358
15	6.5	21	1,170	62	46	34	26	14	1,340	26	54	17
16	6.2	22	74	50	29	81	25	13	139	85	9.6	10
17	8.7	32	32	38	25	451	24	20	50	32	106	8.8
18	7.7	13	26	35	23	50	25	18	126	14	19	8.1
19	7.3	252	23	74	23	36	23	13	25	12	9.8	7.1
20	6.3	162	24	37	23	32	22	41	410	12	21	7.0
21	6.1	22	394	26	23	293	21	17	69	11	17	6.8
22	6.2	16	167	389	22	104	20	13	441	11	10	6.8
23	6.7	13	49	53	22	43	21	14	115	13	8.5	6.7
24	12	12	30	33	20	36	20	276	35	179	8.9	6.6
25	7.2	200	27	27	20	39	20	34	27	16	8.2	6.3
26	6.7	101	26	117	31	37	28	22	23	32	8.3	6.1
27	63	22	24	257	123	30	46	51	21	15	7.7	6.0
28	76	17	20	300	29	26	20	295	20	12	7.3	6.4
29	10	14	19	86	-----	32	17	75	19	11	7.1	6.2
30	7.9	107	18	41	-----	98	17	21	17	9.8	7.0	6.0
31	8.6	-----	22	33	-----	827	-----	17	-----	9.8	6.7	-----
TOTAL	380.5	1,899.5	2,651	2,313	2,625	3,593	2,853	1,281	3,712	892.6	686.1	661.7
MEAN	12.3	63.3	85.5	74.6	93.8	116	95.1	41.3	124	28.8	22.1	22.1
MAX	76	521	1,170	389	1,540	827	925	295	1,340	179	107	358
MIN	6.1	6.6	14	17	20	22	17	13	13	9.8	6.7	6.0
CFSM	.30	1.54	2.09	1.82	2.29	2.83	2.32	1.01	3.02	.70	.54	.54
IN.	.35	1.72	2.41	2.10	2.38	3.26	2.59	1.16	3.37	.81	.62	.60

CAL YR 1972 TOTAL 19,862.0 MEAN 54.3 MAX 1,170 MIN 4.6 CFSM 1.32 IN 18.02
WTR YR 1973 TOTAL 23,548.4 MEAN 64.5 MAX 1,540 MIN 6.0 CFSM 1.57 IN 21.37

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-24	0630	10.08	2,720	4-7	1615	10.74	3,110
12-19	1043	10.81	3,140	6-15	1600	18.20	8,440
2-2	0630	12.36	3,980	6-22	1915	10.81	3,140
3-31	2245	13.44	4,570				

SANTEE RIVER BASIN

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 miles downstream from Irwins Creek, and 7 miles southeast of city hall, Charlotte.

DRAINAGE AREA.--38.3 sq mi.

PERIOD OF RECORD.--April 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 553.39 ft above mean sea level (city of Charlotte bench mark).

AVERAGE DISCHARGE.--11 years, 35.2 cfs (12.48 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,820 cfs Apr. 1 (gage height, 13.84 ft, from high-water mark in well); minimum, no flow Nov. 15 (gage height, 0.81 ft), result of upstream construction.

Period of record: Maximum discharge, 3,990 cfs Apr. 11, 1962 (gage height, 13.82 ft); minimum, no flow Nov. 15, 1972, result of upstream construction.

Flood of Jan. 6, 1962 reached a stage of about 14.0 ft, from floodmarks (discharge 4,150 cfs).

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. In 1962 it had an impervious area of 2.1 percent. The basin is undergoing continuing urbanization.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	4.7	13	18	31	23	1,500	14	10	12	8.9	6.5
2	5.9	4.4	11	17	1,110	22	119	14	9.1	66	8.7	6.1
3	4.9	4.2	12	31	132	201	67	14	8.6	74	42	8.7
4	4.4	4.7	8.6	75	62	73	54	14	8.3	54	55	7.1
5	5.4	4.4	7.6	32	44	362	42	13	8.4	17	216	6.7
6	5.1	4.2	16	85	42	101	36	11	41	14	41	5.8
7	4.7	4.4	15	39	37	79	655	12	26	11	18	17
8	4.2	5.7	14	42	46	62	389	31	12	11	12	23
9	4.0	6.4	19	39	59	53	94	24	13	11	11	7.3
10	3.8	6.7	17	34	36	41	71	15	13	9.5	9.6	9.1
11	3.5	6.0	18	36	32	54	49	15	10	29	26	7.1
12	3.8	6.0	17	32	30	149	41	12	16	11	78	5.9
13	3.5	5.7	16	26	28	51	34	11	24	9.0	13	7.2
14	3.8	9.0	30	26	56	37	26	10	12	8.4	11	174
15	3.8	9.7	1,000	59	56	33	25	9.7	310	9.2	10	21
16	4.0	7.6	133	67	34	44	25	8.9	90	160	9.1	11
17	4.2	11	44	55	26	349	24	9.1	25	221	12	8.7
18	4.4	9.0	28	53	24	70	23	9.1	50	25	15	7.6
19	4.2	8.0	24	69	25	42	22	9.0	16	15	8.9	6.6
20	4.0	13	21	51	24	33	22	16	544	11	10	6.5
21	4.2	13	159	31	22	198	20	13	91	9.8	14	6.5
22	4.2	9.0	196	198	21	159	18	9.5	216	8.9	10	6.2
23	4.4	7.6	61	78	20	57	18	9.6	179	12	8.2	6.2
24	4.7	6.7	35	39	19	40	18	63	41	215	7.9	6.0
25	4.7	9.0	28	29	18	36	18	21	24	22	8.7	5.8
26	4.2	13	25	46	19	38	19	13	18	18	9.6	5.4
27	4.2	13	22	251	60	29	25	19	14	15	7.7	5.4
28	5.1	12	19	218	29	25	18	39	13	63	7.0	5.6
29	5.1	9.9	17	136	-----	25	16	45	12	15	6.9	5.6
30	4.7	12	17	53	-----	100	16	17	10	11	6.9	5.3
31	4.7	-----	19	37	-----	200	-----	12	-----	9.6	7.2	-----
TOTAL	142.8	240.0	2,062.2	2,002	2,142	2,786	3,504	532.9	1,864.4	1,177.4	709.3	410.9
MEAN	4.61	8.00	66.5	64.6	76.5	89.9	117	17.2	62.1	38.0	22.9	13.7
MAX	11	13	1,000	251	1,110	362	1,500	63	544	221	216	174
MIN	3.5	4.2	7.6	17	18	22	16	8.9	8.3	8.4	6.9	5.3
CFSM	.12	.21	1.74	1.69	2.00	2.35	3.05	.45	1.62	.99	.60	.36
IN.	.14	.23	2.00	1.94	2.08	2.71	3.40	.52	1.81	1.14	.69	.40

CAL YR 1972 TOTAL 13,015.5 MEAN 35.6 MAX 1,000 MIN 2.7 CFSM .93 IN 12.64
WTR YR 1973 TOTAL 17,573.9 MEAN 48.1 MAX 1,500 MIN 3.5 CFSM 1.26 IN 17.07

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-15	1415	12.27	2,640	6-15	1900	9.19	1360
2-2	0830	11.89	2,440	6-20	1100	10.25	1700
4-1	unknown	13.84	3,820	7-16	2315	9971	1510
4-7	1930	10.86	1,940	8-5	1700	10.02	1610

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 miles south of Queens College, Charlotte, and 6.9 miles upstream from mouth. Prior to Dec. 30, 1971, at site 154 ft downstream.

DRAINAGE AREA.--6.98 sq mi.

PERIOD OF RECORD.--April 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 592.91 ft above mean sea level (city of Charlotte bench mark). Prior to Oct. 13, 1970, at site 73 ft upstream at same datum. Oct. 13, 1970 to Dec. 30, 1971 at site 154 ft downstream at datum 2.00 ft lower.

AVERAGE DISCHARGE.--11 years, 6.57 cfs (12.78 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,210 cfs June 15 (gage height, 8.31 ft); no flow Mar. 28 (result of upstream construction).

Period of record: Maximum discharge, 1,240 cfs Apr. 11, 1962 (gage height, 8.15 ft in gage well, 8.51 ft 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, former site and datum, from floodmarks (discharge, 1,040 cfs).

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.24	2.9	1.9	3.8	2.9	98	1.1	1.1	8.7	.68	.44
2	.69	.22	1.5	1.7	288	2.7	11	1.6	1.1	15	.74	.42
3	.59	.31	1.3	13	13	49	5.5	1.4	.93	2.8	36	.40
4	.56	.32	1.3	14	5.9	14	5.1	1.6	.77	1.6	9.0	.60
5	.97	.33	1.3	3.9	4.4	126	3.1	1.1	1.4	2.1	72	.42
6	.72	.31	20	22	9.1	15	2.9	1.1	20	1.9	4.2	.41
7	.48	7.3	2.5	4.7	4.5	9.5	194	1.1	5.1	1.3	1.8	2.3
8	.39	26	3.9	7.2	13	17	50	13	1.6	1.2	1.3	2.5
9	.29	.88	3.1	7.8	7.6	7.9	8.3	2.7	6.7	1.1	1.0	.85
10	.22	.68	1.9	6.4	4.9	4.8	5.1	1.6	2.0	1.2	.92	1.5
11	.21	.46	2.4	9.3	4.3	29	3.7	2.7	1.1	9.6	2.1	.36
12	.20	.42	3.5	5.2	3.4	29	3.4	1.1	12	1.9	9.2	.35
13	.22	.39	2.0	4.0	3.1	6.7	2.9	1.1	5.1	.95	.92	2.0
14	.34	47	57	5.3	12	4.2	2.4	.77	1.4	.99	.85	35
15	.33	1.9	281	15	6.3	3.4	2.4	.93	226	3.4	3.1	1.7
16	.21	1.3	14	9.2	3.6	23	2.2	.77	18	10	.94	.92
17	.20	3.3	4.8	6.8	2.9	104	2.2	.77	4.4	1.5	.90	.77
18	.22	1.4	3.8	5.5	2.5	7.5	2.2	.77	24	1.2	.70	.61
19	.29	37	3.1	15	2.6	4.2	2.2	.77	2.2	1.1	.50	.60
20	.22	14	2.3	6.0	2.4	3.7	2.0	8.3	170	1.0	2.3	.51
21	.18	1.8	83	3.4	2.4	69	2.0	1.4	13	1.0	.90	.46
22	.22	1.2	27	68	2.4	18	1.8	.77	185	.91	.70	.45
23	.22	1.1	7.1	8.2	2.3	5.9	1.8	2.2	26	3.2	.60	.46
24	.45	.93	3.8	4.2	2.1	4.2	1.8	24	4.2	12	.62	.43
25	.29	33	3.7	3.2	2.0	4.5	1.8	2.7	2.4	1.2	.60	.42
26	.22	11	2.9	25	2.7	4.5	2.4	1.3	2.0	1.8	.56	.40
27	1.4	2.2	2.7	54	25	2.0	5.1	1.4	1.9	1.4	.54	.33
28	8.7	1.5	2.2	76	3.9	2.0	1.6	26	1.7	.85	.52	.54
29	.63	1.3	1.9	16	-----	3.4	1.3	8.7	1.5	.79	.49	.59
30	.37	13	1.9	5.5	-----	15	1.4	2.0	1.3	.70	.47	.74
31	.29	-----	2.6	4.0	-----	2.0	-----	1.3	-----	.62	.46	-----
TOTAL	21.52	210.79	552.4	431.4	440.1	594.0	429.6	116.05	743.90	93.01	155.61	57.48
MEAN	.69	7.03	17.8	13.9	15.7	19.2	14.3	3.74	24.8	3.00	5.02	1.92
MAX	8.7	47	281	76	288	126	194	26	226	15	72	35
MIN	.18	.22	1.3	1.7	2.0	2.0	1.3	.77	.77	.62	.46	.33
CFSM	.10	1.01	2.55	1.99	2.25	2.75	2.05	.54	3.55	.43	.72	.28
IN.	.11	1.12	2.94	2.30	2.35	3.17	2.29	.62	3.96	.50	.83	.31

CAL YR 1972 TOTAL 2,817.01 MEAN 7.70 MAX 281 MIN .18 CFSM 1.10 IN 15.01
WTR YR 1973 TOTAL 3,845.86 MEAN 10.5 MAX 288 MIN .18 CFSM 1.50 IN 20.50

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1030	5.84	771	6-15	1745	8.31	1,210
2- 2	0645	6.26	844	6-20	0745	6.15	824
4- 1	0030	8.22	1,190	6-22	1915	7.24	1,060
4- 7	1630	5.54	717				

SANTEE RIVER BASIN

02146900 Twelve Mile Creek near Waxhaw, N. C.

LOCATION.--Lat 34°57'06", long 80°45'23", Union County, on left bank 90 ft upstream from bridge on State Highway 16, 680 ft downstream from West Fork Twelve Mile Creek, and 2.5 miles north of Waxhaw.

DRAINAGE AREA.--72.4 sq mi.

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 above mean sea level. Prior to Mar. 13, 1962, water-stage recorder at site 70 ft downstream at same datum.

AVERAGE DISCHARGE.--13 years, 66.1 cfs (12.40 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,700 cfs Apr. 1 (gage height, 19.92 ft); minimum, 0.66 cfs Oct. 12 (gage height, 1.25 ft).

Period of record: Maximum discharge, 7,700 cfs Apr. 1, 1973 (gage height, 19.92 ft); no flow Oct. 6, 1968, Oct. 7-15, 1970.

Maximum stage known since at least 1900, 23.6 ft Sept. 7, 1949, from floodmarks. No flow observed on Oct. 6, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	2.0	6.4	28	57	53	4,550	23	13	15	9.0	1.9
2	2.9	1.9	5.9	25	2,130	44	465	25	12	14	8.7	1.7
3	1.9	2.7	5.3	51	811	661	149	25	11	14	8.9	1.6
4	1.6	5.5	5.0	239	138	208	118	25	10	14	36	1.3
5	1.5	5.8	4.8	81	89	400	93	22	9.7	12	19	1.3
6	1.4	8.0	8.1	170	73	177	69	21	68	58	13	1.4
7	1.3	10	11	96	75	141	504	20	93	20	11	1.4
8	1.2	26	8.3	76	63	169	1,440	22	24	16	8.9	1.2
9	1.0	16	7.1	67	99	279	212	31	89	13	7.5	30
10	.95	7.4	6.8	55	68	113	176	24	152	15	6.6	27
11	.84	4.8	6.5	49	63	126	99	22	35	38	6.1	4.7
12	.71	3.8	6.2	51	71	903	77	22	41	58	5.4	2.4
13	.74	2.8	6.0	42	72	184	66	19	131	20	4.9	5.8
14	.81	4.3	361	40	223	112	57	18	33	13	4.4	153
15	.89	6.0	2,100	108	238	84	51	17	134	12	3.9	29
16	.90	4.8	1,010	213	117	90	50	15	205	116	3.8	11
17	.94	4.9	91	148	70	774	48	15	43	152	3.8	6.2
18	1.1	5.6	48	134	55	166	46	14	71	39	3.9	5.0
19	1.5	5.4	35	131	51	94	42	13	32	21	4.4	3.8
20	1.5	25	30	102	47	73	40	20	136	16	4.2	3.3
21	1.6	13	96	60	44	190	37	25	280	13	3.9	3.1
22	1.6	7.4	440	103	41	296	36	18	224	12	4.1	2.9
23	1.4	5.5	113	99	39	107	34	15	234	11	3.8	2.8
24	1.6	4.6	65	56	36	77	33	24	64	24	3.4	2.7
25	1.6	9.1	45	43	33	68	33	28	37	18	3.3	2.4
26	1.6	53	35	39	33	70	33	19	28	13	4.1	2.2
27	1.6	21	30	459	127	59	37	16	24	12	4.0	2.0
28	4.6	11	26	278	92	50	33	16	21	56	3.0	1.9
29	5.6	7.4	23	376	-----	47	26	46	19	27	2.6	2.0
30	3.3	6.3	21	108	-----	107	24	25	16	13	2.4	2.0
31	2.3	-----	24	70	-----	751	-----	17	-----	10	2.1	-----
TOTAL	56.18	291.0	4,680.4	3,597	5,055	6,673	8,678	662	2,289.7	885	210.1	317.0
MEAN	1.81	9.70	151	116	181	215	289	21.4	76.3	28.5	6.78	10.6
MAX	5.7	53	2,100	459	2,130	903	4,550	46	289	152	36	153
MIN	.71	1.9	4.8	25	33	44	24	13	9.7	10	2.1	1.2
CFSM	.03	.13	2.09	1.60	2.50	2.97	3.99	.30	1.05	.39	.09	.15
IN.	.03	.15	2.40	1.85	2.60	3.43	4.46	.34	1.18	.45	.11	.16

CAL YR 1972 TOTAL 23,667.88 MEAN 64.7 MAX 2,100 MIN .71 CFSM .89 IN 12.16
WTR YR 1973- TOTAL 33,394.38 MEAN 91.5 MAX 4,550 MIN .71 CFSM 1.26 IN 17.16

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	2130	14.71	2,860	4-1	0830	19.92	7,700
2-2	1900	15.42	3,250	4-8	0600	13.47	2,240

SANTEE RIVER BASIN

139

02149000 Cove Creek near Lake Lure, N. C.

LOCATION.--Lat 35°25'24", long 82°06'42", Rutherford County, on left bank 40 ft upstream from bridge on U. S. Highways 64 and 74, 1 mile upstream from mouth, and 5 miles east of town of Lake Lure.

DRAINAGE AREA.--77.0 sq. mi.

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 above mean sea level. Prior to Dec. 20, 1954, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 123 cfs (21.69 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,380 cfs Feb. 2 (gage height, 11.83 ft); minimum, 67 cfs Oct. 15, 16 (gage height, 2.14 ft).

Period of record: Maximum discharge, 7,050 cfs June 5, 1957 (gage height, 18.53 ft); minimum, 21 cfs Sept. 8, 9, 28, 30, Oct. 1-3, 5-7, 11-13, 1954.

Flood of 1916 reached a stage of about 23 ft, from records of North Carolina State Highway Commission.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	83	96	139	328	125	459	214	213	230	162	102
2	83	81	90	140	1,660	129	333	201	198	217	146	100
3	77	89	85	120	443	259	271	206	186	176	216	98
4	73	81	80	140	284	195	255	194	177	169	361	97
5	277	78	85	125	230	322	228	182	172	219	181	100
6	126	77	100	123	215	234	211	181	236	158	158	97
7	96	86	140	117	190	278	286	179	225	152	176	100
8	54	165	100	127	180	343	421	401	186	140	148	103
9	72	104	90	113	166	301	322	345	212	139	139	114
10	74	93	100	111	157	256	275	253	235	139	169	135
11	73	88	105	107	149	343	243	250	190	138	169	106
12	73	83	120	105	145	487	228	216	178	130	141	99
13	73	83	100	101	141	322	214	202	210	123	138	102
14	72	296	110	101	193	267	213	187	224	124	263	235
15	70	144	720	105	183	276	197	184	192	201	259	125
16	68	114	359	111	164	615	193	177	232	140	160	109
17	78	102	213	111	153	1,650	202	173	193	139	159	104
18	74	95	175	115	147	511	198	164	172	146	160	108
19	78	115	155	133	143	354	194	160	161	135	141	98
20	73	182	147	125	139	294	138	160	159	127	132	97
21	72	128	238	115	137	272	131	160	196	121	132	95
22	72	113	433	535	133	247	176	155	197	119	120	95
23	74	103	259	273	131	226	175	152	198	195	121	95
24	78	97	208	193	127	213	171	178	161	141	119	92
25	74	104	180	159	125	260	199	168	155	139	116	91
26	72	128	164	185	127	324	196	153	148	146	113	91
27	72	108	149	416	143	263	581	189	143	176	107	93
28	195	101	139	264	120	232	377	1,250	266	156	103	96
29	107	96	133	243	-----	228	267	430	219	131	103	92
30	91	98	127	195	-----	231	234	288	170	120	106	104
31	86	-----	119	173	-----	287	-----	235	-----	143	104	-----
TOTAL	2,732	3,315	5,319	5,120	6,442	10,394	7,739	7,597	5,794	4,729	4,822	3,173
MEAN	88.1	111	172	165	230	335	258	245	193	153	156	106
MAX	207	296	720	535	1,640	1,650	581	1,250	266	230	361	235
MIN	68	77	80	101	125	125	171	152	143	119	103	91
CFSM	1.14	1.44	2.23	2.14	2.99	4.35	3.35	3.18	2.51	1.99	2.03	1.38
IN.	1.32	1.60	2.57	2.47	3.11	5.02	3.74	3.67	2.80	2.28	2.33	1.53

CAL YR 1972 TOTAL 48,954 MEAN 134 MAX 1,390 MIN 59 CFSM 1.74 IN 23.65
WTR YR 1973 TOTAL 67,166 MEAN 184 MAX 1,650 MIN 68 CFSM 2.39 IN 32.45

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1330	7.18	1,590	3-17	0300	11.79	3,360
1-22	0900	5.32	996	5-28	1400	11.58	3,270
2-2	0300	11.83	3,380	8-14	2100	6.13	1,240

LOCATION.--Lat 35°18'20", long 82°16'31", Polk County, on left bank 90 ft upstream from bridge on Secondary Road 1151, 2,100 ft downstream from Laurel Branch, and 6.5 miles northeast of Saluda.

GAGE.--Water-stage recorder. Altitude of gage is 945 ft (from topographic map).

EXTREMES.--August to September 1972: Maximum discharge during period, 585 cfs Sept. 4 (gage height, 3.71 ft); minimum, 79 cfs Sept. 25 (gage height, 2.08 ft); minimum daily, 83 cfs Sept. 24.

Water year 1973: Maximum discharge, 5,440 cfs May 28 (gage height, 8.72 ft); minimum, 75 cfs Oct. 26, 27 (gage height, 2.05 ft); minimum daily, 87 cfs Nov. 6.

REMARKS.--Records good. Flow regulated since 1920 by Lake Summit (capacity, 13,200 acre-ft) 11 miles upstream in Henderson County. Lake is used for power development and recreation. Water quality records for the period are published in Part 2 of this report.

[illegible]

Santee River Basin

141

02149702 Green River near Saluda, N. C.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	91	289	429	612	283	1,500	421	635	381	301	132
2	218	90	190	337	3,310	365	1,010	467	615	348	425	132
3	384	114	163	306	1,170	399	826	495	600	264	277	141
4	380	93	206	454	792	507	778	476	540	235	255	158
5	738	88	209	280	648	690	700	403	545	268	249	168
6	440	87	337	365	606	587	658	394	565	268	240	171
7	406	163	440	299	568	583	916	452	600	261	246	171
8	373	244	414	299	564	611	1,250	940	555	287	203	153
9	232	166	274	302	545	583	916	1,270	500	385	301	203
10	134	143	183	376	535	568	796	796	495	258	246	182
11	178	152	244	373	497	648	718	688	394	240	220	156
12	132	147	327	381	406	708	682	615	425	229	246	154
13	136	221	320	130	388	602	646	595	381	249	329	161
14	134	611	235	156	625	568	635	580	520	329	249	252
15	109	436	1,230	222	578	578	646	575	217	640	198	157
16	126	238	876	230	521	1,130	635	540	360	550	182	159
17	132	226	549	243	388	2,860	646	452	625	555	268	156
18	138	212	502	356	358	1,220	605	443	540	398	301	200
19	134	403	483	265	406	952	610	377	448	280	187	211
20	130	573	429	138	403	844	510	385	439	271	201	211
21	126	425	592	243	399	814	500	434	520	261	179	146
22	126	292	876	794	391	754	495	364	439	243	201	147
23	130	201	642	565	365	694	495	369	322	268	198	121
24	128	223	545	500	226	670	490	525	294	385	195	144
25	102	262	526	434	289	772	550	485	294	356	223	141
26	99	376	502	379	380	928	605	360	294	264	143	143
27	120	334	464	464	376	748	646	580	390	301	220	148
28	238	229	373	580	362	682	646	3,400	390	261	232	164
29	112	223	355	525	-----	676	595	1,170	448	249	229	143
30	145	235	218	505	-----	664	495	808	398	217	143	132
31	99	-----	295	450	-----	820	-----	676	-----	268	127	-----
TOTAL	6,254	7,298	13,288	11,380	16,708	23,508	21,200	20,535	13,788	9,769	7,214	4,857
MEAN	202	243	429	367	597	758	707	662	460	315	233	162
MAX	738	611	1,230	794	3,310	2,860	1,500	3,400	635	640	425	252
MIN	99	87	163	130	226	283	490	360	217	217	127	121

WTR YR 1973 TOTAL 155,799 MEAN 427 MAX 3,400 MIN 87

SANTEE RIVER BASIN

02151000 Second Broad River at Cliffside, N. C.

LOCATION.--Lat 35°14'08", long 81°45'57", Rutherford County, on left bank 0.2 mile downstream from dam at Cliffside Mills, at Cliffside, and 1.3 miles upstream from mouth.

DRAINAGE AREA.--211 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 670.5 ft above mean sea level (levels by Soil Conservation Service).

AVERAGE DISCHARGE.--48 years, 303 cfs (19.50 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,600 cfs May 28 (gage height, 10.00 ft); minimum, 20 cfs July 21 (gage height, 0.73 ft); minimum daily, 112 cfs Oct. 25.

Period of record: Maximum discharge, 15,000 cfs Aug. 14, 1940 (gage height, 17.93 ft); minimum, 4 cfs Sept. 27, 1935, Aug. 3, 1937, July 24, 1943; minimum daily, 6 cfs June 9, 1940.

REMARKS.--Records good except those for period of no gage-height record, which are poor. Considerable diurnal fluctuation and some low-flow regulation by mills above station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 892: 1928(M), drainage area. WSP 1553: 1935-39(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	277	151	219	270	380	354	1,730	392	568	339	287	206
2	223	156	202	240	3,700	287	1,010	375	501	369	422	202
3	154	196	188	250	3,600	486	717	383	448	318	439	199
4	129	153	198	280	920	552	617	421	413	347	708	213
5	211	150	214	280	690	583	547	361	389	336	427	289
6	308	169	328	260	560	621	478	357	875	294	345	218
7	161	149	510	270	495	566	666	365	1,050	318	309	210
8	151	281	330	260	445	620	1,490	438	568	268	320	230
9	146	261	270	280	424	646	883	962	642	284	294	193
10	162	216	250	260	376	550	691	588	643	298	258	280
11	142	149	230	260	363	549	584	580	494	333	266	246
12	138	168	280	266	327	1,060	526	488	438	297	271	208
13	144	188	260	217	338	730	489	433	422	277	273	183
14	133	680	250	228	362	560	467	389	405	268	275	635
15	142	462	2,300	245	501	484	413	368	544	565	354	373
16	121	286	1,800	257	413	684	423	356	1,720	521	318	267
17	184	263	700	252	356	3,600	419	355	623	244	256	257
18	126	202	500	257	341	2,400	418	333	474	244	272	208
19	132	206	450	259	319	855	407	326	420	266	265	252
20	165	434	360	256	356	676	398	314	416	266	273	222
21	134	326	400	242	286	607	383	316	406	274	255	191
22	126	266	1,100	864	292	610	373	341	426	221	250	210
23	145	226	780	962	313	505	372	289	548	250	235	211
24	202	238	560	554	253	460	370	472	447	291	215	246
25	112	232	450	435	275	485	391	409	388	245	236	191
26	151	326	390	380	286	1,110	436	330	362	256	230	220
27	188	292	360	774	430	836	594	565	338	382	221	199
28	210	255	300	665	385	631	579	5,050	380	322	220	176
29	256	203	270	560	-----	541	469	5,470	416	243	232	205
30	204	252	270	465	-----	561	424	1,050	350	249	226	203
31	188	-----	250	408	-----	683	-----	698	-----	280	179	-----
TOTAL	5,265	7,536	14,969	11,456	17,786	23,892	17,764	23,574	16,123	9,585	9,131	7,143
MEAN	170	251	483	370	635	771	592	760	537	309	295	238
MAX	308	680	2,300	962	3,700	3,600	1,730	5,470	1,720	565	708	635
MIN	112	149	188	217	253	287	370	289	338	221	179	176
CFSM	.81	1.19	2.29	1.75	3.01	3.65	2.81	3.60	2.55	1.46	1.40	1.13
IN.	.93	1.33	2.64	2.02	3.14	4.21	3.13	4.16	2.84	1.69	1.61	1.26

CAL YR 1972 TOTAL 112,081 MEAN 306 MAX 3,170 MIN 70 CFSM 1.45 IN 19.76
WTR YR 1973 TOTAL 164,224 MEAN 450 MAX 5,470 MIN 112 CFSM 2.13 IN 28.95

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-3	0330	7.42	5,010	5-28	2400	10.00	7,600
3-17	2300	6.70	4,360				

SANTÉE RIVER BASIN

143

02151500 Broad River near Boiling Springs, N. C.

LOCATION.--Lat 35°12'39", long 81°41'52", Cleveland County, on right bank 0.5 mile upstream from Sandy Run Creek and bridge on Secondary Road 1186, 3 miles downstream from Second Broad River, and 3.5 miles southwest of Boiling Springs.

DRAINAGE AREA.--864 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 639.92 ft above mean sea level (Duke Power Co. bench mark). Prior to July 20, 1934, at site 500 ft upstream at datum 1 ft higher.

AVERAGE DISCHARGE.--48 years, 1,462 cfs (22.98 inches per year).

EXTREMES.--Current year: Maximum discharge, 22,600 cfs May 28 (gage height, 13.12 ft); minimum, 428 cfs Oct. 16 (gage height, 1.71 ft); minimum daily, 620 cfs Oct. 16.

Period of record: Maximum discharge, 73,300 cfs Aug. 16, 1928 (gage height, 24.3 ft, former site, present datum); minimum, 40 cfs Oct. 17, 1954 (gage height, 1.02 ft); minimum daily, 105 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,830	919	1,550	1,730	2,030	1,530	8,210	2,660	3,400	2,080	1,470	872
2	1,210	882	1,460	1,410	15,800	1,510	5,000	2,520	3,050	2,270	2,250	798
3	1,350	911	1,140	1,440	11,500	2,010	3,970	2,490	2,780	1,840	1,660	977
4	1,080	946	937	2,120	5,110	2,560	3,790	2,270	2,050	1,920	2,190	1,020
5	1,470	827	1,210	1,740	4,200	2,460	3,510	1,970	2,550	1,920	1,770	1,240
6	2,820	846	1,790	1,550	3,690	3,000	2,800	2,130	4,250	1,960	1,540	1,110
7	1,600	857	2,480	1,770	3,170	2,960	3,690	2,310	5,080	1,650	1,550	1,160
8	1,210	1,360	2,150	1,410	3,330	3,760	6,580	1,960	2,820	1,410	1,610	1,110
9	1,210	1,400	1,620	1,710	2,840	2,890	4,620	4,500	4,750	1,560	1,320	1,020
10	1,130	1,280	1,340	1,690	2,530	2,830	4,070	3,500	4,250	1,790	1,370	1,360
11	891	968	1,430	1,630	2,370	2,990	3,480	3,350	2,920	1,730	1,350	1,500
12	964	970	1,730	1,510	1,850	4,960	2,960	3,050	2,300	1,630	1,330	1,240
13	888	949	1,410	1,420	1,850	3,630	2,740	2,430	2,140	1,500	1,350	1,010
14	874	3,100	1,350	1,080	2,540	3,030	2,800	2,000	2,720	1,520	1,550	3,420
15	764	2,640	8,350	1,190	3,220	2,890	2,620	2,230	2,610	2,730	1,860	2,130
16	620	1,600	7,510	1,490	2,390	3,290	2,540	2,280	4,280	2,560	1,740	1,330
17	1,010	1,320	3,910	1,480	1,960	15,200	2,690	1,950	2,890	1,520	1,260	1,180
18	848	1,170	2,850	1,510	1,850	10,200	2,540	1,750	2,640	1,840	1,350	1,170
19	855	1,110	2,460	1,630	2,090	5,100	2,520	2,040	2,590	1,520	1,460	1,110
20	885	2,280	2,040	1,510	1,870	4,320	2,610	1,780	2,530	1,470	1,190	1,120
21	844	2,070	2,170	1,120	2,010	4,010	2,340	2,030	1,990	1,560	1,460	1,020
22	832	1,860	5,370	3,240	1,740	3,980	1,950	1,810	2,490	1,400	1,320	1,030
23	859	1,350	4,050	4,200	1,690	3,270	2,320	1,700	2,680	1,380	1,140	1,040
24	934	1,240	3,180	3,040	1,620	2,970	2,370	2,330	2,260	1,490	1,150	953
25	843	1,280	2,550	2,080	1,610	3,030	2,220	2,540	2,110	1,470	1,180	1,070
26	875	1,800	2,080	1,960	1,550	5,340	2,400	1,930	1,810	1,550	1,160	1,020
27	808	1,670	2,020	3,710	2,200	4,070	3,120	2,640	1,790	2,080	1,140	985
28	1,070	1,410	1,800	3,680	1,890	3,340	3,380	17,100	2,350	1,860	1,430	1,240
29	1,270	1,310	1,790	2,920	-----	2,850	3,010	15,800	2,270	1,390	1,390	1,060
30	949	1,350	1,640	2,560	-----	3,300	2,130	5,400	2,010	1,420	1,010	955
31	933	-----	1,400	2,400	-----	3,480	-----	4,230	-----	1,260	898	-----
TOTAL	33,726	41,675	76,767	61,930	90,540	120,760	99,080	106,680	84,360	53,330	44,448	36,250
MEAN	1,088	1,389	2,476	1,998	3,234	3,895	3,303	3,441	2,812	1,720	1,434	1,208
MAX	2,820	3,100	8,350	4,200	15,800	15,200	8,210	17,100	5,080	2,730	2,250	3,420
MTN	620	827	937	1,080	1,550	1,510	1,950	1,700	1,790	1,260	898	798
CFSM	1,26	1,61	2,87	2,31	3,74	4,51	3,82	3,98	3,25	1,99	1,66	1,40
TN.	1.45	1.79	3.31	2.67	3.90	5.20	4.27	4.59	3.63	2.30	1.91	1.56

CAL YR 1972 TOTAL 639,766 MEAN 1,748 MAX 18,800 MIN 620 CFSM 2.02 TN 27.55
WTR YR 1973 TOTAL 849,546 MEAN 2,328 MAX 17,100 MIN 620 CFSM 2.69 TN 36.59

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1800	8.80	12,900	4- 1	0630	7.97	11,100
2- 2	1700	11.40	18,600	5-28	2030	13.12	22,600
3-17	1230	10.40	16,300				

SANTÉE RIVER BASIN

02152100 First Broad River near Casar, N. C.

LOCATION.--Lat 35°29'35", long 81°40'56", Cleveland County, on right bank 570 ft upstream from bridge on Secondary Road 1530, 0.5 mile upstream from No Business Creek, and 4.0 miles southwest of Casar.

DRAINAGE AREA.--59.5 sq mi.

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 (from topographic map).

AVERAGE DISCHARGE.--14 years, 90.9 cfs (20.75 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,460 cfs May 28 (gage height, 10.76 ft); minimum, 35 cfs Oct. 16; minimum gage height, 1.08 ft Sept. 26, 27.

Period of record: Maximum discharge, 6,580 cfs Aug. 10, 1970 (gage height, 15.22 ft); minimum, 17 cfs July 20, 1970 (gage height, 0.97 ft).

Flood of 1916 and August 1940 reached a stage of about 25 ft, from information by local resident.

A discharge of 14.5 cfs was measured on Sept. 21, 1955.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	43	55	59	111	77	394	105	137	79	66	50
2	41	41	50	57	1,580	76	247	99	124	81	106	49
3	39	45	48	60	362	133	175	110	114	82	161	48
4	38	43	47	77	196	124	160	100	107	77	153	49
5	63	41	47	67	150	192	136	92	102	74	89	58
6	56	40	157	67	133	179	121	88	151	71	79	53
7	43	42	115	63	116	171	209	87	163	70	72	50
8	40	88	79	70	113	198	348	300	122	70	68	49
9	38	56	69	64	118	183	205	285	124	69	65	50
10	36	47	63	60	97	147	167	167	152	67	62	65
11	37	44	62	59	92	160	141	152	113	67	62	54
12	38	43	62	58	88	290	129	122	106	66	59	50
13	38	43	59	57	86	181	119	108	101	63	60	51
14	38	208	58	66	113	145	113	99	122	65	61	156
15	37	80	625	58	126	135	109	94	135	156	68	68
16	36	59	269	64	107	271	106	90	143	85	58	58
17	42	53	125	65	96	1,190	110	88	114	72	57	56
18	40	49	93	68	91	302	106	85	100	69	63	55
19	41	56	81	77	88	192	106	83	94	68	58	53
20	40	105	73	73	85	156	97	85	95	67	58	52
21	39	67	142	66	82	143	94	81	97	65	62	52
22	39	57	289	373	79	133	93	77	124	63	56	51
23	40	52	156	202	79	116	93	79	113	63	55	52
24	44	49	114	124	76	109	92	116	93	86	55	52
25	41	58	95	98	73	131	105	87	86	73	54	51
26	40	87	85	94	74	285	104	80	84	76	53	51
27	41	66	76	227	96	210	303	159	82	97	52	50
28	89	58	69	156	82	158	171	1,880	93	76	51	52
29	52	53	64	129	-----	139	129	419	84	65	51	51
30	45	56	61	105	-----	135	113	213	78	62	51	58
31	43	-----	61	93	-----	173	-----	161	-----	63	50	-----
TOTAL	1,364	1,829	3,449	2,954	4,589	6,234	4,595	5,791	3,353	2,307	2,115	1,694
MEAN	44.0	61.0	111	95.3	164	201	153	187	112	74.4	68.2	56.5
MAX	89	208	625	373	1,580	1,190	394	1,880	163	156	161	156
MIN	36	40	47	57	73	76	92	77	78	62	50	48
CFSM	.74	1.03	1.87	1.60	2.76	3.38	2.57	3.14	1.88	1.25	1.15	.95
IN.	.45	1.14	2.16	1.85	2.87	3.90	2.87	3.62	2.10	1.44	1.32	1.06

CAL YR 1972 TOTAL 31,402 MEAN 85.8 MAX 1,030 MIN 33 CFSM 1.44 IN 19.63
WTR YR 1973 TOTAL 40,274 MEAN 110 MAX 1,880 MIN 36 CFSM 1.85 IN 25.18

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1400	6.17	1,390	3-17	0330	8.73	2,390
2- 2	0500	9.75	2,880	5-28	1230	10.76	3,460

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 mile upstream from mouth, and 2.8 miles east of Boiling Springs.

DRAINAGE AREA.--1.49 sq mi.

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 above mean sea level. June 10, 1953 to May 31, 1968, crest-stage gage on left bank 31 ft upstream from culvert entrance at datum 16.37 ft higher.

AVERAGE DISCHARGE.--5 years, 2.52 cfs (22.97 inches per year).

EXTREMES.--Current year: Maximum discharge, 466 cfs Dec. 15 (gage height, 5.03 ft), from rating curve extended as explained below; minimum daily, 0.66 cfs Sept. 2.
Period of record: Maximum discharge, 1,110 cfs Oct. 16, 1971 (gage height, 6.58 ft), from rating curve extended above 120 cfs on basis of computation of peak flow through culvert; minimum, 0.19 cfs Sept. 7, 1968 (gage height, 0.95 ft).

REMARKS.--Records fair. Some diurnal fluctuation at low flow during growing season. Recording rain gage located at station.

REVISIONS (WATER YEARS).--WRD N. C. 1970: 1968(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	.81	1.3	1.7	2.3	2.0	23	1.9	2.0	1.8	1.2	.68
2	.90	.81	1.3	1.6	65	1.9	4.5	1.9	1.9	1.8	1.2	.66
3	.80	.87	1.2	1.7	5.5	7.4	3.4	2.1	1.8	1.7	1.2	.67
4	.80	.82	1.2	1.9	3.0	3.5	3.1	2.0	1.7	1.7	8.0	.72
5	1.3	.78	1.2	1.7	2.6	3.2	2.7	1.8	1.6	1.7	2.0	.71
6	.92	.78	5.0	2.0	2.5	2.7	2.6	1.8	2.4	1.6	1.5	.69
7	.83	1.0	2.0	1.8	2.4	2.7	28	1.8	1.9	1.6	1.3	.70
8	.78	1.5	1.7	1.9	2.5	4.0	8.0	2.8	1.7	1.5	1.2	.70
9	.77	.92	1.6	1.8	2.4	27	4.1	2.1	20	1.6	1.1	.70
10	.73	.89	1.6	1.8	2.3	4.2	3.2	2.0	3.9	1.5	1.1	.70
11	.75	.89	1.6	1.9	2.1	3.1	2.8	2.0	2.5	1.8	1.1	.75
12	.76	.85	1.5	1.9	2.1	19	2.7	1.9	2.3	1.6	1.2	.75
13	.78	.86	1.5	1.8	2.0	6.0	2.6	1.7	2.1	1.5	1.0	.80
14	.77	13	1.5	1.8	3.1	3.0	2.6	1.7	2.0	1.4	1.6	8.0
15	.72	1.7	61	1.9	2.5	2.7	2.5	1.7	39	1.7	1.0	2.0
16	.72	1.3	4.9	1.8	2.3	22	2.5	1.6	9.7	1.5	.95	1.1
17	.73	1.2	2.6	1.8	2.2	28	2.4	1.6	6.8	1.5	.95	.90
18	.72	1.1	2.3	1.8	2.1	4.4	2.4	1.5	3.5	1.4	.95	.80
19	.77	5.0	2.1	1.9	2.1	3.4	2.4	1.5	2.7	1.4	1.0	.75
20	.75	2.5	1.9	1.8	2.0	2.9	2.3	1.5	2.5	1.3	.90	.75
21	.75	1.6	14	1.7	2.0	5.1	2.3	1.5	2.4	1.3	1.0	.70
22	.75	1.4	6.3	17	2.0	3.2	2.2	1.4	6.7	1.3	.90	.70
23	.78	1.3	3.6	3.3	1.9	2.8	2.2	1.5	2.6	1.3	.90	.70
24	.83	1.2	2.6	2.5	1.9	2.7	2.2	2.7	2.3	8.9	.80	.70
25	.77	3.1	2.4	2.3	1.9	4.2	2.2	1.8	2.1	2.0	.80	.70
26	.75	2.6	2.2	3.9	1.9	3.2	2.2	1.6	2.0	3.6	.75	.70
27	.94	1.7	2.0	8.4	2.7	2.7	3.2	2.1	1.9	2.4	.75	.70
28	1.1	1.5	1.9	2.8	2.1	2.6	2.5	67	2.2	1.6	.70	.69
29	.85	1.4	1.8	2.6	-----	2.9	2.1	4.1	1.9	1.4	.70	.69
30	.81	1.4	1.7	2.3	-----	4.2	2.0	2.5	1.9	1.3	.70	.69
31	.82	-----	1.7	2.2	-----	23	-----	2.2	-----	1.3	.69	-----
TOTAL	25.45	54.78	139.2	85.3	129.4	209.7	130.9	125.3	138.0	58.0	38.54	30.50
MEAN	.82	1.83	4.49	2.75	4.62	6.76	4.36	4.04	4.60	1.87	1.24	1.02
MAX	1.3	13	61	17	65	28	28	67	39	8.9	8.0	8.0
MIN	.72	.78	1.2	1.6	1.9	1.9	2.0	1.4	1.6	1.3	.69	.66
CFSM	.55	1.23	3.01	1.85	3.10	4.54	2.93	2.71	3.09	1.26	.83	.68
IN.	.64	1.37	3.48	2.13	3.23	5.24	3.27	3.13	3.45	1.45	.96	.76

CAL YR 1972 TOTAL 914.34 MEAN 2.50 MAX 61 MIN .64 CFSM 1.68 IN 22.83
WTR YR 1973 TOTAL 1,165.07 MEAN 3.19 MAX 67 MIN .66 CFSM 2.14 IN 29.09

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	0725	5.03	466	5-28	0140	4.71	414
2- 2	0435	3.45	228	6- 9	1435	3.64	253
3- 8	Unknown	2.95	158	6-15	1830	4.92	447
3-17	0055	3.13	183				

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 sq mi), lat 36°40' 36", long 80°23'51", Patrick County, Va., 4.5 miles northeast of Kibler. Townes Dam (drainage area, 32.9 sq mi), lat 36°41'11", long 80°25'49", Patrick County, Va., 4 miles 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 cu ft and Townes Reservoir, 60,000,000 cu ft. 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 mile northwest of dam on Hyco River, 1.1 miles southwest of McGehees Mill and 8 miles northwest of Roxboro. Drainage area 189 sq mi. 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 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 gage height) Mar. 19, 1965. Total capacity at top of spillway is 3,288,000,000 cu ft. Lake cannot be drawn below -0.03 ft (bottom of gated flume). (See sta 02077300)

02079964 LAKE GASTON.--Lat 36°30'04", long 77°48'43", Halifax County, at Gaston Dam on Roanoke River, 0.2 mile upstream from Black Gut Creek, and 2.7 miles northwest of Thelma. Drainage area, 8,339 sq mi. 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 cu ft. Usable capacity is 20,127,000,000 cu ft between elevations 165 ft and 203 ft (top of spillway gates) of which 2,788,000,000 cu ft between elevations 200 ft and 203 ft is reserved for flood control. Storage for power generation is 10,673,000,000 cu ft between elevations 185 ft and 200 ft. 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 miles upstream from bridge on State Highway 48, and 2.2 miles north of Roanoke Rapids. Drainage area, 8,395 sq mi. 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 cu ft at normal highwater elevation of 132.0 ft and 3,515,290,000 cu ft at elevation 132.75 ft (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 miles southeast of Bahama, and 5 miles upstream from confluence with Eno River. Drainage area, 170 sq mi, 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 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 cu ft between elevations (gage datum) 300.0 ft and 341 ft (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 mile upstream from Fish Trap Creek, 2.0 miles upstream from Millers Creek, and 4.0 miles west of Wilkesboro. Drainage area, 350 sq mi, 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 cu ft of which 6,316,200,000 cu ft 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 mile northwest of High Rock, 2 miles upstream from Lick Creek, and 256 miles upstream from mouth of Pee Dee River in Winyah Bay. Drainage area, 4,000 sq mi, 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 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 cu ft and usable capacity is 10,230,000,000 cu ft between elevations 625 ft and 655 ft 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 miles upstream from Garr Creek, 3.8 miles northeast of New London, and 250 miles upstream from mouth of Pee Dee River in Winyah Bay. Drainage area, 4,120 sq mi, approximately. Records available April 1962 to current year. Gage, remote water-stage recorder in powerhouse. Datum of gage is 30.9 ft below mean sea level.

Lake, used for hydroelectric power development, was first filled Apr. 6, 1962. Total capacity is 1,852,400,000 cu ft and usable capacity is 293,800,000 cu ft between elevations 593 ft and 596 ft gage datum. Records furnished by Yadkin, Inc. (See sta 02129000)

02122844 BADIN LAKE.--Lat 35°25'10", long 80°05'34", Stanly County, at Badin Dam on Yadkin River, 1.5 miles northeast of Badin, 2.5 miles upstream from Falls Dam, and 242 miles upstream from mouth of Pee Dee River in Winyah Bay. Drainage area, 4,180 sq mi, 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 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 cu ft and usable capacity is 5,616,584,000 cu ft between elevations 510.00 ft and 541.10 ft. 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

- 02123736 LAKE TILLERY.--Lat 35°12'24", long 80°03'57", Stanly County, at Norwood Dam on Pee Dee River, 700 ft upstream from Norfolk Southern Railroad bridge, 3.5 miles southeast of Norwood, 5 miles upstream from Rocky River, and 224 miles upstream from mouth in Winyah Bay. Drainage area, 4,600 sq mi, 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 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 cu ft and usable capacity is 5,927,040,000 cu ft between elevations 200.5 ft and 239.5 ft 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 miles upstream from Cartledge Creek, 6.5 miles northwest of Rockingham, and 195 miles upstream from mouth in Wonyah Bay. Drainage area, 6,830 sq mi, 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 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 cu ft and usable capacity is 1,850,000,000 cu ft between elevations 120.0 ft and 139.0 ft 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 miles northeast of Bridgewater and 279 miles upstream from mouth of Wateree River. Drainage area, 380 sq mi, 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 (60 ft, gage datum) and lake becomes two separate reservoirs. Datum of gage is 1,100.00 ft 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 gage datum (crest of spillway) is 12,581,800,000 cu ft and usable capacity is 7,943,700,000 cu ft between elevations (gage datum) 65 ft and 100 ft. 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 mile west of Rhodhiss, 1.8 miles south of Granite Falls, and 243 miles upstream from mouth of Wateree River. Drainage area, 1,090 sq mi, 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 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 cu ft and usable capacity is 1,717,000,000 cu ft between elevations (gage datum) 85.0 ft and 100.0 ft (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 miles upstream from Lower Little River, 7 miles south of Taylorsville, and 226 miles upstream from mouth of Wateree River. Drainage area, 1,310 sq mi, 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 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 cu ft. Sept. 30, 1935 to Sept. 30, 1957, the usable capacity considered as 2,277,970,200 cu ft between elevations (gage datum) 85.0 ft and 100.0 ft (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 cu ft between elevations 75.0 ft and 100.0 ft (top of flood gates) from Oct. 1, 1964 to present, usable capacity considered as 2,277,800,000 cu ft between elevations (gage datum) 85.0 ft and 100.0 ft (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 miles upstream from bridge on U. S. Highways 64 and 70, 4.2 miles north of Catawba, and 216 miles upstream from mouth of Wateree River. Drainage area, 1,450 sq mi, 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 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 cu ft. Capacity has been reduced by silting. Prior to October 1957 the usable capacity considered as 473,980,000 cu ft and October 1957 to Sept. 30, 1964, as 388,300,000 cu ft between elevations (gage datum) 90.0 ft and 100.0 ft (crest of spillway). From Oct. 1, 1964 to present, usable capacity considered as 208,200,000 cu ft between elevations (gage datum) 95.0 ft and 100.0 ft (crest of spillway). Flood of July 16, 1916, washed out an earth dike. Records furnished by Duke Power Co.
- 02142647 LAKE NORMAN.--Lat 35°26'05", long 80°57'28", Mecklenburg County, at Cowans Ford Dam on Catawba River, 0.8 mile upstream from Derr Creek, 7.8 miles southwest of Davidson, and 182 miles upstream from mouth of Wateree River. Drainage area, 1,790 sq mi, 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 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 cu ft and usable capacity is 26,910,400,000 cu ft between elevations (gage datum) 75.0 ft and 100 ft (top of flood gates). Records furnished by Duke Power Co.

Lakes and Reservoirs in South Atlantic Slope basins--Continued

- 02142676 MOUNTAIN ISLAND LAKE.--Lat 35°20'03", long 80°59'12", Gaston County, at Mountain Island Dam on Catawba River, 1.5 miles downstream from bridge on State Highway 16, 3 miles northeast of Mount Holly, and 167 miles upstream from mouth of Wateree River. Drainage area, 1,860 sq mi, 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 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 cu ft. Prior to October 1964 usable capacity was considered 1,132,000,000 cu ft between elevations (gage datum) 90.0 ft and 100.0 ft (crest of spillway) October 1964 to present considered as 845,000,000 cu ft between elevations (gage datum), 93.0 ft and 100.0 ft (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:
- 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 sq mi. Total capacity is 98,900,000 cu ft. 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 sq mi. Total capacity is 13,400,000 cu ft. 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 sq mi, approximately. Total capacity is 267,400,000 cu ft. 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, sq mi, approximately. Total capacity is 133,700,000 cu ft. 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 sq mi, approximately. Total capacity is 107,000,000 cu ft. 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 sq mi, approximately. Total capacity is 294,000,000 cu ft. 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 sq mi. Total capacity is 869,000,000 cu ft. 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 sq mi, approximately. Prior to October 1971 published as "Stony Creek Reservoir". Total capacity is 427,800,000 cu ft. 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 sq mi, approximately. Prior to October 1971 published as "Lake Burlington". Total capacity is 64,900,000 cu ft. 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 miles southwest of Deep River. Drainage area, 32 sq mi, approximately. Total capacity is 468,000,000 cu ft. Dead storage (non-withdrawal) is minor. Total surface area, about 725 acres. 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 sq mi. Total capacity is 220,588,000 cu ft. Dam completed in 1926 and reservoir first filled in 1927. (See sta 02099500)
- 02102178 BUCKHORN RESERVOIR.--Lat 35°31'35", long 78°59'22", Chatham County, on Cape Fear River near Corinth. Drainage area, 3,200 sq mi, approximately. Usable capacity is 69,700,000 cu ft. 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 sq mi. Total capacity is 284,100,000 cu ft of which 281,400,000 cu ft 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", Transylvania County, recreation lake on Toxaway River at town of Lake Toxaway. Drainage area, 7.79 sq mi. Total surface area, about 640 acres. Lake reached spillway elevation September 1961.

Lakes and Reservoirs in South Atlantic Slope basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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 Talbott & Townes Reservoirs		02067820		02077280 Hyco Lake		02079964 Lake Gaston		02080100 Roanoke Rapids Lake			
Sept. 30.....		339.7	-	9.93	3,282	-	199.90	19,514	-	128.7	2,744	-
Oct. 31.....		365.7	+26.0	10.48	3,367	+85	199.30	18,992	-522	126.6	2,395	-349
Nov. 30.....		357.9	-7.8	10.78	3,414	+47	199.49	19,157	+165	130.8	3,122	+727
Dec. 31.....		365.7	+7.8	10.75	3,410	-4	200.15	19,732	+575	129.8	2,935	-187
CAL YR 1972		-	+6.5	-	-	+35	-	-	+209	-	-	-468
Jan. 31.....		372.2	+6.5	10.43	3,360	-50	200.35	19,906	+174	131.4	3,234	+299
Feb. 29.....		352.7	-19.5	10.62	3,389	+29	199.37	19,053	-853	129.8	2,935	-299
Mar. 31.....		365.7	+13.0	10.81	3,418	+29	198.68	18,438	-615	131.5	3,252	+317
Apr. 30.....		373.6	+7.9	10.36	3,349	-69	200.60	20,125	+1,687	128.6	2,729	-523
May 31.....		384.3	+10.7	9.74	3,250	-99	200.19	19,767	-358	131.7	3,295	+566
June 30.....		369.9	-14.4	9.60	3,228	-22	200.04	19,637	-130	130.3	3,026	-269
July 31.....		356.9	-13.0	9.29	3,177	-51	199.47	19,140	-497	129.3	2,844	-182
Aug. 31.....		328.2	-28.7	10.08	3,305	+128	199.34	19,027	-113	128.4	2,697	-147
Sept. 30.....		358.3	+30.1	8.91	3,115	-190	199.35	19,036	+9	131.5	3,252	+555
WTR YR 1973		-	+18.6	-	-	-167	-	-	-478	-	-	+508

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 (feet)	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.....	340.31	603	-	1029.25	1,737	-	649.08	7,616	-	595.22	1,772	-
Oct. 31.....	341.00	618	+15	1026.50	1,574	-163	646.06	6,156	-1,460	595.36	1,786	+14
Nov. 30.....	340.64	609	-9	1029.75	1,769	+195	648.00	7,060	+904	595.37	1,787	+1
Dec. 31.....	341.35	627	+18	1033.00	2,004	+235	653.14	9,880	+2,820	595.39	1,789	+2
CAL YR 1972	-	-	+5	-	-	+7	-	-	+2,770	-	-	-6
Jan. 31.....	341.38	627	0	1033.00	2,004	0	654.92	11,018	+1,138	594.85	1,733	-56
Feb. 29.....	341.68	634	+7	1033.00	2,004	0	649.66	7,933	-3,085	595.13	1,762	+29
Mar. 31.....	342.48	653	+19	1033.00	2,020	+16	655.00	11,090	+3,157	595.37	1,787	+25
Apr. 30.....	341.35	627	-26	1033.50	2,043	+23	655.00	11,090	0	595.36	1,786	-1
May 31.....	341.12	620	-7	1033.40	2,035	-8	655.00	11,090	0	595.12	1,761	-25
June 30.....	341.34	625	+5	1033.00	2,004	-31	654.30	10,619	-417	594.04	1,656	-105
July 31.....	341.81	636	+11	1033.00	2,004	0	654.00	10,427	-192	595.20	1,769	+113
Aug. 31.....	339.94	594	-42	1033.00	2,004	0	652.21	9,336	-1,091	595.25	1,775	+6
Sept. 30.....	336.59	527	-67	1030.10	1,795	-209	651.09	8,700	-636	595.11	1,760	-15
WTR YR 1973	-	-	-76	-	-	+58	-	-	+1,084	-	-	-12

Lakes and Reservoirs in South Atlantic Slope basin--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.....	539.80	10,194	-	239.2	5,859	-	135.5	1,490	-	89.8	9,933	-
Oct. 31.....	539.36	10,101	-93	239.0	5,815	-44	136.8	1,620	+130	89.0	9,745	-188
Nov. 30.....	539.05	10,007	-94	238.8	5,772	-43	138.8	1,829	+209	88.0	9,513	-232
Dec. 31.....	540.76	10,427	+420	238.8	5,772	0	136.0	1,540	-289	94.2	11,018	+1,505
CAL YR 1972	-	-	+303	-	-	-22	-	-	+50	-	-	+1,013
Jan. 31.....	540.75	10,427	0	238.9	5,794	+22	138.6	1,808	+268	95.2	11,277	+259
Feb. 29.....	540.35	10,334	-93	238.8	5,772	-22	139.8	1,930	+122	94.8	11,173	-104
Mar. 31.....	541.07	10,498	+164	239.4	5,903	+131	141.6	2,110	+180	99.4	12,413	+1,240
Apr. 30.....	540.98	10,474	-24	238.9	5,794	-109	141.0	2,050	-60	99.8	12,525	+112
May 31.....	541.09	10,498	+24	238.7	5,750	-44	139.8	1,930	-120	100.5	12,582	+57
June 30.....	540.51	10,357	-141	239.1	5,837	+87	140.1	1,960	+30	99.0	12,301	-281
July 21.....	540.59	10,381	+24	239.3	5,881	+44	137.1	1,650	-310	96.4	11,593	-708
Aug. 31.....	540.33	10,311	-70	239.2	5,859	-22	137.3	1,672	+22	95.7	11,408	-185
Sept. 30.....	540.50	10,357	+46	239.0	5,815	-44	138.3	1,776	+104	88.7	9,675	-1,733
WTR YR 1973	-	-	+163	-	-	-44	-	-	+286	-	-	-258
	02141490 Rhodhiss Lake			02141961 Lake Hickory			02142441 Lookout Shoals Lake			02142647 Lake Norman		
Sept. 30.....	97.5	1,353	-	96.7	1,708	-	97.5	100	-	95.1	41,010	-
Oct. 31.....	98.0	1,423	+70	96.3	1,641	-67	97.1	83.9	-16.1	93.3	38,770	-2,240
Nov. 30.....	95.6	1,098	-325	96.3	1,641	0	96.4	55.3	-28.6	91.3	36,380	-2,390
Dec. 31.....	98.2	1,451	+353	96.3	1,641	0	98.5	143	+87.7	94.3	40,000	+3,620
CAL YR 1972	-	-	+42	-	-	-303	-	-	+30	-	-	-4,820
Jan. 31.....	96.5	1,216	-235	96.8	1,724	+83	97.9	117	-26	96.0	42,160	+2,160
Feb. 29.....	98.5	1,494	+278	97.3	1,808	+84	97.9	117	0	98.4	45,370	+3,210
Mar. 31.....	98.5	1,494	0	99.3	2,153	+345	100.8	244	+127	99.4	46,750	+1,380
Apr. 30.....	100.0	1,717	+223	100.0	2,278	+125	100.0	208	-36	99.4	46,750	0
May 31.....	100.0	1,717	0	99.9	2,260	-18	100.5	231	+23	100.0	47,590	+840
June 30.....	98.0	1,423	-294	97.5	1,842	-418	98.1	126	-105	99.5	46,890	-700
July 31.....	96.8	1,257	-166	98.1	1,944	+102	97.7	109	-17	97.7	44,420	-2,470
Aug. 31.....	96.7	1,243	-14	96.3	1,641	-303	98.0	121	+12	97.0	43,470	-950
Sept. 30.....	97.2	1,311	+68	96.1	1,608	-33	98.1	126	+5	94.8	40,630	-2,840
WTR YR 1973	-	-	-42	-	-	-100	-	-	+26	-	-	-380
	02142676 Mountain Island Lake											
Sept. 30.....	96.0	330	-									
Oct. 31.....	95.6	284	-46									
Nov. 30.....	97.5	512	+228									
Dec. 31.....	96.1	342	-170									
CAL YR 1972	-	-	+46									
Jan. 31.....	95.8	307	-35									
Feb. 29.....	95.5	272	-35									
Mar. 31.....	95.8	307	+35									
Apr. 30.....	96.9	438	+131									
May 31.....	99.0	705	+267									
June 30.....	95.7	296	-409									
July 31.....	96.3	366	+70									
Aug. 31.....	95.8	307	-59									
Sept. 30.....	95.7	296	-11									
WTR YR 1973	-	-	-34									

OHIO RIVER BASIN

151

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 upstream from bridge on State Highways 16 and 88, 0.2 mile downstream from Bear Creek, and 4 miles southeast of Jefferson.

DRAINAGE AREA.--207 sq mi.

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 above mean sea level, unadjusted. Prior to Oct. 14, 1934, nonrecording gage on bridge 400 ft downstream at same datum. Oct. 14, 1934 to Mar. 25, 1935, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--49 years, 416 cfs (27.29 inches per year).

EXTREMES.--Current year: Maximum discharge, 10,500 cfs May 28 (gage height, 9.87 ft); minimum, 190 cfs Oct. 16 (gage height, 2.05 ft).

Period of record: Maximum discharge, 52,800 cfs Aug. 14, 1940 (gage height, 22.50 ft) from rating curve extended above 5,100 cfs on basis of slope-area measurement of peak flow; minimum, 52 cfs Dec. 24, 1943, result of freezeup; minimum daily, 65 cfs Sept. 9, 1925.

Flood of July 15, 1916 reached a stage of 18.0 ft, from floodmarks, witnessed by local resident (discharge, 35,200 cfs).

REMARKS.--Records good. Slight diurnal fluctuation at low flow in the growing season. Water quality records for the current year are published in Part 2 of this report.

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	326	242	344	380	515	375	1,000	877	1,030	448	406	277
2	242	233	325	353	3,130	363	869	794	917	431	481	271
3	214	239	309	348	1,820	451	778	781	852	437	535	266
4	208	236	302	454	1,100	517	749	793	807	426	867	271
5	475	217	297	457	855	914	724	690	739	411	772	364
6	535	211	388	388	764	925	669	652	724	395	781	287
7	296	221	490	367	761	834	694	632	747	378	509	272
8	246	529	378	370	682	753	981	726	733	375	466	266
9	224	395	377	360	658	724	810	911	661	373	460	279
10	211	296	420	340	586	679	798	723	627	391	495	346
11	208	272	432	320	538	700	727	792	603	459	513	339
12	208	252	431	270	524	909	690	715	588	386	426	282
13	205	239	406	250	500	743	659	648	607	351	371	269
14	202	595	387	270	513	659	625	612	583	342	362	710
15	199	546	606	320	599	619	603	591	569	360	503	726
16	193	359	892	340	526	1,640	580	566	689	424	402	392
17	202	315	565	330	449	6,270	633	558	603	437	352	328
18	221	289	484	340	454	2,650	710	549	624	369	493	312
19	246	311	479	436	511	1,500	678	523	707	354	506	310
20	258	661	434	598	451	1,200	655	518	602	365	378	291
21	221	486	458	416	416	1,150	612	509	576	382	364	280
22	208	395	923	902	405	1,100	582	484	646	341	350	276
23	202	364	720	959	395	913	562	501	552	321	335	273
24	211	334	584	629	383	827	550	645	501	363	323	266
25	208	334	539	519	374	832	553	772	476	388	322	279
26	199	484	494	471	372	1,020	623	575	458	543	315	284
27	199	437	456	994	407	861	3,050	653	471	619	303	265
28	444	371	422	802	405	775	2,230	8,700	539	441	295	268
29	465	348	398	680	-----	747	1,280	3,330	638	353	290	267
30	286	338	383	560	-----	860	1,010	1,570	490	324	285	275
31	252	-----	383	535	-----	845	-----	1,210	-----	321	283	-----
TOTAL	8,014	10,549	14,506	14,758	19,093	33,355	25,684	32,600	19,359	12,308	13,543	9,591
MEAN	259	352	468	476	682	1,076	856	1,052	645	397	437	320
MAX	535	661	923	994	3,130	6,270	3,050	8,700	1,030	619	867	726
MIN	193	211	297	250	372	363	550	484	458	321	283	265
CFSM	1.25	1.70	2.26	2.30	3.29	5.20	4.14	5.08	3.12	1.92	2.11	1.55
IN.	1.44	1.90	2.61	2.65	3.43	5.99	4.62	5.86	3.48	2.21	2.43	1.72

CAL YR 1972 TOTAL 171,585 MEAN 469 MAX 5,800 MIN 181 CFSM 2.27 IN 30.84
WTR YR 1973 TOTAL 213,360 MEAN 585 MAX 8,700 MIN 193 CFSM 2.83 IN 38.34

PEAK DISCHARGE (BASE, 2,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-2	1830	6.45	4,010	4-27	1700	6.71	4,400
3-17	0800	8.49	7,420	5-28	1800	9.87	10,500

TENNESSEE RIVER BASIN

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 mile upstream from East Fork, and at mile 216.4.

DRAINAGE AREA.--67.9 sq mi.

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 above mean sea level. Prior to June 30, 1909, nonrecording gage at site 500 ft downstream at different datum. Jan. 1, 1936, to July 6, 1937, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--39 years (1907-8, 1935-73), 236 cfs (47.20 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,140 cfs May 28 (gage height, 13.09 ft); minimum, 82 cfs Oct. 16 (gage height, 1.86 ft).

Period of record: Maximum discharge, 13,500 cfs Oct. 4, 1964 (gage height, 14.95 ft); minimum, 23 cfs Jan. 3, 1940 (gage height, 1.51 ft), result of freezeup; minimum daily, 37 cfs Sept. 25-28, Oct. 5, 6, 25, 26, 1954.

Flood of July 1916 reached a stage of 13.9 ft, from floodmarks.

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 1306: 1908(M). WSP 1910: 1936(M), 1938(M), 1939-40, 1942-43.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122	138	226	340	691	261	628	387	524	228	196	104
2	99	135	210	300	2,080	274	526	364	477	220	179	104
3	90	217	200	360	858	496	478	371	440	217	155	100
4	89	156	193	489	675	363	461	339	413	225	146	100
5	346	140	192	378	588	655	420	321	407	208	140	102
6	163	131	474	354	559	474	397	310	419	200	138	103
7	122	268	314	332	503	608	570	301	387	194	156	106
8	106	419	302	327	503	709	594	966	383	206	160	105
9	98	244	290	293	461	564	492	607	372	219	144	114
10	93	204	268	277	428	503	451	474	352	209	142	105
11	90	182	256	269	398	598	416	460	336	196	140	103
12	89	166	248	258	380	620	396	403	324	182	129	98
13	97	162	237	249	365	511	376	372	390	175	124	107
14	93	627	245	245	566	456	359	352	353	193	123	179
15	87	312	965	246	483	493	347	336	337	218	134	107
16	84	255	554	241	419	1,740	338	322	339	184	115	104
17	86	225	406	239	382	1,850	359	313	316	193	175	119
18	105	203	350	242	52	949	387	301	300	185	152	139
19	105	389	318	307	347	767	468	293	310	173	126	107
20	90	435	308	270	334	677	417	312	304	168	120	107
21	88	306	768	255	320	619	374	282	321	163	116	106
22	88	269	737	1,260	310	556	352	272	304	155	111	106
23	98	241	545	551	300	517	339	273	277	196	109	107
24	107	222	462	434	289	486	326	321	263	187	108	107
25	94	274	419	378	280	662	547	275	254	188	107	107
26	92	317	379	458	284	600	495	297	247	244	106	107
27	188	252	347	637	290	520	723	582	252	235	105	107
28	546	234	324	477	269	481	531	3,490	304	179	104	109
29	223	217	305	418	-----	480	459	935	270	161	104	105
30	171	247	293	373	-----	480	417	686	238	150	104	106
31	151	-----	343	350	-----	602	-----	579	-----	149	105	-----
TOTAL	4,100	7,587	11,478	11,607	13,724	19,571	13,443	15,896	10,213	6,000	4,073	3,280
MEAN	132	253	370	374	490	631	448	513	340	194	131	109
MAX	546	627	965	1,260	2,080	1,850	723	3,490	524	244	196	179
MIN	84	131	192	239	269	261	326	272	238	149	104	98
CFSM	1.94	3.73	5.45	5.51	7.22	9.29	6.60	7.56	5.01	2.86	1.93	1.61
IN.	2.25	4.16	6.29	6.36	7.52	10.72	7.36	8.71	5.60	3.29	2.23	1.80

CAL YR 1972 TOTAL 86,040 MEAN 235 MAX 1,260 MIN 84 CFSM 3.46 IN 47.14
WTR YR 1973 TOTAL 120,972 MEAN 331 MAX 3,490 MIN 84 CFSM 4.87 IN 66.28

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1130	6.54	2,000	3-16	2100	10.16	4,430
1-22	0530	8.25	2,970	5-28	0215	13.09	9,140
2-2	0130	9.98	4,250				

TENNESSEE RIVER BASIN

153

03441000 Davidson River near Brevard, N. C.

LOCATION.--Lat 35°16'23", long 82°42'21", Transylvania County, on right bank 150 ft upstream from bridge on State Highway 280, 2.1 miles downstream from Avery Creek, 3.3 miles northeast of Brevard, and at mile 2.2.

DRAINAGE AREA.--40.4 sq mi.

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 above mean sea level (levels by Tennessee Valley Authority). Prior to May 17, 1934, nonrecording gage, at site 50 ft downstream at same datum.

AVERAGE DISCHARGE.--53 years, 128 cfs (43.03 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,550 cfs May 28 (gage height, 10.74 ft); minimum, 42 cfs Oct. 15, 16, 17 (gage height, 0.55 ft).

Period of record: Maximum discharge, 8,400 cfs Aug. 15, 1928 (gage height, 11.8 ft); minimum, 13 cfs Oct. 11, 1954 (gage height, 0.31 ft).

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	70	124	175	380	114	286	194	320	114	166	54
2	50	67	113	152	1,200	128	247	184	286	119	138	53
3	46	96	106	193	465	215	224	186	262	146	116	51
4	45	74	101	280	340	166	218	169	244	136	107	50
5	245	68	99	205	283	354	197	159	241	119	99	54
6	99	64	218	189	271	232	186	151	244	106	99	52
7	69	150	155	176	244	337	289	146	221	101	145	52
8	59	210	156	175	250	405	316	509	244	131	136	57
9	54	121	151	154	221	309	250	320	232	114	114	57
10	51	100	139	143	202	280	227	250	207	101	105	55
11	49	90	130	138	186	330	207	247	194	95	99	50
12	48	82	127	130	176	362	194	210	202	89	93	48
13	53	83	121	125	171	277	184	191	232	86	86	55
14	50	368	119	123	289	241	174	181	197	97	82	103
15	45	170	606	126	238	325	166	171	286	117	79	55
16	44	133	327	122	202	1,340	161	161	256	122	75	50
17	46	115	230	124	181	1,210	179	156	218	113	108	56
18	50	103	196	129	171	601	189	149	197	100	88	71
19	51	213	175	180	164	457	235	144	189	93	76	52
20	45	232	168	149	156	381	213	149	186	95	73	49
21	44	162	410	138	149	341	186	134	194	88	71	47
22	44	140	412	686	142	295	174	130	171	83	67	47
23	51	122	295	310	137	271	164	128	154	121	66	49
24	60	112	246	241	130	250	156	156	142	108	65	46
25	48	153	226	208	128	327	344	128	134	142	63	44
26	46	176	200	248	130	299	268	164	130	179	62	44
27	89	136	181	366	130	256	377	316	130	242	60	50
28	268	125	168	270	119	235	274	1,910	154	139	58	65
29	111	114	156	240	-----	238	232	601	128	113	57	56
30	86	142	149	240	-----	235	210	437	119	101	57	55
31	76	-----	176	230	-----	292	-----	358	-----	96	57	-----
TOTAL	2,183	3,991	6,180	6,365	6,855	11,103	6,727	8,489	6,114	3,606	2,767	1,627
MEAN	70.4	133	199	205	245	358	224	274	204	116	89.3	54.2
MAX	268	368	606	686	1,200	1,340	377	1,910	320	242	166	103
MIN	44	64	99	122	119	114	156	128	119	83	57	44
CFSM	1.74	3.29	4.93	5.07	6.06	8.86	5.54	6.78	5.05	2.87	2.21	1.34
IN.	2.01	3.67	5.69	5.86	6.31	10.22	6.19	7.82	5.63	3.32	2.55	1.50

CAL YR 1972 TOTAL 49,632 MEAN 136 MAX 1,050 MIN 38 CFSM 3.37 IN 45.70
WTR YR 1973 TOTAL 66,007 MEAN 181 MAX 1,910 MIN 44 CFSM 4.48 IN 60.78

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1045	4.11	1,430	3-16	2015	6.37	3,060
1-22	0500	4.53	1,700	5-28	0115	10.74	6,550
2-2	Unknown	5.30	2,230				

TENNESSEE RIVER BASIN

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 upstream from High Falls, 0.2 mile upstream from Grassy Creek, 1.0 mile downstream from Reasonover Creek, 3.8 miles northeast of Cedar Mountain, and at mile 7.8.

DRAINAGE AREA.--26.8 sq mi.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,513.27 ft above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--11 years, 106 cfs (53.71 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 2,160 cfs May 28 (gage height, 4.79 ft); minimum, 22 cfs Oct. 16, 18 (gage height, 1.32 ft).

Period of record: Maximum discharge, 5,600 cfs Oct. 4, 1964 (gage height, 7.30 ft); minimum, 13 cfs Oct. 7, 1970 (gage height, 1.23 ft).

REMARKS.--Records good. E. I. du Pont de Nemours and Company plant 0.5 mile above gage diverted about 0.96 cfs for industrial use. Since 1969, more than 7.82 square miles 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	47	81	120	197	93	470	131	206	101	159	38
2	31	42	73	112	1,070	93	309	131	185	93	111	36
3	52	75	69	123	430	164	242	142	168	85	103	36
4	25	58	64	176	295	131	234	129	155	97	88	36
5	154	49	63	143	242	238	199	115	145	99	81	36
6	62	44	191	140	230	188	178	110	178	81	78	46
7	41	99	142	130	203	196	268	105	174	76	75	44
8	35	245	121	126	196	277	367	430	145	89	75	37
9	30	121	127	107	178	222	255	455	142	84	69	37
10	27	88	115	98	161	181	210	268	139	72	64	37
11	25	74	109	91	152	206	185	222	126	68	62	35
12	26	62	103	86	142	273	171	188	120	64	60	33
13	29	61	103	81	137	199	158	168	145	61	61	35
14	30	180	117	82	222	171	148	152	155	82	63	95
15	26	115	544	81	214	161	139	142	152	137	70	50
16	24	89	369	80	174	322	134	134	118	110	63	41
17	25	77	219	79	155	990	137	126	110	118	94	39
18	28	68	175	78	142	399	134	120	110	92	92	64
19	34	166	150	102	137	291	155	113	103	83	69	44
20	27	281	142	94	131	246	148	118	105	76	63	39
21	25	157	329	85	126	222	134	110	108	70	59	37
22	25	121	456	366	118	206	129	105	129	68	54	36
23	27	99	254	204	115	181	126	101	139	102	53	36
24	35	86	209	154	110	168	118	118	110	117	50	33
25	30	111	189	132	105	250	161	103	98	94	49	33
26	28	147	166	151	101	291	155	115	91	99	48	32
27	49	104	156	296	110	222	259	234	87	179	46	34
28	182	98	139	211	98	188	188	1,470	139	145	43	42
29	87	94	129	169	-----	188	161	502	142	108	42	35
30	61	84	121	148	-----	196	142	291	108	93	41	36
31	51	-----	125	133	-----	255	-----	238	-----	87	40	-----
TOTAL	1,372	3,142	5,350	4,178	5,691	7,408	5,814	6,886	4,032	2,930	2,125	1,212
MEAN	44.3	105	173	135	203	239	194	222	134	94.5	68.5	40.4
MAX	182	281	544	366	1,070	990	470	1,470	206	179	159	95
MIN	24	42	63	78	98	93	118	101	87	61	40	32
CFSM	1.65	3.92	6.46	5.04	7.57	8.92	7.24	8.28	5.00	3.53	2.56	1.51
IN.	1.90	4.36	7.43	5.80	7.90	10.28	8.07	9.56	5.60	4.07	2.95	1.68

CAL YR 1972. TOTAL 34,032 MEAN 93.0 MAX 815 MIN 21 CFSM 3.47 IN 47.24
WTR YR 1973 TOTAL 50,140 MEAN 137 MAX 1,470 MIN 24 CFSM 5.11 IN 69.60

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1830	3.15	765	5- 8	1900	3.06	702
2- 2	0945	3.96	1,370	5-28	1215	4.79	2,160
3-17	0700	3.95	1,360				

TENNESSEE RIVER BASIN

155

03443000 French Broad River at Blantyre, N. C.

LOCATION.--Lat 35°17'56", long 82°37'27", Transylvania County, on left bank 40 ft upstream from bridge on Secondary Road 1503, 700 ft east of railroad at Blantyre, 3.5 miles downstream from Little River, and at mile 183.7.

DRAINAGE AREA.--296 sq mi.

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 above mean sea level (levels by Tennessee Valley Authority). Prior to July 5, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--53 years, 967 cfs (44.36 inches per year).

EXTREMES.--Current year: Maximum discharge, 16,500 cfs May 28 (gage height, 21.41 ft); minimum, 360 cfs Oct. 27 (gage height, 4.55 ft).

Period of record: Maximum discharge, 30,000 cfs Oct. 5, 1964 (gage height, 25.50 ft, from floodmarks); minimum, 119 cfs Oct. 11, 1954 (gage height, 2.36 ft).

Maximum stage since at least 1791, 27.1 ft 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 miles above station. Water quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 923: 1921-23, 1929, 1933, 1935-36(M), 1938, 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	905	674	1,010	1,310	1,630	1,090	3,170	1,580	2,340	1,070	936	477
2	578	584	912	1,190	5,750	1,070	2,760	1,490	2,100	1,060	1,030	459
3	461	878	870	1,240	7,210	1,620	2,260	1,510	1,920	1,040	877	437
4	417	750	842	1,970	4,730	1,530	2,100	1,490	1,770	1,230	813	424
5	1,300	630	827	1,630	2,790	2,150	1,940	1,340	1,670	1,160	778	430
6	1,040	580	1,240	1,470	2,300	2,010	1,790	1,270	1,730	984	782	432
7	652	695	1,360	1,350	2,140	2,060	2,150	1,230	1,800	941	768	446
8	542	2,260	1,160	1,370	1,990	2,940	3,280	2,470	1,650	939	945	499
9	483	1,340	1,260	1,220	1,950	2,560	2,520	3,760	1,630	1,050	838	483
10	451	994	1,150	1,150	1,760	2,140	2,160	2,820	1,540	955	784	532
11	429	876	1,100	1,090	1,630	2,100	1,960	2,150	1,460	902	790	461
12	421	804	1,060	1,060	1,540	2,770	1,830	1,860	1,370	835	691	421
13	418	764	1,030	1,010	1,480	2,210	1,730	1,680	1,560	761	670	429
14	442	2,050	1,000	985	1,950	1,920	1,630	1,550	1,580	748	630	775
15	391	1,490	3,040	993	2,350	1,940	1,570	1,460	1,600	1,150	712	621
16	371	1,100	4,250	1,010	1,860	3,870	1,510	1,380	1,510	1,250	633	486
17	370	967	2,660	991	1,640	8,060	1,540	1,320	1,400	1,240	743	478
18	378	887	1,710	996	1,520	7,480	1,580	1,260	1,300	991	1,020	642
19	460	1,150	1,470	1,130	1,450	4,730	1,730	1,220	1,290	898	731	527
20	400	2,490	1,370	1,150	1,380	3,270	1,810	1,260	1,400	860	637	464
21	372	1,570	2,150	993	1,320	2,690	1,590	1,180	1,400	845	620	445
22	366	1,230	3,700	3,510	1,280	2,410	1,490	1,120	1,530	805	587	437
23	375	1,070	2,850	3,390	1,240	2,160	1,430	1,100	1,480	895	598	441
24	456	963	2,020	1,970	1,190	2,010	1,380	1,290	1,240	1,110	633	427
25	404	996	1,800	1,590	1,150	2,280	1,870	1,220	1,180	928	557	420
26	375	1,490	1,610	1,520	1,150	2,920	1,990	1,100	1,110	1,100	544	409
27	437	1,160	1,470	2,670	1,220	2,370	2,610	1,960	1,080	1,560	523	413
28	1,850	1,020	1,350	2,090	1,150	2,090	2,290	11,200	1,360	1,160	496	459
29	1,300	966	1,250	1,810	-----	1,980	1,890	10,100	1,410	940	485	434
30	873	977	1,190	1,570	-----	2,080	1,710	5,030	1,140	845	482	412
31	756	-----	1,250	1,440	-----	2,290	-----	3,120	-----	808	489	-----
TOTAL	18,473	33,405	49,961	46,868	58,750	82,800	59,270	72,520	45,550	31,060	21,822	14,220
MEAN	596	1,114	1,612	1,512	2,098	2,671	1,976	2,339	1,518	1,002	704	474
MAX	1,850	2,490	4,250	3,510	7,210	8,060	3,280	11,200	2,340	1,560	1,030	775
MIN	366	580	827	985	1,150	1,070	1,380	1,100	1,080	748	482	409
CFSM	2.01	3.76	5.45	5.11	7.09	9.02	6.68	7.90	5.13	3.39	2.38	1.60
IN.	2.32	4.20	6.28	5.89	7.38	10.41	7.45	9.11	5.72	3.90	2.74	1.79

CAL YR 1972 TOTAL 375,633 MEAN 1,026 MAX 5,210 MIN 272 CFSM 3.47 IN 47.21
WTR YR 1973 TOTAL 534,699 MEAN 1,465 MAX 11,200 MIN 366 CFSM 4.95 IN 67.20

PEAK DISCHARGE (BASE, 4,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-16	0430	16.23	4,380	3-17	2130	19.60	9,910
2-3	0845	18.90	7,910	5-28	2200	21.41	16,500

TENNESSEE RIVER BASIN

03444500 South Fork Mills River at The Pink Beds, N. C.

LOCATION.--Lat 35°21'58", long 82°44'22", Transylvania County, in Pisgah National Forest, on left bank on Forest Service Road 476, at The Pink Beds, 400 ft downstream from Thompson Creek, 9 miles north of Brevard, and at mile 22.1.

DRAINAGE AREA.--9.99 sq mi.

PERIOD OF RECORD.--October 1925 to September 1949, June 1965 to September 1973 (discontinued) Occasional low-flow measurements, water years 1950, 1953-55, 1960, 1962-64. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 3,138.38 ft above mean sea level. Prior to Mar. 31, 1926, nonrecording gage at site 300 ft upstream at present datum.

AVERAGE DISCHARGE.--32 years, 31.8 cfs (43.23 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,170 cfs May 27 (gage height, 8.69 ft); minimum, 7.3 cfs Sept. 3, 7, 11, 12, 13, 24, 25 (gage height, 2.16 ft).

Period of record: Maximum discharge, 3,170 cfs May 27, 1973 (gage height, 8.69 ft), from rating curve extended above 900 cfs on basis of slope-area and contracted-opening measurements at gage height 7.42 ft; minimum, 1.6 cfs Sept. 3, 1930.

REMARKS.--Records good. Recording rain gage located at station.

REVISIONS.--WSP 823: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	16	35	42	104	30	77	51	86	23	20	9.2
2	8.8	16	31	38	293	34	66	47	75	21	18	8.8
3	8.3	24	29	52	117	53	60	47	67	22	28	8.5
4	8.3	17	28	75	89	42	57	42	61	26	29	8.6
5	66	15	28	55	75	96	52	39	58	29	29	9.0
6	19	14	57	50	76	62	49	38	58	22	31	8.6
7	14	43	41	46	64	96	90	36	52	20	28	8.4
8	12	50	40	44	67	103	86	189	52	23	27	8.2
9	10	31	39	39	59	83	69	102	50	20	24	9.0
10	9.7	25	36	37	55	77	62	75	46	18	20	9.6
11	9.4	22	35	35	50	113	57	76	42	17	19	8.3
12	9.0	20	34	33	48	120	53	62	45	16	18	7.7
13	11	24	33	34	46	70	50	56	47	15	16	12
14	9.8	102	32	37	78	62	47	52	44	23	15	21
15	8.8	47	163	35	63	85	45	48	42	27	14	11
16	8.7	37	82	30	54	450	42	45	43	18	16	9.6
17	9.9	32	60	30	49	500	48	43	39	17	15	13
18	11	28	52	30	48	174	52	40	35	17	14	15
19	12	63	46	41	46	126	72	38	33	16	13	10
20	10	61	44	35	41	103	63	38	33	16	13	9.2
21	9.5	45	112	32	39	94	54	35	36	15	13	8.8
22	9.4	39	100	165	37	81	50	33	35	14	12	8.6
23	12	34	73	72	36	72	46	36	31	32	12	8.8
24	12	31	61	57	35	66	43	46	27	22	12	8.1
25	11	44	57	49	34	89	78	35	26	33	11	8.2
26	10	47	50	61	33	79	63	43	25	38	11	8.1
27	26	38	46	98	33	68	98	200	24	46	10	11
28	65	35	42	68	31	62	72	784	43	24	9.9	12
29	27	32	39	58	-----	63	61	189	27	19	9.8	9.3
30	21	41	38	51	-----	61	55	125	24	18	9.8	9.0
31	18	-----	47	47	-----	82	-----	99	-----	18	9.6	-----
TOTAL	487.6	1,073	1,610	1,576	1,800	3,296	1,817	2,789	1,306	685	527.1	296.6
MEAN	15.7	35.8	51.9	50.8	64.3	106	60.6	90.0	43.5	22.1	17.0	9.89
MAX	66	102	163	165	293	500	98	784	86	46	31	21
MIN	8.3	14	28	30	31	30	42	33	24	14	9.6	7.7
CFSM	1.57	3.58	5.20	5.09	6.44	10.6	6.07	9.01	4.35	2.21	1.70	.99
IN.	1.82	4.00	6.00	5.87	6.70	12.27	6.77	10.39	4.86	2.55	1.96	1.10
CAL YR 1972	TOTAL 12,181.00 MEAN 33.3 MAX 423 MIN 0 CFSM 3.33 IN 45.36											
WTR YR 1973	TOTAL 17,263.30 MEAN 47.3 MAX 784 MIN 7.7 CFSM 4.73 IN 64.28											

PEAK DISCHARGE (BASE, 340 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1000	4.06	343	3-17	Unknown	5.32	886
1-22	0530	4.15	374	5-8	1130	4.18	384
2-2	0215	4.72	599	5-27	2400	8.69	3,170

TENNESSEE RIVER BASIN

157

03446000 Mills River near Mills River, N. C.

LOCATION.--Lat 35°23'56", long 82°35'46", Henderson County, on right bank 1.5 miles downstream from confluence of North and South Forks, 1.8 miles northwest of Mills River, 4.2 miles northwest of Horseshoe, and at mile 4.6.

DRAINAGE AREA.--66.7 sq mi.

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 above mean sea level (levels by Tennessee Valley Authority). Prior to Oct. 1, 1926, nonrecording gage at site 500 ft upstream at datum 2.97 ft higher.

AVERAGE DISCHARGE.--42 years, 164 cfs (33.39 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 5,280 cfs May 28 (gage height, 11.22 ft); minimum, 53 cfs Oct. 3, 4, 15, 16-17 (gage height, 1.72 ft); minimum daily, 53 cfs Oct. 16.

Period of record: Maximum discharge, 13,400 cfs Aug. 30, 1940 (gage height, 13.62 ft), from rating curve extended above 6,200 cfs on basis of slope-area measurement of peak flow; minimum, 16 cfs Dec. 24, 1943 (gage height, 1.33 ft), result of freezeup; minimum daily, 18 cfs 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 5.12 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	85	147	194	323	185	410	284	447	164	140	86
2	60	80	139	179	1,290	186	365	271	400	157	140	86
3	55	101	130	201	636	285	338	280	365	155	170	88
4	54	85	120	308	478	227	327	262	338	163	170	85
5	309	78	120	246	406	407	303	245	320	154	160	83
6	133	74	240	228	403	322	287	237	333	146	170	80
7	89	107	167	213	374	396	410	230	306	142	200	80
8	74	240	161	212	374	475	469	620	290	150	190	80
9	66	142	167	189	344	415	388	495	286	153	180	97
10	61	119	155	180	316	395	361	382	283	136	170	101
11	59	107	152	174	293	450	339	371	263	130	165	81
12	58	98	147	165	278	571	321	323	259	124	160	76
13	61	97	145	160	267	444	302	298	277	120	160	80
14	62	318	142	160	379	380	287	281	254	120	150	147
15	55	196	552	158	358	426	276	266	248	174	145	91
16	53	156	400	152	311	1,450	268	253	257	134	133	79
17	61	137	283	152	284	1,930	283	244	271	158	145	81
18	63	123	238	156	269	859	282	233	235	131	148	100
19	69	180	212	188	257	658	324	225	218	127	126	82
20	61	273	198	170	246	559	313	228	214	122	121	76
21	58	193	351	159	236	514	286	213	215	120	124	72
22	56	168	448	592	226	457	272	204	230	113	112	77
23	58	148	334	353	219	415	263	200	212	153	110	77
24	64	135	286	282	210	385	252	237	192	167	107	71
25	58	156	265	245	204	437	343	208	183	159	104	70
26	56	210	238	262	202	433	344	222	175	305	101	69
27	77	165	220	415	203	382	460	440	170	468	98	74
28	269	152	208	326	191	355	373	3,030	238	218	94	90
29	134	142	194	290	-----	349	328	879	185	170	92	76
30	104	161	186	258	-----	346	303	609	168	140	90	72
31	92	-----	208	240	-----	400	-----	502	-----	130	88	-----
TOTAL	2,607	4,426	6,953	7,207	9,577	15,493	9,877	12,772	7,832	5,003	4,263	2,507
MEAN	84.1	148	224	232	342	500	329	412	261	161	138	83.6
MAX	309	318	552	592	1,290	1,930	469	3,030	447	468	200	147
MIN	53	74	120	152	191	185	252	200	168	113	88	69
CFSM	1.26	2.22	3.36	3.48	5.13	7.50	4.93	6.18	3.91	2.41	2.07	1.25
IN.	1.45	2.47	3.88	4.02	5.34	8.64	5.51	7.12	4.37	2.79	2.38	1.40

CAL YR 1972 TOTAL 61,725 MEAN 169 MAX 1,620 MIN 45 CFSM 2.53 IN 34.43
WTR YR 1973 TOTAL 88,517 MEAN 243 MAX 3,030 MIN 53 CFSM 3.64 IN 49.37

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-2	0415	5.45	1,960	5-28	0545	11.22	5,280
3-17	0145	8.07	3,260	7-26	2315	3.98	1,070

TENNESSEE RIVER BASIN

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 downstream from Bent Creek, 6.2 miles upstream from Hominy Creek, 6.7 miles south of Asheville, and at mile 157.7.

DRAINAGE AREA.--676 sq mi.

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 above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--40 years, 1,658 cfs (33.31 inches per year).

EXTREMES.--Current year: Maximum discharge, 24,700 cfs May 28 (gage height, 13.84 ft); minimum, 706 cfs Oct. 27 (gage height, 2.71 ft).

Period of record: Maximum discharge, 30,600 cfs Oct. 5, 1964 (gage height, 15.80 ft); minimum, 230 cfs Oct. 4, 5, 10, 11, 12, 1954 (gage height, 2.05 ft).

Maximum stage since at least 1791, 27.3 ft July 15, 1916 (from floodmarks and studies by Tennessee Valley Authority). Flood in August 1928 reached a stage of about 16.1 ft, from floodmarks.

REMARKS.--Records good. Some diurnal fluctuation at low flow caused by powerplant about 34 miles 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,990	1,170	1,540	1,860	2,390	1,650	4,350	2,650	4,630	1,730	1,630	900
2	1,200	1,050	1,470	1,760	8,740	1,600	4,530	2,490	3,480	1,660	1,840	863
3	969	1,170	1,400	1,750	8,990	2,180	3,800	2,500	3,080	1,610	1,600	835
4	841	1,320	1,340	2,750	8,330	2,340	3,350	2,550	2,800	1,750	1,740	807
5	2,740	1,090	1,310	2,550	6,360	2,950	3,140	2,320	2,640	2,040	1,600	794
6	2,380	1,000	1,530	2,190	4,290	3,200	2,860	2,210	2,680	1,600	1,550	788
7	1,420	1,010	1,930	2,020	3,480	3,000	3,380	2,140	2,850	1,540	1,450	815
8	1,140	2,890	1,620	2,020	3,150	4,010	5,020	3,380	2,550	1,560	1,510	829
9	994	2,370	1,720	1,880	3,030	4,200	4,630	4,970	2,490	1,740	1,470	1,060
10	907	1,590	1,630	1,730	2,750	3,480	3,610	4,770	2,400	1,560	1,360	1,670
11	846	1,450	1,570	1,640	2,520	3,280	3,250	3,900	2,270	1,500	1,450	999
12	825	1,330	1,520	1,580	2,370	4,510	3,010	3,110	2,130	1,460	1,380	871
13	818	1,250	1,510	1,540	2,270	3,880	2,820	2,760	2,310	1,280	2,100	820
14	841	2,820	1,480	1,510	2,660	3,130	2,680	2,580	2,320	1,240	2,800	1,340
15	803	2,590	4,320	1,520	3,630	3,060	2,550	2,410	2,250	1,950	1,570	1,280
16	735	1,770	5,780	1,540	2,980	8,040	2,470	2,310	2,520	2,070	1,350	961
17	785	1,530	5,050	1,520	2,510	13,500	2,530	2,220	2,430	2,440	1,370	918
18	782	1,460	3,240	1,520	2,300	12,400	2,560	2,140	3,160	1,710	1,780	1,140
19	842	1,530	2,310	1,640	2,190	9,280	2,650	2,070	2,250	1,540	1,430	1,060
20	833	3,360	2,090	1,760	2,100	6,700	2,800	2,100	2,180	1,50	1,210	904
21	748	2,670	2,690	1,560	2,020	5,090	2,590	2,060	2,240	1,390	1,180	852
22	731	1,920	4,780	4,780	1,940	4,110	2,410	1,920	2,530	1,330	1,110	848
23	725	1,640	4,720	5,430	1,870	3,570	2,320	1,870	2,280	1,860	1,080	884
24	786	1,500	3,610	4,220	1,810	3,250	2,280	2,210	2,030	2,060	1,100	828
25	809	1,510	2,800	2,670	1,730	3,370	2,620	2,170	1,870	1,640	1,070	904
26	732	2,130	2,480	2,370	1,710	4,290	3,620	1,960	1,790	2,280	1,020	813
27	747	1,840	2,220	4,010	1,800	3,990	4,950	2,880	1,740	4,860	989	795
28	2,340	1,540	2,050	3,760	1,760	3,370	4,120	19,600	2,250	2,410	957	860
29	2,250	1,500	1,900	3,100	-----	3,170	3,270	17,500	2,340	1,760	932	845
30	1,480	1,500	1,790	2,560	-----	3,250	2,880	11,300	1,940	1,530	931	873
31	1,280	-----	1,820	2,300	-----	3,490	-----	6,900	-----	1,460	917	-----
TOTAL	35,319	51,500	75,220	73,040	91,680	137,340	97,050	125,950	74,430	55,950	43,476	28,156
MEAN	1,139	1,717	2,426	2,356	3,274	4,430	3,235	4,063	2,481	1,805	1,402	939
MAX	2,740	3,360	5,780	5,430	8,990	13,500	5,020	19,600	4,630	4,860	2,800	1,670
MIN	725	1,000	1,310	1,510	1,710	1,600	2,280	1,870	1,740	1,240	917	788
CFSM	1.68	2.54	3.59	3.49	4.84	6.55	4.79	6.01	3.67	2.67	2.07	1.39
IN.	1.94	2.83	4.14	4.02	5.05	7.56	5.34	6.93	4.10	3.08	2.39	1.55

CAL YR 1972 TOTAL 623,333 MEAN 1,703 MAX 11,700 MIN 541 CFSM 2.52 IN 34.30
WTR YR 1973 TOTAL 889,111 MEAN 2,436 MAX 19,600 MIN 725 CFSM 3.60 IN 48.93

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1845	6.53	6,670	5-28	1045	13.84	24,700
1-22	1300	6.22	6,080	7-27	0245	6.45	6,520
2-2	1430	7.95	9,500	8-13	2215	6.38	6,380
3-17	1300	10.33	15,100				

TENNESSEE RIVER BASIN

159

03448500 Hominy Creek at Candler, N. C.

LOCATION.--Lat 35°32'28", long 82°40'35", Buncombe County, on left bank 0.1 mile downstream from Pole Creek, 0.4 mile downstream from bridge on State Highway 112, 1.0 mile east of Candler, and at mile 10.3.

DRAINAGE AREA.--79.8 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 2,065.83 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--31 years, 93.4 cfs (15.89 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,960 cfs Mar. 16 (gage height, 7.02 ft); minimum, 45 cfs Sept. 3, 4, 5, 6, 7, 8 (gage height, 1.13 ft).

Period of record: Maximum discharge, 6,800 cfs June 16, 1949 (gage height, 13.25 ft); minimum, 13 cfs Sept. 2, 1953 (gage height, 0.80 ft).

Flood of Aug. 30, 1940, reached a stage of 18.0 ft, from floodmarks (discharge, 13,100 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	76	88	103	219	100	191	152	200	98	86	52
2	54	72	83	98	661	106	178	148	182	97	85	51
3	51	75	80	113	318	130	172	178	168	93	87	49
4	51	69	78	135	240	114	170	155	158	102	80	48
5	278	66	78	117	207	194	161	145	153	103	125	49
6	101	63	93	118	219	149	155	142	163	92	94	48
7	75	94	84	114	186	151	304	138	150	83	86	49
8	65	133	82	114	191	185	262	201	142	88	77	60
9	60	90	94	108	176	169	223	169	138	90	78	184
10	56	82	110	104	164	169	201	156	134	86	84	96
11	55	77	117	102	153	222	184	174	130	86	76	60
12	54	73	107	97	148	241	177	151	136	82	76	53
13	63	74	101	104	143	203	168	143	133	78	78	53
14	58	194	98	102	173	180	160	139	126	84	76	101
15	54	115	447	96	159	277	155	132	138	94	70	64
16	53	98	233	93	147	1,290	151	129	161	94	70	55
17	81	90	163	92	141	1,150	169	128	139	88	74	53
18	82	84	138	93	136	525	158	126	134	84	97	70
19	106	117	125	108	130	383	156	124	124	84	74	58
20	78	129	119	97	127	319	152	128	122	89	69	50
21	69	106	198	94	124	303	147	121	121	78	67	47
22	65	101	212	527	120	257	144	118	116	77	62	45
23	65	93	173	232	118	231	143	120	110	183	62	46
24	65	87	153	180	114	214	140	171	105	107	61	45
25	61	96	144	155	112	224	165	130	103	105	60	70
26	59	106	132	165	111	217	166	234	100	116	59	48
27	83	92	123	206	111	199	218	246	100	147	57	49
28	197	88	116	174	105	189	193	1,070	158	105	55	59
29	106	83	110	166	-----	190	169	376	112	90	55	50
30	88	98	105	148	-----	185	161	265	101	84	58	49
31	81	-----	113	140	-----	205	-----	221	-----	84	54	-----
TOTAL	2,475	2,821	4,097	4,295	4,953	8,671	5,293	6,030	4,057	2,971	2,292	1,811
MEAN	79.8	94.0	132	139	177	280	176	195	135	95.8	73.9	60.4
MAX	278	194	447	527	661	1,290	304	1,070	200	183	125	184
MIN	51	63	78	92	105	100	140	118	100	77	54	45
CFSM	1.00	1.18	1.65	1.74	2.22	3.51	2.21	2.44	1.69	1.20	.93	.76
IN.	1.15	1.32	1.91	2.00	2.31	4.04	2.47	2.81	1.89	1.38	1.07	.84

CAL YR 1972 TOTAL 41,593 MEAN 114 MAX 1,240 MIN 46 CFSM 1.43 IN 19.39
WTR YR 1973 TOTAL 49,766 MEAN 136 MAX 1,290 MIN 45 CFSM 1.70 IN 23.20

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1030	3.86	1,130	3-16	2145	7.02	2,960
1-22	0500	4.22	1,340	5-28	0200	6.14	2,450
2- 2	0145	4.24	1,350	9- 9	1800	4.26	1,360

TENNESSEE RIVER BASIN

03450000 Beetree Creek near Swannanoa, N. C.

LOCATION.--Lat 35°39'11", long 82°24'20", Buncombe County, on left bank 0.5 mile downstream from Wolfe Branch, 0.8 mile upstream from Beetree Reservoir dam, 3.8 miles north of Swannanoa, and 4.8 miles above mouth.

DRAINAGE AREA.--5.46 sq mi.

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 above mean sea level.

AVERAGE DISCHARGE.--47 years, 10.5 cfs (26.12 inches per year).

EXTREMES.--Current year: Maximum discharge, 489 cfs May 28 (gage height, 4.36 ft); minimum, 1.3 cfs Sept. 7, 8 (gage height, 0.83 ft).

Period of record: Maximum discharge, 1,370 cfs Aug. 13, 1940 (gage height, 6.20 ft), from rating curve extended above 240 cfs on basis of computation of peak flow over weir; minimum, 0.3 cfs Sept. 29, 30, Oct. 1, 1954 (gage height, 0.26 ft).

REMARKS.--Records good. Recording rain gage located at station.

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	6.7	8.9	11	24	8.3	21	30	28	5.8	5.1	1.9
2	2.3	6.2	8.5	10	115	8.3	19	25	24	5.4	4.8	1.8
3	1.9	7.4	8.2	11	51	9.5	17	26	20	5.1	5.8	1.6
4	1.9	6.4	7.9	13	38	8.8	17	21	17	4.9	8.3	1.6
5	13	5.9	7.6	12	31	14	15	19	16	4.6	12	1.6
6	5.8	5.5	9.2	12	31	12	14	17	19	4.3	6.8	1.5
7	4.5	9.0	8.6	11	27	12	24	16	16	4.1	5.5	1.5
8	3.8	14	8.4	11	26	22	27	33	14	6.0	5.8	1.7
9	3.2	11	12	10	22	19	24	31	13	5.6	5.5	2.9
10	2.9	9.6	16	9.5	19	17	21	27	13	4.7	5.4	3.1
11	2.8	8.7	18	9.2	17	22	19	29	12	4.2	5.0	1.9
12	2.7	7.9	17	8.9	16	25	17	23	10	3.7	4.2	1.6
13	2.9	7.5	16	8.6	15	20	16	20	9.6	3.4	4.1	1.8
14	2.7	17	15	8.2	16	17	15	18	9.2	3.4	4.1	3.5
15	2.4	12	74	8.1	15	31	14	17	10	3.7	3.5	2.3
16	2.3	11	45	7.9	13	158	13	15	13	3.4	3.3	1.8
17	5.2	9.7	35	8.4	13	138	18	14	11	3.3	3.3	1.9
18	5.1	8.9	31	8.8	12	63	19	13	9.0	3.2	4.8	4.0
19	6.4	10	20	13	12	47	21	13	12	3.1	3.2	2.3
20	5.2	11	17	12	11	39	20	12	11	4.0	3.3	1.9
21	4.6	9.8	19	11	11	35	18	11	10	3.5	3.1	1.7
22	4.3	9.3	22	30	10	30	17	10	9.2	3.1	2.8	1.7
23	5.0	8.5	19	22	9.8	25	16	11	8.2	5.4	2.7	1.6
24	5.6	8.0	17	18	9.5	22	15	18	7.5	4.3	2.6	1.5
25	4.9	9.0	16	15	9.2	20	23	16	7.1	4.2	2.8	2.3
26	4.6	10	15	15	9.2	20	25	15	6.6	7.5	2.5	1.6
27	5.6	9.1	13	17	9.1	18	69	37	6.3	7.0	2.4	1.6
28	11	8.8	12	17	8.6	17	57	212	9.1	4.6	2.2	1.7
29	8.6	8.3	12	18	-----	16	43	61	7.1	3.7	2.2	1.6
30	7.8	9.3	11	15	-----	16	35	39	6.0	3.3	2.7	1.7
31	7.2	-----	11	15	-----	22	-----	33	-----	4.0	2.1	-----
TOTAL	149.3	275.5	550.3	396.6	600.4	931.9	689	882	363.9	136.5	131.9	59.2
MEAN	4.82	9.18	17.8	12.8	21.4	30.1	23.0	28.5	12.1	4.40	4.25	1.97
MAX	13	17	74	30	115	158	69	212	28	7.5	12	4.0
MIN	1.9	5.5	7.6	7.9	8.6	8.3	13	10	6.0	3.1	2.1	1.5
CFSM	.88	1.68	3.26	2.34	3.92	5.51	4.21	5.22	2.22	.81	.78	.36
IN.	1.02	1.88	3.75	2.70	4.09	6.35	4.69	6.01	2.48	.93	.90	.40

CAL YR 1972 TOTAL 4,649.1 MEAN 12.7 MAX 123 MIN 1.5 CFSM 2.33 IN 31.68
WTR YR 1973 TOTAL 5,166.5 MEAN 14.2 MAX 212 MIN 1.5 CFSM 2.60 IN 35.20

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1000	3.38	153	3-16	2030	3.95	328
2- 2	0200	3.61	216	5-28	0030	4.36	489

TENNESSEE RIVER BASIN

161

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 downstream from Biltmore Avenue Bridge, 200 ft upstream from Southern Railway Bridge, and 1.6 miles upstream from mouth.

DRAINAGE AREA.--130 sq mi.

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 above mean sea level (levels by Tennessee Valley Authority). Dec. 1, 1920, to Sept. 30, 1926, nonrecording gage at site 100 ft upstream at same datum.

AVERAGE DISCHARGE.--46 years (1920-26, 1933-73), 158 cfs (unadjusted).

EXTREMES.--Current year: Maximum discharge, 6,770 cfs May 28 (gage height, 13.30 ft); minimum, 45 cfs Oct. 16 (gage height, 1.42 ft); minimum daily, 51 cfs Oct. 16.

Period of record: Maximum discharge, 18,400 cfs Aug. 13, 1940 (gage height, 19.00 ft), from rating curve extended above 8,400 cfs on basis of computation of peak flow over dam 3.6 miles above station; minimum, 1.1 cfs Oct. 9, 14, 15, 1941; minimum daily, 1.2 cfs Oct. 14, 1941.

Maximum stage observed, 26 ft (discharge, 40,000 cfs) in April 1791, from studies by Tennessee Valley Authority. Flood of July 1916 reached a stage of 20.7 ft (discharge, 23,000 cfs), from flood profile by Tennessee Valley Authority. Flood of Aug. 16, 1928, reached a stage of 18.74 ft, from floodmarks (discharge, 17,800 cfs). High stages are subject to backwater from French Broad River.

REMARKS.--Records good. Considerable regulation by Lake Craig 3.6 miles 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 32.4 cfs for water supply from Burnett Lake on North Fork Swannanoa River 20 miles above station (see p. 187); an average of 29.5 cfs was discharged as sewage effluent into the French Broad River below station. Textile mills, the town of Black Mountain, and recreational camps diverted about 6 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	82	105	151	324	127	330	381	435	138	119	68
2	67	76	104	143	1,910	128	298	330	379	140	127	63
3	61	85	106	169	940	152	276	355	330	137	163	60
4	58	80	95	200	573	136	263	306	305	135	180	53
5	338	77	92	180	435	194	243	272	280	122	221	55
6	125	73	114	178	407	175	221	252	349	114	123	56
7	92	123	103	167	351	174	392	239	292	114	117	54
8	76	202	96	175	330	289	416	420	262	121	143	56
9	62	113	113	156	299	240	353	457	250	151	115	138
10	64	100	127	143	275	220	322	370	237	136	101	113
11	67	103	137	133	245	280	283	402	226	119	108	72
12	61	88	132	121	226	320	263	328	212	115	106	65
13	60	95	126	118	212	266	237	294	204	97	96	62
14	62	252	130	114	255	220	228	264	184	101	96	125
15	57	129	855	112	242	400	213	243	205	131	90	84
16	51	116	438	114	211	2,800	205	224	396	110	78	71
17	109	104	292	112	193	3,240	240	213	240	102	78	97
18	87	102	267	114	183	1,290	274	198	205	97	156	152
19	113	127	239	156	176	755	284	193	195	96	95	89
20	79	150	213	150	171	572	292	190	201	91	80	74
21	73	122	274	140	168	509	276	173	187	106	82	62
22	72	107	321	517	157	430	253	162	185	93	76	65
23	69	107	283	354	143	367	238	174	170	212	76	64
24	77	97	250	275	142	332	220	267	154	111	72	58
25	71	107	232	227	136	322	314	225	144	108	75	118
26	77	126	203	237	131	312	345	206	141	211	77	70
27	95	103	183	320	135	289	854	413	136	213	68	64
28	193	97	167	273	126	267	786	4,490	241	121	65	67
29	108	95	152	344	-----	269	567	1,510	183	107	64	64
30	90	114	148	262	-----	265	458	770	148	88	68	66
31	86	-----	160	233	-----	328	-----	548	-----	101	77	-----
TOTAL	2,803	3,352	6,257	6,088	9,096	15,662	9,984	14,869	7,076	3,838	3,192	2,305
MEAN	90.4	112	202	196	325	505	333	480	236	124	103	76.8
MAX	338	252	855	517	1,910	3,240	854	4,490	435	213	221	152
MIN	51	73	92	112	126	127	205	162	136	88	64	53

CAL YR 1972 TOTAL 65,450 MEAN 179 MAX 3,720 MIN 43
WTR YR 1973 TOTAL 84,522 MEAN 232 MAX 4,490 MIN 51

TENNESSEE RIVER BASIN

03451500 French Broad River at Asheville, N. C.

LOCATION.--Lat 35°36'32", long 82°34'41", Buncombe County, on right bank 27 ft upstream from Pearson Bridge (Secondary Road 1348) at Asheville, 1.4 miles downstream from bridge on U. S. Highways 19 and 23, 3.2 miles downstream from Swannanoa River, and at mile 145.8.

DRAINAGE AREA.--945 sq mi.

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 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 miles upstream at datum 11.52 ft higher. Oct. 1, 1922, to Aug. 9, 1930, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--78 years, 2,070 cfs (29.75 inches per year).

EXTREMES.--Current year: Maximum discharge, 30,300 cfs May 28 (gage height, 11.63 ft); minimum, 827 cfs Oct. 16 (gage height, 1.49 ft); minimum daily, 847 cfs Oct. 16.

Period of record: Maximum discharge, 110,000 cfs July 16, 1916 (gage height, 23.1 ft, present site and datum, from floodmarks), from rating curve extended above 43,000 cfs; minimum, 239 cfs at times in August and September 1925 (gage height, 0.16 ft).

Maximum stage observed since at least 1791, that of July 16, 1916, and flood of June 17, 1876, reached a stage of 18 ft, 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 38 cfs (see sta 03451000) of which 29.5 cfs was discharged as sewage effluent 4 miles below station. Slight diurnal fluctuation and occasional slight regulation at low flow caused by powerplant 46 miles upstream and small reservoirs above station. Water quality records for the current year are published in Part 2 of this report.

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,510	1,510	2,010	2,320	2,950	2,190	5,100	3,370	5,830	2,120	1,940	1,120
2	1,510	1,380	1,860	2,250	11,800	2,140	5,320	3,130	4,320	2,050	2,240	1,090
3	1,240	1,420	1,780	2,220	11,000	2,630	4,550	3,130	3,830	2,010	2,050	1,070
4	1,120	1,650	1,700	3,160	9,970	2,920	3,980	3,210	3,490	2,100	2,130	1,010
5	3,410	1,410	1,670	3,110	8,380	3,460	3,690	2,900	3,260	2,380	2,210	998
6	3,090	1,310	1,870	2,730	5,900	3,840	3,350	2,750	3,350	1,990	1,990	998
7	1,810	1,350	2,380	2,540	4,340	3,560	4,100	2,650	3,520	1,840	1,790	1,010
8	1,380	3,180	2,090	2,520	3,940	4,700	6,080	3,820	3,170	1,820	1,860	1,040
9	1,170	3,030	2,190	2,410	3,840	5,050	5,620	5,920	3,060	2,180	1,810	1,590
10	1,040	2,100	2,190	2,230	3,530	4,260	4,560	5,650	2,960	1,940	1,680	2,340
11	979	1,840	2,150	2,130	3,290	3,930	3,920	4,900	2,850	1,800	1,790	1,350
12	940	1,670	2,040	2,040	3,110	5,510	3,610	3,820	2,700	1,700	1,670	1,150
13	950	1,570	2,020	1,950	2,970	4,890	3,370	3,390	2,810	1,570	1,880	1,080
14	967	3,270	1,960	1,920	3,090	3,900	3,180	3,100	2,840	1,530	3,690	1,630
15	930	3,280	5,750	1,920	4,300	3,820	3,050	2,940	2,730	2,170	2,010	1,660
16	847	2,340	8,040	1,950	3,600	12,100	2,950	2,740	3,260	2,480	1,650	1,310
17	986	2,010	6,960	1,920	3,150	19,100	3,100	2,670	2,890	2,740	1,550	1,250
18	985	1,830	4,140	1,930	2,920	15,300	3,130	2,580	3,730	2,140	2,270	1,590
19	1,100	1,830	2,950	2,090	2,790	11,600	3,160	2,490	2,780	1,870	1,790	1,390
20	1,030	3,720	2,650	2,230	2,690	8,290	3,390	2,490	2,660	1,750	1,520	1,190
21	916	3,380	3,140	2,030	2,600	6,340	3,180	2,470	2,680	1,720	1,470	1,120
22	879	2,460	5,680	5,970	2,500	5,570	2,960	2,310	2,960	1,670	1,380	1,080
23	872	2,160	5,620	6,560	2,420	4,760	2,850	2,260	2,750	2,240	1,340	1,180
24	923	1,940	4,470	5,240	2,350	4,120	2,750	2,720	2,480	2,650	1,350	1,110
25	956	1,880	3,410	3,320	2,290	4,220	3,130	2,680	2,250	2,070	1,340	1,260
26	890	2,560	3,050	2,940	2,250	5,020	4,120	2,420	2,170	2,350	1,290	1,090
27	926	2,380	2,770	4,660	2,310	4,920	6,480	3,180	2,110	5,780	1,240	1,030
28	2,700	2,040	2,550	4,550	2,290	4,100	5,540	25,200	2,720	3,040	1,190	1,110
29	2,910	1,900	2,380	3,880	-----	3,820	4,340	20,200	2,780	2,190	1,160	1,100
30	1,950	1,910	2,260	3,190	-----	3,920	3,730	14,200	2,370	1,860	1,190	1,140
31	1,630	-----	2,300	2,880	-----	4,190	-----	8,450	-----	1,760	1,150	-----
TOTAL	43,546	64,310	96,030	90,790	116,570	174,210	118,330	153,780	91,310	67,510	53,620	37,086
MEAN	1,405	2,144	3,098	2,929	4,163	5,620	3,944	4,961	3,044	2,178	1,730	1,236
MAX	3,410	3,720	8,040	6,560	11,800	19,100	6,480	25,200	5,830	5,780	3,690	2,340
MIN	847	1,310	1,670	1,920	2,250	2,140	2,750	2,260	2,110	1,530	1,150	998
CFSM	1,49	2,27	3,28	3,10	4,41	5,95	4,17	5,25	3,22	2,30	1,83	1,31
IN.	1.71	2.53	3.78	3.57	4.59	6.86	4.66	6.05	3.59	2.66	2.11	1.46

CAL YR 1972 TOTAL 795,807 MEAN 2,174 MAX 17,600 MIN 762 CFSM 2.30 IN 31.33
WTR YR 1973 TOTAL 1,107,092 MEAN 3,033 MAX 25,200 MIN 847 CFSM 3.21 IN 43.58

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1600	5.64	9,090	3-17	0500	9.23	19,800
2- 2	0645	7.07	12,800	5-28	1345	11.63	30,300

TENNESSEE RIVER BASIN

163

03453000 Ivy River near Marshall, N. C.

LOCATION.--Lat 35°46'10", long 82°37'16", Madison County, on right bank 0.2 mile downstream from bridge on Secondary Road 1586, 1.9 miles upstream from mouth, and 4.0 miles southeast of Marshall.

DRAINAGE AREA.--158 sq mi.

PERIOD OF RECORD.--October 1933 to September 1973 (discontinued). Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,700.41 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--40 years, 152 cfs (13.06 inches per year).

EXTREMES.--Current year: Maximum discharge, 13,900 cfs Mar. 16 (gage height, 14.30 ft); minimum, 31 cfs Sept. 8, 9 (gage height, 1.88 ft).

Period of record: Maximum discharge, 14,400 cfs Mar. 26, 1965 (gage height, 14.52 ft); minimum, 3 cfs Jan. 20, 1940, result of freezeup; minimum gage height, 1.51 ft Aug. 30, Sept. 2, 1953; minimum daily discharge, 8.5 cfs Sept. 2, 18, 1953.

Flood in June 1876 reached a stage of 16.0 ft, from studies by Tennessee Valley Authority (discharge, 14,000 cfs). An outstanding but lesser flood occurred in July 1916 (stage and discharge unknown).

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

REVISIONS (WATER YEARS).--WSP 803: 1934(M), 1935. WSP 1910: 1936(P), 1937(M), 1940(M), 1946(M), 1957(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	84	90	120	138	269	113	363	385	231	120	97	38
2	55	83	109	128	1,310	111	325	323	200	129	96	35
3	47	89	105	149	738	124	288	355	177	105	92	33
4	44	81	102	176	495	122	277	315	170	104	83	34
5	586	75	99	158	391	182	246	274	148	98	83	45
6	198	70	113	156	479	153	216	250	155	92	75	36
7	108	80	115	149	480	146	543	236	159	87	71	33
8	80	272	104	162	432	223	580	313	146	85	81	32
9	66	164	252	147	379	209	460	298	122	85	73	33
10	58	131	410	142	316	191	386	258	121	84	60	66
11	53	112	614	138	270	207	319	357	189	92	72	51
12	51	98	556	127	241	273	283	282	158	70	59	40
13	57	91	365	127	219	228	252	255	153	65	59	38
14	55	387	281	136	229	207	225	233	119	62	82	58
15	49	223	1,440	145	229	349	206	213	126	76	115	60
16	46	165	800	132	204	5,120	194	196	193	72	68	50
17	151	137	458	139	181	3,610	267	185	157	74	60	43
18	135	118	335	163	172	1,100	265	176	144	109	118	68
19	413	127	273	346	166	685	263	165	121	76	79	62
20	224	199	238	322	159	519	252	163	126	101	71	50
21	136	148	248	259	151	500	231	157	113	94	82	46
22	104	138	318	503	143	467	215	143	110	76	66	46
23	91	124	275	405	138	446	207	143	98	82	60	46
24	91	111	243	319	132	397	198	217	90	102	56	45
25	80	110	220	261	125	355	260	207	84	112	53	60
26	74	146	200	236	124	350	326	183	81	130	57	59
27	71	123	182	282	125	326	1,150	190	79	143	50	45
28	173	114	164	251	119	285	1,060	1,160	131	106	48	46
29	131	106	151	437	-----	282	661	547	151	93	46	47
30	111	115	142	325	-----	282	482	367	105	88	43	81
31	98	-----	149	287	-----	345	-----	280	-----	85	43	-----
TOTAL	3,720	4,027	9,181	6,845	8,418	17,907	11,000	8,826	4,157	2,897	2,198	1,426
MEAN	120	134	296	221	301	578	367	285	139	93.5	70.9	47.5
MAX	586	387	1,440	503	1,310	5,120	1,150	1,160	231	143	118	81
MIN	44	70	99	127	119	111	194	143	79	62	43	32
CFSM	.76	.85	1.87	1.40	1.91	3.66	2.32	1.80	.88	.59	.45	.30
IN.	.88	.95	2.16	1.61	1.98	4.22	2.59	2.08	.98	.68	.52	.34

CAL YR 1972 TOTAL 74,162 MEAN 203 MAX 1,740 MIN 34 CFSM 1.28 IN 17.46
WTR YR 1973 TOTAL 80,602 MEAN 221 MAX 5,120 MIN 32 CFSM 1.40 IN 18.98

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1130	8.12	3,430	3-16	2200	14.30	13,900

TENNESSEE RIVER BASIN

03453500 French Broad River at Marshall, N. C.

LOCATION.--Lat 35°47'10", long 82°39'39", Madison County, on right bank 0.7 mile upstream from Hayes Creek, 1.0 mile downstream from Ivy River, 1.5 miles southeast of Marshall, and at mile 126.7.

DRAINAGE AREA.--1,332 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 1,646.79 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--31 years, 2,409 cfs (24.56 inches per year).

EXTREMES.--Current year: Maximum discharge, 37,600 cfs Mar. 16 (gage height, 11.07 ft); minimum, 1,110 cfs Oct. 16, 17 (gage height, 1.40 ft); minimum daily, 1,150 cfs Oct. 16.
 Period of record: Maximum discharge, 40,400 cfs Mar. 26, 1965 (gage height, 11.54 ft); minimum, 193 cfs Sept. 13, 14, 1954 (gage height, 0.36 ft); minimum daily, 292 cfs Sept. 27, 28, 1954.
 Maximum stage observed since at least 1791, 22.0 ft July 16, 1916 (discharge, 115,000 cfs), and flood of Aug. 30, 1940, reached a stage of 16.6 ft (discharge, 70,000 cfs), 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 miles upstream.

REVISIONS (WATER YEARS).--WSP 1436: 1954(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,070	1,770	2,320	2,750	3,540	2,600	5,580	4,210	6,520	2,490	2,170	1,300
2	1,820	1,640	2,170	2,700	13,800	2,520	5,830	3,860	4,920	2,410	2,510	1,270
3	1,420	1,590	2,050	2,620	12,900	2,830	5,220	3,950	4,360	2,330	2,370	1,240
4	1,280	1,860	1,970	3,460	11,300	3,360	4,620	3,930	4,000	2,430	2,330	1,210
5	4,400	1,640	1,920	3,760	8,980	3,890	4,330	3,530	3,760	2,580	2,520	1,190
6	3,930	1,500	2,040	3,280	6,810	4,390	3,960	3,300	3,760	2,430	2,250	1,170
7	2,310	1,490	2,610	3,070	5,530	4,060	5,170	3,170	4,030	2,150	2,070	1,160
8	1,740	3,400	2,400	3,010	4,960	5,000	7,190	3,900	3,700	2,070	2,060	1,190
9	1,490	3,650	2,670	2,920	4,770	5,590	6,490	6,310	3,490	2,380	2,150	1,290
10	1,370	2,530	2,980	2,710	4,340	4,950	5,440	6,030	3,440	2,340	1,950	2,900
11	1,300	2,150	3,280	2,570	3,960	4,530	4,670	5,790	3,370	2,140	2,120	1,670
12	1,230	1,940	2,990	2,450	3,710	6,060	4,290	4,540	3,170	1,990	1,940	1,360
13	1,260	1,830	2,720	2,340	3,530	5,620	4,020	4,030	3,190	1,860	2,090	1,280
14	1,260	3,730	2,530	2,310	3,590	4,690	3,770	3,690	3,220	1,770	3,830	1,670
15	1,230	3,960	8,270	2,330	4,840	4,730	3,580	3,480	3,150	2,250	2,420	2,000
16	1,150	2,820	8,970	2,360	4,540	20,200	3,480	3,300	3,900	2,740	1,970	1,570
17	1,510	2,380	6,920	2,370	3,810	26,200	3,740	3,170	3,430	2,950	1,760	1,370
18	1,540	2,140	5,320	2,390	3,480	17,800	3,750	3,060	4,040	2,590	2,550	1,920
19	2,050	2,130	3,700	2,760	3,350	13,500	3,740	2,950	3,280	2,170	2,190	1,680
20	1,700	3,890	3,300	2,910	3,210	9,670	3,950	2,900	3,040	2,080	1,810	1,450
21	1,400	3,950	3,470	2,670	3,110	7,510	3,750	2,910	3,090	2,010	1,760	1,330
22	1,270	2,930	6,120	6,770	2,980	6,100	3,490	2,760	3,210	1,900	1,640	1,280
23	1,230	2,530	6,180	7,520	2,880	5,340	3,370	2,660	3,260	2,060	1,570	1,320
24	1,260	2,270	5,280	6,230	2,790	4,890	3,240	3,190	3,020	3,230	1,550	1,280
25	1,290	2,150	4,150	4,290	2,700	4,690	3,610	3,290	2,720	2,450	1,550	1,400
26	1,240	2,770	3,720	3,650	2,660	5,600	4,530	2,860	2,550	2,710	1,490	1,380
27	1,190	2,790	3,360	5,110	2,690	5,520	8,370	3,360	2,450	5,820	1,440	1,220
28	2,780	2,380	3,110	5,340	2,730	4,760	7,440	24,100	2,850	3,680	1,390	1,260
29	3,440	2,190	2,880	5,080	-----	4,470	5,610	20,900	3,240	2,580	1,340	1,300
30	2,370	2,200	2,740	4,170	-----	4,520	4,720	15,400	2,830	2,180	1,400	1,360
31	1,930	-----	2,740	3,740	-----	4,790	-----	9,280	-----	2,030	1,340	-----
TOTAL	56,460	74,200	114,880	109,640	137,490	210,380	140,950	169,810	104,990	76,800	61,530	43,020
MEAN	1,821	2,473	3,706	3,537	4,910	6,786	4,698	5,478	3,500	2,477	1,985	1,434
MAX	4,400	3,960	8,970	7,520	13,800	26,200	8,370	24,100	6,520	5,820	3,830	2,900
MIN	1,150	1,490	1,920	2,310	2,660	2,520	3,240	2,660	2,450	1,770	1,340	1,160
CFSM	1.37	1.86	2.78	2.66	3.69	5.09	3.53	4.11	2.63	1.86	1.49	1.08
FN.	1.98	2.07	3.21	3.06	3.84	5.88	3.94	4.74	2.93	2.14	1.72	1.20

CAL YR 1972 TOTAL 959,513 MEAN 2,622 MAX 20,300 MIN 873 CFSM 1.97 IN 26.80
 WTR YR 1973 TOTAL 1,300,150 MEAN 3,562 MAX 26,200 MIN 1,150 CFSM 2.67 IN 36.31

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1245	6.04	12,700	3-16	2330	11.07	37,600
2-2	0845	6.93	16,200	5-28	1630	9.70	29,500

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 upstream from Big Creek, 1.1 miles upstream from Lake Logan, 6.7 miles southeast of Hazelwood, and at mile 9.3.

DRAINAGE AREA.--27.6 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 2,976.00 ft above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--19 years, 100 cfs (49.20 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,780 cfs May 27 (gage height, 9.05 ft, from floodmark); minimum, 17 cfs Sept. 2, 3, 12, 13, 25-27 (gage height, 0.91 ft).
Period of record: Maximum discharge, 9,740 cfs Feb. 13, 1966 (gage height, 9.5 ft, from floodmarks); minimum, 9.4 cfs Sept. 29, 30, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	55	93	133	498	73	171	125	178	59	34	18
2	33	55	85	102	687	88	137	117	155	59	41	18
3	29	115	80	172	237	204	126	138	143	59	39	17
4	28	64	77	241	190	103	127	113	130	53	33	18
5	233	56	76	133	167	336	114	104	128	50	38	19
6	62	53	186	135	202	143	107	99	173	47	31	18
7	47	210	100	121	160	216	246	94	130	46	31	19
8	40	148	96	116	224	295	189	334	145	67	32	19
9	36	83	109	104	169	187	142	157	140	53	34	22
10	33	73	126	97	139	175	128	131	118	52	34	25
11	32	68	123	92	138	305	118	161	108	49	33	19
12	31	62	114	90	122	223	111	122	140	42	29	18
13	39	73	105	85	116	160	105	111	138	39	28	22
14	34	320	106	85	210	141	100	105	100	41	27	49
15	30	96	828	80	154	371	96	100	113	52	25	22
16	29	84	240	77	125	1,250	92	95	138	41	24	24
17	40	78	181	78	116	713	121	92	113	39	32	46
18	49	73	148	80	110	383	156	87	103	41	34	39
19	51	197	131	160	104	305	203	85	115	38	26	23
20	40	130	137	95	99	258	130	94	110	43	24	20
21	36	94	419	89	93	237	110	81	105	38	24	18
22	34	87	276	581	88	197	102	77	96	34	22	18
23	63	79	185	158	85	176	97	83	84	41	22	20
24	62	74	159	129	83	159	92	141	76	58	22	18
25	44	139	156	116	81	208	274	95	73	50	22	18
26	40	137	135	170	83	174	218	105	69	49	22	17
27	114	92	120	221	82	146	368	498	66	90	21	21
28	288	99	112	138	76	136	186	1,220	110	42	20	31
29	80	89	105	121	-----	141	154	297	71	35	20	22
30	66	120	101	117	-----	153	136	221	62	33	21	21
31	60	-----	131	106	-----	224	-----	188	-----	33	20	-----
TOTAL	1,847	3,103	5,040	4,222	4,638	7,880	4,456	5,470	3,430	1,473	865	679
MEAN	59.6	103	163	136	166	254	149	176	114	47.5	27.9	22.6
MAX	288	320	828	581	687	1,250	368	1,220	178	90	41	49
MIN	28	53	76	77	76	73	92	77	62	33	20	17
CFSM	2.16	3.73	5.91	4.93	6.01	9.20	5.40	6.38	4.13	1.72	1.01	.82
IN.	2.49	4.18	6.79	5.69	6.25	10.62	6.01	7.37	4.62	1.99	1.17	.92

CAL YR 1972 TOTAL 36,706 MEAN 100 MAX 1,730 MIN 22 CFSM 3.62 IN 49.47
WTR YR 1973 TOTAL 43,103 MEAN 118 MAX 1,250 MIN 17 CFSM 4.28 IN 58.10

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	0930	5.47	2,810	3-16	1930	5.72	3,160
1-22	0345	5.00	2,250	5-27	2330	9.05	8,780
2-1	2300	5.45	2,780				

TENNESSEE RIVER BASIN

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 miles downstream from Little East Fork Pigeon River, 3.4 miles downstream from Lake Logan, 3.8 miles upstream from confluence with East Fork Pigeon River, and 5.3 miles southeast of Waynesville.

DRAINAGE AREA.--55.3 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 2,725.08 ft above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--19 years, 158 cfs (38.80 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 8,380 cfs May 28 (gage height, 9.37 ft); minimum, 25 cfs Aug. 31 (gage height, 0.32 ft); minimum daily, 35 cfs Sept. 4.
Period of record: Maximum discharge, 8,930 cfs Feb. 13, 1966 (gage height, 9.62 ft), from rating curve extended above 3,300 cfs; minimum, 7.6 cfs Sept. 7, 1954, minimum gage height, 0.10 ft Oct. 22, 23, 1963.

REMARKS.--Records good. Considerable regulation at times caused by Lake Logan (see p. 187).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	92	162	216	470	139	288	224	319	108	68	37
2	54	88	144	174	1,100	142	243	211	289	107	72	37
3	48	154	138	261	425	288	227	238	269	109	93	36
4	47	101	134	352	346	182	224	209	243	99	68	35
5	291	90	130	224	308	422	204	190	229	94	70	36
6	104	84	248	226	340	231	194	183	281	89	65	37
7	76	197	166	209	290	290	348	172	234	87	64	39
8	66	254	153	205	352	393	328	424	234	136	64	38
9	58	134	175	182	305	294	263	278	239	112	63	42
10	55	119	186	170	270	287	252	234	205	95	65	42
11	52	109	201	162	249	403	234	273	191	97	66	37
12	51	102	187	150	238	374	222	222	202	84	60	38
13	58	100	171	145	226	287	209	204	246	79	60	40
14	59	409	170	145	327	258	198	192	180	78	60	51
15	50	163	1,010	142	278	411	189	181	187	94	56	45
16	50	141	398	138	240	1,760	183	172	221	79	53	44
17	57	130	289	139	215	1,350	213	165	192	78	56	57
18	69	121	258	142	211	655	248	157	176	78	58	65
19	86	239	232	240	205	523	298	152	189	80	53	52
20	65	225	232	169	193	449	227	162	177	83	53	50
21	57	159	511	157	183	411	198	145	173	78	52	49
22	58	148	408	811	174	354	192	138	161	75	51	47
23	67	134	303	316	167	323	181	139	144	90	50	46
24	99	126	269	261	160	300	168	241	134	104	49	43
25	67	185	264	231	157	330	330	171	128	103	49	43
26	62	235	236	256	157	305	292	173	122	95	48	42
27	108	159	214	372	155	268	474	293	116	156	47	43
28	391	164	200	261	145	250	300	1,930	181	88	46	46
29	137	153	188	233	-----	250	262	518	126	76	43	44
30	111	190	180	207	-----	268	238	393	112	70	39	42
31	101	-----	210	203	-----	325	-----	339	-----	68	38	-----
TOTAL	2,728	4,705	7,767	7,099	7,886	12,522	7,427	8,723	5,900	2,869	1,779	1,303
MEAN	88.0	157	251	229	282	404	248	281	197	92.5	57.4	43.4
MAX	391	409	1,010	811	1,100	1,760	474	1,930	319	156	93	65
MIN	47	84	130	138	145	139	168	138	112	68	38	35
(†)	-1	0	+10	-5	-3	+7	-4	+3	-7	-7	-53	+13
MEAN†	88.0	157	251	229	282	404	247	281	196	92.3	55.7	43.9
CFSM†	1.59	2.84	4.54	4.14	5.10	7.31	4.47	5.08	3.54	1.67	1.01	0.79
IN.†	1.83	3.16	5.23	4.77	5.30	8.43	4.99	5.87	3.96	1.92	1.16	0.88

CAL YR 1972 TOTAL 62,114 MEAN 170 MAX 2,260 MIN 41 MEAN† 170 CFSM† 3.07 IN.† 41.76
WTR YR 1973 TOTAL 70,708 MEAN 194 MAX 1,930 MIN 35 MEAN† 194 CFSM† 3.51 IN.† 47.50

† Change in contents, in cfs-days, in Lake Logan.

‡ Adjusted for change in lake contents.

TENNESSEE RIVER BASIN

167

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 upstream from bridge on U. S. Highway 276, 0.3 mile downstream from Dix Creek, 1.6 miles upstream from confluence with West Fork Pigeon River, and 5.2 miles southwest of Canton.

DRAINAGE AREA.--51.5 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 2,674.34 ft above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--19 years, 140 cfs (36.92 inches per year).

EXTREMES.--Current year: Maximum discharge, 12,000 cfs May 28 (gage height, 11.19 ft); minimum, 30 cfs Sept. 3, 4, 12, 13, 22, 24, 25 (gage height, 1.35 ft).

Period of record: Maximum discharge, 12,000 cfs May 28, 1973 (gage height, 11.19 ft), from rating curve extended above 4,600 cfs on basis of contracted-opening measurement of peak flow; minimum, 12 cfs Jan. 9, 1956, result of freezeup; minimum gage height, 0.81 ft Dec. 15, 1958, result of freezeup.

REVISIONS.--The maximum discharge for the water year 1966 has been revised to 10,100 cfs Feb. 13, 1966 (gage height, 10.13 ft), superseding figure published in WSP 2110; the maximum discharge for the water year 1972 has been revised to 8,820 cfs June 20, 1972 (gage height, 9.39 ft), superseding figure published in WRD N. C. 1972.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	83	150	179	364	138	290	200	321	96	69	34
2	43	78	137	158	1,220	141	261	179	280	90	71	33
3	40	101	130	190	559	257	240	188	251	88	72	32
4	38	81	125	286	438	182	236	169	227	94	67	31
5	217	75	120	208	375	423	211	156	210	86	71	34
6	84	71	216	201	367	280	202	143	221	80	73	33
7	63	144	159	189	319	377	331	140	196	77	65	35
8	55	225	152	184	329	419	358	412	197	103	63	33
9	50	131	157	167	299	374	292	288	199	98	64	37
10	47	114	153	157	271	385	264	240	175	84	58	44
11	45	105	155	149	251	469	240	255	164	80	57	34
12	45	97	148	141	237	500	224	215	156	74	54	31
13	50	95	141	138	225	397	205	203	206	70	52	34
14	49	420	135	132	301	341	198	182	176	71	52	82
15	44	193	606	129	277	405	173	169	173	86	49	43
16	42	160	359	124	248	1,960	170	164	191	71	46	35
17	55	141	262	123	226	1,860	178	152	172	70	52	38
18	56	128	227	124	219	863	201	141	153	67	60	50
19	67	234	204	169	205	622	255	142	146	67	49	37
20	55	247	194	140	195	509	222	139	138	67	47	33
21	50	187	443	133	184	450	202	128	135	64	47	32
22	48	168	450	729	173	383	181	116	130	64	44	31
23	49	150	327	336	166	336	170	117	120	124	43	32
24	62	137	277	261	160	304	167	166	112	96	42	30
25	50	165	253	224	155	342	248	134	108	80	41	43
26	47	206	226	246	153	320	213	149	103	103	40	32
27	67	161	205	406	152	278	335	230	102	148	38	37
28	337	156	190	289	143	266	255	2,660	142	92	37	65
29	128	147	176	255	-----	256	234	685	105	78	36	49
30	101	166	166	224	-----	262	208	467	96	70	35	41
31	90	-----	188	210	-----	303	-----	372	-----	69	35	-----
TOTAL	2,229	4,566	6,831	6,601	8,211	14,402	6,964	9,101	5,105	2,607	1,629	1,155
MEAN	71.9	152	220	213	293	465	232	294	170	84.1	52.5	38.5
MAX	337	420	606	729	1,220	1,960	358	2,660	321	148	73	82
MIN	38	71	120	123	143	138	167	116	96	64	35	30
CFSM	1.40	2.95	4.27	4.14	5.69	9.03	4.50	5.71	3.30	1.63	1.02	.75
IN.	1.61	3.30	4.93	4.77	5.93	10.40	5.03	6.57	3.69	1.88	1.18	.83

CAL YR 1972 TOTAL 54,465 MEAN 149 MAX 2,400 MIN 36 CFSM 2.89 IN 39.34
WTR YR 1973 TOTAL 69,401 MEAN 190 MAX 2,660 MIN 30 CFSM 3.69 IN 50.13

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1230	4.31	1,570	3-16	2045	7.24	5,190
1-22	0615	4.56	1,790	5-28	0145	11.19	12,000
2-2	0115	5.30	2,570				

TENNESSEE RIVER BASIN

03457000 Pigeon River at Canton, N. C.

LOCATION.--Lat 35°31'30", long 82°50'28", Haywood County, on left bank 100 ft upstream from small tributary, 200 ft downstream from Pigeon Street Bridge, 0.5 mile from U. S. Highways 19 and 23 at Canton, and at mile 64.1. Records include flow of small tributary.

DRAINAGE AREA.--133 sq mi, 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 above mean sea level (levels by Tennessee Valley Authority). Prior to June 1909, nonrecording gage at bridge 0.4 mile downstream at different datum. Dec. 6, 1928, to Jan. 3, 1929, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--46 years (1907-8, 1928-73), 317 cfs (32.37 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 13,500 cfs May 28 (gage height, 12.88 ft); minimum, 72 cfs Sept. 13 (gage height, 0.81 ft); minimum daily discharge, 77 cfs Sept. 3-6, 12.

Period of record: Maximum discharge, 31,600 cfs Aug. 30, 1940 (gage height, 20.75 ft, from floodmarks in gage well); minimum, 15 cfs Jan. 8, 1956 (gage height, 0.04 ft), result of freezeup; minimum daily, 27 cfs 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 (discharge, 25,700 cfs), from studies by Tennessee Valley Authority.

REMARKS.--Records good. Occasional diurnal fluctuation and considerable regulation at low flow caused by Lake Logan on West Fork Pigeon River 12 miles upstream (see p. 187). Town of Canton diverted above station an average of 1.08 cfs for municipal water supply. Water quality records for the current year are published in Part 2 of this report.

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	152	186	343	433	616	274	619	415	682	225	152	81
2	105	173	304	355	2,740	271	522	390	596	243	160	78
3	95	261	287	421	1,160	555	479	436	535	246	187	77
4	93	195	276	763	901	363	466	387	477	222	150	77
5	598	172	265	485	768	903	424	345	437	209	160	77
6	229	161	492	476	801	533	396	331	509	193	152	77
7	152	201	358	433	683	693	739	316	444	187	141	79
8	128	675	319	431	751	903	795	863	426	251	138	79
9	114	291	358	380	683	707	600	626	439	258	138	85
10	106	253	366	353	585	743	539	496	380	203	132	95
11	102	230	404	334	526	909	481	570	358	213	133	81
12	100	213	366	309	495	1,030	450	457	360	183	124	77
13	108	205	339	301	463	758	419	414	485	169	120	78
14	116	892	327	295	657	656	391	385	378	165	123	134
15	99	398	1,800	291	612	853	370	363	353	203	114	95
16	96	327	972	279	511	3,880	353	342	422	172	108	82
17	120	292	671	277	447	3,880	386	328	400	166	114	90
18	127	266	579	282	431	1,790	443	313	345	158	143	120
19	178	420	505	441	410	1,330	552	302	343	165	113	97
20	136	625	489	339	387	1,100	467	313	322	165	107	87
21	115	380	972	307	364	985	393	286	325	160	107	82
22	111	343	1,070	1,710	342	823	370	272	307	168	108	79
23	110	306	749	806	331	722	350	266	279	265	99	79
24	176	280	640	623	318	651	328	442	262	228	99	78
25	123	339	605	530	308	708	599	325	252	218	97	92
26	113	526	533	522	306	685	486	319	242	228	95	78
27	120	348	470	926	304	584	905	471	235	382	92	79
28	858	337	430	637	287	537	593	4,650	366	215	90	106
29	303	326	395	574	-----	525	502	1,390	260	178	88	94
30	234	381	372	488	-----	557	453	971	231	159	82	88
31	207	-----	422	461	-----	662	-----	777	-----	154	82	-----
TOTAL	5,424	10,002	16,478	15,262	17,187	29,570	14,870	18,561	11,450	6,351	3,748	2,601
MEAN	175	333	532	492	614	954	496	599	382	205	121	86.7
MAX	858	892	1,800	1,710	2,740	3,880	905	4,650	682	382	187	134
MIN	93	161	265	277	287	271	328	266	231	154	82	77
(†)	+33.7	+30.7	+39.8	+26.5	+29.4	+38.1	+27.6	+35.9	+28.6	+25.1	-19.5	+53.4
MEAN†	176	334	533	493	615	955	497	600	383	206	120	88.5
CFSM†	1.32	2.51	4.01	3.71	4.62	7.18	3.74	4.51	2.88	1.55	0.90	0.67
IN.†	1.53	2.81	4.62	4.28	4.81	8.28	4.17	5.20	3.21	1.78	1.04	0.74

CAL YR 1972	TOTAL	127,842	MEAN	349	MAX	4,040	MIN	84	MEAN†	350	CFSM†	2.63	IN.†	35.86
WTR YR 1973	TOTAL	151,504	MEAN	415	MAX	4,650	MIN	77	MEAN†	416	CFSM†	3.13	IN.†	42.46

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1245	6.76	4,160	3-16	2245	10.66	9,280
2- 2	0300	7.92	5,420	5-28	0400	12.88	13,500

† 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.

TENNESSEE RIVER BASIN

169

03459500 Pigeon River near Hepco, N. C.

LOCATION.--Lat 35°38'07", long 82°59'22", Haywood County, on left bank 95 ft east of Interstate Highway 40, 0.8 mile downstream from Jonathan Creek, 2.0 miles south of Hepco, 2.4 miles upstream from Fines Creek, and at mile 45.1.

DRAINAGE AREA.--350 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 2,335.95 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--46 years, 665 cfs (25.80 inches per year).

EXTREMES.--Current year: Maximum discharge, 20,000 cfs Mar. 17 (gage height, 12.39 ft); minimum, 217 cfs Sept. 3, 4, 6 (gage height, 1.42 ft).
Period of record: Maximum discharge, 32,700 cfs Aug. 30, 1940 (gage height, 15.82 ft, from floodmark in gage house), from rating curve extended above 12,000 cfs on basis of slope-area measurements at gage heights 14.94 and 15.82 ft; minimum, 81 cfs Sept. 30, 1941; minimum gage height, 0.81 ft Sept. 8, 1954.
Floods of June 1876 and February 1902 reached a stage of about 18 ft, from flood profiles by Tennessee Valley Authority (discharge, about 42,000 cfs).

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 cfs-days). (See p. 187). Water quality records collected 2.2 miles downstream from station for the current year are published in Part 2 of this report.

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	469	503	779	851	961	624	1,350	992	1,320	554	413	238
2	321	476	677	762	4,490	619	1,160	930	1,170	539	397	228
3	278	633	642	622	2,090	872	1,080	1,080	1,070	581	456	224
4	272	529	622	1,340	1,620	752	1,070	984	990	527	381	222
5	2,040	474	603	949	1,390	1,340	1,000	867	915	501	388	225
6	756	451	854	936	1,570	929	1,070	827	1,040	469	368	223
7	495	514	780	875	1,360	1,010	2,000	803	1,010	461	395	227
8	418	1,210	675	893	1,540	1,460	2,110	1,600	875	500	468	233
9	373	687	1,080	813	1,490	1,180	1,710	1,380	886	609	396	356
10	339	601	1,210	765	1,230	1,200	1,440	1,090	833	489	398	395
11	323	558	1,310	735	1,090	1,320	1,160	1,270	780	493	439	268
12	311	523	1,090	689	1,040	1,860	1,000	1,040	750	448	382	239
13	343	500	956	659	977	1,310	1,010	949	928	415	382	247
14	347	1,350	890	660	1,210	1,150	950	895	812	409	407	411
15	311	799	4,060	659	1,250	1,590	919	855	755	485	356	332
16	293	676	2,280	643	1,020	9,530	820	814	926	448	324	264
17	545	622	1,540	634	918	10,500	806	790	1,080	441	325	266
18	505	580	1,300	644	892	3,810	1,030	756	849	466	545	401
19	699	741	1,130	895	866	2,850	885	734	781	509	370	308
20	534	1,260	1,110	790	833	2,360	854	752	820	480	333	263
21	437	796	1,540	696	796	2,160	747	706	815	473	335	248
22	401	728	2,030	2,440	756	1,850	715	672	748	451	309	243
23	401	663	1,460	1,420	735	1,640	689	672	673	597	300	241
24	498	615	1,260	1,110	710	1,500	688	1,110	625	608	290	233
25	422	671	1,200	969	689	1,450	1,180	856	582	526	289	256
26	385	980	1,070	929	679	1,520	1,210	764	558	500	287	236
27	406	729	975	1,400	677	1,330	1,830	1,010	549	753	277	225
28	1,480	700	904	1,050	651	1,220	1,540	7,420	913	511	269	249
29	761	694	847	1,020	-----	1,210	1,200	2,630	681	437	263	257
30	604	784	808	883	-----	1,260	1,080	1,840	571	401	256	250
31	544	-----	839	854	-----	1,380	-----	1,490	-----	390	247	-----
TOTAL	16,311	21,041	36,521	28,795	33,530	62,836	34,313	38,578	25,305	15,471	11,045	8,008
MEAN	526	701	1,178	929	1,198	2,027	1,144	1,244	844	499	356	267
MAX	2,040	1,350	4,060	2,440	4,490	10,500	2,110	7,420	1,320	753	545	411
MIN	272	451	603	634	651	619	688	672	549	390	247	222

CAL YR 1972 TOTAL 283,684 MEAN 775 MAX 7,470 MIN 224
WTR YR 1973 TOTAL 331,754 MEAN 909 MAX 10,500 MIN 222

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1545	7.84	7,590	3-17	0200	12.39	20,000
2-2	0645	8.15	8,240	5-28	0800	11.58	17,400

TENNESSEE RIVER BASIN

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 downstream from bridge on State Highway 284, 500 ft upstream from Little Cataloochee Creek, 2 miles north of Cataloochee, and 3.7 miles upstream from mouth.

DRAINAGE AREA.--49.2 sq mi.

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 above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--30 years, 109 cfs (30.09 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,760 cfs Mar. 16 (gage height, 7.87 ft); minimum, 41 cfs all or part of each day Sept. 3, 4, 8, 25-30 (gage height, 2.18 ft).
Period of record: Maximum discharge, 5,080 cfs Mar. 6, 1963 (gage height, 8.08 ft); minimum, 9 cfs Jan. 2, 1940, Dec. 17, 24, 1943 (gage height, 1.87 ft), 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 miles upstream published in reports of National Climatic Center, NOAA, U. S. Department of Commerce.

REVISIONS.--WSP 823: Drainage area.

DISCHARGE. IN CURIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	115	140	158	158	97	147	189	171	94	80	46
2	82	111	133	148	453	100	138	171	155	89	70	45
3	70	143	129	173	286	113	131	179	147	84	64	43
4	69	115	122	205	226	102	135	152	133	81	61	43
5	623	109	120	178	197	148	124	143	126	79	59	44
6	237	105	145	173	224	118	120	133	135	75	58	43
7	163	130	124	168	193	116	259	126	118	71	83	46
8	130	153	122	168	278	140	251	203	115	91	97	42
9	110	131	501	150	286	126	212	164	107	78	84	137
10	98	125	757	143	247	121	187	155	101	75	86	86
11	90	118	720	136	216	168	169	181	97	71	96	52
12	84	111	471	130	193	175	159	157	115	67	91	47
13	92	107	415	130	177	158	147	147	107	63	98	55
14	79	147	355	120	202	147	138	140	97	67	130	75
15	74	114	663	115	179	286	131	131	101	75	96	55
16	70	110	535	102	162	2,690	126	124	229	67	83	49
17	130	107	407	102	151	1,720	129	122	212	67	79	53
18	115	103	338	106	145	733	124	113	198	104	96	76
19	188	147	296	138	140	500	122	111	155	84	73	54
20	153	154	282	113	134	395	115	113	164	82	71	49
21	129	136	313	110	127	347	109	101	162	73	67	47
22	116	132	324	248	121	283	105	97	155	75	64	46
23	118	122	292	189	117	248	103	103	138	107	61	45
24	116	116	267	163	113	226	101	157	124	93	58	44
25	105	136	249	146	110	212	157	111	115	105	57	42
26	100	141	214	145	108	198	164	107	109	103	55	41
27	114	127	208	149	105	181	262	111	103	103	53	42
28	177	138	194	140	101	167	300	656	133	82	51	42
29	142	133	181	141	-----	164	243	332	108	77	50	41
30	131	145	170	134	-----	157	215	237	97	71	49	47
31	123	-----	175	125	-----	164	-----	195	-----	68	48	-----
TOTAL	4,133	3,781	9,362	4,546	5,149	10,500	4,823	5,161	4,027	2,521	2,268	1,577
MEAN	133	126	302	147	184	339	161	166	134	81.3	73.2	52.6
MAX	623	154	757	248	453	2,690	300	656	229	107	130	137
MIN	69	103	120	102	101	97	101	97	97	63	48	41
CFSM	2.70	2.56	6.14	2.99	3.74	6.89	3.27	3.37	2.72	1.65	1.49	1.07
IN.	3.12	2.86	7.08	3.44	3.89	7.94	3.65	3.90	3.04	1.91	1.71	1.19

CAL YR 1972 TOTAL 55,538 MEAN 152 MAX 970 MIN 38 CFSM 3.09 IN 41.99
WTR YR 1973 TOTAL 57,848 MEAN 158 MAX 2,690 MIN 41 CFSM 3.21 IN 43.74

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-5	0445	4.76	1,090	3-16	2030	7.87	4,760
12-10	1700	4.92	1,220	5-28	0745	4.87	1,180
12-15	1030	4.73	1,060				

TENNESSEE RIVER BASIN

171

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 upstream from bridge on Secondary Road 1167, 0.3 mile downstream from Whiteoak Creek, 1.9 miles southeast of Celo, and at mile 20.1.

DRAINAGE AREA.--43.4 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 2,658 ft above mean sea level.

AVERAGE DISCHARGE.--16 years, 141 cfs (44.12 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,630 cfs Sept. 25 (gage height, 6.34 ft); minimum, 19 cfs Sept. 6 (gage height, 0.54 ft).

Period of record: Maximum discharge, 13,900 cfs June 20, 1972 (gage height, 9.87 ft), from rating curve extended above 4,500 cfs on basis of slope-area measurement of peak flow; minimum, 14 cfs 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	66	102	126	271	89	232	204	211	78	75	30
2	35	60	90	113	1,370	91	195	186	190	76	69	29
3	31	72	84	135	430	165	178	194	176	70	86	27
4	30	61	81	208	313	126	172	173	163	67	80	27
5	350	55	79	144	265	307	157	155	155	63	86	26
6	92	52	168	134	283	195	146	145	165	60	78	25
7	59	108	121	126	252	225	244	137	154	59	74	26
8	49	236	103	124	237	283	272	365	142	60	69	26
9	42	110	188	110	210	256	211	258	133	58	64	32
10	38	90	249	105	186	302	197	206	127	81	62	37
11	36	79	214	103	175	357	172	242	119	72	65	29
12	35	72	166	105	160	338	162	193	113	56	57	26
13	36	69	148	100	149	243	151	174	110	52	57	29
14	35	235	133	100	197	208	142	161	103	58	58	134
15	33	122	671	90	182	263	135	149	116	76	55	58
16	31	100	311	83	153	1,410	130	139	136	56	47	39
17	91	89	229	84	149	1,390	165	132	108	52	45	36
18	66	80	192	88	161	563	176	125	98	51	60	82
19	116	148	164	153	132	419	219	119	107	50	49	51
20	74	196	150	123	123	352	185	117	133	53	47	40
21	57	126	253	108	117	318	162	109	117	62	47	36
22	51	110	336	344	112	274	148	104	119	49	42	35
23	49	96	233	202	106	244	138	107	102	70	40	33
24	58	87	198	161	103	222	131	154	92	95	39	31
25	49	127	180	141	100	234	210	130	86	95	40	1,100
26	45	178	162	155	100	247	215	110	82	92	37	168
27	59	119	144	279	100	219	680	180	84	97	35	154
28	265	106	134	202	93	200	354	1,640	114	69	33	123
29	110	97	125	199	-----	197	270	414	97	59	32	96
30	82	110	119	167	-----	203	232	293	79	53	35	103
31	72	-----	141	152	-----	244	-----	241	-----	72	32	-----
TOTAL	2,228	3,256	5,668	4,464	6,229	10,184	6,181	7,056	3,731	2,061	1,695	2,688
MEAN	71.9	109	183	144	222	329	206	228	124	66.5	54.7	89.6
MAX	350	236	671	344	1,370	1,410	680	1,640	211	97	86	1,100
MIN	30	52	79	83	93	89	130	104	79	49	32	25
CFSM	1.66	2.51	4.22	3.32	5.12	7.58	4.75	5.25	2.86	1.53	1.26	2.06
IN.	1.91	2.79	4.86	3.83	5.34	8.73	5.30	6.05	3.20	1.77	1.45	2.30

CAL YR 1972 TOTAL 56,160 MEAN 153 MAX 5,490 MIN 24 CFSM 3.53 IN 48.14
WTR YR 1973 TOTAL 55,441 MEAN 152 MAX 1,640 MIN 25 CFSM 3.50 IN 47.52

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 2	0245	4.67	3,410	5-28	0130	5.90	4,960
3-16	2145	4.85	3,630	9-25	0445	6.34	5,630

TENNESSEE RIVER BASIN

03479000 Watauga River near Sugar Grove, N. C.

LOCATION.--Lat 36°14'18", long 81°49'22", Watauga County, on right bank 250 ft upstream from bridge on Secondary Road 1121, 300 ft downstream from Cove Creek, 2.3 miles southwest of Sugar Grove, and at mile 64.4.

DRAINAGE AREA.--90.8 sq mi.

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 above mean sea level.

AVERAGE DISCHARGE.--34 years, 166 cfs (24.83 inches per year).

EXTREMES.--Current year: Maximum discharge, 15,200 cfs May 28 (gage height, 16.26 ft); minimum, 34 cfs Sept. 9 (gage height, 1.50 ft).

Period of record: Maximum discharge, 50,800 cfs Aug. 13, 1940 (gage height, 29.6 ft, from profile based on floodmarks), from rating curve extended above 4,900 cfs on basis of slope-area measurement of peak flow; minimum, 6.5 cfs Jan. 1, 1954 (gage height, 1.13 ft), result of freezeup; minimum daily, 13 cfs Sept. 19, 30, 1954.

Flood of July 1916 reached a stage of 22.1 ft, from floodmarks on barn a quarter of a mile above station as witnessed by local resident (discharge, 28,000 cfs, from rating curve extended above 4,900 cfs on basis of slope-area measurement at gage height 29.6 ft).

REMARKS.--Records good. Slight diurnal fluctuation at low flow caused by small mills above 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	64	112	131	255	103	339	309	338	81	100	43
2	49	61	99	121	2,360	99	299	266	275	77	94	41
3	43	66	94	131	859	178	261	284	234	71	138	40
4	42	60	92	169	509	150	253	242	213	75	107	40
5	287	56	86	145	379	504	222	208	187	77	91	42
6	130	53	158	135	360	342	197	191	180	66	109	37
7	82	58	142	127	319	315	252	178	183	67	89	37
8	63	230	119	159	301	319	311	279	161	67	81	36
9	54	132	150	120	273	300	267	274	146	65	74	96
10	49	101	199	113	241	284	260	216	138	103	77	113
11	47	86	256	111	218	331	234	288	130	82	127	64
12	45	76	231	110	196	389	218	226	141	62	82	49
13	46	73	199	110	182	318	199	202	177	55	73	43
14	44	245	176	110	206	275	182	184	125	56	73	266
15	42	154	452	106	207	296	169	201	126	81	84	140
16	42	130	407	96	179	2,310	161	193	134	76	68	79
17	52	105	375	101	283	3,720	207	182	154	59	63	63
18	49	92	220	102	199	1,060	208	154	195	54	101	61
19	76	123	189	202	165	622	209	136	119	51	77	56
20	59	224	175	184	143	460	195	136	108	61	71	52
21	51	152	210	151	137	467	179	125	133	86	70	50
22	48	131	420	653	129	401	169	115	140	58	67	49
23	47	114	318	440	124	342	162	132	109	68	61	47
24	48	100	260	292	117	298	157	209	94	64	57	53
25	46	117	229	227	112	307	172	171	86	119	56	49
26	44	183	205	218	112	336	213	143	81	256	55	44
27	46	141	182	571	117	288	1,510	170	78	207	52	44
28	213	125	162	402	110	251	854	5,250	151	109	50	46
29	115	111	146	362	-----	254	501	1,070	132	85	47	45
30	81	114	137	285	-----	267	378	593	91	74	46	53
31	70	-----	142	243	-----	307	-----	426	-----	76	45	-----
TOTAL	2,174	3,477	6,342	6,427	8,792	15,893	8,938	12,753	4,559	2,588	2,385	1,878
MEAN	70.1	116	205	207	314	513	298	411	152	83.5	76.9	62.6
MAX	287	245	452	653	2,360	3,720	1,510	5,250	338	256	138	266
MIN	42	53	86	96	110	99	157	115	78	51	45	36
CFSM	.77	1.28	2.26	2.28	3.46	5.65	3.28	4.53	1.67	.92	.85	.69
IN.	.89	1.42	2.60	2.63	3.60	6.51	3.66	5.22	1.87	1.06	.98	.77

CAL YR 1972 TOTAL 65,673 MEAN 179 MAX 2,590 MIN 34 CFSM 1.97 IN 26.91
WTR YR 1973 TOTAL 76,206 MEAN 209 MAX 5,250 MIN 36 CFSM 2.30 IN 31.22

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 2	0515	9.24	4,390	4-27	1200	6.74	2,160
3-17	0030	11.84	7,710	5-28	0345	16.26	15,200

TENNESSEE RIVER BASIN

173

03500000 Little Tennessee River near Prentiss, N. C.

LOCATION.--Lat 35°08'57", long 83°22'46", Macon County, on left bank 600 ft upstream from Owenby Branch, 0.5 mile upstream from Cartoogechaye Creek, 2 miles north of Prentiss, and at mile 119.5.

DRAINAGE AREA.--140 sq mi.

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 above mean sea level (levels by Tennessee Valley Authority). Since Oct. 1, 1954, auxiliary water-stage recorder 0.5 mile downstream from base gage at same datum.

AVERAGE DISCHARGE.--30 years, 383 cfs (37.15 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,700 cfs May 28; maximum gage height, 12.45 ft May 28; minimum discharge, 148 cfs Oct. 18 (gage height, 1.70 ft).

Period of record: Maximum discharge, 12,200 cfs Oct. 4, 1964; maximum gage height, 17.30 ft Oct. 4, 1964; minimum discharge, 65 cfs Oct. 16, 17, 1954 (gage height, 1.21 ft).

Flood in October 1898 reached a stage of about 15 ft, 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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	287	285	434	617	663	455	949	711	871	409	356	206
2	205	265	392	551	2,210	455	804	670	795	401	358	195
3	178	577	371	587	1,500	631	728	689	731	393	290	184
4	166	424	354	813	995	569	697	649	680	406	268	175
5	444	350	342	670	851	819	650	602	876	377	255	178
6	284	310	548	633	810	659	617	578	1,130	356	244	178
7	218	366	498	589	756	669	906	558	918	342	305	175
8	192	829	442	608	920	950	1,050	1,250	762	350	317	184
9	174	516	436	551	894	790	807	1,290	718	397	266	188
10	165	427	435	525	767	712	731	866	745	358	268	186
11	158	379	454	500	701	772	674	827	809	341	339	170
12	156	343	428	479	659	1,040	640	738	677	319	322	167
13	193	322	412	458	630	800	610	681	755	309	268	189
14	208	608	423	447	854	711	583	641	662	327	242	385
15	166	451	1,320	446	863	795	564	610	734	570	247	230
16	156	391	1,500	446	723	1,810	548	583	760	401	229	197
17	153	357	810	439	658	3,090	555	566	695	371	422	191
18	214	331	671	443	624	1,700	571	544	624	341	654	368
19	342	441	600	594	597	1,210	775	531	577	324	413	220
20	227	686	596	550	576	1,040	720	609	582	312	334	195
21	199	490	891	497	556	964	632	533	610	303	293	185
22	186	437	1,340	1,390	537	866	592	506	570	290	265	178
23	203	399	967	929	521	801	566	488	525	297	251	176
24	301	368	798	715	503	757	545	668	493	288	241	173
25	231	410	738	631	490	823	923	562	473	290	237	167
26	209	516	669	648	483	843	1,100	507	465	420	247	163
27	253	421	617	921	508	755	1,460	752	444	485	226	165
28	852	409	580	722	473	705	1,070	4,500	489	356	221	231
29	488	397	547	654	-----	686	866	2,530	461	304	216	206
30	366	452	524	591	-----	705	770	1,180	423	280	208	188
31	315	-----	576	562	-----	868	-----	957	-----	270	212	-----
TOTAL	7,889	12,957	19,713	19,206	21,322	28,450	22,703	27,376	20,054	10,987	9,014	5,993
MEAN	254	432	636	620	762	918	757	883	668	354	291	200
MAX	852	829	1,500	1,390	2,210	3,090	1,460	4,500	1,130	570	654	385
MIN	153	265	342	439	473	455	545	488	423	270	208	163
CFSM	1.81	3.09	4.54	4.43	5.44	6.56	5.41	6.31	4.77	2.53	2.08	1.43
IN.	2.10	3.44	5.24	5.10	5.67	7.56	6.03	7.27	5.33	2.92	2.40	1.59

CAL YR 1972 TOTAL 145,188 MEAN 397 MAX 1,580 MIN 143 CFSM 2.84 IN 38.58
WTR YR 1973 TOTAL 205,664 MEAN 563 MAX 4,500 MIN 153 CFSM 4.02 IN 54.65

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	2045	5.55	-	4-27	1015	4.53	1,560
12-16	0200	-	2,000	5- 9	0015	4.92	1,760
1-22	1645	4.70	1,650	5-28	1715	12.45	-
2- 2	1615	6.61	-	5-28	1800	-	6,700
2- 2	1800	-	2,520				
3-17	1115	8.87	-				
3-17	1200	-	3,410				

TENNESSEE RIVER BASIN

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 mile downstream from unnamed creek, 1.8 miles south of Franklin, and 1.9 miles upstream from mouth.

DRAINAGE AREA.--57.1 sq mi.

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 above mean sea level.

AVERAGE DISCHARGE.--12 years, 145 cfs (34.49 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,550 cfs May 28 (gage height, 12.78 ft); minimum, 53 cfs Oct. 11 (gage height, 1.36 ft).

Period of record: Maximum discharge, 4,720 cfs Oct. 4, 1964 (gage height, 12.96 ft); minimum, 33 cfs Sept. 14, 1962, Aug. 30, 31, 1968.

Flood in June 1949 reached a stage of 15.6 ft, from studies by Tennessee Valley Authority (discharge about 7,000 cfs).

A discharge of 30.8 cfs was measured on Oct. 16, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	109	185	198	290	159	286	228	300	140	110	67
2	62	107	165	184	769	169	258	214	260	138	107	66
3	58	193	151	232	408	213	242	231	250	160	98	66
4	58	138	144	329	323	184	233	206	230	150	92	65
5	325	119	136	250	283	250	216	192	220	140	90	65
6	130	108	220	242	291	205	207	184	310	132	86	64
7	91	166	189	227	259	201	387	178	240	126	92	64
8	77	231	172	232	434	250	340	438	220	185	110	67
9	69	166	189	213	399	227	282	323	220	184	143	70
10	66	143	239	198	327	220	252	264	210	152	134	71
11	63	128	272	188	285	286	231	268	200	142	112	66
12	61	117	230	179	259	319	217	231	200	125	122	65
13	103	115	206	171	245	266	203	212	230	120	105	93
14	76	229	206	167	321	237	193	199	220	126	100	171
15	66	155	859	169	281	320	186	188	210	184	96	78
16	62	137	514	166	253	869	181	180	210	184	86	70
17	65	127	351	163	236	1,390	186	176	200	153	137	73
18	113	119	291	165	225	601	193	168	190	138	137	91
19	104	201	259	235	216	442	244	164	180	132	103	70
20	85	224	266	207	209	377	207	189	180	126	93	67
21	78	176	373	193	200	348	190	160	200	122	87	66
22	74	157	375	641	193	306	182	152	170	113	79	66
23	100	139	317	345	187	279	176	154	160	113	76	66
24	119	129	280	274	180	259	171	292	160	122	74	65
25	96	168	266	240	174	270	282	211	160	153	74	65
26	88	182	244	250	172	257	298	183	150	144	73	63
27	141	154	225	284	172	242	391	340	150	133	70	63
28	315	190	211	240	164	230	329	2,350	170	115	69	68
29	177	188	199	225	-----	236	279	644	150	108	73	66
30	136	213	191	206	-----	249	249	419	150	103	69	67
31	123	-----	218	198	-----	304	-----	333	-----	101	67	-----
TOTAL	3,254	4,728	8,143	7,211	7,755	10,165	7,291	9,671	6,100	4,264	2,964	2,164
MEAN	105	158	263	233	277	328	243	312	203	138	95.6	72.1
MAX	325	231	859	641	769	1,390	391	2,350	310	185	143	171
MIN	58	107	136	163	164	159	171	152	150	101	67	63
CFSM	1.84	2.77	4.61	4.08	4.85	5.74	4.26	5.46	3.56	2.42	1.67	1.26
IN.	2.12	3.08	5.31	4.70	5.05	6.62	4.75	6.30	3.97	2.78	1.93	1.41

CAL YR 1972 TOTAL 57,032 MEAN 156 MAX 867 MIN 52 CFSM 2.73 IN 37.16
WTR YR 1973 TOTAL 73,710 MEAN 202 MAX 2,350 MIN 58 CFSM 3.54 IN 48.02

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1445	7.14	1,270	5-28	1545	12.78	4,550
3-17	0300	9.12	1,800				

TENNESSEE RIVER BASIN

175

03503000 Little Tennessee River at Needmore, N. C.

LOCATION.--at 35°20'11", long 83°31'39", Swain County, on left bank 0.8 mile downstream from DeHart Creek, 0.8 mile north of Needmore, 2.4 miles downstream from Brush Creek, 6.3 miles downstream from Tellico Creek, and at mile 92.9.

DRAINAGE AREA.--436 sq mi.

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 above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--30 years, 1,051 cfs (32.74 inches per year).

EXTREMES.--Current year: Maximum discharge, 13,700 May 28 (gage height, 9.32 ft); minimum, 237 cfs Sept. 12 (gage height, 1.74 ft); minimum daily, 448 cfs Sept. 12, 27.

Period of record: Maximum discharge, 22,100 cfs Oct. 5, 1964 (gage height, 12.87 ft in gage well, 13.06 ft from outside gage); minimum, 52 cfs Nov. 7, 8, 1954 (gage height, 1.16 ft); minimum daily, 71 cfs Nov. 7, 1954.

Floods of October 1898 and Aug. 30, 1940, reached stages of about 13 and 11.5 ft, respectively, from flood profiles by Tennessee Valley Authority.

REMARKS.--Records good. Considerable diurnal fluctuation caused by Porters Bend powerplant at Lake Emory 20 miles upstream. Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	967	940	1,420	1,780	1,660	1,280	2,520	1,840	2,370	1,030	877	565
2	627	871	1,250	1,570	6,100	1,240	2,110	1,690	2,140	990	944	529
3	571	1,420	1,170	1,650	4,400	1,660	1,900	1,750	1,900	1,060	757	524
4	574	1,220	1,130	2,430	2,780	1,630	1,740	1,670	1,760	1,050	719	504
5	2,600	1,030	1,090	2,050	2,280	2,170	1,680	1,490	1,750	966	695	524
6	1,340	936	1,490	1,930	2,180	1,860	1,570	1,410	2,520	922	671	508
7	894	973	1,650	1,790	2,090	1,810	2,390	1,360	2,230	878	696	473
8	715	2,360	1,370	1,850	2,370	2,330	3,260	2,720	1,820	960	891	517
9	639	1,560	1,420	1,670	2,690	2,150	2,370	3,480	1,660	1,120	879	505
10	609	1,270	1,610	1,570	2,230	1,950	2,120	2,240	1,650	1,090	994	593
11	591	1,160	1,900	1,490	2,000	1,980	1,840	2,090	1,710	1,040	942	501
12	576	1,030	1,650	1,420	1,840	2,810	1,710	1,810	1,550	879	842	448
13	563	987	1,480	1,350	1,700	2,210	1,630	1,620	1,880	833	790	508
14	571	1,410	1,440	1,310	2,000	1,930	1,520	1,480	1,800	817	728	971
15	549	1,430	4,450	1,310	2,360	1,990	1,450	1,410	1,780	1,220	699	677
16	534	1,220	4,810	1,300	1,910	5,880	1,400	1,350	1,930	1,050	673	548
17	527	1,120	2,690	1,280	1,740	9,750	1,420	1,330	1,730	964	717	543
18	615	1,040	2,170	1,270	1,630	5,750	1,450	1,270	1,540	909	1,390	741
19	1,060	1,260	1,920	1,590	1,540	3,720	1,820	1,240	1,420	849	937	612
20	752	2,250	1,910	1,630	1,620	3,140	1,850	1,430	1,440	801	815	529
21	658	1,580	2,310	1,440	1,570	2,830	1,570	1,270	1,500	794	739	510
22	585	1,380	3,780	3,700	1,570	2,480	1,440	1,180	1,460	758	660	493
23	646	1,250	2,880	2,990	1,350	2,220	1,370	1,160	1,320	809	634	472
24	867	1,150	2,410	2,200	1,420	2,080	1,330	1,860	1,220	840	637	485
25	726	1,200	2,230	1,900	1,380	2,060	2,110	1,570	1,160	924	631	492
26	673	1,620	2,020	1,780	1,360	2,330	2,460	1,370	1,100	1,020	635	460
27	718	1,330	1,450	2,500	1,380	2,010	3,870	1,400	1,080	1,150	585	448
28	2,550	1,260	1,720	2,080	1,330	1,830	3,030	11,900	1,390	894	575	484
29	1,660	1,330	1,610	1,890	-----	1,770	2,360	7,750	1,180	797	568	545
30	1,190	1,380	1,530	1,680	-----	1,880	2,030	3,520	1,050	752	579	518
31	1,060	-----	1,630	1,580	-----	2,180	-----	2,700	-----	711	541	-----
TOTAL	27,207	39,367	62,020	55,980	58,480	80,960	59,370	70,360	49,040	28,877	23,440	16,227
MEAN	878	1,312	2,001	1,806	2,089	2,612	1,979	2,270	1,635	932	756	541
MAX	2,600	2,360	4,810	3,700	6,100	9,750	3,870	11,900	2,520	1,220	1,390	971
MIN	527	871	1,090	1,270	1,330	1,280	1,330	1,160	1,050	711	541	448
CFSM	2.01	3.01	4.59	4.14	4.79	5.99	4.54	5.21	3.75	2.14	1.73	1.24
IN.	2.32	3.36	5.29	4.78	4.99	6.91	5.07	6.00	4.18	2.46	2.00	1.38

CAL YR 1972 TOTAL 437,799 MEAN 1.196 MAX 5.090 MIN 392 CFSM 2.74 IN 37.35
WTR YR 1973 TOTAL 571,328 MEAN 1.565 MAX 11.900 MIN 448 CFSM 3.59 IN 48.75

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1615	6.44	6,710	3-17	0930	8.06	10,600
2-2	1230	6.59	7,060	5-28	1330	9.32	13,700

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 upstream from Roaring Fork, 0.2 mile downstream from Buck Creek, 5 miles downstream from town of Rainbow Springs, and at mile 34.3.

DRAINAGE AREA.--51.9 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 3,072.97 ft above mean sea level.

AVERAGE DISCHARGE.--33 years, 201 cfs (52.59 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,250 cfs May 28 (gage height, 7.48 ft); minimum, 73 cfs Oct. 12, 13, 15, 16, 17, 18 (gage height, 0.88 ft).
Period of record: Maximum discharge, 6,300 cfs June 16, 1949 (gage height, 9.70 ft), from rating curve extended above 3,000 cfs on basis of slope-area measurement of peak flow; minimum, 33 cfs Nov. 18, 19, 1953 (gage height, 0.60 ft).

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	145	246	295	397	187	352	359	527	168	152	102
2	83	160	228	263	782	196	320	334	445	180	131	95
3	77	351	215	314	485	279	299	374	398	165	116	95
4	75	212	206	401	404	216	290	315	383	185	108	97
5	226	186	197	322	369	295	270	292	358	160	107	99
6	108	170	369	320	383	240	256	277	479	150	106	99
7	91	292	279	301	334	255	424	264	375	151	122	99
8	84	317	260	297	610	323	376	623	328	168	151	106
9	80	243	277	264	490	279	330	438	317	172	140	108
10	77	218	341	249	413	275	306	379	306	155	229	104
11	74	199	359	238	371	377	286	374	283	148	141	99
12	74	184	320	226	343	373	273	333	281	135	180	99
13	114	185	305	216	326	324	258	308	326	131	141	149
14	83	344	325	209	434	293	246	290	327	141	142	182
15	76	225	1,050	204	360	400	236	275	300	199	130	102
16	73	206	676	196	326	1,120	229	262	308	163	118	97
17	77	195	507	194	304	1,290	245	249	304	157	260	115
18	169	189	430	199	285	813	264	231	283	145	270	110
19	139	286	384	350	273	639	377	236	260	138	182	97
20	107	264	398	253	262	547	293	298	261	133	170	97
21	96	227	530	246	250	501	269	227	285	130	146	95
22	92	215	515	640	239	436	255	214	251	126	136	95
23	199	197	445	376	229	392	244	230	230	158	129	93
24	173	187	401	323	220	364	235	454	216	154	124	93
25	132	240	382	292	213	398	534	319	212	205	122	91
26	119	239	350	311	209	364	532	266	198	188	113	87
27	170	206	322	334	203	328	718	543	190	176	117	89
28	327	266	300	295	193	311	539	2,420	240	140	110	95
29	199	240	282	281	-----	314	446	968	189	132	110	89
30	170	283	268	256	-----	318	394	706	192	134	102	91
31	159	-----	323	247	-----	392	-----	575	-----	128	97	-----
TOTAL	3,819	6,871	11,490	8,912	9,711	12,841	10,096	13,433	9,052	4,815	4,402	3,069
MEAN	123	229	371	287	347	414	337	433	302	155	142	102
MAX	327	351	1,050	640	782	1,290	718	2,420	527	205	270	182
MIN	73	145	197	194	193	187	229	214	189	126	97	87
CFSM	2.37	4.41	7.15	5.53	6.69	7.98	6.49	8.34	5.82	2.99	2.74	1.97
IN.	2.74	4.92	8.24	6.39	6.96	9.20	7.24	9.63	6.49	3.45	3.16	2.20

CAL YR 1972 TOTAL 84,626 MEAN 231 MAX 1,080 MIN 70 CFSM 4.45 IN 60.66
WTR YR 1973 TOTAL 98,511 MEAN 270 MAX 2,420 MIN 73 CFSM 5.20 IN 70.61

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1000	4.54	1,930	5-28	0500	7.48	4,250
3-16	2045	5.39	2,540				

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 mile northeast of Nantahala, 2.3 miles downstream from Rowlin Creek, 2.8 miles downstream from Nantahala Dam powerhouse, and at mile 10.8.

DRAINAGE AREA.--144 sq mi.

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

GAGE.--Water-stage recorder. Datum of gage is 1,894.68 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--31 years, 492 cfs (46.40 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 5,480 cfs May 28 (gage height, 7.10 ft); minimum, 28 cfs Sept. 26, 27, 28, 29 (gage height, 1.45 ft); minimum daily, 48 cfs Sept. 30.

Period of record: Maximum discharge, 7,510 cfs Feb. 10, 1946 (gage height, 8.15 ft); minimum, 16 cfs Nov. 9, 1953, Dec. 16, 1958; minimum gage height, 1.19 ft Nov. 9, 1953; minimum daily discharge, 17 cfs Nov. 8, 16, 1952, Oct. 25, 1953.

REMARKS.--Records good. Flow regulated by Nantahala Lake 12 miles upstream (see p. 186) and Queens Creek Lake (capacity, about 300 cfs-days). Water quality records for the current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	549	634	822	747	759	826	835	1,220	567	546	679
2	442	550	742	818	1,040	577	818	822	921	536	525	522
3	462	600	138	841	879	542	813	836	857	563	416	475
4	495	547	560	859	879	522	809	813	825	548	152	685
5	1,110	143	570	837	817	570	792	805	852	533	56	626
6	680	557	613	837	830	554	778	799	982	533	418	624
7	785	564	803	829	817	567	909	795	902	581	399	623
8	773	732	606	828	974	592	862	962	814	587	416	619
9	331	791	700	819	943	562	836	898	798	569	755	631
10	85	637	895	813	857	534	822	871	788	483	777	635
11	80	548	882	808	826	597	809	1,030	789	457	544	625
12	78	193	914	804	815	594	801	845	777	474	402	623
13	129	572	873	798	803	593	795	818	853	447	497	664
14	87	678	864	795	831	667	789	807	842	321	714	78
15	79	660	1,360	798	809	799	786	802	803	81	710	207
16	81	704	1,150	796	802	1,670	782	794	783	463	701	132
17	411	611	992	704	795	1,760	788	788	614	482	716	397
18	569	653	924	694	788	1,430	782	780	602	480	570	420
19	577	645	881	742	783	1,120	796	768	603	491	582	398
20	588	599	885	593	781	1,220	776	775	608	495	700	424
21	488	633	932	571	774	1,270	746	771	595	488	480	428
22	469	801	925	641	772	930	580	608	594	414	693	426
23	502	622	890	723	701	890	635	610	554	545	696	338
24	498	800	871	785	552	875	568	690	559	505	694	417
25	516	667	872	780	616	1,050	690	828	565	546	690	425
26	695	640	858	786	540	846	704	812	571	499	412	431
27	560	579	876	720	656	834	1,010	906	562	491	690	451
28	648	592	839	651	743	825	972	3,280	595	372	678	416
29	526	628	832	651	-----	826	896	2,000	565	184	694	424
30	547	694	827	551	-----	824	857	1,430	561	510	689	48
31	581	-----	834	565	-----	845	-----	1,200	-----	555	693	-----
TOTAL	14,026	18,189	25,542	23,259	22,170	26,244	23,827	29,778	21,954	14,800	17,705	13,891
MEAN	452	606	824	750	792	847	794	961	732	477	571	463
MAX	1,110	801	1,360	859	1,040	1,760	1,010	3,280	1,220	587	777	685
MIN	78	143	138	551	540	522	568	608	554	81	56	48
(†)	-70.0	-388.6	+4,725.3	-1,834.3	+1,204.9	+4,499.7	-46.8	+186.4	-1,113.2	-2,005.5	-6,204.4	-6,496.7
MEAN†	450	593	976	691	835	992	793	967	695	413	371	246
CFSM†	3.12	4.12	6.78	4.80	5.80	6.89	5.51	6.72	4.83	2.87	2.58	1.71
IN.†	3.60	4.60	7.82	5.53	6.04	7.94	6.14	7.74	5.38	3.30	2.97	1.91
CAL YR 1972	TOTAL 216,879	MEAN 593	MAX 1,360	MIN 76	MEAN† 603	CFSM† 4.19	IN.† 57.00					
WTR YR 1973	TOTAL 251,385	MEAN 689	MAX 3,280	MIN 48	MEAN† 668	CFSM† 4.64	IN.† 62.97					

† 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.

TENNESSEE RIVER BASIN

03508000 Tuckasegee River at Tuckasegee, N. C.

LOCATION.--Lat 35°16'55", long 83°07'37", Jackson County, on right bank 0.9 mile north of Tuckasegee, 1.1 miles downstream from bridge on State Highway 107 and West Fork Tuckasegee River, 10.8 miles downstream from Thorpe Dam, and at mile 48.5.

DRAINAGE AREA.--143 sq mi.

PERIOD OF RECORD.--June 1934 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,125.16 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--39 years, 396 cfs (37.61 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 3,780 cfs May 28 (gage height, 10.83 ft); minimum, 12 cfs Oct. 15 (gage height, 0.69 ft); minimum daily, 29 cfs Oct. 8.

Period of record: Maximum discharge, 40,800 cfs Aug. 30, 1940 (gage height, 21.1 ft, from floodmarks), from rating curve extended above 13,500 cfs on basis of slope-area measurements at gage heights 14.3 and 21.1 ft; minimum, 5.2 cfs Sept. 3, 1956 (gage height, 0.54 ft); minimum daily, 6.4 cfs 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. 186,188).

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 1053: 1943.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	152	232	661	667	643	613	906	643	1,020	246	467	290		
2	273	331	510	643	1,230	571	843	643	930	318	330	162		
3	277	357	76	637	1,150	510	843	721	944	540	480	141		
4	340	384	510	787	1,010	403	752	691	979	270	129	374		
5	679	44	362	505	983	655	667	583	891	535	31	394		
6	371	239	619	613	983	649	703	135	944	658	298	394		
7	42	407	673	554	927	431	927	532	735	188	326	404		
8	29	739	601	560	934	685	976	843	839	191	298	302		
9	273	521	538	560	990	583	864	773	859	395	440	412		
10	302	527	538	583	969	577	565	727	729	570	630	338		
11	285	197	500	565	871	601	595	745	674	636	235	399		
12	285	68	500	577	843	739	583	565	615	625	256	366		
13	426	516	366	649	836	727	532	549	610	318	274	422		
14	135	721	505	543	913	549	577	560	580	194	390	182		
15	57	583	1,030	485	899	667	625	613	575	207	378	71		
16	285	571	920	436	703	1,460	801	554	729	242	374	71		
17	302	571	787	441	607	2,780	794	436	600	298	480	274		
18	322	251	613	450	637	1,510	752	549	600	302	270	302		
19	403	362	560	543	583	1,270	727	577	560	298	214	298		
20	417	625	794	455	583	1,110	470	344	600	515	358	282		
21	183	549	703	74	625	1,030	403	366	580	211	362	298		
22	173	637	934	864	667	983	407	521	724	173	366	210		
23	214	470	934	759	619	976	475	565	663	440	366	77		
24	149	583	892	727	601	955	554	703	121	515	382	194		
25	130	251	871	815	565	969	601	532	431	395	290	322		
26	152	340	850	850	571	927	752	322	476	330	176	290		
27	183	673	643	637	565	857	941	948	449	641	370	165		
28	495	521	661	601	631	836	920	4,690	490	165	471	334		
29	357	398	637	549	-----	850	843	1,720	462	94	466	173		
30	200	554	655	554	-----	836	780	1,200	540	274	453	83		
31	170	-----	843	613	-----	948	-----	1,050	-----	270	408	-----		
TOTAL	8,061	13,222	20,286	18,296	22,138	27,257	21,178	24,406	19,949	11,054	10,768	8,024		
MEAN	260	441	654	590	791	879	706	787	665	357	347	267		
MAX	679	739	1,030	864	1,230	2,780	976	4,690	1,020	658	630	422		
MIN	29	44	76	74	565	403	403	135	121	94	31	71		
(†)	-94	+45	-210	+1,706	+88	+4,874	-692	+2,305	-2,342	-1,584	4,737	3,409		
MEAN†	257	442	648	645	794	1,036	683	862	587	305	195	154		
CFSM†	1.80	3.09	4.53	4.51	5.55	7.24	4.78	6.03	4.10	2.13	1.36	1.08		
IN.†	2.07	3.45	5.22	5.20	5.78	8.36	5.33	6.95	4.58	2.46	1.57	1.20		
CAL YR 1972	TOTAL	149,786	MEAN	409	MAX	1,060	MIN	29	MEAN†	406	CFSM†	2.85	IN.†	38.67
WTR YR 1973	TOTAL	204,639	MEAN	561	MAX	4,690	MIN	29	MEAN†	550	CFSM†	3.85	IN.†	52.17

† 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.

TENNESSEE RIVER BASIN

179

03509000 Scott Creek above Sylva, N. C.

LOCATION.--Lat 35°23'02", long 83°12'51", Jackson County, on right bank 100 ft downstream from bridge on Secondary Road 1431, 800 ft downstream from Allens Branch, 0.7 mile upstream from Cope Creek, 0.8 mile upstream from Sylva, and 3.3 miles upstream from mouth.

DRAINAGE AREA.--50.7 sq mi.

PERIOD OF RECORD.--June 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,056.42 ft above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--32 years, 113 cfs (30.27 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,800 cfs May 28 (gage height, 8.78 ft); minimum, 43 cfs Oct. 3, 4, 15, 16 (gage height, 2.84 ft).

Period of record: Maximum discharge, 2,800 cfs May 28, 1973 (gage height, 8.78 ft); minimum, 8.0 cfs Sept. 22, 23, 1941 (gage height, 1.30 ft); minimum daily, 22 cfs Sept. 19, 29, 30, Oct. 4, 1954.

Flood of Aug. 30, 1940, reached a stage of 8.6 ft, from floodmarks (discharge, about 3,200 cfs) from rating curve extended above 1,800 cfs.

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

REVISIONS (WATER YEARS).--WSP 1053: 1942-44(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	85	141	134	202	104	205	212	283	120	95	59
2	54	87	128	122	428	107	185	199	253	118	87	57
3	46	153	119	170	247	117	175	264	236	120	81	56
4	45	96	116	206	210	111	174	214	216	112	78	59
5	414	87	111	156	191	180	161	196	214	107	76	58
6	107	81	200	161	232	124	153	180	284	103	74	55
7	76	170	141	152	192	126	320	172	216	139	81	55
8	64	187	136	154	247	198	255	351	201	144	82	61
9	57	118	277	137	210	150	219	255	186	121	85	68
10	52	104	354	128	188	137	201	228	177	145	104	67
11	49	95	349	123	176	212	188	268	169	127	88	56
12	48	88	293	115	166	191	178	214	163	104	78	54
13	62	90	250	112	160	161	167	199	181	98	102	69
14	50	226	243	110	205	149	159	186	168	117	103	91
15	46	118	794	112	174	256	154	173	227	131	76	62
16	44	105	394	108	156	887	150	164	275	102	72	57
17	94	97	295	110	145	786	172	157	211	114	84	68
18	110	92	248	112	141	490	163	148	177	104	91	72
19	124	194	217	172	138	390	174	144	165	100	73	57
20	84	166	211	133	134	342	156	152	159	187	72	55
21	70	123	260	124	128	325	144	131	156	133	76	54
22	64	118	253	249	123	284	139	123	148	101	69	52
23	123	105	213	165	121	260	133	125	138	99	67	53
24	114	99	195	149	116	243	130	298	131	113	66	53
25	84	161	185	136	114	234	260	176	126	129	65	51
26	76	164	171	150	113	225	266	196	122	127	65	50
27	104	128	157	154	112	208	386	381	119	135	62	50
28	253	133	148	145	106	195	308	1,190	238	98	61	51
29	125	120	139	140	-----	201	261	486	145	91	61	53
30	102	174	133	125	-----	203	233	356	125	86	60	55
31	93	-----	140	122	-----	246	-----	306	-----	88	63	-----
TOTAL	2,905	3,764	7,011	4,386	4,875	7,842	5,969	7,844	5,609	3,613	2,397	1,758
MEAN	93.7	125	226	141	174	253	199	253	187	117	77.3	58.6
MAX	414	226	794	249	428	887	386	1,190	284	187	104	91
MIN	44	81	111	108	106	104	130	123	119	86	60	50
CFSM	1.85	2.47	4.46	2.78	3.43	4.99	3.93	4.99	3.69	2.31	1.52	1.16
IN.	2.13	2.76	5.14	3.22	3.58	5.75	4.38	5.76	4.12	2.65	1.76	1.29

CAL YR 1972 TOTAL 48,765 MEAN 133 MAX 794 MIN 40 CFSM 2.62 IN 35.78
WTR YR 1973 TOTAL 57,973 MEAN 159 MAX 1,190 MIN 44 CFSM 3.14 IN 42.54

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	0915	7.16	1,740	5-28	0130	8.78	2,800
3-16	2030	7.57	1,980	7-20	2000	6.26	1,210

TENNESSEE RIVER BASIN

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 mile downstream from Scott Creek, 0.5 mile downstream from bridge on U. S. Highway 23 at Dillsboro, and at mile 31.1.

DRAINAGE AREA.--347 sq mi.

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 above mean sea level (levels by Tennessee Valley Authority). Prior to May 24, 1934, nonrecording gage at site below Scott Creek 0.4 mile upstream at datum 7.27 ft higher.

AVERAGE DISCHARGE.--45 years, 777 cfs (30.41 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 20,400 cfs May 28 (gage height, 14.14 ft); minimum, 135 cfs Oct. 16 (gage height, 2.14 ft); minimum daily, 263 cfs Sept. 16.

Period of record: Maximum discharge, 52,600 cfs Aug. 30, 1940 (gage height, 21.96 ft, from floodmarks), from rating curve extended above 8,400 cfs on basis of slope-area measurement and computation of peak flow over dam; minimum, 35 cfs Sept. 17, 1953 (gage height, 1.60 ft); minimum daily, 107 cfs 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 mile above station. Flow partly regulated by Thorpe Reservoir 28 miles upstream (see p. 186), and by Cedar Cliff Lake, Bear Creek Lake, and Tennessee Creek project lakes (see p. 188).

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	618	450	1,150	1,170	1,270	1,020	1,700	1,320	2,040	799	703	488
2	381	598	928	1,120	2,880	1,040	1,560	1,300	1,870	690	749	362
3	455	754	554	1,220	2,170	1,130	1,520	1,520	1,750	822	653	332
4	468	669	692	1,520	1,870	757	1,520	1,380	1,750	807	639	539
5	1,580	431	810	1,190	1,740	1,350	1,210	1,220	1,660	797	345	579
6	845	407	1,020	1,120	1,810	1,130	1,320	902	1,880	1,060	471	569
7	399	727	1,120	1,170	1,660	969	2,010	936	1,570	678	607	587
8	269	1,320	1,010	1,130	1,820	1,430	1,970	1,870	1,530	604	599	504
9	385	1,040	1,090	1,090	1,770	1,220	1,710	1,630	1,550	768	659	511
10	488	791	1,150	1,080	1,690	1,180	1,340	1,470	1,390	988	1,020	676
11	466	623	1,260	1,080	1,560	1,340	1,340	1,590	1,300	1,080	588	585
12	468	455	1,070	1,060	1,480	1,540	1,260	1,270	1,220	1,060	566	546
13	663	602	984	1,070	1,460	1,440	1,170	1,200	1,350	699	561	575
14	338	1,380	957	1,040	1,650	1,150	1,190	1,180	1,120	532	696	602
15	323	979	3,260	915	1,580	1,470	1,150	1,220	1,240	679	652	333
16	369	945	2,290	970	1,430	3,940	1,400	1,140	1,490	584	613	263
17	550	931	1,730	813	1,080	6,170	1,440	1,110	1,290	657	744	423
18	613	692	1,430	855	1,200	3,330	1,370	980	1,170	672	602	582
19	730	730	1,220	1,110	1,130	2,640	1,370	1,110	1,120	663	474	492
20	672	1,270	1,490	971	1,120	2,310	1,100	1,030	1,150	801	613	466
21	403	867	1,500	663	1,140	2,160	948	862	1,130	695	606	471
22	381	1,060	1,850	1,730	1,170	1,980	942	911	1,270	506	601	391
23	559	893	1,730	1,600	1,110	1,890	1,010	1,100	1,150	711	592	340
24	481	902	1,600	1,470	1,090	1,820	997	1,710	782	990	594	304
25	379	754	1,560	1,420	1,030	1,810	1,480	1,180	764	865	511	404
26	379	713	1,480	1,440	1,080	1,770	1,550	1,060	915	849	402	456
27	436	1,070	1,330	1,350	981	1,620	2,050	1,800	871	1,230	580	373
28	1,070	1,000	1,110	1,200	1,110	1,550	1,900	11,100	1,160	690	638	448
29	817	811	1,270	1,170	-----	1,590	1,670	3,920	927	481	679	354
30	593	932	1,050	972	-----	1,590	1,570	2,590	887	566	619	339
31	454	-----	1,370	1,120	-----	1,790	-----	2,190	-----	591	675	-----
TOTAL	17,032	24,796	41,065	35,829	41,081	56,126	42,767	53,801	39,296	23,614	19,051	13,894
MEAN	549	827	1,325	1,156	1,467	1,811	1,426	1,736	1,310	762	615	463
MAX	1,580	1,380	3,260	1,730	2,880	6,170	2,050	11,100	2,040	1,230	1,020	676
MIN	269	407	554	663	981	757	942	862	764	481	345	263

CAL YR 1972 TOTAL 308,747 MEAN 844 MAX 3,260 MIN 220
WTR YR 1973 TOTAL 408,352 MEAN 1,119 MAX 11,100 MIN 263

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-15	1030	7.33	4,820	5-28	0545	14.14	20,400
3-17	0415	10.01	9,650				

TENNESSEE RIVER BASIN

181

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 upstream from bridge on Secondary Road 1359, 0.5 mile south of Birdtown, 0.6 mile downstream from Adams Creek, 0.6 mile upstream from Goose Creek, 2.2 miles southwest of Cherokee, and at mile 3.1.

DRAINAGE AREA.--184 sq mi.

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 above mean sea level. Prior to Oct. 1, 1946, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 511 cfs (37.71 inches per year).

EXTREMES.--Current year: Maximum discharge, 15,600 cfs Mar. 16 (gage height, 12.29 ft); minimum, 170 cfs Sept. 3, 4 (gage height, 1.10 ft).

Period of record: Maximum discharge, 15,900 cfs Dec. 30, 1969 (gage height, 12.46 ft, from floodmarks); minimum, 80 cfs Oct. 19, 1954 (gage height, 0.66 ft).

Floods of Nov. 19, 1906 and Mar. 27, 1913 reached stages of 18 and 14.5 ft, respectively (discharge not determined), from studies by Tennessee Valley Authority.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	564	476	697	629	642	435	673	1,050	785	385	1,180	189
2	381	465	636	590	2,360	443	612	928	706	403	330	181
3	310	704	597	662	1,190	592	577	914	646	402	320	177
4	291	536	572	1,060	926	542	588	791	607	368	310	179
5	2,810	494	554	782	813	827	547	719	590	349	300	205
6	996	460	425	757	927	640	506	669	660	326	290	181
7	683	560	781	709	834	608	1,050	630	581	319	310	189
8	542	816	697	708	1,180	744	1,130	1,450	518	387	325	180
9	460	610	2,620	632	1,130	642	866	1,130	564	368	313	364
10	405	560	3,280	592	952	595	767	914	487	328	385	558
11	370	518	2,840	565	844	803	694	1,090	459	328	347	255
12	348	482	2,020	529	775	917	642	833	443	299	315	219
13	385	465	1,570	510	716	725	596	749	529	285	351	242
14	338	760	1,380	496	893	661	556	685	486	284	442	440
15	307	566	2,680	493	846	1,040	526	632	460	392	393	385
16	294	518	2,090	471	744	7,520	506	590	1,060	311	327	281
17	610	494	1,560	467	684	5,860	564	570	954	308	313	260
18	584	465	1,270	470	651	2,720	610	533	836	326	350	339
19	925	809	1,090	667	625	1,830	672	508	585	293	287	269
20	690	980	1,020	568	595	1,450	637	522	549	285	270	238
21	548	718	1,250	530	565	1,380	570	473	552	285	311	223
22	482	655	1,310	885	539	1,110	538	452	498	267	264	213
23	512	584	1,080	693	520	966	515	470	448	311	245	213
24	548	536	972	624	499	875	492	769	418	333	235	210
25	465	649	925	582	482	822	829	600	401	509	229	196
26	430	809	837	616	476	780	1,040	526	384	494	224	186
27	450	642	774	657	471	729	2,220	667	373	465	213	184
28	873	690	718	586	451	667	2,030	3,620	528	369	206	186
29	642	669	676	594	-----	660	1,430	1,570	439	328	200	188
30	560	739	642	529	-----	667	1,200	1,070	382	298	197	242
31	524	-----	669	518	-----	729	-----	881	-----	292	213	-----
TOTAL	18,327	18,429	38,732	19,171	22,330	38,979	24,183	27,005	16,928	10,697	9,995	7,372
MEAN	591	614	1,249	618	798	1,257	806	871	564	345	322	246
MAX	2,810	980	3,280	1,060	2,360	7,520	2,220	3,620	1,060	509	1,180	558
MIN	291	460	554	467	451	435	492	452	373	267	197	177
CFSM	3.21	3.34	6.79	3.36	4.34	6.83	4.38	4.73	3.07	1.88	1.75	1.34
IN.	3.71	3.73	7.83	3.88	4.51	7.88	4.89	5.46	3.42	2.16	2.02	1.49

CAL YR 1972 TOTAL 230,452 MEAN 630 MAX 3,280 MIN 159 CFSM 3.42 IN 46.59
WTR YR 1973 TOTAL 252,148 MEAN 691 MAX 7,520 MIN 177 CFSM 3.76 IN 50.98

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10- 5	0700	5.85	5,030	3-16	2200	12.29	15,600
12- 9	1015	5.31	4,270	5-28	0815	6.90	6,590
12-15	1115	5.35	4,330				

TENNESSEE RIVER BASIN

03513000 Tuckasegee River at Bryson City, N. C.

LOCATION.--Lat 35°25'40", long 83°26'50", Swain County, on left bank 400 ft downstream from bridge on Secondary Road 1364, Everett Street, in Bryson City, 0.6 mile downstream from Deep Creek, and at mile 12.6.

DRAINAGE AREA.--655 sq mi.

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 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 upstream at datum 2.00 ft higher. Feb. 3, 1914, to May 17, 1920, water-stage recorder at site 200 ft upstream at datum 2.00 ft higher. June 28, 1927, to Sept. 30, 1960, water-stage recorder at present site at datum 2.00 ft higher.

AVERAGE DISCHARGE.--76 years, 1,575 cfs (32.65 inches per year) unadjusted.

EXTREMES.--Current year: Maximum discharge, 30,200 cfs Mar. 16 (gage height, 13.45 ft, from floodmark); minimum, 512 cfs Sept. 24, 25 (gage height, 1.65 ft); minimum daily, 595 cfs Sept. 24.

Period of record: Maximum discharge, 61,600 cfs Aug. 30, 1940 (gage height, 15.96 ft, datum then in use), from rating curve extended above 28,000 cfs on basis of slope-area measurement of peak flow; minimum, 27 cfs Sept. 10, 1925, minimum gage height, 0.47 ft Oct. 26, 1952, datum then in use; minimum daily discharge, 31 cfs Sept. 9, 10, 1925, caused by filling reservoir on Oconaluftee River; minimum daily during normal regulation, 186 cfs Oct. 13, 1925.

Floods of May 1840, Mar. 6, 1867, and June 1876 reached stages of 22, 19, and 19 ft, 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. 186,188), and two small reservoirs with combined capacity of 250 cfs-days. Water quality records for the current year are published in Part 2 of this report.

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 CURIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,750	1,210	2,220	2,200	2,170	1,790	2,910	2,990	3,540	1,650	2,220	868
2	923	1,270	1,920	2,090	6,320	1,830	2,650	2,800	3,250	1,400	1,730	764
3	952	1,850	1,670	2,250	4,150	2,140	2,560	2,980	2,960	1,470	1,370	658
4	920	1,500	1,410	3,150	3,410	1,670	2,580	2,690	2,900	1,630	1,400	768
5	5,650	1,380	1,730	2,450	3,050	2,660	2,200	2,420	2,780	1,330	953	949
6	2,380	1,070	2,260	2,330	3,300	2,240	2,260	2,180	3,090	1,680	883	908
7	1,600	1,390	2,310	2,310	3,020	1,990	3,630	1,850	2,810	1,390	1,110	907
8	1,070	2,620	2,060	2,340	3,620	2,580	3,950	3,960	2,470	1,330	1,260	865
9	962	2,040	4,790	2,110	3,610	2,290	3,240	3,500	2,570	1,290	1,230	878
10	1,070	1,690	5,760	2,070	3,240	2,250	2,700	2,960	2,360	1,610	1,680	1,540
11	988	1,590	5,390	2,020	2,940	2,550	2,540	3,340	2,230	1,750	1,410	996
12	961	1,240	3,940	1,950	2,730	3,100	2,400	2,700	2,120	1,650	1,200	905
13	1,240	1,150	3,280	1,920	2,620	2,610	2,260	2,490	2,350	1,330	1,100	890
14	941	2,520	2,860	1,930	3,020	2,290	2,170	2,380	2,040	1,130	1,470	1,430
15	745	1,890	6,760	1,720	2,990	2,980	2,120	2,320	2,120	1,320	1,350	1,020
16	667	1,760	5,540	1,790	2,680	13,900	2,320	2,190	3,120	1,200	1,190	689
17	1,410	1,700	4,090	1,600	2,180	15,700	2,440	2,170	2,880	1,190	1,220	702
18	1,420	1,570	3,340	1,660	2,280	7,490	2,470	1,900	2,510	1,290	1,350	1,200
19	2,080	1,770	2,860	2,230	2,170	5,590	2,540	2,030	2,170	1,280	1,020	881
20	1,690	2,760	3,040	1,970	2,120	4,720	2,260	2,080	2,130	1,210	1,030	800
21	1,310	1,980	3,280	1,720	2,100	4,440	2,040	1,740	2,140	1,450	1,150	830
22	1,110	2,080	3,900	3,060	2,090	3,850	1,930	1,730	2,240	1,030	1,120	769
23	1,200	1,800	3,460	2,810	2,000	3,550	1,910	1,980	2,020	1,160	1,050	724
24	1,370	1,740	3,120	2,560	1,950	3,310	1,910	3,070	1,760	1,630	1,020	595
25	1,090	1,780	3,020	2,420	1,860	3,210	2,890	2,340	1,390	1,700	961	682
26	998	2,000	2,790	2,400	1,900	3,120	3,270	2,010	1,640	1,650	857	720
27	1,080	1,950	2,640	2,560	1,800	2,880	5,490	2,640	1,630	2,050	880	733
28	2,390	2,030	2,180	2,220	1,890	2,720	5,100	15,400	2,260	1,510	984	634
29	1,880	1,860	2,430	2,200	-----	2,720	3,980	6,950	1,710	1,080	1,090	803
30	1,540	2,000	2,010	1,890	-----	2,760	3,490	4,710	1,640	989	1,030	730
31	1,300	-----	2,430	2,030	-----	3,010	-----	3,900	-----	1,130	1,080	-----
TOTAL	44,687	53,190	98,490	67,960	77,210	117,940	84,210	98,400	70,830	43,509	37,398	25,838
MEAN	1,442	1,773	3,177	2,192	2,758	3,805	2,807	3,174	2,361	1,404	1,206	861
MAX	5,650	2,760	6,760	3,150	6,320	15,700	5,490	15,400	3,540	2,050	2,220	1,540
MIN	667	1,070	1,410	1,600	1,800	1,670	1,910	1,730	1,390	989	857	595

CAL YR 1972 TOTAL 674,255 MEAN 1,842 MAX 6,760 MIN 459 CFSM 2.81 IN 38.28
WTR YR 1973 TOTAL 819,662 MEAN 2,246 MAX 15,700 MIN 595 CFSM 3.43 IN 46.54

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-5	0745	6.90	9,550	3-16	2400	13.45	30,200
12-15	1330	7.21	10,300	5-28	1015	11.92	24,900

TENNESSEE RIVER BASIN

183

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 miles downstream from bridge on Secondary Road 1146, 0.4 mile upstream from Hyatt Mill Creek, 1.6 miles southeast of Hayesville, 1.7 miles downstream from Chatuge Dam, and at mile 119.3.

DRAINAGE AREA.--190 sq mi.

PERIOD OF RECORD.--May 1907 to December 1909 (fragmentary), August 1922 to September 1923 (gage heights only), April 1942 to current year. Published as "near Hayesville" 1907-9, 1922-23.

GAGE.--Water-stage recorder. Datum of gage is 1,789.90 ft above mean sea level (levels by Tennessee Valley Authority). Prior to Apr. 1, 1942, nonrecording gage at site 1.1 miles upstream at different datum.

AVERAGE DISCHARGE.--31 years (1942-73), 441 cfs (31.52 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 4,320 cfs May 28 (gage height, 10.14 ft); minimum, 1.1 cfs Oct. 7, 8 (gage height, 0.42 ft); minimum daily, 1.2 cfs Oct. 8.
Period of record: Maximum gage height recorded, 11.9 ft Mar. 13, 1909, site and datum then in use (discharge not determined); minimum discharge, 0.6 cfs Oct. 21, 1952; minimum gage height, 0.30 ft Aug. 3, 1942, Oct. 21, 1952.

REMARKS.--Records good. Flow completely regulated by Chatuge Lake (see p. 187).

REVISIONS (WATER YEARS).--WSP 873: 1942.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	547	670	1,420	886	448	15	5.1	1,470	15	532	748
2	4.0	526	377	1,420	874	565	568	4.5	1,470	869	478	16
3	3.0	565	30	858	870	14	572	5.4	951	885	437	245
4	2.5	15	568	1,450	782	13	593	341	916	835	14	833
5	4.6	12	285	1,450	938	374	568	839	763	859	14	903
6	2.5	561	338	1,450	1,090	368	554	840	946	893	484	857
7	1.3	537	505	1,450	1,030	353	290	828	1,510	542	624	875
8	1.2	540	516	1,380	1,090	299	16	879	1,130	16	659	710
9	1.5	870	27	994	1,100	359	762	760	860	938	672	683
10	4.1	790	117	1,060	1,120	430	1,210	767	742	754	586	993
11	74	13	540	1,020	1,210	582	1,350	765	770	718	378	794
12	353	12	14	489	1,000	635	417	661	461	634	62	847
13	347	642	13	476	770	652	14	15	477	615	476	890
14	12	544	222	586	798	729	14	564	698	83	477	654
15	12	565	778	705	726	719	14	560	833	15	467	22
16	399	684	386	680	705	154	14	291	938	454	605	377
17	492	526	168	427	701	17	13	288	989	442	801	825
18	423	544	526	436	600	14	13	288	970	448	525	601
19	423	347	982	430	600	523	13	286	763	501	15	307
20	461	754	954	461	586	519	13	277	724	616	725	248
21	402	631	1,180	15	336	495	12	619	733	670	739	490
22	12	722	1,280	282	8.0	499	12	633	717	776	751	656
23	540	677	1,400	1,220	216	540	333	603	509	638	787	136
24	547	600	1,410	822	483	530	87	838	15	793	863	593
25	561	80	1,400	645	14	561	19	1,500	847	497	695	636
26	806	492	1,400	565	439	492	374	1,020	770	610	759	373
27	575	55	1,420	533	344	596	771	1,270	812	475	893	370
28	13	293	1,430	558	442	736	780	2,880	890	596	917	426
29	12	687	1,430	492	-----	736	656	3,960	939	15	801	361
30	533	810	1,430	902	-----	701	14	3,490	483	538	801	14
31	547	-----	1,430	946	-----	27	-----	2,460	-----	587	821	-----
TOTAL	7,573.7	14,641	23,226	25,622	19,758.0	13,680	10,081	28,537.0	25,096	17,327	17,858	16,483
MEAN	244	488	749	827	706	441	336	921	837	559	576	549
MAX	806	870	1,430	1,450	1,210	736	1,350	3,960	1,510	938	917	993
MIN	1.2	12	13	15	8.0	13	12	4.5	15	15	14	14
(†)	-400	-2,200	-1,300	-4,600	+2,700	+15,100	+14,900	+6,100	-2,600	-5,500	-5,700	-8,800
MEAN†	231	415	707	678	802	928	833	1,117	750	382	392	256
CFSM†	1.22	2.18	3.72	3.57	4.22	4.88	4.38	5.88	3.95	2.01	2.06	1.35
IN.†	1.40	2.44	4.29	4.11	4.40	5.63	4.89	6.78	4.40	2.31	2.38	1.50

CAL YR 1972 TOTAL 166,251.7 MEAN 454 MAX 1,470 MIN 1.2 MEAN† 463 CFSM† 2.44 IN.† 33.18
WTR YR 1973 TOTAL 219,882.7 MEAN 602 MAX 3,960 MIN 1.2 MEAN† 624 CFSM† 3.28 IN.† 44.53

† Change in contents, in cfs-days, in Chatuge Lake, furnished by Tennessee Valley Authority.

‡ Adjusted for change in lake contents.

TENNESSEE RIVER BASIN

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 upstream from Will Scott Creek, 2.0 miles southeast of Murphy, and at mile 99.1.

DRAINAGE AREA.--406 sq mi.

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 above mean sea level (levels by Tennessee Valley Authority). Prior to Jan. 30, 1921, nonrecording gage at bridge 2.8 miles downstream at datum 30.40 ft lower. Jan. 30, 1921, to Nov. 8, 1926, nonrecording gage 2.8 miles downstream at datum 28.40 ft lower. Nov. 9, 1926, to Apr. 30, 1940, water-stage recorder 2.8 miles downstream at datum 28.20 ft lower.

AVERAGE DISCHARGE.--76 years (1897-1973), 912 cfs (30.50 inches per year) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 18,600 cfs May 28 (gage height, 13.88 ft); minimum, 168 cfs Oct. 4 (gage height, 2.33 ft); minimum daily discharge, 172 cfs Oct. 4.

Period of record: Maximum discharge, 23,100 cfs Mar. 19, 1899 (gage height, 18.4 ft, from graph based on gage readings, site and datum then in use), from rating curve extended above 5,000 cfs; minimum daily, 10 cfs Dec. 3, 1924, result of freezeup and filling of Andrews Lake; minimum daily during normal regulation, 62 cfs 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 miles upstream (normal regulated storage, about 75 cfs-days). Flow regulated since 1942 by Chatuge Lake 22 miles upstream (see p. 187). Water quality records for the current year are published in Part 2 of this report.

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	293	818	1,260	2,040	1,500	892	815	837	2,480	634	1,090	1,070
2	222	812	1,230	1,990	2,740	1,020	1,060	742	2,330	972	892	603
3	191	1,210	464	1,490	2,020	532	1,200	857	1,760	1,370	782	231
4	172	779	659	2,240	1,660	467	1,160	752	1,640	1,400	598	896
5	962	376	964	2,180	1,710	875	1,230	1,570	1,660	1,500	325	1,140
6	447	691	980	2,190	1,910	745	1,130	1,430	1,900	1,350	484	1,100
7	304	1,010	1,330	2,170	1,760	882	1,780	1,450	2,410	940	872	1,110
8	264	1,220	1,010	2,220	2,550	1,120	1,120	1,980	1,940	738	1,030	1,030
9	248	1,490	766	1,820	2,520	691	1,400	1,770	1,600	1,100	1,120	1,000
10	220	1,250	889	1,650	2,190	1,110	1,960	1,650	1,440	1,330	1,360	1,100
11	202	673	1,760	1,640	2,220	1,270	2,110	1,520	1,540	1,200	1,050	1,060
12	291	351	1,140	1,260	1,390	1,560	1,440	1,340	1,410	1,060	1,240	1,050
13	860	661	759	970	1,500	1,350	605	900	1,180	1,220	964	1,260
14	231	1,320	1,030	1,330	1,620	1,390	559	908	1,380	603	947	1,220
15	191	1,150	3,900	838	1,470	1,540	534	1,110	1,250	599	1,040	730
16	465	1,270	2,410	1,250	1,420	2,740	517	1,040	1,660	783	769	427
17	540	942	1,570	1,090	1,380	3,120	534	790	1,740	840	1,340	890
18	1,100	1,020	1,390	905	1,200	1,650	546	778	1,620	1,030	1,240	1,030
19	878	926	1,610	845	1,230	1,510	582	656	1,360	1,040	729	623
20	789	1,360	1,740	1,270	1,120	1,600	570	1,180	1,310	1,050	761	535
21	676	1,260	2,230	643	1,130	1,440	535	902	1,300	1,020	1,140	546
22	375	1,110	2,440	967	490	1,260	507	1,150	1,290	1,190	1,080	911
23	709	1,460	2,390	1,890	509	1,260	631	1,200	1,180	1,240	1,120	690
24	1,030	1,040	2,280	1,590	980	1,240	677	1,630	642	1,120	1,170	494
25	984	504	2,230	1,150	613	1,240	1,240	2,260	971	1,220	1,070	795
26	1,150	707	2,150	1,190	593	1,150	1,430	1,740	1,490	1,210	1,010	656
27	1,090	850	2,100	1,200	762	1,150	3,670	2,180	1,230	1,150	1,230	503
28	663	454	2,080	1,110	1,200	1,290	2,570	11,300	1,590	927	1,220	809
29	382	1,090	2,040	1,080	-----	1,400	2,050	5,950	1,500	727	1,100	698
30	668	1,440	2,010	1,400	-----	1,340	1,190	4,760	1,200	557	1,090	480
31	918	-----	2,090	1,480	-----	1,200	-----	3,810	-----	983	1,080	-----
TOTAL	17,515	29,244	50,901	45,088	41,387	40,034	35,352	60,142	46,003	32,103	30,943	24,687
MEAN	565	975	1,642	1,454	1,478	1,291	1,178	1,940	1,533	1,036	998	823
MAX	1,150	1,490	3,900	2,240	2,740	3,120	3,670	11,300	2,480	1,500	1,360	1,260
MIN	172	351	464	643	490	467	507	656	642	557	325	231

CAL YR 1972 TOTAL 365,826 MEAN 1.000 MAX 4.420 MIN 159 MEAN† 1.009 CFSM† 2.49 IN.† 33.81
WTR YR 1973 TOTAL 453,399 MEAN 1.242 MAX 11,300 MIN 172 MEAN† 1.263 CFSM† 3.11 IN.† 42.24

† Adjusted for change in contents in Chatuge Lake.

TENNESSEE RIVER BASIN

185

03550000 Valley River at Tomotla, N. C.

LOCATION.--Lat 35°08'20", long 83°58'50", Cherokee County, on right bank 15 ft downstream from bridge on Secondary Road 1373 at Tomotla, 0.2 mile upstream from Rogers Creek, 4.7 miles northeast of Murphy, and at mile 6.6.

DRAINAGE AREA.--104 sq mi.

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 above mean sea level (levels by Tennessee Valley Authority). Prior to May 11, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--61 years (1904-9, 1914-16, 1919-73), 254 cfs (33.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,930 cfs May 28 (gage height, 11.55 ft); minimum, 84 cfs Sept. 13 (gage height, 1.97 ft).

Period of record: Maximum discharge, 18,000 cfs Nov. 19, 1906 (gage height, 20.5 ft, from flood profile by Tennessee Valley Authority), from rating curve extended above 5,800 cfs on basis of slope-conveyance study; minimum, 12 cfs several times in August and September 1925 (gage height, 0.52 ft).

Flood of September 1898 reached a stage of 21.2 ft, from floodmark by Tennessee Valley Authority (discharge, about 20,000 cfs).

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

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 1972 TO SEPTEMBER 1973

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	196	349	329	348	233	399	468	450	239	234	104
2	136	198	315	309	944	262	362	417	390	221	198	100
3	117	311	287	374	608	342	338	418	350	229	170	100
4	114	251	277	445	468	301	330	371	322	245	157	95
5	943	226	260	397	403	362	308	340	339	227	148	108
6	361	207	513	399	432	324	290	321	458	197	141	95
7	242	255	471	378	384	312	584	304	372	184	144	94
8	195	335	388	477	895	317	581	746	325	341	141	93
9	165	275	644	413	904	295	482	601	307	294	182	95
10	146	248	1,470	375	623	282	421	469	332	243	471	113
11	134	228	1,420	345	498	399	373	449	321	233	244	94
12	126	210	869	325	432	437	347	388	305	199	275	89
13	175	201	639	303	393	374	325	351	304	184	227	161
14	146	384	609	290	508	337	304	326	291	185	227	266
15	129	305	2,150	244	468	438	290	304	270	220	204	138
16	122	270	1,400	272	421	1,630	284	288	293	246	183	116
17	133	246	869	264	378	2,270	297	280	290	234	191	122
18	216	226	635	262	353	1,130	294	267	262	207	190	186
19	218	289	523	378	334	774	335	267	239	197	169	129
20	185	329	528	334	318	617	308	313	227	193	157	114
21	167	289	711	310	303	615	287	254	257	180	158	108
22	155	272	788	394	289	510	272	237	289	167	143	103
23	223	246	651	345	279	459	265	239	238	186	136	104
24	294	227	540	320	267	420	256	401	218	184	131	101
25	237	270	496	298	256	419	721	323	209	231	128	96
26	208	315	444	308	252	390	718	304	229	237	131	91
27	211	283	402	321	256	364	1,470	428	222	236	124	89
28	279	321	370	308	240	340	1,080	2,650	307	202	124	91
29	250	331	343	322	-----	342	724	1,050	256	180	118	97
30	225	375	326	292	-----	348	554	645	225	165	113	142
31	214	-----	364	282	-----	434	-----	496	-----	159	108	-----
TOTAL	6,647	8,119	20,051	10,453	12,254	16,077	13,599	14,715	8,897	6,645	5,467	3,434
MEAN	214	271	647	337	438	519	453	475	297	214	176	114
MAX	943	384	2,150	477	944	2,270	1,470	2,650	458	341	471	266
MIN	114	196	260	262	240	233	256	237	209	159	108	89
CFSM	2.06	2.61	6.22	3.24	4.21	4.99	4.36	4.57	2.86	2.06	1.69	1.10
IN.	2.38	2.90	7.17	3.74	4.38	5.75	4.86	5.26	3.18	2.38	1.96	1.23

CAL YR 1972 TOTAL 119,350 MEAN 326 MAX 2,290 MIN 69 CFSM 3.13 IN 42.69
WTR YR 1973 TOTAL 126,358 MEAN 346 MAX 2,650 MIN 89 CFSM 3.33 IN 45.20

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-10	2145	6.65	1,820	3-17	0130	10.49	3,380
12-15	1400	10.72	3,500	5-28	0845	11.55	3,930

Lakes and Reservoirs in Ohio River basin

Pigeon R
 03460242 LAKE WALTERS.--Lat 35°41'41", long 83°03'02", Haywood County, at Waterville Dam on Pigeon River, 0.1 mile downstream from Cataloochee Creek, 5.5 miles southeast of Mount Sterling, and at mile 38.0. Drainage area, 455 sq mi. 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 cfs-days Oct. 5, Dec. 15, 16, Feb. 2, 3, Mar. 16-21, May 28-30 (elevation, 2,258.6 ft); minimum observed, 5,900 cfs-days Sept. 21 (elevation, 2,210.4 ft). Extremes for period of record: Maximum contents observed, 12,800 cfs-days several days each year (elevation, 2,258.6 ft); minimum observed, 2,970 cfs-days Nov. 12, 1971 (elevation, 2,182.0 ft).

Reservoir is formed by single arch, variable radius, concrete dam with fourteen taintor gates 10 ft high by 24 ft 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 (top of gates) is 12,800 cfs-days, of which 10,400 cfs-days is controlled storage above elevation 2,175 ft (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.

Nantahala R
 03504500 NANTAHALA LAKE.--Lat 35°11'56", long 83°39'17", Cherokee County, at Nantahala Dam on Nantahala River, 4.2 miles southeast of Tipton, 5.5 miles upstream from Whiteoak Creek, and at mile 22.8. Drainage area, 91.0 sq mi. 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 above mean sea level. Prior to June 3, 1942, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 69,100 cfs-days Mar. 24 (elevation, 2,889.95 ft); minimum, 52,900 cfs-days Sept. 29 (elevation, 2,867.93 ft). Extremes for period of record: Maximum contents, 70,400 cfs-days Apr. 12, 1957 (elevation, 2,890.55 ft); minimum (after first filling), 6,700 cfs-days Jan. 28, 1955 (elevation, 2,760.11 ft).

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 (top of gates) is 69,200 cfs-days, of which 63,500 cfs-days is controlled storage above 2,758.84 ft (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)

W. Fork Tuckasee R
 03507500 THORPE RESERVOIR.--Lat 35°11'46", long 83°09'09", Jackson County, at Thorpe Dam on West Fork Tuckasee River, 2.3 miles northwest of Glenville, 3.0 miles upstream from Shoal Creek, and at mile 9.7. Drainage area, 36.7 sq mi. 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 above mean sea level. Prior to Apr. 9, 1941, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 35,400 cfs-days May 28 (elevation, 3,099.79 ft); minimum, 24,700 cfs-days Sept. 29 (elevation, 3,084.14 ft). Extremes for period of record: Maximum contents, 35,700 cfs-days Mar. 13, 1950 (elevation, 3,100.01 ft); minimum (after first filling), 2,200 cfs-days Feb. 5, 1955, Jan. 13, 1956; minimum elevation, 3,025.10 ft Feb. 5, 1955.

Reservoir is formed by earth and rock dam and six 40-foot fuse-plug dams. Side channel spillway equipped with two taintor gates 12 ft high by 25 ft 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 (top of gates) is 35,500 cfs-days, of which 33,700 cfs-days is controlled storage above elevation 3,023.25 ft (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)

Little Tenn. R
 03514500 FONTANA LAKE.--Lat 35°27'07", long 83°48'18", Graham County, at Fontana Dam on Little Tennessee River, 5.7 miles upstream from Twenty Mile Creek, 9.0 miles north of Robbinsville, 9.6 miles upstream from Cheoah Dam, and at mile 61.0. Drainage area, 1,571 sq mi. 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, 728,600 cfs-days May 28 (elevation, 1,710.20 ft); minimum, 390,900 cfs-days Jan. 21 (elevation, 1,630.82 ft). Extremes for period of record: Maximum contents, 728,600 cfs-days May 28, 1973 (elevation, 1,710.20 ft); minimum (after first filling), 78,300 cfs-days Jan. 29, 1955 (elevation, 1,472.0 ft).

Reservoir is formed by gravity nonoverflow type concrete dam. Spillway equipped with four radial gates 35 ft high by 35 ft 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 (top of gates) is 727,500 cfs-days, of which 578,000 cfs-days is controlled storage above elevation 1,525.0 ft (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

Cheoah R
 03516500 SANTEETLAH LAKE.--Lat 35°22'38", long 83°52'33", Graham County, at Santeetlah Dam on Cheoah River, 1 mile downstream from Santeetlah Creek, 5.5 miles northwest of Robbinsville, and at mile 9.3. Drainage area, 176 sq mi. 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 above mean sea level. Prior to February 1937, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 79,000 cfs-days Apr. 28 (elevation, 1,817.16 ft); minimum, 52,500 cfs-days Oct. 4 (elevation, 1,796.04 ft). Extremes for period of record: Maximum contents, 81,100 cfs-days Sept. 3, 1928 (elevation, 1,817.90 ft); minimum (after first filling), 13,100 cfs-days Feb. 6, 1940 (elevation, 1,741.39 ft).

Reservoir is formed by concrete gravity and arch dam with concrete spillway controlled by six taintor gates 12 ft high by 25 ft 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 (top of gates) is 78,800 cfs-days, of which 66,600 cfs-days is controlled storage above 1,740.08 ft (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 miles upstream from Hyatt Mill Creek, 2.5 miles downstream from Georgia-North Carolina State line, 2.4 miles south-east of Hayesville, and at mile 121.0. Drainage area, 189 sq mi. 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, 122,700 cfs-days May 28 (elevation, 1,928.39 ft); minimum, 75,900 cfs-days Jan. 17 (elevation, 1,912.62 ft). Extremes for period of record: Maximum contents, 124,200 cfs-days Apr. 20, 1943 (elevation, 1,927.80 ft); minimum (after first filling), 9,400 cfs-days Sept. 5, 1947, Jan. 27, 1956; minimum elevation, 1,860.11 ft 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 (top of flashboards) is 121,200 cfs-days, of which 111,900 cfs-days is controlled storage above elevation 1,860.0 ft (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 mile northwest of village of Hiwassee Dam, 3.9 miles upstream from Shoal Creek, and at mile 75.8. Drainage area, 968 sq mi. Period of record, September 1939 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level. Subtract 0.63 ft from all elevations to reduce to datum of 1929, supplementary adjustment of 1936. Extremes for current year: Maximum contents, 223,400 cfs-days May 28 (elevation, 1,528.02 ft); minimum, 85,300 cfs-days Jan. 4 (elevation, 1,466.93 ft). Extremes for period of record: Maximum contents, 223,400 cfs-days May 28, 1973 (elevation, 1,528.02 ft); minimum (after first filling), 35,800 cfs-days Jan. 28, 1948 (elevation, 1,413.41 ft).

Reservoir is formed by gravity overflow concrete dam with seven taintor gates 23 ft high by 32 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 (top of gates) is 218,800 cfs-days, of which 182,700 cfs-days is controlled storage above elevation 1,415.0 ft (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 mile upstream from North Carolina-Tennessee State line, 1.5 miles northeast of Fanner, Tenn., 9.8 miles downstream from Hiwassee Dam, and at mile 66.0. Drainage area, 1,018 sq mi. 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 cfs-days Sept. 1 (elevation, 1,279.95 ft); minimum, 24,100 cfs-days Feb. 24 (elevation, 1,270.84 ft). Extremes for period of record: Maximum contents, 30,300 cfs-days June 13, 1952 (elevation, 1,281.40 ft); minimum (after first filling), 15,300 cfs-days Apr. 25, 1971 (elevation, 1,251.00 ft).

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 (top of gates) is 29,100 cfs-days, of which 24,500 cfs-days is controlled storage above elevation 1,212.00 ft (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 sq mi. Total capacity is 4,540 cfs-days, of which 2,120 cfs-days is controlled storage. Storage began Mar. 27, 1963, and lake reached spillway elevation of 2,160 ft 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 sq mi. Total capacity is 11,600 cfs-days (crest of spillway), of which 8,900 cfs-days 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 sq mi. Total capacity is 844 cfs-days, of which 823 cfs-days 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. Drainage area, 33.3 sq mi. Total capacity is 1,040 cfs-days (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. Drainage area, 63.6 sq mi. Total surface area, about 195 acres. 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. Drainage area, 14.4 sq mi. Total capacity is 233 cfs-days (spillway crest), of which approximately 116 cfs-days is usable. Storage began in 1926.

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 sq mi) on Tuckasegee River near Tuckasegee, Jackson County, is at lat 35°12'48", long 83°00'08", Wolf Creek Dam (drainage area, 15.2 sq mi) on Wolf Creek near Tuckasegee, is at lat 35°13'18", long 83°00'00".

Total capacity of East Fork Lake is 671 cfs-days, of which 625 cfs-days is controlled storage. Storage began Apr. 18, 1955. Total capacity of Wolf Creek Lake is 5,070 cfs-days, of which 3,850 cfs-days is controlled storage. Storage began Mar. 22, 1955. (See sta 03508000)

Lakes and Reservoirs in Ohio River basin--Continued

03507216 BEAR CREEK LAKE.--Lat 35°14'29", long 83°04'22", Jackson County, on Tuckasegee River near Tuckasegee. Drainage area, 75.3 sq mi. Total capacity is 17,500 cfs-days, of which 2,290 cfs-days 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. Drainage area, 80.3 sq mi. Total capacity is 3,200 cfs-days, of which 400 cfs-days 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. Drainage area, 1,608 sq mi. Total capacity is 17,700 cfs-days, of which 3,700 cfs-days is controlled storage. Storage began Dec. 8, 1918.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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.....	2,249.5	11,380	-	2,879.12	60,900	-	3,090.58	28,900	-	1,666.30	521,200	-
Oct. 31.....	2,250.3	11,510	+130	2,878.72	60,600	-300	3,090.04	28,600	-300	1,660.95	499,400	-21,800
Nov. 30.....	2,236.5	9,380	-2,130	2,878.36	60,300	-300	3,089.76	28,400	-200	1,647.76	446,800	-52,600
Dec. 31.....	2,245.6	10,770	+1,390	2,884.60	65,000	+4,700	3,090.58	28,900	+500	1,646.32	441,500	-5,300
CAL YR 1972	-	-	+1,940	-	-	+3,800	-	-	-1,400	-	-	+88,800
Jan. 31.....	2,240.2	9,940	-830	2,882.37	63,300	-1,700	3,092.76	30,400	+1,500	1,631.33	392,600	-48,900
Feb. 28.....	2,237.5	9,530	-410	2,883.93	64,500	+1,200	3,093.48	30,900	+500	1,637.49	412,900	+20,300
Mar. 31.....	2,233.0	8,860	-670	2,889.62	68,900	+4,400	3,098.63	34,600	+3,700	1,673.80	552,600	+139,700
Apr. 30.....	2,233.4	8,920	+60	2,889.61	68,900	0	3,098.04	34,100	-500	1,698.56	667,900	+115,300
May 31.....	2,257.2	12,610	+3,690	2,889.82	69,000	+100	3,099.78	35,400	+1,300	1,708.24	717,300	+49,400
June 30.....	2,247.0	10,990	-1,620	2,888.29	67,900	-1,100	3,098.54	34,500	-900	1,699.77	673,900	-43,400
July 31.....	2,246.0	10,830	-160	2,885.78	65,900	-2,000	3,095.87	32,600	-1,900	1,683.46	595,500	-78,400
Aug. 31.....	2,221.9	7,310	-3,520	2,877.59	59,700	-6,200	3,089.68	28,300	-4,300	1,679.94	579,500	-16,000
Sept. 30.....	2,219.8	7,030	-280	2,868.24	53,200	-6,500	3,084.24	24,800	-3,500	1,678.90	574,900	-4,600
WTR YR 1973	-	-	-4,350	-	-	-7,700	-	-	-4,100	-	-	+53,700
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.....	1,796.20	52,700	-	1,917.05	87,300	-	1,505.92	160,500	-	1,276.85	27,300	-
Oct. 31.....	1,801.16	58,300	+5,600	1,916.90	86,900	-400	1,491.02	126,600	-33,900	1,276.70	27,200	-100
Nov. 30.....	1,805.06	62,900	+4,600	1,916.04	84,700	-2,200	1,482.38	110,500	-16,100	1,275.70	26,700	-500
Dec. 31.....	1,816.44	78,100	+15,200	1,915.53	83,400	-1,300	1,472.94	94,400	-16,100	1,276.53	27,100	+400
CAL YR 1972	-	-	+15,800	-	-	+3,300	-	-	+8,100	-	-	+300
Jan. 31.....	1,812.65	72,800	-5,300	1,913.78	78,800	-4,600	1,469.51	89,000	-5,400	1,276.33	27,000	-100
Feb. 28.....	1,812.08	72,000	-800	1,914.83	81,500	+2,700	1,472.32	93,400	+4,400	1,277.00	27,400	+400
Mar. 31.....	1,816.84	78,600	+6,600	1,920.42	96,600	+15,100	1,494.40	133,700	+40,300	1,275.85	26,800	-600
Apr. 30.....	1,816.96	78,800	+200	1,925.17	111,500	+14,900	1,516.99	189,300	+55,600	1,276.09	26,900	+100
May 31.....	1,816.95	78,700	-100	1,926.95	117,600	+6,100	1,523.70	210,200	+20,900	1,276.40	27,100	+200
June 30.....	1,815.22	76,400	-2,300	1,926.20	115,000	-2,600	1,522.15	205,100	-5,100	1,278.10	28,100	+1,000
July 31.....	1,815.04	76,200	-200	1,924.57	109,500	-5,500	1,518.48	193,600	-11,500	1,277.95	28,000	-100
Aug. 31.....	1,813.48	74,000	-2,200	1,922.82	103,800	-5,700	1,514.30	182,100	-11,500	1,277.71	27,800	-200
Sept. 30.....	1,808.82	67,600	-6,400	1,919.88	95,000	-8,800	1,506.25	161,300	-20,800	1,277.74	27,800	0
WTR YR 1973	-	-	+14,900	-	-	+7,700	-	-	+800	-	-	+500

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 others 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 1973, in South Atlantic Slope basins

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	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	1972-73	6- 7-73	0.30
02102180	Whiteoak Creek near Holly Springs, N. C.	Lat 35°37'20", long 78°55'00", Wake County, at bridge on Secondary Road 1127, 2.0 miles upstream from Little Whiteoak Creek, and 5 miles west of Holly Springs.	a21	1963-68, 1972-73	6- 8-73	.68
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	1972-73	6- 7-73	.39
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	1972-73	6- 8-73	1.14
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	1972-73	6- 7-73	.51
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	1972-73	6- 7-73	4.02
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	1972-73	6- 7-73	3.84
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	1972-73	6- 8-73	6.26
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 unnamed tributary, 0.4 mile upstream from mouth, 1.0 mile downstream from bridge on Secondary Road 1154, and 7.5 miles northwest of Tryon.	2.27	1972-73	7-20-72 8-18-72 9-14-72 11- 8-72 12- 1-72 2-21-73 3-27-73 6-13-73 7-24-73 8-29-73	5.37 4.94 3.37 6.52 4.72 7.79 12.2 7.72 6.66 3.94

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 1973, in South Atlantic Slope basins

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
Roanoke River basin							
02070810	Jacobs Creek near Wentworth, N. C.	Lat 36°20'54", long 79°53'14", Rockingham County, at bridge on Secondary Road 2316, 3.5 miles upstream from mouth, and 7.2 miles southwest of Wentworth.	a16	1954-73	2- 3-73	24.86	900
02071410	Matrimony Creek near Eden, N. C.	Lat 36°31'39", long 79°50'08", Rockingham County, at bridge on Secondary Road 1501, 0.5 mile upstream from Little Matrimony Creek, and 5 miles northwest of Eden.	12.0	1958-73	11-14-72	17.18	1,850
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	1954-73	12-15-72	18.56	+
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	1954-73	6-29-73	19.71	+
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	1953-73	12-16-72	21.71	+
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	1954-73	2- 2-73	21.04	+
02083410	Deep Creek near Scotland Neck, N. C.	Lat 36°09'26", long 77°28'24", Halifax County, at culvert on State Highway 125, 3 miles west of Scotland Neck, and 4.5 miles upstream from Canal Creek.	a12	1953-73	4- 1-73	17.87	300
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	1953-73	2- 2-73	20.30	610
02084520	Upper Goose Creek near Yeatsville, N. C.	Lat 35°31'25", long 76°53'23", Beaufort County, at culvert on U. S. Highway 264, 5.2 miles upstream from mouth, and 8.5 miles west of Yeatsville.	1.49	1953-73	4- 1-73	20.66	69
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	1954-73	2- 2-73	22.09	220
02087240	Stirrup Iron Creek tributary near Nelson, N. C.	Lat 35°53'06", long 78°49'37", Durham County, at culvert on Secondary Road 1972, 0.5 mile upstream from mouth, and 1.5 miles east of Nelson.	.25	1952, 1954-73	2- 2-73	48.28	100
02090960	Nahunta Swamp near Pikeville, N. C.	Lat 35°30'40", long 77°58'56", Wayne County, at bridge on U. S. Highway 117, 0.2 mile downstream from Seaboard Coast Line Railroad, and 1 mile north of Pikeville.	a19	1953-73	4- 1-73	16.81	280
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	1953-73	10- 1-71 4- 1-73	19.65 19.24	++
02092620	Upper Broad Creek tributary near Grantsboro, N. C.	Lat 35°08'06", long 76°56'31", Pamlico County, at bridge on State Highway 55, 1 mile upstream from mouth, and 5.5 miles west of Grantsboro.	a3.3	1953-73	2- 1-73	19.64	55
White Oak River basin							
02092720	White Oak River at Belgrade, N. C.	Lat 34°53'30", long 77°14'02", Onslow County, at bridge on U. S. Highway 17, 0.8 mile north of Belgrade, and 1.1 miles upstream from Mirey Branch.	a53	1953-73	2-15-73	13.44	550
See footnotes at end of table.							

See footnotes at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1973, 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)
New River basin							
02093040	Southwest Creek tributary near Jacksonville, N. C.	Lat 34°47'18", long 77°33'08", Onslow County, at culvert on Secondary Road 1211, 0.5 mile upstream from mouth, and 8 miles northwest of Jacksonville.	a1.0	1953-73	2-15-73	20.00	60
02093070	Southwest Creek near Jacksonville, N. C.	Lat 34°43'56", long 77°32'02", Onslow County, at bridge on State Highway 53, 0.5 mile upstream from Harris Creek, and 4.5 miles southwest of Jacksonville.	a27	1953-73	2-15-73	18.66	770
Cape Fear River basin							
02093549	Haw River at Altamahaw, N. C.	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	1967-73	2- 2-73	41.11	2,500
02096740	Gun Branch near Alamance, N. C.	Lat 36°02'58", long 79°28'35", Alamance County, at bridge on State Highway 62, 1 mile north of Alamance, and 1.5 miles upstream from mouth.	a5.0	1954-73	5-28-73	16.14	55
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	1954-73	2-28-66 2-18-67 5-26-68 8- 3-69 10- 2-69 1- 5-71 10-25-71 2- 2-73	23.94 21.32 23.00 23.57 21.99 22.97 24.00 24.03	f250 f26 f120 f188 f49 f117 f265 270
02101030	Falls Creek near Bennett, N. C.	Lat 35°33'20", long 79°29'56", Chatham County, at culvert on State Highway 902, 2.5 miles southeast of Bennett, and 6 miles upstream from mouth.	a3.0	1954-73	6-22-73	24.65	1,050
02101480	Sugar Creek near Tramway, N. C.	Lat 35°25'28", long 79°14'50", Lee County, at culvert on Secondary Road 1303, 1.2 miles upstream from mouth, and 2 miles southwest of Tramway.	a.9	1954-73	2- 2-73	24.60	250
02105570	Browns Creek near Elizabethtown, N. C.	Lat 34°36'32", long 78°36'57", Bladen County, at bridge on U. S. Highway 701, 1.5 miles south of Elizabethtown, and 3.5 miles upstream from mouth.	a14	1953-73	4- 1-73	18.20	140
02106240	Turkey Creek near Turkey, N. C.	Lat 35°00'11", long 78°11'06", Sampson County, at bridge on Secondary Road 1911, 1 mile north of Turkey, and 2.8 miles upstream from mouth.	a16	1953-73	4- 2-73	22.15	900
02106910	Big Swamp near Roseboro, N. C.	Lat 34°58'38", long 78°34'07", Sampson County, at bridge on State Highway 24, 4 miles northwest of Roseboro, and 5 miles upstream from mouth.	a32	1953-73	4- 2-73	23.07	4,100
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	1953-73	4- 2-73	20.07	†
Fee 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, 1.0 mile upstream from mouth, and 1.0 mile west of Elkin.	a35	1972-73	6-21-72 2- 2-73	11.62 8.32	† †
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	1968-73	8- 5-73	6.36	434
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	1969-73	6-22-73	3.35	356
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	1968-73	11-14-72	4.53	301
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 miles southwest of post office in Winston-Salem.	5.30	1965-73	5-28-73	15.69	1,180
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	1954-73	4-26-73	18.60	300

See footnotes at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1973, 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)
Pee Dee River basin--Continued							
02124060	North Prong Clarke Creek near Huntersville, N. C.	Lat 35°25'13", long 80°47'54", Mecklenburg County, at bridge on Secondary Road 2442, 1.0 mile upstream from South Prong, and 3 miles east of Huntersville.	3.61	1954-73	2- 2-73	19.68	970
02132230	Bridge Creek tributary at Johns, N. C.	Lat 34°42'12", long 79°26'34", Scotland County, at culvert on U. S. Highway 501, 0.2 mile north of Johns, and 0.8 mile upstream from mouth.	a6.2	1953-73	2- 2-73	20.41	370
02134380	Tenmile Swamp near Lumberton, N. C.	Lat 34°43'34", long 78°59'31", Robeson County, at culvert on U. S. Highway 301, 1.4 miles downstream from Cowpen Branch, and 7.7 miles north of Lumberton.	a16	1953-73	2- 2-73	21.73	410
Santee River basin							
02139610	Hunting 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	1967-73	2- 2-73	7.58	750
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	1967-73	8- 7-73	24.14	1,100
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	1967-73	8- 7-73	23.62	1,620
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†, 1972-73	5-28-73	15.35	8,740
Annual maximum discharge at crest-stage partial-record stations during water year 1973, in Ohio River basin							
Tennessee River basin							
03501760	Coon Creek near Franklin, N. C.	Lat 35°14'04", long 83°20'28", Macon County, at culvert on U. S. Highway 23, 0.7 mile upstream from mouth, and 4.5 miles northeast of Franklin.	1.60	1958-73	5-28-73	7.16	460

† Not determined.

‡ Operated as a continuous record gaging station.

a Approximately.

f Not previously published.

g Previously published as Matrimony Creek near Leaksville.

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Measurements at miscellaneous sites

193

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 1973, in Atlantic Slope basins

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic slope basins						
Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Chowan River basin						
Ahoskie Creek 02053532	Wiccacon River	Lat 36°16'30", long 76°54'00", Hertford County, at bridge on Secondary Road 1417, 0.9 mile west of Bethlehem, and 1.5 miles upstream from Whiteoak Swamp.	a140	1957, 1961	1-16-73 2-16-73 2-26-73 3- 1-73 3-27-73 5-16-73 6-20-73 8- 3-73	175 718 112 1,030 171 33.1 9.90 15.3
Bennetts Creek 02053591	Chowan River	Lat 36°26'00", long 76°42'00", Gates County, at bridge on Secondary Road 1400, 3.4 miles north-east of Gatesville, and 5.3 miles downstream from Duke Swamp.	79.6		3-28-73 6-21-73	134 31.2
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 line, 1 mile upstream from mouth, and 2.5 miles southwest of Asbury.		1970	9-27-73	38.6
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.		1970	9-27-73	90.0
Dan River 02068506	Roanoke River	Lat 36°26'53", long 80°17'06", Stokes County, at bridge on State Highway 89, 0.1 mile upstream from Big Creek, and 1.9 miles north of Moores Springs.	a165	1970	9-27-73	191
Dan River 02068638	Roanoke River	Lat 36°24'33", long 80°11'52", Stokes County, at bridge at Danbury, and 1.2 miles upstream from Shoal Creek.	a270	1970	9-27-73	157
Dan River 02068734	Roanoke River	Lat 36°24'06", long 80°08'21", Stokes County, at bridge on Secondary Road 1695, 0.1 mile upstream from Snow Creek, and 2.1 miles southwest of Dodgetown.		1970	9-27-73	165
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	9-27-73	202
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.		1970	9-27-73	1.93
Pamlico River basin						
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	7-24-73 7-31-73 8-21-73	.33 .26 2.58
Fishing Creek tributary No. 2 02081508	Fishing Creek	Lat 36°17'30", long 78°34'57", Granville County, at bridge on U.S. Highway 158A, 1.2 miles south of Oxford, and 2 miles upstream from Hachers Run.	3.72	1970	7-26-73 7-31-73 8-21-73	1.07 1.16 3.45
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 south-east of Kinton Forks, and 2.6 miles upstream from mouth.	6.52	1970	7-25-73 7-31-73 8-21-73	1.02 .22 6.79
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	7-24-73 7-31-73 8-21-73	1.96 1.34 6.32
Fishing Creek 02081547	Tar River	Lat 36°20'09", long 78°35'38", Granville County, at bridge on Secondary Road 1643, 2.9 mile upstream from mouth, and 6.3 miles south of Oxford.		1970	7-26-73 7-31-73 8-21-73	7.52 8.46 38.9
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	7-26-73 8-21-73	29.3 191
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 south-east of Henderson.	a7.9	1961, 1966, 1969-70	8-28-73	.28

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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.		1970	8- 2-73 8-28-73	3.38 *2.66
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	4-21-70 7-14-70 9-24-70 8-28-73	18.3 2.47 .02 *7.37
Cedar Creek 02081770	Tar River	Lat 36°04'15", long 78°24'34", Franklin County, at bridge on Secondary Road 1105, 1.5 miles downstream from Brandy Creek, and 2.5 miles southwest of Katesville.	a31	1958-59, 1963, 1966, 1968-70	7-24-73 8-24-73	17.5 15.2
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		10-10-72 7-23-73 8-24-73	.66 .59 .67
Brandy Creek 0208177290	Cedar Creek	Lat 36°02'32", long 78°28'36", Franklin County, at Secondary Road 1132, 1.2 mile northeast of Youngsville, and 1.3 miles upstream from mouth.	a.8		10-10-72 7-23-73 8-24-73	1.61 1.13 0
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		10-10-72 7-23-73 8-23-73	1.84 .82 .33
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		10-10-72 7-23-73 8-24-73	2.58 3.48 3.81
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.		1970	7-24-73 3-24-73	14.0 10.8
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		7-24-73 8-22-73	1.48 1.52
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	7-24-73 8-23-73	295 531
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	7-30-73 8-22-73 9-28-73	.08 *1.16 0
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	7-30-73 9-28-73	.72 0
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	7-31-73 8-23-73 9-27-73	.28 .60 *1.16
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.		1970	8- 1-73 9-27-73	1.08 *3.37
Stony Creek 02082562	Tar River	Lat 35°58'41", long 77°58'19", Nash County, at bridge on State Highway 58, 0.5 mile northwest of Nashville, and 0.6 mile upstream from Katy Branch.	a54	1970	7-30-73 8-23-73	11.7 16.8
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.		1970	8- 1-73 8-23-73 9-27-73	60.4 20.7 *3.65
Pig Basket Creek 0208256575	Stony Creek	Lat 36°03'46", long 78°00'22", Nash County, at Secondary Road 1411, 1.7 mile east of Matthews Crossroads, and 7.8 miles upstream from mouth.	a1.9		8- 2-73 8-23-73 9-28-73	.71 0 0
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		8- 2-73 8-23-73 9-28-73	.02 *0.05 0
Pig Basket Creek 02082566	Stony Creek	Lat 36°02'55", long 77°59'58", Nash County, at bridge on Secondary Road 1425, 1.5 mile southwest of Dukes, and 8.8 miles upstream from mouth.	a6.7	1966	8- 2-73 8-23-73 9-28-73	1.02 *4.48 0

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basin--Continued

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basin--Continued						
Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Pamlico River basin--Continued						
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		8- 1-73 8-23-73 9-28-73	0.05 *.07 0
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		8- 1-73 8-23-73 9-28-73	0 0 0
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	8- 3-73 9-26-73	.90 .14
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 Heartsease, and 2.4 miles downstream from Beech Branch.	a980	1970	8- 3-73 9-26-73	814 *164
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 9.0 miles upstream from mouth.	3.61	1970	8- 3-73 9-26-73	0 0
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	8- 3-73 9-25-73	806 *244
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	8-29-73	24.2
Fishing Creek 02082838	Tar River	Lat 36°22'34", long 78°10'04", Warren County, at bridge on U.S. Highway 401, 1.8 miles south of Warrenton, and 3 miles upstream from Possumquarter Creek.	a50	1958, 1969-70	8-29-73	28.6
Butterwood Creek 02082934	Bear Swamp	Lat 36°25'54", long 77°53'28", Halifax County, 1.0 mile south of Littleton, and 7.6 miles upstream from mouth.	a.5	1970	8- 8-73	*.02
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	8- 8-73	*1.57
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	8- 7-73	5.71
Burnt Coat Swamp 02083292	Beech Swamp	Lat 36°11'32", long 77°39'02", Halifax County, at bridge on U.S. Highway 301, 0.5 mile upstream from mouth, and 1.2 miles northeast of Enfield.	a36	1954, 1969-70	8- 7-73	13.9
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	8- 7-73	.38
Deep Creek 02083424	Fishing Creek	Lat 36°06'24", long 77°26'14", Halifax County, 0.3 mile downstream from Candy Creek, and 2.0 miles southwest of Scotland Neck.	a34	1970	8- 7-73	1.89
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	9- 7-73 9-28-73	0 0
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	9- 7-73 9-28-73	0 .11
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	8- 6-73 9-26-73	403 0
Town Creek 02083633	Tar River	Lat 35°48'20", long 77°36'50", Edgecombe County, at bridge on Secondary Road 1200, 1 mile upstream from Bynums Mill Creek, and 1.8 miles northeast of Pinetops.	a170	1970	8- 6-73 8-26-73	381 *2.41
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	8- 6-73 9-27-73	.14 0

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Bynums Mill Run 02083637	Bynums Mill Creek	Lat 35°45'10", long 77°39'30", Edgecombe County, at bridge on State Highway 124, 0.3 mile upstream from mouth, and 0.7 mile east of Macclesfield.	a2.1	1970	8- 6-73	0.36
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	8- 3-73 9-27-73	1,120 357
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	8-15-73	.69
Neuse River basin						
Sevenmile Creek 02084907	Eno River	Lat 36°03'57", long 79°10'08", Orange County, at Secondary Road 1120, 0.9 mile south of Efland, 1.0 mile upstream from Crabtree Creek, and 2.1 miles upstream from mouth.	a8.5		8-16-73 8-22-73	.35 2.12
Eno River 02085000	Neuse River	Lat 36°04'18", long 79°06'14", Orange County, on right bank 800 ft downstream from bridge on State Highway 86, at Hillsborough, and 2 miles downstream from Sevenmile Creek.	66.5	†1928-71	7-26-73 8-17-73 8-21-73 9- 6-73	19.6 13.0 31.2 8.58
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		8-16-73 8-22-73 9- 6-73	.51 1.81 .33
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, 1968	8-16-73 8-22-73 9- 6-73	.51 2.08 .42
Eno River 02085011	Neuse River	Lat 36°04'32", long 79°04'17", Orange County, at bridge on U.S. Highway 70 bypass, 0.5 mile upstream from Strouds Creek, and 1.8 miles east of Hillsborough.	a74	1972	10-11-72 11- 3-72	24.7 22.9
Eno River 0208501550	Neuse River	Lat 36°05'06", long 79°03'43", Orange County, at Secondary Road 1561, 250 ft downstream from Strouds Creek, and 2.2 miles east-southeast of Hillsborough.	a90		11- 3-72 7- 2-73 7- 2-73 7-26-73 8-21-73	26.8 163 167 26.9 41.3
Eno River 02085016	Neuse River	Lat 36°04'36", long 79°00'27", Orange County, at ford on Secondary Road 1569, 2 miles upstream from Stony Creek, and 6 miles southeast of Schley.	a98	1954-55, 1964, 1966, 1968	11- 3-72 7-25-73 8-17-73 8-21-73	33.9 38.5 25.7 57.9
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		8-17-73 8-22-73 9- 6-73	.14 .81 .06
Eno River 02085034	Neuse River	Lat 36°02'47", long 79°00'40", Orange County, at bridge on Secondary Road 1567, 0.5 mile downstream from Stony Creek, and 2 miles northeast of University.	a110		11- 3-72 7- 2-73 7-25-73 8-17-73 8-21-73	33.1 194 43.3 28.6 65.7
Eno River 0208503880	Neuse River	Lat 36°02'42", long 78°59'23", Orange County, at Secondary Road 1568, 2.2 miles east-northeast of University, and 2.3 miles upstream from Sevenmile Creek.	a120		11- 3-72	35.6
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		11- 2-72	43.5
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		11- 2-72	52.2
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		11- 2-72	52.0
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		8-21-73	.27

† Operated as a continuous-record gaging station.

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, 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 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 north-east of Weaver.	a150	1954-55, 1958, 1968, 1972	10-11-72 11- 2-72 7- 9-73 8-21-73	47.6 48.6 72.4 *89.6
Forrest Creek 02085114	South Fork Little River	Lat 36°08'17", long 79°06'28", Orange County, at culvert on Secondary Road 1551, 3.8 miles southeast of Cedar Grove, and 6.8 miles upstream from mouth.	a.6	1972	10-11-72 11- 3-72 7- 2-73 7-26-73 8-21-73	1.30 .07 2.01 .09 .14
Forrest Creek 02085118	South Fork Little River	Lat 36°08'20", long 79°04'54", Orange County, at bridge on Secondary Road 1550, 1.5 miles south-west of Schley, and 5.0 miles upstream from mouth.	a2.7	1954, 1968, 1972	10-11-72 11- 3-72 7- 2-73 7-16-73 8-17-73 8-21-73	1.16 .77 9.73 1.63 .71 .90
Knap of Reeds Creek 02086597	Neuse River	Lat 36°08'34", long 78°47'19", Granville County, at bridge on Secondary Road 1120, 1.4 miles northwest of Butner, and 1.7 miles downstream from Picture Creek.	a38	1972	10-11-72 7- 5-73 7-13-73 7-31-73 8- 2-73 8-22-73	10.5 18.8 4.94 .61 19.6 171
Knap of Reeds Creek 02086624	Neuse River	Lat 36°07'40", long 78°48'55", Granville County, at Camp Butner, 2.5 miles upstream from mouth, and 2.6 miles west of Butner.	42.1		10-11-72	11.7
Ellerbe Creek 02086824	Neuse River	Lat 36°01'42", long 78°51'54", Durham County, at bridge on Secondary Road 1669, and 3.1 miles northeast of Durham.	17.1	1972	10-11-72 11- 3-72 7- 9-73 7-12-73 8-21-73 9-17-73	6.29 6.62 5.90 10.4 5.91 *4.21
Ellerbe Creek 02086849	Neuse River	Lat 36°03'33", long 78°39'58", Durham County, at bridge on Secondary Road 1636, 1.6 miles north-west of Gorman, 3 miles upstream from mouth.	21.7	1972	10-11-72 11- 3-72 7- 9-73 7-12-73 8-21-73 9-17-73	17.4 13.7 12.3 24.4 14.1 17.1
Little Lick Creek 0208700550	Neuse River	Lat 35°58'56", long 78°49'29", Durham County, at culvert on State Highway 98, 0.2 mile west of Oak Grove, 3.2 miles upstream from Chunky Pipe Creek.	a4.9	1972	10-11-72 11- 3-72 7- 5-73 7- 6-73 7-12-73 8-16-73 9-17-73	.25 .75 .26 .15 .06 .03 *.02
Little Lick Creek 02087008	Neuse River	Lat 35°59'11", long 88°47'57", Durham County, at bridge on Secondary Road 1814, 1.3 miles north-east of Lake Grove, and 1.6 miles upstream from Chunky Pipe Creek.	a11	1972	10-11-72 11- 3-72 7- 5-73 7-17-73 8-16-73 9-17-73	4.72 2.54 2.69 1.59 .82 *.80
Little Lick Creek 02087010	Neuse River	Lat 36°00'57", long 78°45'38", Durham County, at bridge on Secondary Road 1804, 1.8 miles upstream from mouth, and 2.3 miles south of Redwood.	19.3	1954, 1958, 1964-68, 1970, 1972	10-11-72 11- 3-72 7- 6-73 7-12-73 8-16-73 9-17-73	5.69 5.65 2.66 6.83 1.25 *.89
Ledge Creek 0208702110	Neuse River	Lat 36°07'00", long 78°42'30", Granville County, at bridge on Secondary Road 1110, 1.2 miles downstream from reservoir, and 1.2 miles south-west of Creedmoor.	a20	1972	10-11-72 7-30-73 8- 2-73 8-22-73	6.32 .11 5.63 141
Neuse River 02087162	Atlantic Ocean	Lat 35°58'06", long 78°37'57", Wake County, at bridge on Secondary Road 2003, 0.1 mile downstream from Lower Barton Creek, and 4.7 miles northeast of Bayleaf.	a730	1972	11- 3-72 6-21-73 6-28-73 7-11-73 8-27-73	231 294 238 264 257

a Approximately.

z Formerly published as Foster Creek.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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 Falls Creek 0208717920	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.	a0.9		6-21-73 8-27-73	0.61 .12
Hattels Branch 0208718330	Richland Creek	Lat 36° 01' 15", long 78° 28' 26", Franklin County, at culvert on State Highway 96, 0.4 mile south-east of Youngsville, and 2.2 miles upstream from mouth.	a.1	1972	10-10-72 7- 5-73 7-13-73	.01 .04 .02
Hattels Branch 0208718440	Richland Creek	Lat 36° 00' 55", long 78° 29' 29", Franklin County, at culvert on U.S. Highway 1A, 1 mile up-stream from mouth, and 1.1 miles southwest of Youngsville.	a.1	1972	10-10-72 7- 5-73 7-13-73 8-23-73	.66 1.63 .79 1.06
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	11- 3-72 7- 6-73 8-27-73 9-17-73	3.58 9.93 5.41 4.54
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	1972	11- 3-72 7- 6-73 7-12-73 8-27-73 9-17-73	4.10 13.2 12.1 7.68 *6.38
Neuse River 0208718995	Atlantic Ocean	Lat 35° 54' 36", long 78° 33' 27", Wake County, 0.2 mile upstream from U.S. Highway 1, and 1.1 miles north of Neuse.	a790	1972	11- 6-72	190
Smiths Creek 02087203	Neuse River	Lat 35° 56' 55", long 78° 30' 32", Wake County, at bridge on Secondary Road 2049, 1 mile down-stream from Austin Creek, and 1 mile southeast of Forestville.	a13	1972	11- 3-72 7-10-73 8-27-73 9-17-73	5.34 9.18 4.43 5.85
Smiths Creek 0208720330	Neuse River	Lat 35° 55' 44", long 78° 31' 40", Wake County, at bridge on Secondary Road 2044, 1 mile down-stream from Sanford Creek, and 2.3 miles south of Forestville.	a21	1972	11- 3-72 8-27-73 9-17-73	9.11 8.17 8.26
Neuse River 02087224	Atlantic Ocean	Lat 35° 50' 55", long 78° 31' 50", Wake County, at bridge on Secondary Road 2215, 0.5 mile down-stream from Hodges Mill Creek, and 3.4 miles north of Milburnie.	860	1972	6-21-73 6-28-73 7-19-73 8-28-73	518 619 541 243
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		8-28-73	1.21
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		10-13-72 7-10-73 8-24-73 9-13-73	1.45 2.62 .29 0
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		10-13-72 8-24-73	.007 .010
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	7- 6-73 7-11-73 8-23-73 9-13-73	25.0 4.30 .82 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 up-stream from mouth at Crabtree Creek, and 1.6 miles north of Morrisville.	a.3	1972	7- 6-73 7-11-73 8-24-73	.03 0 0
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		7- 6-73 7-11-73 8-24-73 9-17-73	.15 0 .001 0
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 up-stream from mouth, and 1.8 miles northeast of Morrisville.	25.4	1961-62, 1968 1972	7- 6-73 7-11-73 8-24-73 9-17-73	52.9 1.30 4.17 0
Crabtree Creek 0208725110	Neuse River	Lat 35° 50' 19", long 78° 46' 49", Wake County, at Interstage Highway 40, 0.4 mile downstream from Hayleys Branch, and 3.5 miles north of Cary.	a52		6-20-73 6-26-73 8-24-73 9-17-73	1.82 74.8 6.57 *1.32

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Crabtree Creek 0208726620	Neuse River	Lat 35°50'41", long 78°42'43", Wake County, at Secondary Road 1664, 0.5 mile downstream from Richland Creek, and 6.1 miles northwest of Raleigh.	a84		6-20-73 7-11-73 8-24-73 9-12-73	9.59 18.3 31.4 2.34
Crabtree Creek 0208727450	Neuse River	Lat 35°50'11", long 78°40'31", Wake County, at Secondary Road 1670, 0.7 mile downstream from House Creek, and 4.4 miles northwest of Raleigh.	a97		12-15-72 2- 2-73 6-29-73	3,160 9,930 10,400
Crabtree Creek 0208729610	Neuse River	Lat 35°49'33", long 78°38'53", Wake County, at Secondary Road 1808, 0.1 mile upstream from Beaverdam Creek, and 3.2 miles northwest of Raleigh.	a110		6-22-73 6-26-73 7- 6-73 7-24-73 9-13-73	143 126 71.8 36.1 *11.5
Crabtree Creek 02087322	Neuse River	Lat 35°48'57", long 78°37'33", Wake County, at bridge on Secondary Road 2030, downstream from Big Branch, and 2.8 miles northeast of Raleigh.	121	1961-62	6-22-73 6-27-73 7-13-73 8-24-73	149 86.1 37.3 40.3
Crabtree Creek 02087324	Neuse River	Lat 35°48'40", long 78°36'43", Wake County, at bridge on U.S. Highway 1, 2.7 miles northeast of Raleigh, and 7.2 miles upstream from mouth.	123		12-15-72 2- 2-73 6-29-73	3,860 9,760 13,500
Marsh Creek tributary 0208732855	Marsh Creek	Lat 35°50'10", long 78°35'20", Wake County, at culvert on Secondary Road 2034, 1.1 miles upstream from mouth, and 1.3 miles southeast of Millbrook.	a.5	1972	7-13-73	.79
Crabtree Creek 02087331	Neuse River	Lat 35°47'28", long 78°35'10", Wake County, at bridge on U.S. Highway 64, 1 mile downstream from Marsh Creek, and 3.0 miles east of Raleigh.	140	1961-62	6-22-73 6-27-73 7-13-73 8-24-73	215 108 53.2 50.5
Walnut Creek 02087337	Neuse River	Lat 35°46'22", long 78°44'15", Wake County, at culvert on Secondary Road 1315, 1.3 miles upstream from Johnson Lake, and 5.6 miles west of State Capitol in Raleigh.	3.36		6-26-73 7-10-73 7-20-73 8-23-73 9-13-73 9-19-73	1.26 .98 .61 .88 .23 .69
Walnut Creek 0208734550	Neuse River	Lat 35°45'30", long 78°39'51", Wake County, at bridge on Secondary Road 1009, 1 mile downstream from Lake Raleigh, and 2.1 miles southwest of Raleigh.	a14	1972	6-27-73 7-10-73 7-20-73 8-23-73 9-19-73	11.9 1.96 1.39 1.30 .86
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		6-26-73 7-12-73 7-20-73 9-13-73 9-17-73	23.6 8.79 8.86 6.32 6.57
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		8-28-73	7.42
Big Branch 02087370	Walnut Creek	Lat 35°44'28", long 78°34'06", Wake County, at bridge on Secondary Road 2542, 1 mile upstream from mouth, and 3 miles northeast of Garner.	a12	1953-58, 1960, 1970, 1972	6-27-73 7-12-73 8-28-73 9-17-73	9.78 6.14 3.19 3.70
Walnut Creek 02087376	Neuse River	Lat 35°45'00", long 78°32'05", Wake County, at bridge on Secondary Road 2551, 0.2 mile upstream from mouth, and 6.5 miles southeast of Raleigh.	a46		6-26-73 7-12-73 7-20-73 8-28-73 9-19-73	68.9 43.4 30.7 34.3 32.7
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 miles upstream from mouth, and 3.0 miles southwest of Knightdale.	a2.3	1954, 1972	7- 6-73 7-20-73	2.34 .86
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	8-28-73	329

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Neuse River 02087416	Atlantic Ocean	Lat 35°42'09", long 78°28'43", Wake County, at bridge on Secondary Road 2509, 0.2 mile upstream from Johnston-Wake county line, and 6 miles south of Knightdale.	1,099		8-28-73	391
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		8-23-73 9-25-73	.004 0
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	7-18-73 8-27-73 9-25-73	7.61 .58 0
Mill Creek 02087533	Neuse River	Lat 35°32'41", long 78°18'38", Johnston County, at bridge on Secondary Road 1003, 1.3 miles upstream from mouth, and 1.6 miles west of Selma.	4.36	1972	7-18-73 8-27-73	10.2 1.17
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		8-10-73	8.01
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	7-17-73 8-28-73	.08 .30
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	7-17-73 8-27-73	6.18 .93
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		8-10-73 12-10-73	.02 .006
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	6-25-73 7-10-73 8-23-73	7.01 1.56 1.48
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		6-25-73 7- 9-73 8-23-73	9.84 1.73 1.99
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-Varina, and 3 miles upstream from mouth.	a4.2		6-25-73 7- 9-73 8-23-73	7.36 1.35 .61
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		6-26-73 7- 9-73 8-23-73	13.4 2.32 .92
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		6-26-73 7- 9-73 8-23-73	22.6 4.11 3.69
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		6-26-73 7-10-73 8-23-73	1.25 .30 .13
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		6-26-73 7-10-73 8-23-73	1.61 .29 .28
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		7- 9-73 8-23-73	1.27 .24
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		6-23-73 7- 9-73	7.75 1.27
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	1972	7- 8-73	1.12
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		9-26-73	0
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	10-13-72 7-19-73 8- 3-73 8-28-73 9-26-73	.33 0 .36 .04 0

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Beaverdam Creek 02088337	Neuse River	Lat 35°27'37", long 78°08'08", Wayne County, at bridge on Secondary Road 1229, 0.2 mile downstream from county line, and 2 miles southeast of Princeton.	a2.9	1972	10-13-72 7-19-73 7-30-73 9-26-73	1.08 1.48 .94 .58
Neuse River 02088364	Atlantic Ocean	Lat 35°21'40", long 78°04'35", Wayne County, at bridge on Secondary Road 1008, 4 miles south of Rosewood, and 7 miles upstream from Little River.	a2,040	1956, 1972	7-19-73 8-28-73 9-26-73	2,470 658 211
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	7-12-73	43.7
Buffalo Creek 02088441	Little River	Lat 35°45'01", long 78°21'33", Johnston County, at bridge on Secondary Road 1718, 0.5 mile upstream from Lake Wendell, and 2.8 miles south of Wendell.	a21	1955,	4-18-72 8-28-73 9-27-73	12.2 3.13 2.06
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		8-27-73 9-25-73	54.2 41.6
Neuse River 02089116	Atlantic Ocean	Lat 35°15'40", long 77°54'40", Wayne County, at bridge on State Highway 111, 1.5 miles downstream from Sleepy Creek, and 4.2 miles northwest of Whitehall	a2,460	1972	10-12-72 11-29-72 12-22-72 2-12-73	4,400 8,800 9,800 16,500
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		8- 3-73 9- 7-73	*.38 0
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		8- 2-73 9- 7-73	4.68 *1.14
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 Harveys town.	a30	1972	8- 1-73 9- 7-73	9.16 0
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 Harveys town.	a.4	1972	9- 7-73	*.06
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	7-31-73 8-22-73	12.3 12.4
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	7-31-73	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	7-31-73 8-22-73	*.15 *.03
Wilder Branch 02090284	Turkey Creek	Lat 35°46'40", long 78°08'40", Nash County, at bridge on Secondary Road 1105, downstream from Norfolk Southern Railway, and 1.5 miles west of Bailey.	a7.7	1972	7-31-73 8-22-73 9-28-73	1.39 .60 *.32
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	7-31-73 8-22-73	.02 *.004
Turkey Creek 0209035950	Contentnea Creek	Lat 35°44'22", long 78°09'43", Wilson County, at bridge on Secondary Road 1131, 0.9 mile west of Connor, and 0.8 mile upstream from unnamed tributary.	a73	1972	7-20-73 8-24-73 9- 7-73 9-27-73	10.9 2.97 0 .58
Hominy Swamp 02090507	Contentnea Creek	Lat 35°45'02", long 77°57'35", Wilson County, at culvert on Secondary Road 1321, at Wilson, and 3 miles upstream from Norfolk Southern Railway.	a1.5	1969-70, 1972	7-16-73 8-24-73 9- 9-73	.47 .40 0
Hominy Swamp 02090509	Contentnea Creek	Lat 35°44'03", long 77°55'33", Wilson County, at bridge on U.S. Highway 264A at Wilson, and 0.3 mile upstream from Norfolk Southern Railway.	5.55	1969-70, 1972	7-17-73 8-24-73 9- 7-73 9-27-73	5.92 .23 0 0
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	7-19-73 8-24-73 9- 7-73 9-28-73	4.14 4.06 *2.35 2.48

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Contentnea Creek 02090519	Neuse River	Lat 35°38'33", long 77°53'16", Wilson County, at bridge on Secondary Road 1622, 0.3 mile upstream from Hominy Swamp, and 2.8 miles southwest of Evansdale.	266	1969-70, 1972	7-18-73	165
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 from mouth, and 0.9 mile from Lucama.	a2.5	1972	7-19-73 9-27-73	.17 0
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	7-20-73 9- 6-73 9-27-73	1.67 0 0
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	1972	7-20-73 9- 6-73 9-28-73	1.14 0 0
Black Creek tributary 0209057190	Black Creek	Lat 35°39'04", 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	7-19-73 9- 6-73 9-27-73	.05 0 0
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	7-19-73 9- 6-73 9-27-73	6.40 0 0
Aycock Swamp 02090609	Black Creek	Lat 35°32'20", long 77°56'50", Wayne County, at bridge on Secondary Road 1506, 2.3 miles east of Fremont, and 6.2 miles upstream from mouth.	a1.7	1972	7-20-73 7-31-73 8-28-73	.80 .31 .35
Contentnea Creek 02090629	Neuse River	Lat 35°36'09", long 77°49'48", Wilson County, at bridge on State Highway 222, 0.6 mile southwest of Stantonburg, and 3.0 miles downstream from Black Creek.	385	1969-70, 1972	7-18-73 9- 6-73 9-28-73	251 *14.4 15.0
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 Stantonburg.	388	1969-70, 1972	7-18-73	265
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	7-20-73 7-31-73 8-28-73 9-26-73	0 0 e.006 0
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		7-20-73 8-28-73 9-26-73	0 .37 0
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	7-31-73 9- 6-73	238 *185
Shepherd Run 02091430	Contentnea Creek	Lat 35°26'06", long 77°38'42", Greene County, at culvert on State Highway 91, 1 mile upstream from mouth, and 2.0 miles south of Snow Hill.	1.47	1969-70, 1972	8- 1-73 9- 5-73	1.37 1.31
Contentnea Creek 02091574	Neuse River	Lat 35°24'46", long 77°29'51", Lenoir County, at bridge on Secondary Road 1410, 1.9 mile upstream from Little Contentnea Creek, and 2.3 miles northeast of Hugo.	789	1956-57, 1969,	8- 1-73 9- 5-73	3.02 90.6
Little Contentnea Creek tributary 02091589	Little Contentnea Creek	Lat 35°36'20", long 77°40'40", Greene County, at bridge on U.S. Highway 264, 0.5 mile upstream from mouth, and 1.5 miles northwest of Walstonburg.	a3.0	1972	7-31-73 9- 6-73	.42 0
Lange 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		8-16-73	0
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	8-16-73	15.5
Neuse River 02091814	Atlantic Ocean	Lat 35°18'40", long 77°18'20", Craven County, at bridge on Secondary Road 1470, 1.5 miles upstream from Core Creek, and 2 miles east of Fort Barnwell.	a3,900	1972	2-14-73	21,500
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	8-16-73	1.00
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		8-17-73	0

a Approximately.

e Estimated.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Renny Creek 0209213705	Neuse River	Lat 35°09'04", long 77°02'09", Craven County, at bridge on Secondary Road 1431, 0.8 mile upstream from mouth, and 2.6 miles northwest of Bridgeton.	a0.8		8-15-73	0
Renny Creek tributary No. 1 0209213765	Renny Creek	Lat 35°08'59", long 77°01'38", Craven County, at U.S. Highway 17, 0.7 mile upstream from mouth, and 2.2 miles northwest of Bridgeton.	a1.6		8-15-73	4.57
Wilson Creek 0209256110	Trent River	Lat 35°05'36", long 77°06'19", Craven County, at Secondary Road 1278, 1.1 miles northwest of Trent Woods, and 1.2 miles upstream from mouth.	a3.5		8-14-73	1.21
East Prong Slocum Creek 02092636	Neuse River	Lat 34°52'57", long 76°54'32", Craven County, at bridge on State Highway 101, 1.5 miles southwest of Cherry Point, and 1.6 miles upstream from mouth.	8.31		8-14-73	e.4
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	9-20-73	*2.02
Haw River 02093250	Cape Fear River	Lat 36°12'47", long 79°57'24", Guilford County, at bridge on Secondary Road 2109, 0.2 mile downstream from Rocky Branch, and 3.3 miles northeast of Oak Ridge.	a14	1971	8- 1-73 9- 5-73 9-20-73	*10.7 4.19 *3.05
Little Troublesome Creek 02093383	Haw River	Lat 36°19'53", long 79°39'48", Rockingham County, at bridge on U.S. Highway 29A, 0.4 mile upstream from mouth, and 2.1 miles south of Reidsville.	a3.7	1970-72	7-23-73 8-20-73	1.90 2.49
Little Troublesome Creek 02093423	Haw River	Lat 36°16'53", long 79°36'37", Rockingham County, at bridge on Secondary Road 2600, 0.8 mile west of Thompsonville, and 1.0 mile upstream from mouth.	a13	1970-72	7-23-73 8-30-73 9-26-73	8.0 8.90 7.37
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		9-19-73	*39.1
Haw River 02093599	Cape Fear River	Lat 36°10'27", long 79°30'08", Alamance County, at bridge on Secondary Road 1561, 0.5 mile southwest of Altamahaw, and 0.8 mile upstream from Reedy Fork.	189	1969-71	7-26-73 8-29-73	61.7 54.5
Reedy Fork 0209374850	Haw River	Lat 36°08'00", long 80°00'52", Guilford County, at Secondary Road 1858, 3.1 miles south-southeast of Oak Ridge, and 3.5 miles upstream from Beaver Creek.	a1.4		8- 1-73 9- 5-73	3.68 2.74
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 4.0 miles upstream from mouth.	a.9	1971	8- 1-73 9- 5-73 9-20-73	*.54 .45 *.44
Reedy Fork 02094377	Haw River	Lat 36°10'55", long 79°40'27", Guilford County, 0.1 mile upstream from Smith Branch, 0.4 mile downstream from bridge on Secondary Road 2732, and 2.7 miles south of Monticello.	119	1969-71	7-25-73 8-30-73 9-19-73	41.5 6.6 *10.9
South Buffalo Creek 02094772	Buffalo Creek	Lat 36°02'02", long 79°47'30", Guilford County, at bridge on S. Elm St., at Greensboro, and 0.2 mile upstream from Ryan Creek.		1969-70	7-23-73 8-31-73	16.7 2.56
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	7-23-73 8-31-73	24.8 2.88
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	7-24-73 8-31-73 9-27-73	34.9 5.09 24.1
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 4.0 miles downstream from Run Creek.	33.6	†1928-58, 1969	7-24-73 8-31-73 9-27-73	36.3 22.3 22.8
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	7-25-73 8-30-73 9-27-73	28.9 28.5 18.8
South Buffalo Creek 02095091	Buffalo Creek	Lat 36°06'45", long 79°40'19", Guilford County, at bridge on Secondary Road 2821, 0.8 mile northwest of McLeansville, and 1.4 miles upstream from mouth.	43.1	1969-70	7-25-73 8-30-73 9-19-73	33.0 21.5 *23.5

† Operated as a continuous-record gaging station.

a. Approximately.

e. Estimated.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
North Buffalo Creek 02095228	Buffalo Creek	Lat 36°04'53", long 79°48'09", Guilford County, at bridge on Battleground Avenue, at Greensboro, and 5.3 miles upstream from Muddy Creek.	a11	1969-71	7-26-73 8-31-73	7.13 3.08
North Buffalo Creek 02095317	Buffalo Creek	Lat 36°06'17", long 79°45'44", Guilford County, at culvert on U.S. Highway 29, at Greensboro, and 2.0 miles upstream from Muddy Creek.	a23	1969-71	7-26-73 9- 5-73 9-27-73	14.8 15.6 10.4
Buffalo Creek 02095554	Reedy Fork	Lat 36°08'34", long 79°38'54", Guilford County, at bridge on Secondary Road 2795, 1.2 miles upstream from Blackwood Creek, and 2.6 miles north of McLeansville.	91.6	1969-71	7-25-73 8-30-73	84.1 46.9
Reedy Fork 02095608	Haw River	Lat 36°10'39", long 79°34'32", Guilford County, at bridge on State Highway 61, 1.7 miles downstream from Buffalo Creek, and 3.5 miles northwest of Ossipee.	a240	1969-71	8- 1-73 8-30-73 9-20-73	199 61.7 *101
Reedy Fork 02095681	Haw River	Lat 36°10'06", long 79°30'29", Alamance County, at bridge on State Highway 87, at Ossipee, and 0.5 mile upstream from mouth.	254	1969-70	7-26-73 8-29-73 9-19-73	266 82.3 78.3
Haw River 02095716	Cape Fear River	Lat 36°09'02", long 79°29'12", Alamance County, at bridge on Secondary Road 1530, 0.9 mile upstream from Travis Creek, and 2 miles southeast of Ossipee.	450	1969-71	7-27-73 8-29-73 9-19-73	562 131 100
Travis Creek tributary 02095752	Travis Creek	Lat 36°07'13", long 79°32'27", Guilford County, at bridge of Secondary Road 2744, 0.8 mile north of Gibsonville, and 4 miles upstream from mouth.	a1.4	1970	7-25-73 8-30-73 9-21-73	.14 .14 *.15
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		7-27-73 8-28-73 9-19-73	.58 .28 .30
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	7-25-73 8-28-73 9-19-73	1.91 *1.43 .31
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	7-27-73 8-28-73 9-19-73	2.33 *1.13 *.40
Haw River 02095968	Cape Fear River	Lat 36°07'23", long 79°24'27", Alamance County, at bridge on Secondary Road 1700, 0.3 mile west of Hopedale, and 0.3 mile upstream from Stony Creek.	478	1969-70	7-26-73 8-29-73	373 115
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.		1970	7-26-73 8-30-73	.03 0
Haw River 02096518	Cape Fear River	Lat 36°02'56", long 79°21'46", Alamance County, at bridge on State Highway 54, 0.3 mile upstream from Back Creek, and 2.3 miles southeast of Graham.	608	1969-70	7-24-73 8-27-73 9-19-73	270 150 *134
Town Branch 02096519	Haw River	Lat 36°02'47", long 79°21'59", Alamance County, at culvert on Secondary Road 2109, 0.1 mile upstream from mouth, and 2.4 miles southeast of Graham.		1969-70	7-24-73 8-28-73 9-18-73	5.14 3.92 *2.56
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	7-23-73 8-28-73 9-18-73	0 *.12 *.19
Back Creek 02096545	Haw River	Lat 36°05'24", long 79°20'16", Alamance County, at bridge on Secondary Road 1936, 1.5 miles east of Haw River, and 1.6 miles downstream from Quaker Creek.		1969-70	7-24-73 8-27-73 9-19-73	21.6 19.2 *7.83
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	7-24-73 8-27-73	.15 *.22
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	8-27-73 9-20-73	*1.9 *.96
z 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	7-26-73 8-31-73 9-26-73	1.76 .43 *.12

a Approximately.

z Formerly published as Little Alamance Creek.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
x 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.		1970	7-24-73 9-26-73	2.50 *.03
x 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	7-26-73 9-26-73	9.74 *1.71
Little 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.		1970	7-25-73 8-30-73 9-21-73	.28 .07 *.05
Little 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	9- 5-73 9-21-73	.21 *.10
z Big Alamance Creek 02096720	Haw River	Lat 36°01'55", long 79°29'21", Alamance County, at bridge on State Highway 62, 0.2 mile north of Alamance, and 0.8 mile downstream from Little Creek.	a140	1949-54, 1956-57, 1961-63, 1970	7-25-73 8-28-73	62.1 18.6
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.		1970	7-25-73 8-28-73 9-19-73	.15 *.11 *.10
z Big Alamance Creek 02096758	Haw River	Lat 36°01'27", long 79°21'38", Alamance County, at bridge on State Highway 49, 0.5 mile northeast of Bellemont, and 1.6 miles upstream from Stinking Creek.	157	1970-71	7-27-73 8-28-73	54.2 18.4
z Big Alamance Creek 02096811	Haw River	Lat 36°01'25", long 79°23'33", Alamance County, at bridge on State Highway 87, 0.2 mile downstream from Little Alamance Creek, and 2.9 miles east of Bellemont.	264	1969	7-25-73 8-28-73 9-19-73	111 26.8 *22.8
Haw River 0209693250	Cape Fear River	Lat 35°49'45", long 78°13'09", Chatham County, at Secondary Road 1545, 0.5 mile downstream from Terrell Creek, and 1 mile north-northwest of Terrells.	a1,222		7-19-73 8-22-73 9-27-73	1,580 505 52.2
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	7-19-73 8-21-73 9-26-73	1.89 .74 .38
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		7-19-73 8-21-73 9-26-73	.36 0 .09
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	7-18-73 8-21-73 9-26-73	.88 *.42 .14
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	7-20-73 8-21-73 9-26-73	6.29 2.09 .34
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	7-18-73 8-21-73 9-27-73	8.49 3.45 2.36
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	10-11-72 7-19-73 8-22-73 9-20-73	2.08 .50 .42 0
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	10-11-72 7-19-73 8-22-73 9-20-73	1.17 .83 .94 0
New Hope Creek 0209719850	New Hope River	Lat 36°00'12", long 79°05'36", Orange County, at bridge on Secondary Road 1723, 1 mile downstream from Steep Bottom Branch, and 6.7 miles northwest of Chapel Hill.	a9.0	1971	10-11-72 7-3-73 7-18-73 8-22-73	1.80 4.41 2.02 1.12
New Hope Creek 0209719950	New Hope River	Lat 35°59'42", long 79°04'22", Orange County, at bridge on State Highway 86, 0.1 mile north of Blackwood, and 0.7 mile downstream from Mountain Creek.	a15	1971	10-11-72 7- 3-73 7-17-73 8-22-73	4.11 6.69 4.20 1.40

a Approximately.

x Formerly published as Little Alamance.

z Formerly published as Alamance.

Discharge measurements made at miscellaneous sites during water year 1973, 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 02097201	New Hope River	Lat 35°59'45", long 79°03'16", Orange County, at bridge on Secondary Road 1718, 0.7 mile upstream from Old Field Creek, and 5.7 miles north of Chapel Hill.	a17	1968, 1971	10-11-72 8-25-73	2.36 2.86
New Hope Creek 02097203	New Hope River	Lat 35°59'31", long 79°02'45", Orange County, at bridge on Secondary Road 1730, 0.5 mile downstream from Old Field Creek, and 1.5 miles east of Blackwood.	a22	1962, 1966, 1968, 1971	7- 3-73 7-18-73 8-22-73 9-20-73	8.82 6.50 3.89 0
Little Creek 02097206	New Hope Creek	Lat 35°59'32", long 79°00'10", Orange County, at bridge on Secondary Road 1718, 0.5 mile upstream from mouth, and 3.9 miles east of Blackwood.	a4.1	1968, 1971	7-18-73 8-23-73 9-20-73	1.33 3.29 *.46
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.		1971	8-23-73	.05
New Hope Creek tributary 02097208	New Hope Creek	Lat 35°58'47", long 78°59'49", Durham County, at culvert on Secondary Road 1303, 0.3 mile upstream from mouth, and 5.7 miles northwest of Keene.	.36	1968, 1971	7-17-73 8-23-73	.02 .15
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	8-23-73	10.5
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	8-22-73	52.9
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	10-12-72 7-11-73 8-22-73	7.94 2.78 92.9
New Hope Creek 02097234	New Hope River	Lat 35°56'33", long 78°58'32", Durham County, at bridge on Secondary Road 1127, 1.0 mile downstream from Sandy Creek, and 5.7 miles northwest of Lowes Grove.	a52	1968, 1970-71	10-13-72 7-11-73 8-21-73	11.5 23.2 13.1
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 mile upstream from mouth, and 6 miles southwest of Durham.	a.5	1970	10-10-72 7-11-73 8-21-73	.02 .12 0
Third Fork Creek 02097259	New Hope River	Lat 35°57'40", long 78°54'55", Durham County, at bridge on Cornwallis Road at Durham, and 5.5 miles upstream from mouth.	7.52	1970	10-12-72 7-11-73 8-21-73	1.85 2.22 *1.36
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	1970-71	10-13-72 7-10-73 8-22-73	7.43 5.47 58.7
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.		1970	7-20-73 8-23-73 9-20-73	.33 .32 *.16
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 Lowes Grove.	a.2	1970	10-13-72 7- 5-73 8-23-73	.02 .06 .07
Northeast Creek tributary 0209741305	Northeast Creek	Lat 35°55'00", long 78°52'40", Durham County, downstream from culvert on Secondary Road 2020, 0.2 mile upstream from mouth at Research Triangle Park.	a.2		10-10-72 7-10-73 8-23-73	.52 .03 a.07
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.		1970	10-13-72 7- 3-73 7- 5-73 7- 9-73 8-23-73	2.16 0 .71 2.64 1.29
Northeast Creek 02097414	New Hope River	Lat 35°54'09", long 78°54'04", Durham County, at bridge on State Highway 54, 0.7 mile west of Lowes Grove, and 1.8 miles upstream from Burdens Creek.	11.9	1960, 1970	10-12-72 7- 3-73 7- 5-73 7- 9-73 8-22-73	0 0 1.17 .34 11.2
Northeast Creek 02097416	New Hope River	Lat 35°53'12", long 78°54'00", Durham County, at bridge on Secondary Road 1102, 0.7 mile upstream from Burdens Creek, and 1.2 miles south west of Lowes Grove.	13.0	1962, 1968, 1970	10-12-72 7- 5-73 7- 9-73 8-23-73	1.22 1.23 .35 5.38

a Approximately.

e Estimated.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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.		1970	10-13-72 7- 5-73 7-10-73 8-23-73	0.01 .04 0 .02
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.		1970	10-13-72 7- 3-73 7- 5-73 7-10-73 8-23-73	.02 .02 .02 .02 .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.		1970	10-12-72 7- 3-73 7-10-73 8-23-73	.01 .03 0 .01
Effluent Ditch 0209741673	Lake Branch	Lat 35°54'25", long 78°51'38", Durham County, at U.S. Forest Service Laboratory on Secondary Road 1121, at a point upstream from sewage outfall in effluent ditch, 2.1 miles northwest of Nelson.		1970	10-13-73	.03
Lake Branch 0209741675	Burdens Creek	Lat 35°54'18", long 78°51'38", Durham County, at culvert on Secondary Road 1121, 0.9 mile upstream from mouth, and 1.6 miles northwest of Nelson.		1970	10-13-72 7- 3-73 7-10-73 8-23-73	.02 .03 0 .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.		1970	10-12-72 7- 3-73 7-10-73 8-23-73	.23 .16 .06 .09
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	10-12-72 7- 5-73 7- 9-73 8-23-73	.41 0 0 0
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	10-10-72 10-13-72 7- 9-73 8-23-73	3.80 4.31 1.50 11.6
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.	.73	1970	10-12-72 7- 9-73 8-23-73	.01 0 .90
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.		1970	8-23-73	.04
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.		1970	10-12-72 7- 3-73 7-10-73	.46 0 0
Morgan Creek 02097500	New Hope River	Lat 35°53'50", long 79°05'28", Orange County, 600 ft downstream from University Lake Dam, 2.3 miles southwest of Chapel Hill, 2.8 miles upstream from Wilson Creek.	29.1	†1923-32, 1970	7-19-73 8-23-73 9-20-73	16.9 5.18 .58
Morgan Creek 02097509	New Hope River	Lat 35°53'30", long 79°03'33", Orange County, at bridge on U.S. Highway 15 and 501, 0.1 mile downstream from Wilson Creek, and 1.5 miles south of Chapel Hill.		1970	7-25-73 8-23-73 9-20-73	7.68 8.83 2.79
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	7-20-73 8-23-73	22.0 15.2
Morgan Creek 02097521	New Hope River	Lat 35°51'48", long 79°00'35", Chatham County, at bridge on Secondary Road 1726, 2 miles upstream from Cub Creek, and 4 miles north of Farrington.	45.6	1970	7-18-73 7-20-73	157 15.2
New Hope River 02097683	Haw River	Lat 35°47'44", long 79°00'32", Chatham County, at bridge on Secondary Road 1008, 0.5 mile south of Farrington, and 1 mile upstream from Bush Creek.	230	1970	7-18-73 8-20-73	299 437
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	7-27-73 9- 6-73 9-26-73	95.7 3.22 7.11

† Operated as a continuous-record gaging station.

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Richland Creek 02099480	Deep River	Lat 35°56'28", long 79°55'56", Guilford County, at bridge on Secondary Road 1154, 0.4 mile downstream from Mile Branch, and 2.9 miles northeast of Archdale.	12.7	1954-56, 1958-60, 1962, 1966, 1971	7-27-73 9- 6-73 9-26-73	9.71 2.84 *2.37
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	8- 1-73 8- 2-73	18.0 16.3
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	7-31-73 9- 6-73	150 32.5
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	7-26-73 9- 6-73 9-21-73	.29 .04 0
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 Sedgewfield, and 3 miles upstream from Jenny Branch.	a2.6	1971	7-31-73 9-26-73	.82 .01
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	7-26-73 9- 6-73 9-21-73	2.82 .48 *.32
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	8- 7-73 8-28-73	85.6 33.5
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	8-28-73	43.4
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	8-29-73	1.00
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	8- 8-73 8-28-73	8.24 8.00
Deep River 02100369	Cape Fear River	Lat 35°44'32", long 79°42'07", Randolph County, at Franklinville, and 2 miles upstream from Sandy Creek.	280		8- 7-73 8-28-73	172 46.7
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	8- 6-73 8-28-73	134 62.7
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	8-29-73 9-18-73	.006 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	8- 2-73 8-29-73 9-18-73	.68 .13 *.16
Bear Creek 02100772	Deep River	Lat 35°31'45", long 79°45'48", Randolph County, at culvert on Secondary Road 2859, 0.1 mile downstream from first culvert on State Highway 705 (first crossing of Bear Creek), and 1 mile southeast of Seagrove.		1971	8- 8-73 8-29-73 9-18-73	.19 .31 *.15
Bear Creek 02100824	Deep River	Lat 35°24'48", long 79°38'33", Moore County, at bridge on Secondary Road 1425, 2.5 miles northeast of Spies, and 3 miles upstream from Cabin Creek.	a44	1954-55, 1971	7-27-73 8-24-73	17.9 *8.0
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		7-27-73 8-24-73 9-26-73	39.4 *18.0 6.34
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	7-31-73 8-24-73 9-26-73	1.10 *.06 0

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Killetts Creek 02101183	McLendons Creek	Lat 35°21'14", long 79°27'15", Moore County, at bridge on Secondary Road 1261, 1.5 miles upstream from mouth, and 2.2 miles west of Carthage.	a8.7	1971	7-31-73 8-24-73	3.16 *.24
Deep River 02101463	Cape Fear River	Lat 35°33'18", long 79°17'17", Chatham County, at Gulf bridge on Secondary Road 1007, 2.4 miles upstream from Picket Creek, and 3.5 miles south-east of Goldston.	a1,050	1970	7-17-73 8-23-73	704 331
Big Buffalo Creek 02101524	Deep River	Lat 35°29'19", long 79°12'08", Lee County, at bridge on Secondary Road 1100, 1 mile upstream from Skunk Creek, and 1.5 miles west of Sanford.	a7.7	1970, 1972	7-16-73 8-23-73	1.54 .33
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	7-16-73 8-23-73 9-25-73	3.38 6.24 2.21
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 Cummock.		1970	7-16-73	.003
Big Buffalo Creek 02101552	Deep River	Lat 35°32'34", long 79°13'19", Lee County, at bridge on Secondary Road 1403, 0.9 mile upstream from mouth, and 1.2 miles southeast of Cummock.	a20	1954, 1962, 1970, 1972	7-16-73 8-23-73 9-25-73	8.04 2.83 1.70
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 north-east of Liberty, and 6.3 miles upstream from mouth.	a2.6	1971	8- 8-73 8-29-73	.81 1.32
Loves Creek 02101752	Rocky River	Lat 35°43'49", long 79°25'37", Chatham County, 700 ft downstream from sewage plant, 0.3 mile upstream from mouth, and 2.1 miles east of Siler City.	8.14		7-20-73 8-22-73 9-26-73	1.40 .83 .22
Loves Creek 021017555	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		9-26-73	3.59
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, 3.4 miles northeast of Mt. Vernon Springs.	93.2	1970	7-20-73 8-22-73 9-26-73	20.3 9.99 4.63
Buckhorn Creek tributary No. 1 0210218920	Buckhorn Creek	Lat 35°38'44", long 78°58'01", Chatham County, at mouth, and 2.1 miles east of Corinth.	a3.6		6- 8-73 8-16-73	.75 .44
Buckhorn Creek tributary 0210219050	Buckhorn Creek	Lat 35°38'10", long 78°58'16", Chatham County, at mouth, and 1.7 miles east-southeast of Corinth.	a.9		6- 8-73 8-16-73	.006 .32
Kenneth Branch 02102457	Neal Creek	Lat 35°32'01", long 78°47'41", Harnett County, at bridge on Secondary Road 1415, 2.2 miles north-east of Chalybeate, and 2.6 miles upstream from mouth.	a14	1955, 1970, 1972	11- 6-72 6-28-73 7-16-73 8-24-73 9-25-73	3.83 17.0 11.1 3.04 1.41
Gasters Creek 0210256023	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		8-23-73 9-25-73	.72 .54
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		7-17-73 8-23-73 9-25-73	11.0 2.80 1.59
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,	7-31-73 8-23-73 9-26-73	7.24 *6.23 4.67
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	5-18-72 7-30-73 8-23-73 9-26-73	f2.68 2.77 *3.22 2.61
McDeeds Creek 02102838	Mill Creek	Lat 35°12'05", long 79°22'45", Moore County, below sewage effluent outfall, 1.8 miles north-east of Southern Pines, and 3.3 miles upstream from mouth.	4.20		5-18-72	f8.68
McDeeds Creek 02102849	Mill Creek	Lat 35°13'00", long 79°21'31", Moore County, at bridge on Secondary Road 1802, 0.7 mile north-west of Niagara, and 1.5 miles upstream from mouth.	7.19		7-30-73 8-23-73 9-26-73	8.37 *8.37 7.22

a Approximately.

f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
McDeeds Creek 0210284950	Mill Creek	Lat 35°13'43", long 79°20'46", Moore County, at bridge on Secondary Road 1853, 0.3 mile upstream from mouth, and 1.5 miles northeast of Niagara.	a8.2		5-18-72 9-26-73	f9.22 8.19
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		5-18-72 7-31-73 8-23-73 9-26-73	f21.1 15.0 *13.1 9.14
Mill Creek 0210287225	Little River	Lat 35°14'25", long 79°18'25", Moore County, at Secondary Road 1853, upstream from Crystal Lake Dam, and 1.3 miles southwest of Vass.	a20		5-18-72	f27.7
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	8- 2-73 8-28-73	443 *171
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 McLeod Creek, and 2 miles east of Manchester.	360	1955, 1968	8- 2-73	468
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		5-17-72 8-10-73 8-29-73	f11.1 5.92 *3.08
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		5-17-72	f1.90
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		5-17-72 8- 2-73 8-29-73	f4.20 45.9 *3.98
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		5-17-72 8-10-73	f7.09 6.49
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		8- 3-73 8-30-73	*.24 0
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		8- 3-73 8-30-73	.20 *.02
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	8- 8-73	12.6
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		8- 9-73	143
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		8-10-73	246
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		8-10-73	201
Rockfish Creek 0210429150	Cape Fear River	Lat 34°57'38", long 78°58'21", Cumberland County, at Secondary Road 1115, 1.7 miles southwest of Hope Mills, and 3.4 miles upstream from Little Rockfish Creek.	a183		8- 9-73 8-28-73	328 *298
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		8- 9-73 8-28-73	364 *331
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		8- 3-73	21.6
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		8- 3-73	9.08
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		8- 7-73	5.08

† Operated as a continuous-record gaging station.

a Approximately.

f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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		8- 2-73	30.8
Beaver Creek tributary No. 1 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		8- 7-73	.75
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	8- 8-73	1.53
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		8- 8-73	115
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		8- 7-73 8-30-73	1.58 .39
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		8- 8-73	3.08
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 miles upstream from mouth.	a95		8- 9-73	156
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		8- 9-73	137
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		8-13-73 9- 6-73	9.64 *2.63
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 miles north of Roseboro, and 3 miles upstream from Bearskin Swamp.	a91		11- 7-72 8-13-73 9- 6-73	33.8 14.6 *3.98
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		11- 7-72 8-13-73 9- 6-73	32.3 55.8 *4.01
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		8-13-73 9- 6-73	64.0 *38.3
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		11- 7-72 8-13-73 9- 6-73	.05 .01 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		11- 8-72 8-13-73 9-11-73	24.2 .54 *.002
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	8-13-73 9-11-73	.22 .51
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		11- 8-72 8-14-73 9-11-73	23.9 0 0
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		11- 6-72 6-28-73 7-16-73 8-23-73	1.24 14.6 5.77 0
Black River 0210665090	South River	Lat 35°18'49", long 78°08'35", Harnett County, at Secondary Road 1718, 0.4 mile upstream from Popes Pond, and 2 miles west of Dunn.	a43		11- 6-72 6-29-73 7-18-73 8-23-73 9-25-73	10.6 116 75.2 3.84 0

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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	11- 6-72 7-18-73 9-25-73	8.58 44.6 0
Stony Run tributary 0210674020	Stony Run	Lat 35°19'12", long 78°36'21", Harnett County, at U.S. Highway 301, 0.6 mile upstream from mouth, and 1.3 miles north-northwest of Dunn.	a.2		7- 8-73 8-23-73 9-25-73	.05 0 0
Stony Run 0210674050	Mingo Swamp	Lat 35°18'49", long 78°35'41", Harnett County, at Secondary Road 1799, 0.8 mile northwest of Dunn, and 1.4 miles upstream from mouth.	a5.8		11- 6-72 6-28-73 7-16-73 8-23-73 9-25-73	1.68 3.49 34.7 *3.99 0
Mingo Swamp 02106760	South River	Lat 35°16'18", long 78°35'11", Harnett County, at bridge on U.S. Highway 421, 1 mile downstream from Stony Run, and 2.7 miles southeast of Dunn.	a50	1955, 1957-64	11- 6-72 6-29-73 7-18-73 8-23-73 9-25-73	12.4 112 153 16.6 0
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		8-14-73	17.1
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		8-14-73	43.0
Northeast Cape Fear River 02107581	Cape Fear River	Lat 35°11'10", long 78°03'00", Duplin County, at bridge on Secondary Road 1004, 0.5 mile upstream from Barlow Branch, and 1.5 miles southeast of Mt. Olive.	a2.7	1956	8- 7-73 9-12-73	0 0
Northeast Cape Fear River 02107586	Cape Fear River	Lat 35°11'35", long 78°01'05", Wayne County, at bridge on Secondary Road 1937, 1.5 miles downstream from Barlow Branch, and 3 miles east of Mt. Olive.	a10		8- 7-73	3.55
Northeast Cape Fear River 0210761250	Cape Fear River	Lat 35°06'00", long 77°49'59", Duplin County, at Secondary Road 1519, 0.5 mile upstream from Matthews Sawyer Branch, and 3 miles north of Kornegay.	a98		8- 8-73 9-12-73	28.2 16.7
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		11- 7-72 8- 7-73 9-11-73	48.2 0 .03
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	9-11-73	0
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		11- 8-72 8- 7-73 9-11-73	18.2 .58 *.13
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		11- 8-72 8- 7-73 9-11-73	96 30.3 0
Muddy Creek 02107990	Northeast Cape Fear River	Lat 34°50'20", long 77°49'57", Duplin County, at bridge on Secondary Road 1964, 0.6 mile upstream from mouth, and 1.2 miles northwest of Chinquapin.	a35		8- 8-73 9-11-73	36.4 52.4
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		11- 8-72 8-14-73 9-11-73	3.14 0 .36
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		11- 8-72 8-14-73 9-11-73	47.3 0 3.99
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		11- 9-72 8- 9-73 9-11-73	81.3 4.38 4.78
Stocking Head Creek 02107985	Northeast Cape Fear River	Lat 34°52'12", long 77°51'57", Duplin County, at bridge on Secondary Road 1953, 2.5 miles upstream from mouth, and southeast of Hallsville.	a66		8- 9-73 9-11-73	6.63 11.3

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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		11- 9-72 8- 8-73 9-11-73	13.3 2.38 0
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		11- 9-72 8- 8-73 9-11-73	35.4 1.28 0
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		11- 9-72 9-11-73	5.25 *.40
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		11- 9-72 8-14-73	18.0 .22
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 Teachey's.	a43		8-14-73 9-11-73	5.93 157
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		8-14-73 9-11-73	7.85 168
Rockfish Creek 02108534	Northeast Cape Fear River	Lat 34°43'03", long 77°58'48", Duplin County, at bridge on U.S. Highway 117, 1 mile downstream from Sawyer Creek, and 1.5 miles south of Wallace.	150		8- 9-73 9-11-73	145 141
Little Rockfish 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		8- 9-73 9-11-73	5.19 6.66
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		8- 9-73 9-12-73	0 0
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		8- 9-73 9-12-73	1.26 .61
Burgaw Creek 0210860550	Northeast Cape Fear River	Lat 34°32'27", long 77°51'13", Pender County, at Secondary Road 1411, at Walkers, and 2.2 miles upstream from mouth.	a19		8- 9-73 9-12-73	7.62 4.62
Waccamaw River basin						
Brown Marsh Swamp 02108994	Brown Marsh	Lat 34°31'32", long 78°38'57", Bladen County, at culvert on U.S. Highway 701, 0.2 mile upstream from Whites Creek, and 2.7 miles north of Clarkton.	25.8	1971-72	8-30-73	4.55
Brown Marsh Swamp 0210899550	Brown Marsh	Lat 34°31'20", long 78°38'36", Bladen County, at Secondary Road 1700, 0.2 mile downstream from Whites Creek, and 2.4 miles west of Bluefield.	a43		8-15-73 8-30-73	2.02 2.99
Big Foot Branch 02109054	Brown Marsh Swamp	Lat 34°28'19", long 78°38'34", Bladen County, 0.1 mile downstream from sewage outfall at Clarkton Waste Treatment Plant, 0.3 mile upstream from mouth, and 1.3 miles southeast of Clarkton.	a2.3	1971-72	8-30-73	.39
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 Finley, and 0.5 mile upstream from Jackson Camp Creek.	a11	1970-72	7-18-73	18.3
Buffalo Creek 02111084	Yadkin River	Lat 36°01'40", long 81°30'45", Caldwell County, at bridge on Secondary Road 1505, 1 mile downstream from Licklog Branch, and 1 mile northwest of Yadkin Valley.	32.3	1963, 1970-72	7-18-73	45.8
Yadkin River 02111119	Pee Dee River	Lat 36°02'12", long 81°28'37", Caldwell County, at bridge on State Highway 268, 0.1 mile downstream from Hawkins Creek, and 0.9 mile northeast of Yadkin Valley.	a83	1970-72	7-18-73	128
Yadkin River 02111192	Pee Dee River	Lat 36°07'43", long 80°22'02", Wilkes County, at bridge on State Highway 268, 0.2 mile east of Ferguson, and 1.2 miles upstream from Beaver Creek.	a180	1961, 1963, 1970-72	7-18-73	263
Cub Creek 02112007	Yadkin River	Lat 36°08'44", long 81°08'33", Wilkes County, at bridge on Secondary Road 2460, 0.6 mile east of Wilkesboro, and 1 mile upstream from Little Cub Creek.	a19	1970-72	7- 2-73 7-18-73	20.2 20.4

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Mulberry Creek 02112040	Yadkin River	Lat 36°11'30", long 81°06'48", Wilkes County, at bridge on State Highway 268, 1 mile upstream from mouth, and 1.2 miles east of North Wilkesboro.	a43	1952-58, 1963, 1970-72	7- 3-73 7-23-73	73.0 62.1
Long Creek 02112052	Mulberry Creek	Lat 36°11'24", long 81°08'52", Wilkes County, at culvert on Secondary Road 1973, 1.7 miles north of North Wilkesboro, and 2.7 miles upstream from mouth.	a.2	1970-72	7-23-73	.07
Long Creek 02112054	Mulberry Creek	Lat 36°10'48", long 81°08'01", Wilkes County, at culvert on State Highway 268, 1.1 miles north of North Wilkesboro, and 1.9 miles upstream from mouth.	a.5	1970-72	7- 2-73 7-23-73	1.42 1.88
Long Creek 02112056	Mulberry Creek	Lat 36°11'12", long 81°06'53", Wilkes County, at bridge on Secondary Road 2334, 0.1 mile upstream from mouth, and 2.6 miles northeast of North Wilkesboro.	a1.8	1970-72	7- 2-73 7-23-73	3.84 2.87
Yadkin River 02112152	Pee Dee River	Lat 36°12'02", long 81°00'20", Wilkes County, at bridge on Secondary Road 2327, 0.2 mile downstream from Roaring River, and 0.5 mile south of Roaring River.	a740	1952, 1970-71	7- 3-73 7-23-73	1,244 1,180
Elkin River 02112245	Yadkin River	Lat 36°16'31", long 80°53'05", Wilkes County, at bridge on Secondary Road 2044, 1.6 miles north of West Elkin, and 3.2 miles upstream from mouth.	a24	1970-72	7- 3-73 7-23-73	42.1 40.6
Elkin River 02112248	Yadkin River	Lat 36°15'09", long 80°51'48", Surry County, at foot bridge in Memorial Park, 0.3 mile upstream from mouth, and 0.4 mile west of Elkin.	a86	1970-72	10-13-72 7- 5-73	18.7 49.5
Dutchmans Creek 02112251	Yadkin River	Lat 36°14'46", long 80°49'51", Surry County, at bridge on State Highway 268, 0.2 mile upstream from mouth, and 1 mile east of Elkin.	a1.4	1970-72	10-13-72 7- 5-73	.95 1.21
Cobb Creek 02112257	Yadkin River	Lat 36°14'14", long 80°49'54", Yadkin County, at bridge on State Highway 67, 0.9 mile east of Jonesville, and 1 mile upstream from mouth.	a5.3	1970-71	10-13-72 7- 5-73	5.42 10.4
Yadkin River 02112397	Pee Dee River	Lat 36°16'04", long 80°42'50", Surry County, at bridge on U. S. Highway 601, 0.1 mile south of Crutchfield, and 1.2 miles upstream from Fisher River	a1,010	1970-72	10-13-72 7- 6-73	1,100 1,890
Fisher River tributary 02112613	Fisher River	Lat 36°23'26", long 80°43'05", Surry County, 60 ft upstream from Lagoon effluent outfall, 600 ft southeast of Secondary Road 1100, and 0.5 mile southeast of Dobson.	a.1	1970-72	10-12-72 6- 7-73 7- 6-73	.16 .26 .18
Fisher River tributary 02112614	Fisher River	Lat 36°22'41", long 80°41'48", Surry County, at end of Secondary Road 2249, 0.6 mile upstream from mouth, and 2 miles southeast of Dobson.	a1.3	1970-72	10-12-72 6- 7-73	1.22 2.56
Fisher River 02112996	Yadkin River	Lat 36°21'24", long 80°40'49", Surry County, at bridge on Secondary Road 2222, 0.5 mile downstream from Beaver Creek, and 4 miles southeast of Dobson.	a120	1970-72	10-12-72	87.8
Cody Creek 02113108	Fisher River	Lat 36°22'00", long 80°43'11", Surry County, at bridge on Secondary Road 1104, 1 mile downstream from Kick Shin Creek, and 2 miles south of Dobson.	a7.3	1963, 1970-72	7- 6-73	8.00
Tanyard Creek 02113182	Yadkin River	Lat 36°14'25", long 80°42'58", Yadkin County, at bridge on Secondary Road 1367, less than 0.1 mile downstream from Fork in Tanyard Creek, and 0.7 mile northwest of Boonville.	a.5	1970-72	7- 5-73	.26
Tanyard Creek 02113186	Yadkin River	Lat 36°15'04", long 80°40'50", Yadkin County, at bridge on Secondary Road 1367, 1 mile upstream from mouth, and 1.8 miles northeast of Boonville.	a1.9	1970-72	6- 5-73 7- 5-73	2.50 2.94
Yadkin River 02113500	Pee Dee River	Lat 35°16'42", long 80°33'18", Surry County, at bridge on Secondary Road 1003, at Siloan, and 75 ft upstream from Hagan Creek.	1,220	1952-56, 1970-72	6-11-73	2,360
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	1970-72	6- 7-73 6-12-73	65.3 55.7
Ararat River 02113620	Yadkin River	Lat 36°30'08", long 80°36'02", Surry County, at bridge on State Highway 103, at Mt. Airy, and 1.7 miles downstream from Champ Creek.	65.5	1925, 1947, 1952-58, 1963, 1970-72	6- 7-73 6-12-73	123 103
Ararat River 02113642	Yadkin River	Lat 36°28'49", long 80°35'54", Surry County, at bridge on U. S. Highway 52 bypass, 0.1 mile upstream from Cane Branch, and 1.4 miles southeast of Mt. Airy.	a70	1970-72	6- 7-73 6-12-73	140 105

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Cane Branch 02113643	Ararat River	Lat 36°28'56", long 80°35'04", Surry County, at culvert on U. S. Highway 52, 0.9 mile upstream from mouth, and 1.8 miles southeast of Mt. Airy.	a1.5	1970-72	6- 7-73 6-12-73	1.63 1.68
Lovills Creek 02113654	Ararat River	Lat 36°32'31", long 80°37'33", Surry County, at bridge on Secondary Road 1700, 2.7 miles upstream from Short Town Branch, and 3 miles north of Mt. Airy.	27.0	1970-72	10-11-72 6-12-73	21.9 52.1
Lovills Creek 02113661	Ararat River	Lat 36°29'42", long 80°37'08", Surry County, at bridge on State Highway 89, at Mt. Airy, and 2.6 miles upstream from mouth.	33.9	1970-72	10-11-72 6-12-73	24.9 57.4
Lovills Creek 02113681	Ararat River	Lat 36°29'06", long 80°36'49", Surry County, at bridge on U. S. Highway 601, at Mt. Airy, and 1.8 miles upstream from mouth.	35.1	1955, 1963, 1970-72	10-11-72 6-12-73	26.3 62.0
Ararat River 02113792	Yadkin River	Lat 36°27'51", long 80°35'34", Surry County, at Mt. Airy Dam No. 1, 1 mile upstream from Rutledge Creek, and 2.5 miles south of Mt. Airy.	a200	1970-72	10-11-72 6-11-73	145 302
Stony Creek 02113832	Ararat River	Lat 36°26'43", long 80°33'23", Surry County, at bridge on Secondary Road 2012, 2.8 miles upstream from mouth, and 4.7 miles southeast of Mt. Airy.	a3.8	1970-72	10-11-72 6-12-73	2.69 5.25
Stony Creek 02113833	Ararat River	Lat 36°26'32", long 80°34'35", Surry County, at bridge on Secondary Road 2015, 1.4 miles upstream from mouth, and 4.4 miles southeast of Mt. Airy.	a5.0	1970-72	10-11-72 6-11-73	3.24 6.05
Heatherly Creek 02113926	Toms Creek	Lat 36°22'41", long 80°29'52", Surry County, at bridge on State Highway 268, 0.8 mile southwest of Pilot Mountain, and 1.8 miles upstream from mouth.	1.0	1970-72	10-11-72	.39
Heatherly Creek 0211392655	Toms Creek	Lat 36°23'11", long 80°29'23", Surry County, at bridge on U. S. Highway 52, 0.9 mile upstream from mouth, and 1.1 miles southwest of Pilot Mountain.	1.0	1970-71	10-12-72 6-12-73	15.7 2.33
Toms Creek 0211395955	Ararat River	Lat 36°23'29", long 80°30'47", Surry County, at bridge on Secondary Road 1315, 0.5 mile downstream from Heatherly Creek, and 2.5 miles west of Pilot Mountain.	a33	1970-72	10-11-72 6-12-73	20.6 33.9
North Deep Creek tributary 0211559755	North Deep Creek	Lat 36°12'32", long 80°41'29", Yadkin County, at bridge on Secondary Road 1513, 0.1 mile upstream from mouth, and 1.9 miles southeast of Boonville.	a1.3	1970-72	10-13-72 6-12-73	.84 1.62
Johnson Creek 0211567610	Yadkin River	Lat 36°00'27", long 80°22'55", Forsyth County, at Secondary Road 1103, 1 mile south of Clemmons and 2.2 miles upstream from mouth.	a.5		6-18-73	.52
Muddy Creek 0211568140	Yadkin River	Lat 36°14'16", long 80°19'33", Forsyth County, at Secondary Road 1895, 1.8 miles upstream from Barkers Creek, and 1.9 miles west of Rural Hall.	a5.1		5-30-73 6-18-73	7.75 7.18
Muddy Creek 0211568145	Yadkin River	Lat 36°13'51", long 80°20'01", Forsyth County, at U. S. Highway 52, 1.1 miles downstream from Barkers Creek, and 2.4 miles west of Rural Hall.	a5.7		6-18-73	7.67
Muddy Creek 0211568155	Yadkin River	Lat 36°13'31", long 80°20'20", Forsyth County, at bridge on Secondary Road 1632, 0.4 mile upstream from Barkers Creek, and 2 miles southeast of Tobaccoville.	a5.4		5-30-73 6-18-73	6.76 8.90
Grassy Creek 02115731	Mill Creek	Lat 36°11'37", long 81°17'37", Forsyth County, at bridge on Secondary Road 1669, 0.8 mile southwest of Stanleyville, and 1.6 miles upstream from mouth.	a2.9	1970-72	10-16-72 6-18-73	1.93 2.70
Muddy Creek 02115750	Yadkin River	Lat 36°03'10", long 80°22'10", Forsyth County, at bridge on Secondary Road 1140, 1.3 miles upstream from Silas Creek, and 4 miles southeast of Lewisville.	82.8	†1964-70	6- 4-73 6-18-73	66.2 108
Muddy Creek 0211575025	Yadkin River	Lat 36°02'50", long 80°22'00", Forsyth County, at Interstate Highway 40, 0.9 mile upstream from Silas Creek, and 2 miles north-northeast of Clemmons.	a83		6-18-73	106
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	1970-72	10-16-72 6-18-73	4.70 4.26
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	1970-72	10-16-72 6-18-73	7.70 5.84

a Approximately.

† Operated as a continuous gaging station.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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, 1970-72	10-16-72 6-18-73	49.9 172
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	1970-72	10-17-72 6-21-73	22.9 30.0
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, 1970-72	10-17-72	54.8
Swain Creek 02115865	South Fork Muddy Creek	Lat 36°03'26", long 80°08'47", Forsyth County, at culvert on U. S. Highway 311, 0.1 mile upstream from mouth, and 1.6 miles northwest of Union Cross.	a1.5	1970-72	10-17-72 6-21-73	1.23 1.33
South Fork Muddy Creek 02115866	Muddy Creek	Lat 36°02'41", long 80°10'06", Forsyth County, at bridge on Secondary Road 2643, 0.3 mile upstream from Sawmill Branch, and 2.8 miles southeast of Easton View.	a4.1	1970-72	10-17-72 6-21-73	2.10 3.55
Leak Creek 02115888	South Fork Muddy Creek	Lat 36°00'00", long 80°14'59", Forsyth County, at culvert on Secondary Road 2931, 1.9 miles upstream from mouth, and 2.1 miles south of Union Ridge.	a2.5	1970-72	10-17-72 6-21-73	.72 3.71
Muddy Creek 02115954	Yadkin River	Lat 35°56'24", long 80°21'29", Davidson County, at bridge on Secondary Road 1485, 1.2 miles upstream from mouth, and 3 miles west of Arcadia.	a260	1968	8-20-73 9-27-73	296 225
Dutchmans Creek 02117000	Yadkin River	Lat 35°55'20", long 80°30'13", Davie County, at bridge on Secondary Road 1600, 0.1 mile downstream from Cedar Creek, and 1.5 miles west of Cornatzer.	83.6	1940-42, 1970-71	10-18-72	18.6
Nelson Creek 02117009	Elisha Creek	Lat 36°54'31", long 80°32'58", Davie County, at culvert on Secondary Road 1400, 0.6 mile upstream from mouth, and 1.3 miles southwest of Maine.	a1.4	1970-71	10-17-72 6-26-73	.51 .78
Elisha Creek 02117010	Dutchmans Creek	Lat 35°54'31", long 80°32'58", Davie County, at bridge on Secondary Road 1304, 0.8 mile south of Maine, and 3.2 miles upstream from mouth.	a6.4	1970-71	10-17-72 6-26-73	1.81 5.01
Buffalo Creek 0211701050	Dutchmans Creek	Lat 35°55'50", long 80°29'20", Davie County, at bridge on Secondary Road 1600, 0.7 mile northwest of Cornatzer, and 1.1 miles upstream from mouth.	a4.5		11-13-72 6-26-73	.86 .90
Elisha Creek 02117012	Dutchmans Creek	Lat 36°54'11", long 80°30'58", Davie County, at bridge on Secondary Road 1600, 1.2 miles upstream from mouth, and 2.8 miles northeast of Mocksville.	a8.7	1963, 1970-72	10-18-72 6-26-73	2.48 8.24
Leonards Creek 02117013	Dutchmans Creek	Lat 35°52'39", long 80°30'37", Davie County, at culvert on U. S. Highway 64, 0.8 mile upstream from mouth, and 2.8 miles east of Mocksville.	a5.3	1970-72	10-18-72 6-26-73	2.37 4.19
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	1970-72	10-18-72 6-26-73	32.2 35.1
South Yadkin River 02117068	Yadkin River	Lat 35°56'28", long 81°04'16", Alexander County, at bridge on Secondary Road 1461, 2 miles downstream from Mill Creek, and 3 miles southwest of Hiddenite.	a28	1970-71	10-17-72 7-24-73	16.7 27.5
Wallace Creek tributary 02117085	Wallace Creek	Lat 35°55'18", long 81°06'24", Alexander County, at bridge on Secondary Road 1498, 0.8 mile upstream from mouth, and 1.6 miles northwest of Hiddenite.	a1.2	1970-71	10-17-72 7-24-73	.80 1.22
Greasy Creek 02117090	South Yadkin River	Lat 35°55'08", long 80°05'12", Alexander County, at bridge on Secondary Road 1001, 1.2 miles north of Hiddenite, and 2.2 miles upstream from mouth.	a15	1956, 1963, 1967-72	10-17-72 7-24-73	9.14 14.1
South Yadkin River 02117132	Yadkin River	Lat 35°53'50", long 81°03'24", Alexander County, at bridge on Secondary Road 1456, 1.2 miles downstream from Greasy Creek, and 2 miles east of Hiddenite.	a54	1963, 1970-72	10-17-72 7-24-73	32.3 50.2
South Yadkin River 02118251	Yadkin River	Lat 35°50'01", long 80°39'56", Davie County, at bridge on Secondary Road 1142, 2 miles upstream from Hunting Creek, and 4 miles northwest of Cooleemee.	a320	1963, 1970-72	10-17-72	181

a Approximately.

x Formerly published as Elisha Creek tributary.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Bear Creek 02118794	South Yadkin River	Lat 35°53'01", long 80°35'19", Davie County, at bridge on U. S. Highway 64, 1 mile southeast of Center, and 5.1 miles upstream from Baxter Creek.	a18	1970-72	10-17-72 6-26-73	4.76 10.7
Bear Creek 02118910	South Yadkin River	Lat 35°52'24", long 80°34'36", Davie County, at bridge on Secondary Road 1139, 1.5 miles southwest of Mockville, and 4.5 miles upstream from mouth.	a23	1952-58, 1963, 1970-72	10-17-72 6-26-73	6.18 12.6
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, 1970-72	10-17-72 9-12-73	297 379
Third Creek 0211929010	South Yadkin River	Lat 35°53'12", long 81°05'04", Alexander County, at bridge on Secondary Road 1632, 1.3 miles southeast of Hiddenite, and 3.8 miles upstream from county line.	a3.2	1970-72	10-17-72 7-24-73	2.43 3.93
Third Creek 02119431	South Yadkin River	Lat 35°46'32", long 80°56'40", Iredell County, at bridge on U. S. Highways 64 and 70, 1.3 miles downstream from Interstate Highway 40 bridge, and 3.2 miles west of Statesville.	a27	1970-72	10-17-72 7- 9-73	14.9 26.4
Third Creek 02119435	South Yadkin River	Lat 35°44'45", long 80°55'18", Iredell County, at bridge on Secondary Road 1004, 3.5 miles north of Barium Springs, and 5.5 miles upstream from Duck Creek.	a29	1963-72	10-17-72 7- 9-73	17.9 31.8
Third Creek 02119437	South Yadkin River	Lat 35°45'06", long 80°53'29", Iredell County, at bridge on State Highway 115, 1.7 miles upstream from Duck Creek, and 2.4 miles south of Statesville.	a43	1970-72	10-17-72 7- 9-73	21.6 45.9
Third Creek 02119438	South Yadkin River	Lat 35°44'54", long 80°52'39", Iredell County, at bridge on Secondary Road 2342, 2.4 miles upstream from Duck Creek, and 2.6 miles southeast of Statesville.	a44	1971	7-20-73	46.3
Third Creek 02119439	South Yadkin River	Lat 35°44'46", long 80°51'38", Iredell County, at bridge on Interstate Highway 77, 1.1 miles upstream from Duck Creek, and 3.2 miles southeast of Statesville.	a48	1970-72	10-17-72 7-13-73 7-20-73	25.2 45.8 54.3
Morrison Creek tributary 02120605	Morrison Creek	Lat 35°48'20", long 80°54'26", Iredell County, at culvert on State Highway 115, 1.1 miles upstream from mouth, and 1.6 miles northwest of Statesville.	a2.4	1970-72	10-17-72 7- 9-73	1.31 3.02
Fourth Creek 02120606	South Yadkin River	Lat 35°48'14", long 80°51'42", Iredell County, at bridge on Interstate Highway 77, 1.2 miles downstream from Morrison Creek, and 2.1 miles northeast of Statesville.	a30	1970-72	10-17-72 7- 9-73	18.9 30.0
Fourth Creek 0212060645	South Yadkin River	Lat 35°47'22", long 80°50'00", Iredell County, at bridge on Secondary Road 2320, 3.2 miles east of Statesville, and 3.4 miles downstream from Morrison Creek.	a38	1970-72	10-17-72 7- 9-73	27.9 40.3
Fourth Creek 0212060665	South Yadkin River	Lat 35°46'34", long 80°47'45", Iredell County, at bridge on Secondary Road 2316, 2.3 miles south of Vance, and 5.9 miles downstream from Morrison Creek.	a45	1970-72	10-17-72 7- 9-73	29.0 48.8
South Yadkin River 02120668	Yadkin River	Lat 35°46'49", long 80°30'24", Davie County, at bridge on U. S. Highway 601, 1.5 miles downstream from Third Creek, and 4 miles north of Franklin.	a760	1968-72,	10-24-72 3-16-73 9-12-73	490 3,370 656
Beaverdam Creek tributary 02120705	Beaverdam Creek	Lat 35°43'04", long 80°40'14", Rowan County, at culvert on Secondary Road 1741, 0.9 mile upstream from mouth, and 1.6 miles southeast of Cleveland.	a.9	1970-72	10-17-72 7- 2-73	.49 .62
Back Creek 02120763	North Second Creek	Lat 35°41'50", long 80°36'40", Rowan County, at bridge on Secondary Road 1526, 0.5 mile upstream from Withrow Creek, and 2.5 miles southeast of Barber.	a63	1970-71	8-15-72 10-17-72 7-11-73	f 22.0 13.3 40.3
North Second Creek 02120780	South Yadkin River	Lat 35°43'05", long 80°35'45", Rowan County, at bridge on U. S. Highway 70, 1.2 miles downstream from Withrow Creek, and 2.8 miles east of Barber.	a120	1949-57, 1961-63, 1970-72	10-17-72 7-11-73	33.0 72.9
Walnut Branch 02120784	North Second Creek	Lat 35°42'54", long 80°34'42", Rowan County, at culvert on U. S. Highway 70, 1.3 miles upstream from mouth, and 3.7 miles east of Barber.	a2.0	1970-72	10-17-72 7- 2-73	.36 3.25
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.	a.6	1970-72	10-17-72 7-11-73	1.77 2.08

† Operated as a continuous-record gaging station.

a Approximately.

f Not previously published.

Discharge measurements made at miscellaneous sites during water year, 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year, 1975, 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						
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	1970-72	10-17-72 6- 8-73	2.37 2.63
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	1970-72	10-17-72 6- 8-73	4.68 9.64
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	1970-72	10-17-72 6- 8-73	5.17 10.8
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	1970-72	10-17-72 6- 8-73	.21 .42
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	1970-72	10-17-72 6- 8-73	8.11 20.0
Grants Creek tributary No. 2 02120901	Grants Creek	Lat 35°38'21", long 80°31'39", Rowan County, at culvert on Secondary Road 1516, below sewage outfall from trailer park, 1 mile upstream from mouth, and 4 miles southwest of Salisbury.	a.3	1970-72	10-17-72 6- 8-73	.08 .25
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	10-17-72 6- 8-73	9.18 25.2
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	10-18-72 6- 8-73 7-11-73	13.4 37.2 31.9
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, 1970-72	10-18-72 6- 8-73	16.8 37.3
Swearing Creek 02121301	Yadkin River	Lat 35°50'13", long 80°17'26", Davidson County, at bridge on Secondary Road 1231, 0.8 mile upstream from Indian Grave Creek, and 2.2 miles west of Lexington.	a11	1952-53, 1955, 1957, 1961	1-26-73	8.96
Swearing Creek 02121312	Yadkin River	Lat 35°49'40", long 80°17'47", Davidson County, at bridge on Secondary Road 1192, downstream from Indian Grave Creek, and 2 miles southwest of Jakesville.	a15	1962-63, 1970-71	10-12-72 10-18-72	3.67 3.61
Michael Branch 0212131230	Swearing Creek	Lat 35°49'34", long 80°16'27", Davidson County, at culvert on Secondary Road 1192, 0.5 mile west of Lexington, and 2.2 miles upstream from mouth.			11-13-72 6-13-73	.90 1.83
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		6-13-73	4.46
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	1970-71	10-12-72 10-18-72 6-13-73	6.05 5.96 26.3
Swearing Creek 02121332	Yadkin River	Lat 35°47'32", long 80°17'44", Davidson County, at bridge on U. S. Highway 29 North, 0.6 mile downstream from Beaverdam Creek, and 4.5 miles east of Tyro.	26.4	1970-71	10-12-72	6.41
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.			11-13-72 6-13-73	.69 3.10
Swearing Creek 02121360	Yadkin River	Lat 35°45'19", long 80°18'22", Davidson County, at bridge on Secondary Road 1130, 0.5 mile east of Linwood, and 2 miles upstream from mouth.	35.3	1948-57, 1961-63, 1970-71	10-12-72	8.22
Sooky Creek 02121362	Swearing Creek	Lat 35°45'24", long 80°17'08", Davidson County, at culvert on Secondary Road 1323, 1.7 miles east of Linwood, and 2.1 miles upstream from mouth.	a.3	1970-71	10-12-72 6-19-73	.05 e.10
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	10-12-72 10-18-72 6-13-73	8.18 8.70 37.3

a Approximately.
e Estimated.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1975, 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						
Crane Creek 02121370	Yadkin River	Lat 35°38'15", long 80°26'55", Rowan County, at bridge on U. S. Highway 52, 0.5 mile downstream from Southern Railway, and 2 miles north of Granite Quarry.	a17	1963-71	10-18-72 7- 3-73	2.61 7.88
Crane Creek 0212137045	Yadkin River	Lat 35°39'41", long 80°25'34", Rowan County, at bridge on Secondary Road 1002, 1.5 miles south-east of Spencer, and 3 miles upstream from mouth.	a23	1970-71	10-18-72 7- 3-73	2.91 8.78
Town Creek 02121383	Yadkin River	Lat 35°40'43", long 80°24'58", Rowan County, at bridge on Secondary Road 1915, 1.4 miles south-east of Spencer, and 2.1 miles upstream from Crane Creek.	a17	1970-71	10-18-72 9-27-73	2.76 1.77
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	10-18-72 7-11-73 9-27-73	7.59 8.81 1.87
Second Creek 02121407	Yadkin River	Lat 35°31'50", long 80°25'07", Rowan County, at bridge on Secondary Road 2335, 1.6 mile southwest of Rockwell, and 2.3 miles upstream from Southern Railway.	8.91	1963, 1966	1-26-73 8- 1-73	4.72 1.55
Second Creek 02121408	Yadkin River	Lat 35°32'12", long 80°24'23", Rowan County, at bridge on Secondary Road 2337, 1.1 miles south of Rockwell, and 8.5 miles upstream from Reedy Creek.	a15	1970-71	10-19-72 7- 1-73 8- 1-73	2.58 6.02 4.37
Second Creek 02121409	Yadkin River	Lat 35°32'17", long 80°23'34", Rowan County, at bridge on Secondary Road 2338, 1.4 miles south-east of Rockwell, and 7.7 miles upstream from Reedy Creek.	a20	1970-71	10-19-72 7- 3-73 8- 1-73	3.75 8.84 5.55
Second Creek tributary 0212140945	Second Creek	Lat 35°30'51", long 80°23'35", Rowan County, at first bridge on Secondary Road 2340, 0.9 mile east of Rockwell, and 1.9 miles upstream from mouth.	a.7	1970-71	10-19-72 7- 3-73 8- 1-73	.23 .33 .27
Second Creek tributary 0212140947	Second Creek	Lat 35°33'50", long 80°22'58", Rowan County, at bridge on Secondary Road 2369, 1.1 miles upstream from mouth, and 1.7 miles northeast of Rockwell.	a1.1	1970-71	10-19-72 7- 3-73 8- 1-73	.30 .56 .44
Abbotts Creek 0212141340	Yadkin River	Lat 36°07'07", long 80°04'14", Forsyth County, at culvert on Pineview Drive, at Kernersville, and 0.6 mile upstream from sewage disposal plant.	a.1		6- 2-73	.08
Abbotts Creek 0212141355	Yadkin River	Lat 36°06'36", long 80°04'29", Forsyth County, at bridge over sludge beds at Kernersville's Abbotts Creek waste treatment plant, 0.1 mile downstream from bridge on Interstate Highway 40, and 0.9 mile south of Kernersville.	a.4	1970-72	10-17-72 6-21-73	.16 .41
Abbotts Creek 0212141550	Yadkin River	Lat 36°04'41", long 80°04'45", Forsyth County, at bridge on Secondary Road 2632, 2.9 miles south of Kernersville, and 3.5 miles downstream from sewage disposal plant.	a3.3		6-21-73	4.92
Abbotts Creek 02121462	Yadkin River	Lat 35°51'20", long 80°11'45", Davidson County, 1.5 mile upstream from Rich Fork, and 2.8 miles north of Holly Grove.	a71	1952-53, 1962	4-19-73 6-25-73	47.0 42.8
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, 1970-72	10-11-72 6-25-73 9-17-73	1.32 3.23 .75
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	1970-72	10-11-72 6-25-73 9-17-73	5.02 13.9 5.20
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	6-25-73 9-17-73	.16 .08
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	10-11-72 6-25-73	.15 .70
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	10-11-72 9-17-73	.39 .74
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	10-11-72 9-17-73	5.13 3.44

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Lick Creek tributary 02122525	Lick Creek	Lat 35°37'49", long 80°07'04", Davidson County, at bridge on Secondary Road 1002, 0.3 mile south of Denton, and 2.9 miles upstream from mouth.	a.17	1970-71	10-19-72 8- 1-73	0.18 .04
Lick Creek tributary 02122526	Lick Creek	Lat 35°36'57", long 80°08'25", Davidson County, at bridge on Secondary Road 2505, 1.2 miles upstream from mouth, and 2 miles southwest of Denton.	a1.4	1970-71	10-19-72 8- 1-73	.13 .29
Lick Creek 0212253155	Yadkin River	Lat 35°36'45", long 80°10'25", Davidson County, at bridge on State Highway 8, 0.3 mile southeast of Healing Springs, and 4.1 miles upstream from mouth.	a27		6-20-73 8- 1-73	6.71 1.94
Curltail Creek 02122629	Riles Creek	Lat 35°29'32", long 80°17'43", Stanly County, 75 ft upstream from sewage outfall at College Heights Waste Treatment Plant off Secondary Road 1599, 0.6 mile northwest of Misenheimer.	a1.6		10-10-70	f 0
Curltail Creek 0212263155	Riles Creek	Lat 35°29'08", long 80°17'18", Stanly County, at bridge on Secondary Road 1500, 0.1 mile north of Misenheimer, and 4.9 miles upstream from Riles Creek.	a1.7	1970-71	10-18-72 8- 1-73 9-12-73	0 0 0
Curltail Creek 0212263161	Riles Creek	Lat 35°28'52", long 80°16'37", Stanly County, at end of Delight Lane, 0.7 mile southeast of Misenheimer, and 4.1 miles upstream from Riles Creek.	a1.9	1970-71	10-24-72 8- 1-73	.06 .02
Toms Creek 02123419	Uwharrie River	Lat 35°37'39", long 80°05'22", Davidson County, at culvert on Secondary Road 2515, 1.4 miles east of Denton, and 11.8 miles upstream from mouth.	a1.1	1970-71	10-19-72	.03
Uwharrie River 0212344850	Pee Dee River	Lat 35°29'18", long 80°00'22", Montgomery County, at bridge on Secondary Road 1301, 0.6 mile downstream from Crow Creek, and 0.8 mile west of Coggins.	a310		4-10-73 9-12-73	972 26.1
Little Mountain Creek 02123631	Mountain Creek	Lat 35°22'51", long 80°06'44", Stanly County, at bridge on Secondary Road 1720, 1.6 miles upstream from mouth, and 1.7 miles south of Badin.	a9.4	1970-71	10-19-72 9-12-73	.88 1.27
Clarks Creek 02123777	Pee Dee River	Lat 35°12'33", long 80°02'30", Montgomery County, at bridge on Secondary Road 1110, 1.6 miles upstream from mouth, and 12.2 miles southwest of Troy.	30.9	1970-71	10-24-72 9-28-73	1.29 .41
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	1970-72	10-17-72 12-18-72 9-19-73	9.54 9.47 10.9
Dye Branch 0212384510	Rocky River	Lat 35°31'29", long 80°46'54", Iredell County, at bridge on Secondary Road 1142, 0.3 mile upstream from mouth, and 2.4 miles south-southeast of Mooresville.	a5.0		9- 9-73	10.6
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	1970-72	12-11-72 9- 7-73 9-19-73	12.8 11.5 11.5
South Prong West Branch Rocky River 02123932	West Branch Rocky River	Lat 35°28'23", long 80°49'02", Mecklenburg County, at bridge on State Highway 73, 1.7 miles upstream from mouth, and 2.4 miles east of Cornelius.	5.0	1969-71	1- 3-73 2- 1-73 9-20-73	3.63 5.22 1.92
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	1- 3-73 1-26-73 2- 1-73 7-27-73 9-20-73	36.7 52.2 48.4 25.0 18.9
South Prong Clarke Creek 02124050	Clarke Creek	Lat 35°24'22", long 80°48'06", Mecklenburg County, at bridge on Secondary Road 2442, 0.9 mile upstream from mouth, and 2.2 miles east of Huntersville.	a5.6	1969-71	2- 1-73 2-16-73 9- 7-73 9-20-73	7.08 6.72 .82 .94
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.		1952-58, 1961-62, 1967	1- 3-73 1-26-73 9-20-73	59.1 100 26.1
Toby Creek 02124140	Mallard Creek	Lat 35°17'42", long 80°44'39", Mecklenburg County, at culvert on State Highway 49, 1.2 miles northwest of Newell, and 1.7 miles upstream from mouth.	a3.6	1969-71	2- 1-73 2-13-73 9-20-73	3.32 2.71 .55

a Approximately.

f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Stony Creek 0212414860	Mallard Creek	Lat 35°20'01", long 80°43'13", Mecklenburg County, at culvert on U. S. Highway 29, 0.2 mile upstream from mouth, and 3.9 miles north of Newell.	a6.8	1969-71	9-20-73	0.01
Mallard Creek 02124160	Rocky Creek	Lat 35°20'01", long 80°40'06", Cabarrus County, at bridge on Secondary Road 1300, 0.2 mile upstream from mouth, and 1.3 miles northwest of Harrisburg.	41.2	1955-65, 1971	2-13-73 2-16-73 7-24-73 9-21-73	30.9 43.6 11.1 5.21
Rocky River 0212418255	Pee Dee River	Lat 35°20'06", long 80°37'41", Cabarrus County, at bridge on Secondary Road 1304, 1.1 miles north of Harrisburg, and 1.7 miles downstream from Mallard Creek.	a134	1970-72	10-19-72 12-12-72 9-19-73	23.1 131 35.4
Coddle Creek 02124206	Rocky River	Lat 35°26'12", long 80°41'51", Cabarrus County, on State Highway 73, 0.7 mile downstream from Mill Creek, and 7.0 miles northwest of Concord.	46.5		7-17-73	132
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	10-19-72	.39
Reedy Creek 0212430295	Rocky River	Lat 35°15'32", long 80°39'46", Mecklenburg County, at bridge on Secondary Road 2804, 3.3 miles upstream from McKee Creek, and 3.5 miles north of Wilgrove.	a13	1969-71	1-30-73 2- 1-73 2-13-73	21.6 14.8 13.2
McKee Creek 02124306	Reedy Creek	Lat 35°14'24", long 80°39'00", Mecklenburg County, at bridge on Secondary Road 2808, 2.5 miles northeast of Wilgrove, and 4.1 miles upstream from mouth.	a4.2	1969-61	1-30-73 2- 1-73	6.74 4.41
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	10-19-72 1- 3-73 7-13-73	2.96 5.92 1.43
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	10-19-72 1- 3-73 7-19-73 7-24-73	21.8 9.58 17.8 23.0
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	1970-72	10-19-72 12- 8-72 1- 3-73 7-13-73 7-24-73	17.5 14.9 12.4 16.9 21.6
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		7-13-73 7-23-73	1.03 .90
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	1970-72	10-18-72 12- 8-72 1- 3-73 7-12-73 7-24-73	15.8 18.6 22.0 21.0 25.8
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	1970-72	10-18-72 1- 3-73 1-26-73 7-12-73 7-24-73	17.6 22.7 36.2 25.1 26.7
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	1970-72	10-18-72 12- 8-72 1-26-73 7-12-73 7-23-73	22.0 31.9 38.2 25.3 21.9
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	1970-72	10-18-72 12-11-72 1- 3-73 7-12-73 7-23-73	23.8 48.4 46.1 28.4 23.7
Irish Buffalo Creek 02124368	Rocky River	Lat 35°21'49", long 80°33'25", Cabarrus County, on Secondary Road 1153, 2.7 miles upstream from mouth, and 3 miles southeast of Concord.	42.2	1970-72	10-18-72 12-11-72 7-12-73 7-23-73	37.7 62.7 38.3 32.3

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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.	a0.2		12-11-72 7-23-73 8- 6-73	0.20 .20 .38
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	10-18-72 8- 6-73	88.9 126
Dutch Buffalo Creek 0212446990	Rocky River	Lat 35°25'59", long 80°25'11", Cabarrus County, 0.6 mile upstream from State Highway 49, 1.2 miles downstream from Little Buffalo Creek, and 2.6 miles north of Mount Pleasant.	a43		7-17-73 8- 6-73	57.3 8.18
Dutch Buffalo Creek 02124500	Rocky River	Lat 35°23'45", long 80°25'00", Cabarrus County, at bridge on State Highway 73, 1 mile east of Mount Pleasant, 1.8 miles downstream from Little Buffalo Creek.	64.1	1940-42, 1970-71	10-18-72	4.20
Goose Creek 02124675	Rocky River	Lat 35°07'48", long 80°37'51", Union County, at bridge on Secondary Road 1524, 0.8 mile downstream from Stevens Creek, and 3.6 miles south of Mint Hill.	a8.6	1969-71	5-26-72 10- 2-72	f 4.50 1.63
Rock Hole Creek 02124773	Rocky River	Lat 35°12'58", long 80°26'34", Stanly County, at bridge on Secondary Road 1147, 2 miles southwest of Stanfield, and 4 miles upstream from mouth.	a4.2	1970-71	10-19-72 9-13-73	.009 .12
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	10-19-72 9-13-73	.01 .30
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	9-13-73	82.6
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	10-19-72 1- 4-73 9-13-73	94.6 1,270 84.2
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	10-19-72 12-14-72 9-13-73	106 2,860 103
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	10-18-72 9-12-73	.07 0
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	10-18-72 9-12-73	.77 1.05
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	10-18-72 9-12-73	12.3 9.13
Little Bear Creek 02124941	Long Creek	Lat 35°18'20", long 80°16'25", Stanly County, at bridge on State Highway 27, 1 mile southwest of Hills, and 3.6 miles upstream from mouth.	6.99	1970-71	10-18-72 9-12-73	0 .39
Little Bear Creek 02124944	Long Creek	Lat 35°16'02", long 80°16'04", Stanly County, at bridge on Secondary Road 1968, 0.4 mile northeast of Saint Martin, and 0.6 mile upstream from mouth.	12.5	1961-62, 1970-71	10-18-72 9-12-73	.002 .76
Long Creek 0212498650	Rocky River	Lat 35°18'32", long 80°13'49", Stanly County, 0.5 mile upstream from influx of Scaly Bark Creek, 4.4 miles upstream from mouth at Rocky River, and 4.6 miles southeast of Bloomington.	a82	1972	9-12-73	8.26
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	10-19-72 1- 4-73 9-19-73	.32 2.45 .03
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	9-19-73	15.3
Rocky River 02125139	Pee Dee River	Lat 35°10'09", long 80°14'30", Stanly County, at end of Secondary Road 1944, 2.7 miles downstream from Long Creek, and 3.8 miles southwest of Aquadale.	a960	1971	10-19-72 9-19-73	108 140

a Approximately.

f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Richardson Creek 02125212	Rocky River	Lat 34°58'26", long 80°30'37", Union County, at bridge on U. S. Highway 74, 1.5 miles upstream from Bearskin Creek, and 2.2 miles east of Monroe.	a51		5-21-73 5-30-73 6- 6-73 6-14-73 6-19-73 9-26-73	0.16 27.2 10.3 4.71 19.5 .13
Bearskin Creek 0212522625	Richardson Creek	Lat 35°00'10", long 80°36'34", Union County, at bridge on Secondary Road 1007, 0.2 mile downstream from Horsepen Branch, and 1.7 miles south of Bakers.	a1.9		5-21-73 5-30-73 6- 6-73 6-14-73 6-19-73 6-27-73	.13 .16 .49 2.23 .24 3.26
Bearskin Creek 0212523050	Richardson Creek	Lat 34°59'24", long 80°32'57", Union County, at bridge on Haynes Street, at Monroe, and 3.1 miles upstream from mouth.	a1.7		5-21-73 5-30-73 6- 6-73 6-14-73 6-19-73 6-27-73	2.29 3.10 19.0 7.94 5.02 5.46
Bearskin Creek 02125244	Richardson Creek	Lat 35°59'46", long 80°31'24", Union County, at bridge on State Highway 200, at Monroe, and 1.0 mile upstream from mouth.	a21		5-21-73 5-30-73 6- 6-73 6-14-73 9-19-73 9-26-73	3.02 2.94 19.3 9.99 5.47 .30
Bearskin Creek 02125246	Richardson Creek	Lat 34°59'24", long 80°30'37", Union County, at mouth, 2.3 miles northeast of Monroe.	a22		6- 6-73 9-26-73	20.9 .36
Richardson Creek 02125247	Rocky River	Lat 34°59'24", long 80°30'36", Union County, at bridge on Secondary Road 1751, 0.1 mile downstream from Bearskin Creek, and 2.3 miles east of Monroe.	a54	1970-71	5-25-72 10-20-72 5-30-73 6- 6-73 6-14-73 6-19-73 6-27-73 9-26-73	f13.8 2.23 32.4 8.92 91.4 22.3 12.9 .33
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	6-27-73 9-26-73	31.4 10.2
Stewarts Creek 02125456	Richardson Creek	Lat 35°02'15", long 80°28'34", Union County, at bridge on Secondary Road 1606, 0.5 mile upstream from mouth, and 5.5 miles northeast of Monroe.	a31	1954, 1961-62	7- 6-70 10- 8-70 9-26-73	f0 f0 .02
Meadow Branch 02125462	Richardson Creek	Lat 35°00'25", long 80°26'54", Union County, at bridge on Secondary Road 1751, 1.6 miles north of Wingate, and 2.6 miles upstream from mouth.	a4.1	1970-71	5-25-72 10-20-72 6-27-73	f 1.46 0 .36
Meadow Branch tributary 0212546245	Meadow Branch	Lat 35°00'44", long 80°26'29", Union County, at culvert on Secondary Road 1631, 0.5 mile upstream from mouth, and 1.9 miles north of Wingate.			7- 6-70 10-8-70	f0 f0
Meadow Branch 02125464	Richardson Creek	Lat 35°01'53", long 80°27'07", Union County, at bridge on Secondary Road 1006, 1 mile upstream from mouth, and 2.3 miles north of Wingate.	6.6	1970-71	5-25-72 10-20-72 6-27-73 9-27-73	f2.51 .16 1.36 .04
Niggerhead Creek 02125538	Richardson Creek	Lat 34°59'09", long 80°24'14", Union County, at bridge on U.S. Highway 74, 2.0 mil west of Marshville, and 9.5 miles upstream from mouth.	a1.2	1954, 1961, 1970-71	5-25-72 9-27-73	f.17 0
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	5-25-72 10-20-72 9-27-73	f1.25 .40 .38
Niggerhead Creek 02125543	Richardson Creek	Lat 35°00'52", long 80°22'34", Union County, at bridge on State Highway 205, 1. miles north of Marshville, and 6.3 miles upstream from mouth.	a12	1970-71	5-25-72 10-20-72 9-27-73	f 2.66 .29 .42
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	5-25-72 10-20-72 9-27-73	f5.94 .19 .01

a Approximately.

f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurement made at miscellaneous sites during water year 1973, 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						
Niggerhead Creek 02125549	Richardson Creek	Lat 35°04'25", long 80°22'14", Union County, at bridge on Secondary Road 1006, 1.6 miles north-east of Fairfield, and 2.2 miles upstream from mouth.	a24	1961-62, 1970-71	5-25-72 10-20-72 9-27-72	f11.3 .02 .04
Lanes Creek 02125812	Rocky River	Lat 34°58'08", long 80°18'44", Union County, at end of Secondary Road 1900, 0.1 mile downstream from Beaverdam Creek, and 3.7 miles southeast of Marshville.	a81	1970-71	5-26-72 10-20-72 9-27-73	f11.0 .11 .21
Lick Branch 02125813	Lanes Creek	Lat 34°58'42", long 80°14'18", Union County, at bridge on Secondary Road 1901, 0.9 mile upstream from mouth, and 3 miles southeast of Marshville.	a3.6	1970-71	5-26-72 10-20-72 9-27-73	f1.18 .02 .06
Hardy Creek tri- butary 02126091	Hardy Creek	Lat 35°12'13", long 80°11'09", Stanly County, at bridge on Secondary Road 1918, 0.8 mile north of Cottonville, and 1.5 miles upstream from mouth.	a3.4	1970-71	10-19-72	.002
White Oak Creek 02128038	Cedar Creek	Lat 35°20'46", long 79°47'58", Montgomery County, at culvert on Secondary Road 1556, 1.5 miles southwest of Biscoe, and 1.9 miles upstream from mouth.	1.29		6-10-70	f.13
Little River 02128041	Pee Dee River	Lat 35°20'36", long 79°51'12", Montgomery County, at bridge on Secondary Road 1554, 1.2 miles downstream from Densons Creek, and 2.5 miles southeast of Troy.	163	1969	6-10-70	f31.7
Smith Creek 02128676	Pee Dee River	Lat 34°58'29", long 79°59'08", Anson County, at culvert on road to Lilesville northwest waste treatment plant, 0.5 mile north of Lilesville, and 4.6 miles upstream from Blewett Falls Lake.	a.2	1970-71	5-26-72	f.08
Smith Creek 02128677	Pee Dee River	Lat 34°58'36", long 79°58'53", Anson County 300 ft downstream from effluent outfall from Lilesville's northwest waste treatment plant, 0.7 mile northeast of Lilesville, and 4.3 miles upstream from Blewett Falls Lake.	a.8	1970-71	5-26-72	f.12
Brush Fork 0212950877	Bailey Creek	Lat 34°57'28", long 80°03'34", Anson County, at culvert on U. S. Highway 52, 1.1 miles upstream from Derita Creek, and 1.2 miles southeast of Wadesboro.	a.5	1970-71	5-26-72	f.24
Brush Fork 02129509	Bailey Creek	Lat 34°57'00", long 80°02'50", Anson County, at Wade Mills sewage effluent outfall, 0.4 mile upstream from Derita Creek, 1.7 miles east of Wadesboro Post Office.	3.01	1970-71	5-26-72	f4.04
Mill Creek tribu- tary 02129537	Mill Creek	Lat 34°51'12", long 79°59'31", Anson County, at culvert on Secondary Road 1831, 0.9 mile south of Morven, and 1.2 miles upstream from mouth.	a.9	1970-71	5-26-72	f.98
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		8-22-73	88
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		8-22-73	4.39
Leith Creek tribu- tary 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		8-22-73	2.23
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		8-21-73	12.9
Leith Creek 02132274	Little Pee Dee River	Lat 34°37'30", long 79°26'28", Robeson County, at bridge on State Highway 83, 5.5 miles downstream from Leith Creek, and 5.5 miles south of Johns.	a61		11- 8-72	45.0
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		8-21-73	49.3
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		8-21-73	56.6
Maxton Brach 0213232550	Big Shoe Heel Creek	Lat 34°45'13", long 79°21'54", Scotland County, at bridge on Secondary Road 1323, 2.4 miles upstream from mouth, and 5 miles east of East Laurinburg.	a8.0		8-21-73	.10

a Approximately.

f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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 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		11-8-72	88.5
Mitchell Swamp 02132394	Hayes Swamp	Lat 34°31'19", long 79°18'40", Robeson County, at culvert on Secondary Road 1139, 1 mile upstream from State line, and 1.5 miles southwest of Rowland.	a6.6		11-8-72	12.1
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		5-16-72 8- 3-73 8-22-73	f 23.3 9.63 8.09
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		5-16-72 8- 3-73 8-22-73	f 34.0 32.6 20.3
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	5-16-72	f 78.4
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		5-17-72 8- 1-73	f 9.56 7.32
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	6-17-72 8- 1-73 8-22-73	f 5.81 3.60 5.27
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		5-17-72	f 26.3
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		5-17-72 8- 1-73	f 43.2 31.9
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 Point, and 3.5 miles upstream from mouth.	a6.0		5-16-72	f 5.82
Lumber River 02133627	Little Pee Dee River	Lat 34°43'37", long 79°18'23", Robeson County, at bridge on Secondary Road 1153, 0.5 mile northeast of Daystrom, and 3.5 miles upstream from Gum Swamp.	376	1959, 1968	11- 8-72	371
Lumber River 0213379610	Little Pee Dee River	Lat 34°37'32", long 79°03'01", Robeson County, at bridge on State Highway 72, 1.3 miles upstream from Raft Swamp, and 2.7 miles west of Lumberton.	a500		11- 7-72	561
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		11- 9-72	21.6
Little Raft Swamp 02134036	Raft Swamp	Lat 34°48'39", long 79°08'27", Robeson County, at bridge on Secondary Road 1505, 3 miles south of Shannon, and 3.2 miles upstream from mouth.	a34		11- 9-72	27.2
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, 1969	11-25-69 3- 8-71 11- 2-72 2- 5-73	f 632 f 3,940 618 5,280
Lumber River 02134179	Little Pee Dee River	Lat 34°36'27", long 79°00'00", Robeson County, at Chippewa Street Bridge on Secondary Road 2202, at Lumberton, and 3 miles upstream from Jacob Swamp.	a710		11- 2-72	638
Lumber River 02134196	Little Pee Dee River	Lat 34°35'28", long 78°58'59", Robeson County, at bridge on U. S. Highway 74, 1.2 miles upstream from Jacob Swamp, and 2.5 miles southeast of Lumberton.	a720	1968	11- 2-72	589
Jacob Swamp 0213421850	Lumber River	Lat 34°35'07", long 79°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		11- 2-72	1.00
Lumber River 0213423450	Little Pee Dee River	Lat 34°30'14", long 78°56'42", Robeson County, at Secondary Road 2121, 1.5 miles downstream from Gum Swamp, and 3.0 miles east of Orrum.	a760		11- 3-72	523

a Approximately.

f Not previously measured.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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		11- 9-72	41.9
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 mile north of St. Paul.	a24		11-9-72	11.6
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	8-14-73 8-31-73	79.0 89.2
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	1959-60, 1962, 1968	8-14-73	405
Bryant Swamp 02134495	Big Swamp	Lat 34°32'07", long 78°49'22", Bladen County, at bridge on Secondary Road 1178, 0.4 mile upstream from Reedy Branch, and 2.3 miles southeast of Butters.	19.0	1966-67	8-14-73 8-30-73	.49 2.06
Bryant Swamp 02134496	Big Swamp	Lat 34°31'54", long 78°50'51", Bladen County, at bridge on Secondary Road 1128, 1.2 miles upstream from mouth, and 1.9 miles south of Richardson.	27.6		8-30-73	5.08
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		11- 3-72	52.6
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		11- 1-72	1.87
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, 1970-72	7-25-73 9-25-73	21.8 14.1
Catawba River tributary No. 2 02137345	Catawba River	Lat 35°37'46", long 82°10'08", McDowell County, at culvert on Interstate Highway 40, upstream from mouth and at Old Fort.	a.5	1970-72	7-25-73 9-25-73	4.36 4.34
Catawba River 02137348	Santee River	Lat 35°38'06", long 82°09'48", McDowell County, at garbage dump on Secondary Road 1234, 0.4 mile upstream from Curtis Creek, and 1.1 miles northeast of Old Fort.	a38	1971-72	7-25-73 9-25-73	51.9 36.4
Curtis Creek 02137460	Catawba River	Lat 35°38'43", long 82°09'31", McDowell County, at bridge on U. S. Highway 70, 0.7 mile upstream from mouth, and 1.7 miles northeast of Old Fort.	a17	1930-31, 1949-54, 1956, 1963-64, 1970-72	7-25-73 9-25-73	27.4 30.6
Curtis Creek 02137465	Catawba River	Lat 35°38'18", long 82°09'30", McDowell County, at bridge on Interstate Highway 40, 0.2 mile upstream from mouth, and 1.5 miles northeast of Old Fort.	a18	1970-72	7-26-73 9-26-73	27.2 21.7
Catawba River 02137513	Santee River	Lat 35°38'23", long 82°07'38", McDowell County, at bridge on Interstate Highway 40, 0.3 mile downstream from Brevard Creek, and 3.2 miles east of Old Fort.	a58	1970, 1972	7-26-73 9-26-73	90.5 60.2
Jake Creek 02137723	Catawba River	Lat 35°40'48", long 82°04'00", McDowell County, at culvert on Secondary Road 1214, 0.4 mile upstream from mouth, and 0.8 mile southeast of Pleasant Gardens.	a.1	1970-72	7-26-73 9-26-73	1.60 1.35
Jake Creek 02137724	Catawba River	Lat 35°40'58", long 82°03'58", McDowell County, 0.2 mile downstream from Secondary Road 1214, 0.2 mile upstream from mouth, and 0.7 mile southeast of Pleasant Gardens.	a1.8	1970, 1972	7-26-73 9-26-73	1.71 1.45
Catawba River 02137727	Santee River	Lat 35°41'09", long 82°03'40", McDowell County, at bridge on Secondary Road 1221, 0.8 mile upstream from Buck Creek, and 0.8 mile southeast of Pleasant Gardens.	127	1963, 1970-72	8-26-73	146

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic slope basins						
Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Santee River basin--Continued						
North Fork Catawba River 02138051	Catawba River	Lat 35°48'04", long 82°01'07", McDowell County, at bridge on Secondary Road 1560, at Sevier, and 0.8 mile upstream from Armstrong Creek.	a44	1963, 1970-72	7-25-73 9-27-73	76.8 31.2
Armstrong Creek 0213806250	North Fork Catawba River	Lat 35°48'33", long 82°03'25", McDowell County, at bridge on State Highway 226A, 2.3 miles upstream from mouth, and 2.7 miles west of Sevier.	a20	1972	7-25-73 9-27-73	38.9 28.4
Armstrong Creek 0213806565	North Fork Catawba River	Lat 35°47'41", long 82°02'07", McDowell County, at bridge on State Highway 226, 1 mile upstream from mouth, and 1.2 miles southwest of Sevier.	a29		7-25-73	48.8
Armstrong Creek 02138070	North Fork Catawba River	Lat 35°47'38", long 82°01'14", McDowell County, at bridge on Secondary Road 1556, upstream from mouth, and 0.7 mile southwest of Sevier.	a30	1956-63, 1970-72	7-25-73 9-27-73	44.1 32.9
Limekiln Creek 02138092	North Fork Catawba River	Lat 35°47'29", long 82°01'28", McDowell County, at bridge on Secondary Road 1556, 0.3 mile upstream from mouth, and 0.9 mile southwest of Sevier.	a3.8	1970, 1972	7-25-73	3.83
Limekiln Creek 02138095	North Fork Catawba River	Lat 35°47'35", long 82°01'08", McDowell County, at bridge on Secondary Road 1559, at mouth and at Sevier.	a4.4	1970-72	7-25-73 9-27-73	8.87 6.51
North Fork Catawba River 02138103	Catawba River	Lat 35°47'31", long 82°00'56", McDowell County, 0.2 mile downstream from Limekiln Creek, and 0.8 mile south of Sevier.	a79	1970-72	7-25-73 9-27-73	117 64.9
North Fork Catawba River 02138133	Catawba River	Lat 35°43'59", long 81°59'16", McDowell County, at bridge on Secondary Road 1552, 1.3 miles east of Hankins.		1970	7-25-73	166
Catawba River tributary No. 3 02138138	Catawba River	Lat 35°41'33", long 81°59'34", McDowell County, at culvert on U. S. Highway 70, at Marion, and 2.1 miles upstream from mouth.	a.1	1970-72	7-26-73 9-27-73	.32 .27
Catawba River tributary 02138139	Catawba River	Lat 35°42'27", long 81°59'49", McDowell County, 0.2 mile downstream from sewage treatment plant, 0.9 mile upstream from mouth, and 1.6 miles northeast of Marion.	a1.1	1970-72	6-12-73 7-26-73 9-27-73	1.31 1.51 1.31
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	1970-72	6-12-73 7-26-73 9-26-73	10.5 9.95 7.19
Linville River 02138293	Catawba River	Lat 36°04'16", long 81°52'34", Avery County, at bridge on Secondary Road 1349, at Linville, and 1.6 miles upstream from Grandmother Creek.	a10	1970-72	6-12-73 7-27-73 9-26-73	17.8 19.4 12.7
Linville River 02138306	Catawba River	Lat 36°01'44", long 81°53'47", Avery County, at bridge on U. S. Highway 221, at Pineola, and 0.7 mile downstream from Anthony Creek.	a19	1970-72	6-12-73 7-26-73 9-26-73	38.0 44.4 20.8
Stacey Creek tributary 02138312	Stacey Creek	Lat 36°00'22", long 81°53'33", Avery County, at culvert on State Highway 181, upstream from mouth, and 1.5 miles south of Pineola.	a.5	1970-72	6-12-73 7-26-73 9-26-73	1.71 .92 .67
Stacey Creek 02138313	Linville River	Lat 36°00'29", long 81°53'39", Avery County, at culvert on Secondary Road 1538, 0.3 mile upstream from mouth, and 1.4 miles south of Pineola.	a1.1	1970-72	6-12-73 7-26-73 9-26-73	2.94 1.02 .74
Mill Timber Creek 02138340	Linville River	Lat 36°01'17", long 81°55'14", Avery County, at bridge on Secondary Road 1524, at Crossnore, and 0.7 mile upstream from mouth.	4.01	1970-72	6-12-73 7-26-73 9-26-73	6.92 6.97 4.81
Mill Timber Creek 02138439	Linville River	Lat 36°00'55", long 81°55'35", Avery County, at mouth, at Crossnore, and 0.4 mile downstream from Clark Branch.	a6.4	1970-72	6-12-73 7-26-73	12.2 12.1
Linville River 02138443	Catawba River	Lat 36°00'13", long 81°56'09", Avery County, at bridge on Secondary Road 1536, 0.1 mile upstream from Bill White Creek, and 1.3 miles south of Crossnore.	a29	1970-72	6-12-73 7-26-73 9-26-73	104 75.2 31.6
North Muddy Creek 02138606	Muddy Creek	Lat 35°38'10", long 81°57'22", McDowell County, at bridge on Secondary Road 1796, 0.8 mile upstream from Bobs Creek, and 4.5 miles southeast of Marion.	a21	1970-72	10-28-70 6-13-73 7-27-73	f18.6 41.9 38.6
Youngs Fork Creek 02138645	North Muddy Creek	Lat 35°39'14", long 81°57'48", McDowell County, at bridge on private road, 0.3 mile upstream from Jacktown Creek, and 1 mile southeast of Jacktown.	a6.3	1970-72	6-13-73 7-27-73	10.2 10.7

a Approximately.

f Not previously published

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Youngs Fork Creek 02138671	North Muddy Creek	Lat 35°38'48", long 81°57'16", McDowell County, at bridge on Secondary Road 1794, 1.1 miles upstream from mouth, and 4.1 miles southeast of Marion.	8.11	1970-72	6-13-73 7-27-73	15.6 15.5
North Muddy Creek 02138674	Muddy Creek	Lat 35°38'41", long 81°56'27", McDowell County, at bridge on State Highway 226, downstream from Youngs Fork Creek, and 4.8 miles southeast of Marion.	a33	1970-72	10-28-70 7-27-73	f 29.8 62.7
North Muddy Creek 02138720	Muddy Creek	Lat 35°40'30", long 81°54'25", McDowell County, at bridge on Secondary Road 1747, 1.9 miles downstream from Caleb Branch, and 3.2 miles southeast of Nebo.	44.6	1970-72	10- 5-72 6-13-73 7-27-73	135 86.3 73.0
Silver Creek 02139256	Catawba River	Lat 35°44'09", long 81°42'45", Burke County, at bridge on U. S. Highway 70, 0.5 mile upstream from mouth, and 1 mile west of Morganton.	68.6	1955, 1970-72	9-25-73	53.8
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, 1970-72	3-13-73	3,140
Hunting Creek 02139801	Catawba River	Lat 35°45'35", long 81°39'19", Burke County, at bridge on Secondary Road 1512, 2.1 miles north-east of Morganton, and 2.2 miles upstream from mouth.	23.5	1970-72	6-13-73 9-25-73	41.8 29.7
Hunting Creek 02139806	Catawba River	Lat 35°46'02", long 81°39'41", Burke County, at bridge on Secondary Road 1571, 1.1 miles upstream from mouth, and 2.1 miles northeast of Morganton.	a25	1970-72	6-13-73 9-25-73	50.6 30.8
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		11- 3-72 6-14-73	37.3 102
Johns River 02139977	Catawba River	Lat 35°58'24", long 81°41'18", Caldwell County, at bridge on Secondary Road 1356, and 3.5 miles north of Collettsville.	a50	1972	11- 3-72 6-14-73	40.5 107
Mulberry Creek 02140260	Johns River	Lat 35°55'43", long 81°39'36", Caldwell County, at bridge on Secondary Road 1310, 1 mile north-east of Collettsville, and 1 mile upstream from mouth.	39.6		6-14-73	74.6
Mulberry Creek 02140271	Johns River	Lat 35°55'17", long 81°40'19", Caldwell County, at mouth, 0.3 mile southeast of Collettsville.	41.6	1972	11- 3-72 6-14-73	31.7 7.80
Zacks Fork Creek 0214114950	Lower Creek	Lat 35°54'27", long 81°31'47", Caldwell County, at bridge on U. S. Highway 321A, 0.1 mile upstream from mouth at Lenoir.	a17		4-19-73 6-11-73 9-25-73	16.7 24.5 9.32
Lower Creek 02141150	Catawba River	Lat 35°54'20", long 81°31'59", Caldwell County, at bridge on Mulberry Street, 0.2 mile downstream from Zacks Fork Creek, and 0.8 mile southeast of courthouse in Lenoir.	a32	1971-72	6-11-73 9-28-73	18.1 11.8
Blair Fork 02141180	Lower Creek	Lat 35°56'02", long 81°32'36", Caldwell County, upstream from bridge on Main Street, 0.4 mile upstream from Long Branch, and 1.3 miles north of courthouse in Lenoir.	5.83	1967-69, 1972	11- 3-72	4.23
Blair Fork 02141184	Lower Creek	Lat 35°55'39", long 81°32'39", Caldwell County, at bridge on old North Main Street, at Lenoir, 0.1 mile downstream from Long Branch, and 0.9 mile north of courthouse.	6.91	1972	11- 1-72	4.81
Lower Creek 02141188	Catawba River	Lat 35°53'42", long 81°33'39", Caldwell County, at bridge on Secondary Road 1188, downstream from Blair Fork, and 1.8 miles southwest of courthouse in Lenoir.	a44	1970-72	6-11-73 9-28-73	53.9 33.2
Lower Creek 02141214	Catawba River	Lat 35°51'52", long 81°35'38", Caldwell County, at bridge on Secondary Road 1143, 0.3 mile southeast of Gamewell, and 1.9 miles downstream from Millers Creek.	60.9	1970-72	6-11-73 9-28-73	79.4 26.0
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	1970-72	6-11-73	3.19
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 north-east of Morganton.	5.05	1970-72	6-11-73	7.09
McGalliard 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	1970-72	11- 1-72	2.06

a Approximately.

f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
McGalliard 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	1970-72	6-11-73	14.4
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	1970-72	6-11-73	7.75
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	1970-72	6-11-73	9.34
Drowning Creek 02141515	Catawba River	Lat 35°43'40", long 81°28'36", Burke County, at culvert on U. S. Highways 64 and 70, 0.5 mile west of Icard, and 7 miles upstream from mouth.	a2.1	1970-72	7- 9-73	4.06
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	1970-72	7- 9-73	1.89
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	11- 1-72 7- 9-73	1.42 2.61
Drowning Creek tributary No. 4 02141543	Drowning Creek Creek tributary No. 3	Lat 35°43'38", long 81°26'22", Burke County, at culvert on U. S. Highway 64 and 70, 0.5 mile upstream from mouth, and 1 mile west of Hildebran.	a.6	1970-72	11- 1-72 7- 9-73	.50 .95
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	1970-72	7- 9-73	1.02
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, 1970-72	10- 1-72 7- 9-73	24.9 18.5
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	1970-72	11- 3-72 7- 9-73	.92 1.64
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	1970-72	11- 1-72 7-10-73	.26 .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	1970-72	11- 1-72 7-10-73	1.31 1.94
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	1970-72	11- 1-72 7-10-73	2.27 2.70
Gunpowder Creek 02141666	Catawba River	Lat 35°51'20", long 81°29'12", Caldwell County, at bridge on Secondary Road 1160, 1.0 mile northeast of Hudson, and 6.5 miles upstream from Little Gunpowder Creek.	a11	1955, 1963, 1970-72	11- 1-72 7-10-73	7.17 11.4
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	1970-72	10-17-72 11- 3-72 7- 9-73	2.04 2.24 4.08
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, 1970-72	10-17-72 11- 3-72 7- 9-73	3.16 2.88 5.20
Muddy Fork Creek 02142032	Lower Little River	Lat 35°56'50", long 81°11'08", Alexander County, at bridge on Secondary Road 1409, 1.8 miles northwest of Taylorsville, and 3 miles upstream from mouth.	5.6	1963, 1970-72	11- 2-72 7-10-73	5.05 6.43
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	1970-72	11- 2-72 7-10-73	7.05 10.1
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	1970-72	11- 2-72 7-11-73	.73 1.14
Stirewalt Creek 02142272	Lower Little River	Lat 35°53'48", long 81°11'02", Alexander County, at bridge on Secondary Road 1111, 1.8 miles upstream from mouth, and 2 miles south of Taylorsville.	1.57	1970-72	11- 2-72 7-11-73	.88 1.38

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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	1970-72	11- 2-72 7-11-73	57.8 100
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, 1970-72	11- 2-72 7-11-73	7.35 15.2
Lyle Creek 02142442	Catawba River	Lat 35°43'53", long 81°15'59", Catawba County, at bridge on Secondary Road 1441, 1.2 mile upstream from tributary, and 3.3 miles northwest of Conover.	a2.1	1970-72	11- 2-72 7- 9-73	1.01 2.01
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	1970-72	11- 2-72 7- 9-73	3.01 5.53
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, 1970-72	11- 2-72 7- 9-73	8.71 18.3
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, 1970-72	11- 2-72 7- 9-73	3.96 7.12
Lyle Creek 02142447	Catawba River	Lat 35°44'27", long 81°09'35", Catawba County, at bridge on Secondary Road 1709, just downstream from tributary, and 4.7 miles northeast of Conover.	a32	1970-72	11- 2-72 7- 9-73	18.9 33.0
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	1970-72	11- 2-72 7-11-73	2.30 6.48
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	1970-72	11- 2-72 7-11-73	20.2 57.2
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	7-12-73	1.38
McLin Creek 02142469	Lyle Creek	Lat 35°40'36", long 81°10'32", Catawba County, at bridge on Secondary Road 1734, 2.4 miles east of Newton, and 2.8 miles upstream from Long Creek.	a3.4	1970-72	7-12-73	3.27
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	7-12-73	.52
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, 1970-72	7-11-73	12.9
Lyle Creek 02142490	Catawba River	Lat 35°42'40", long 81°04'53", Catawba County, at bridge on State Highway 10, 0.5 mile north of Catawba, and 1 mile upstream from mouth.	a71	1949-57, 1962, 1970-71	7-12-73	11.0
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	1970-72	7-12-73	13.6
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	1970-72	11- 3-72 12- 7-72 6- 4-73 9- 7-73	*.65 *1.43 *1.52 *.86
Torrance Creek 02142658	McDowell Creek	Lat 35°24'04", long 80°52'11", Mecklenburg County, at bridge on Secondary Road 2138, 1.5 miles upstream from mouth, and 1.7 miles west of Huntersville.	a4.7	1969-72	12- 7-72 6- 4-73 9- 7-73	*3.06 *2.09 *.94
McDowell 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	11- 3-72 12- 7-72 6- 4-73 9- 7-73	*5.02 *14.4 *12.9 *6.67
Fites Creek tributary No. 2 02142860	Fites Creek	Lat 35°16'34", long 81°02'48", Gaston County, at culvert on Secondary Road 2032, at North Belmont, and 0.4 mile upstream from mouth.	a.3	1970-72	7-25-73	.04
Fites Creek tributary No. 2 02142861	Fites Creek	Lat 35°16'36", long 81°02'25", Gaston County, 0.2 mile upstream from mouth, and 0.8 mile west of North Belmont.	a.3	1970-72	7-25-73	.10

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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	1969-72	6- 4-73 9- 7-73	*1.59 *.66
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 north-west of Derita.	2.04	1969-72	11- 3-72 12- 7-72 6- 4-73	*.22 .95 *.58
McIntyre Creek 02142889	Long Creek	Lat 35°19'41", long 80°53'48", Mecklenburg County, at bridge on Secondary Road 2025, 0.8 miles upstream from mouth, and 5 miles north of Charlotte.	a4.4	1969-72	11- 3-72 12- 7-72 6- 4-73 9- 7-73	*.74 *2.51 *1.37 .72
Long Creek 02142910	Catawba River	Lat 35°18'53", long 80°56'38", Mecklenburg County, at bridge on State Highway 16, 1 mile upstream from Gum Branch, and 2.5 miles northwest of Thrift.	22.0	1956-57, 1959-67, 1969, 1972	12- 7-72 6- 4-73	15.0 5.94
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	1969-72	11- 2-72 6- 4-73 9- 6-73	*.23 *.86 *.15
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 north-west of Thrift.	5.39	1957, 1962, 1969-72	11- 3-72 6- 4-73 9- 6-73	*.52 *1.42 *.33
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, 1969-72	6- 4-73	*9.67
Paw Creek 02142952	Catawba River	Lat 35°15'19", long 80°55'38", Mecklenburg County, at bridge on Secondary Road 1650, 1.7 miles southeast of Thrift.	a5.4	1969-72	12-11-72 6- 4-73 9- 6-73	2.04 *.97 *.58
Paw Creek 02142955	Catawba River	Lat 35°14'58", long 80°58'15", Mecklenburg County, at bridge on Interstate Highway 85, 1.1 miles upstream from Ticer Branch, and 6 miles west of Charlotte.	a9.7	1969-72	10-24-72 6- 4-73 9- 6-72	2.07 *3.65 *2.08
Longview Creek 02143005	Henry Fork	Lat 35°43'24", long 81°22'32", Catawba County, at bridge on Secondary Road 1196, 0.8 mile south-east of Longview, and 1.6 miles upstream from mouth.	a.9	1970-72	7-12-73	.41
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	7-13-73	131
South Fork Catawba River 02143084	Catawba River	Lat 35°29'00", long 81°16'50", Lincoln County, 0.2 mile upstream from Clark Creek, and 1.5 miles northwest of Lincolnton.	a260	1970-72	3-13-73	1,510
Clark Creek 02143105	South Fork Catawba River	Lat 35°42'36", long 81°16'48", Catawba County, at bridge on Secondary Road 1468, 2.8 miles upstream from Cline Creek, and 3.4 miles west of Conover.	a3.7	1970-72	7-13-73	5.14
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	1970-72	7-13-73	4.65
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	1970-72	7-13-73	8.80
Conover 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	1970-72	7-13-73	.41
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		4-19-73	.46
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		4-19-73 7-16-73	.61 .63
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	1970-72	7-13-73	4.01

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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	1970-72	7-13-73	28.6
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	1970-72	7-16-73	38.8
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	1971-72	7-16-73	4.01
Pinch Gut Creek 02143189	Maiden Creek	Lat 35°36'36", long 81°12'38", Catawba County, at bridge on Secondary Road 1882, 1.5 miles upstream from mouth, and 2.2 miles north of Maiden.	a4.6	1970-72	7-16-73	38.1
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, 1970-72	7-16-73	49.1
Maiden Creek 02143192	Clark Creek	Lat 35°35'21", long 81°13'18", Catawba County, at bridge on West Main Street (Secondary Road 2007), at Maiden, and 1.1 miles upstream from mouth.	a21	1970-72	7-16-73	17.6
Clark Creek 02143224	South Fork Catawba River	Lat 35°32'54", long 81°14'59", Lincoln County, at bridge on Secondary Road 1274, 3.1 miles downstream from Maiden Creek, and 3.1 miles southwest of Maiden.	a68	1970-72	7-19-73	69.8
Clark Creek 02143236	South Fork Catawba River	Lat 35°31'10", long 81°14'43", Lincoln County, at bridge on Secondary Road 1282, 2.3 miles upstream from Walker Branch, and 2.8 miles north of Lincolnton.	a85	1970-71	7-19-73	72.3
Clark Creek 02143260	South Fork Catawba River	Lat 35°28'30", long 81°16'00", Lincoln County, at bridge on Secondary Road 1008, at Lincolnton, and 0.2 mile upstream from mouth.	a92	1947, 1949-57, 1962-64, 1970-72	7-19-73	85.3
Lick Fork Creek 02143471	Indian Creek	Lat 35°25'00", long 81°22'30", Gaston County, at bridge on Secondary Road 1637, 0.5 mile upstream from mouth, and 2.5 miles north of Cherryville.	a5.0	1956, 1963, 1970-72	7-26-73	4.20
Indian Creek 02143481	South Fork Catawba River	Lat 35°24'50", long 81°20'40", Gaston County, at bridge on Secondary Road 1002, 1.8 miles upstream from Leonard Fork, and 2.2 miles southwest of Crouse.	a49	1963, 1970-72	7-26-73	32.2
Beaverdam Creek 02143519	South Fork Catawba River	Lat 35°22'29", long 81°21'45", Gaston County, at culvert on Junction of Secondary Roads 1430 and 1431, 1.1 miles east of Cherryville, and 5.2 miles upstream from mouth.	a.7	1970-72	7-26-73	.19
Beaverdam Creek 02143531	South Fork Catawba River	Lat 35°22'37", long 81°20'32", Gaston County, at bridge on State Highway 277, 2.3 miles east of Cherryville, and 4 miles upstream from Little Beaverdam Creek.	a3.3	1970-72	7-26-73	1.85
Mauney Creek tributary 02143832	Mauney Creek	Lat 35°21'46", long 81°07'03", Gaston County, at culvert on Secondary Road 1847, 0.5 mile west of Stanley, and 0.7 mile upstream from mouth.	.3	1970-72	7-26-73	.11
Mauney Creek 02143844	Hoyle Creek	Lat 35°21'20", long 81°07'00", Gaston County, at bridge 1.2 miles west of Stanly, and 1.5 miles upstream from mouth.	a2.7	1970-72	12- 8-72 7-26-73	2.46 3.48
Hoyle Creek 02143887	South Fork Catawba River	Lat 35°20'10", long 81°08'00", Gaston County, at bridge on Secondary Road 1836, 0.2 mile upstream from mouth, and 2.8 miles northeast of Dallas.	a28	1970-72	7-26-73	21.8
Long Creek tributary No. 2 02143989	Long Creek	Lat 35°20'11", long 87°17'43", Gaston County, at bridge on Secondary Road 1443, 1.6 miles upstream from mouth, and 4.4 miles northwest of West Gastonia.	a1.6	1970-72	7-26-73	1.11
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	1970-72	12- 7-72	17.1
Long Creek 02144546	South Fork Catawba River	Lat 35°17'30", long 81°11'00", Gaston County, at bridge 0.2 mile downstream from Carolina and Northwestern Railroad, and 1.8 miles south of Dallas.	a43	1970-72	12- 8-72 7-25-73	18.4 28.5

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Dillard Creek tributary 02144644	Dillard Creek	Lat 35°17'54", long 81°07'44", Gaston County, near dirt road (off Duff Street) upstream from Town of Ranlo and Rex Mill water treatment plant sewage outfall, at Ranlo.	a0.3	1970-72	12- 8-72 7-25-73	0.27 .03
Dillard Creek tributary 02144645	Dillard Creek	Lat 35°17'49", long 81°07'45", Gaston County, 0.1 mile downstream from sewage effluent outfall at Ranlo and Rex Mill waste treatment plant, 0.4 mile upstream from mouth, and 1.3 miles north of Ranlo.	a.3	1970-72	12- 8-72 7-25-73	.23 .08
Little Long Creek 02144671	Long Creek	Lat 35°19'24", long 81°11'32", Gaston County, at concrete bridge on U. S. Highway 321, 1.1 miles northwest of Dallas, and 4.9 miles upstream from mouth.	a4.3	1970-72	7-25-73	2.41
Little Long Creek 02144676	Long Creek	Lat 35°19'32", long 81°10'54", Gaston County, at bridge on Secondary Road 1008, 0.7 mile north of Dallas, and 4.1 miles upstream from mouth.	a5.3	1970-72	12- 8-72 7-25-73	3.46 3.24
Housers Branch tributary 0214483988	Housers Creek	Lat 35°16'45", long 81°06'53", Gaston County, downstream from effluent discharge from Cocker Machine and Foundry waste treatment plant, 0.1 mile upstream from mouth, and 1.1 miles east of Ranlo.	a.6	1970-72	12- 8-72	.13
South Fork Catawba River tributary No. 2 02145167	South Fork Catawba River	Lat 35°16'00", long 81°03'19", Gaston County, at end of Secondary Road 2025, 1.2 miles northeast of McAdenville, and 1.4 miles upstream from mouth.	a.1	1970-72	7-25-73	.09
South Fork Catawba River tributary No. 2 02145169	South Fork Catawba River	Lat 35°15'53", long 81°03'31", Gaston County, at culvert on Interstate Highway I-85, 0.9 mile northeast of McAdenville, and 1.1 miles upstream from mouth.	a.5	1970-72	7-25-73	.24
Duharts Creek tributary 02145265	Duharts Creek	Lat 35°16'23", long 81°07'52", Gaston County, 100 ft downstream from sand filters on Secondary Road 2230, 0.5 mile southeast of Ranlo, and 1 mile upstream from mouth.	a.2	1970-72	7-25-73	.12
Duharts Creek 02145268	South Fork Catawba River	Lat 35°14'51", long 81°05'51", Gaston County, at bridge on Secondary Road 2439, 1.1 miles northwest of Cramerton, and 2 miles upstream from mouth.	a7.6	1970-72	7-25-73	2.99
McGill Creek 02145536	Crowders Creek	Lat 35°14'44", long 81°20'12", Cleveland County, at culvert on State Highway 161, 0.8 mile east of Kings Mountain, and 2.7 miles upstream from mouth.	a.1	1970-72	7-19-73	.30
McGill Creek 02145538	Crowders Creek	Lat 35°14'40", long 81°19'08", Gaston County, at bridge on Secondary Road 1300, 1.7 miles upstream from mouth, and 1.8 miles west of Mountain View.	a1.0	1970-72	7-19-73	2.67
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	1970-72	7-19-73	6.11
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	1970-72	12- 7-72 7-19-73	2.32 1.23
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	1970-72	7-19-73	.63
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	1970-72	7-19-73	1.57
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, 1970-72	12- 7-72 7-19-73	8.40 6.86
Crowders Creek 02145568	Catawba River	Lat 35°15'10", long 81°15'20", Gaston County, at bridge 1 mile downstream from Abernathy Creek, 2.8 miles southeast of Bessemer City.	a16	1957, 1970-72	12- 7-72 7-19-73	15.5 15.6
Bessemer Branch 02145573	Crowders Creek	Lat 35°16'19", long 81°15'11", Gaston County, at culvert on Secondary Road 1312, and 2.4 miles southeast of Bessemer City.	a1.0	1970-72	7-19-73	.29
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	1970-72	7-20-73	2.22
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	1970-72	7-20-73	.17

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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.	a5.1	1970-72	7-20-73	28.4
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, 1970-72	7-20-73	55.9
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, 1970-72	7-20-73	3.75
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, 1970-72	7-20-73	5.40
Crowders Creek 02145633	Catawba River	Lat 35°09'31", long 81°10'49", Gaston County, at bridge 0.8 mile upstream from State line, 1.5 miles downstream from South Fork, 7.2 miles south of Gastonia.	a80	1970-72	7-20-73	60.5
Crowders Creek 02145640	Catawba River	Lat 35°08'15", long 81°08'15", York County, 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	1970-72	7-20-73	64.3
Crowders Creek 0214567050	Catawba River	Lat 35°07'29", long 81°07'13", York County, at State Highway 152, 3.4 miles upstream from mouth, and 4.8 miles northeast of Clover, S.C.	a97	1972	7-20-73	65.8
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	1969-72	10-24-72 12-11-72 7- 4-73 9- 6-73	*1.00 4.80 *2.57 *1.02
Kennedy Branch 02146222	Irwin Creek	Lat 35°16'25", long 80°50'50", Mecklenburg County, at culvert on Interstate Highway 85, 1 mile upstream from mouth, and 3.6 miles north of County Courthouse in Charlotte.	2.27	1969-72	6- 4-73	*.85
Irwin Creek 02146243	Sugar Creek	Lat 35°14'08", long 80°15'17", Mecklenburg County, at bridge on State Highway 16, at Charlotte, and 1.2 miles upstream from Stewart Creek.	a12	1969-72	10-24-72 12-11-72 6- 4-73	*4.30 14.7 *6.85
Irwin Creek 02146287	Sugar Creek	Lat 35°13'03", long 80°52'22", Mecklenburg County, at bridge on West Boulevard at Charlotte, and 0.5 mile downstream from Stewart Creek.	a25	1969-72	10-24-72 12-11-72 6- 8-73 9- 6-73	*7.33 26.8 19.4 *10.4
Irwin Creek tributary 02146288	Irwin Creek	Lat 35°12'35", long 80°52'04", Mecklenburg County, 200 ft downstream from culvert on State Highway 49, 0.5 mile upstream from mouth, and 1.2 miles southwest of intersection of State Highway 49 and U. S. Highway 21, in Charlotte.	a.1	1970-72	11- 3-72 12-11-72 6- 4-73 9- 6-73	*.08 .19 *9.09 *1.10
Irwin Creek 02146291	Sugar Creek	Lat 35°12'48", long 80°52'56", Mecklenburg County, at bridge on Remount Road, at Charlotte.	a26	1970-72	11- 3-72 12-11-72 6- 4-73	12.2 24.5 *15.6
Sugar Creek 02146328	Catawba River	Lat 35°09'51", long 80°54'46", Mecklenburg County, at bridge on State Highway 49, at Charlotte, and 2.5 miles from Taggart Creek.	a41	1969-72	6- 7-73	78.4
Sugar Creek 02146330	Catawba River	Lat 35°08'21", long 80°54'41", Mecklenburg County, at bridge on Arrowood Road, 1 mile upstream from Coffey Creek, and 7.4 miles southwest of Charlotte.	43.7	1969-72	6- 5-73 9- 6-73	*27.1 *20.3
Coffey Creek 02146348	Sugar Creek	Lat 35°08'43", long 80°55'37", Mecklenburg County, at bridge on State Highway 49, 1.2 miles upstream from mouth, and 7.5 miles southwest of Charlotte.	9.19	1957, 1962, 1969-72	10-31-72 6- 5-73	1.41 *2.37
Sugar Creek 02146354	Catawba River	Lat 35°07'16", long 80°54'10", Mecklenburg County, at bridge on Secondary Road 1126, 1.6 miles upstream from King's Branch, and 2.7 miles north of Pineville.	a58	1969-72	10-31-72 6- 5-73	27.1 31.2
Kings Branch 02146364	Sugar Creek	Lat 35°08'12", long 80°53'11", Mecklenburg County, at bridge on Secondary Road 1138, 2 miles upstream from mouth, and 7.4 miles south of Charlotte.	2.63	1962, 1969-72	12-11-72 6- 5-73	1.62 *1.20
Sugar Creek 02146381	Catawba River	Lat 35°05'20", long 80°54'00", Mecklenburg County, at bridge 0.5 mile upstream from McCullough Branch, and 0.8 mile west of Pineville.	a64	1969-72	11- 1-72 12-13-72 6- 7-73 9- 6-73	31.2 55.3 123 *27.8

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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	1969-72	6- 7-73	128
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	1969-72	6- 7-73	15.6
Briar Creek 0214642450	Little Sugar Creek	Lat 35°15'02", long 80°45'28", Mecklenburg County, at bridge on Secondary Road 2935, 0.7 mile upstream from Norfolk Southern Railway, and 5.3 miles northeast of Charlotte Post Office.	a1.6		12-12-72 6- 8-73 9- 6-73	.72 .49 .12
Briar Creek 02146461	Little Sugar Creek	Lat 35°09'30", long 80°50'56", Mecklenburg County, at bridge on Secondary Road 3686, 0.2 mile upstream from mouth, and 4.9 miles south of Charlotte.	21.4	1957, 1962, 1969-72	11- 1-72 12-12-72 6- 7-73	3.86 9.28 31.4
Little Sugar Creek 02146520	Sugar Creek	Lat 35°07'05", long 80°52'06", Mecklenburg County, at bridge on Secondary Road 3657, 2.5 miles northeast of Pineville.	a46	1969-72	6- 8-73	51.7
Little Sugar Creek 02146538	Sugar Creek	Lat 35°04'40", long 80°53'10", Mecklenburg County, at bridge 0.5 mile southeast of Pineville, and 3.5 miles upstream from mouth.	49.3	1969-72	6- 7-73 9- 6-73	75.0 24.1
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	1969-72	12-12-72 6- 7-73 9- 7-73	2.73 3.81 *.67
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	1969-72	12-12-72 7- 7-73	2.59 6.64
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	1969-72	12-12-72 6- 7-73	2.78 3.00
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, 1969-72	6- 7-73	20.5
McAlpine Creek 02146655	Sugar Creek	Lat 35°05'02", long 80°50'05", Mecklenburg County, at bridge on State Highway 51, 1 mile upstream from Fourmile Creek, and 10.2 miles south of Post Office in Charlotte.	a51	1969-72	11- 1-72 6- 8-73 9-17-73	8.48 16.5 6.19
Fourmile Creek 02146668	McAlpine Creek	Lat 35°05'17", long 80°46'30", Mecklenburg County, at bridge on State Highway 16, 3.6 miles west of Matthews, and 4.5 miles upstream from mouth.	a11	1969-72	10-25-72 11- 1-72 12-13-72 6- 8-73 9- 7-73	.63 .94 1.92 2.78 *1.18
Fourmile Creek 02146670	McAlpine Creek	Lat 35°04'33", long 80°49'24", Mecklenburg County, at bridge on Secondary Road 3649, 1 mile upstream from mouth, and 4 miles east of Pineville.	a18	1957, 1962, 1964-67, 1969-72	10-25-72 11- 1-72 12-13-72 6- 8-73 9- 7-73	.75 1.40 4.86 5.24 1.17
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	10-11-72 10-25-72 12-12-72 6- 7-73	.08 .09 1.00 .96
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	10-11-72 10-25-72 12-12-72 6- 7-73	.09 .12 1.15 .88
McMullen Creek 02146716	McAlpine Creek	Lat 36°06'30", long 80°50'35", Mecklenburg County, 2.2 miles southeast of Hebron, and 3.8 miles upstream from mouth.	10.7	1969-72	12-12-72 6- 7-73	6.69 4.77
McMullen Creek 02146734	McAlpine Creek	Lat 35°05'14", long 80°51'24", Mecklenburg County, at bridge on State Highway 51, 1.8 miles upstream from mouth, and 2 miles east of Pineville.	a14	1957, 1962, 1969-72	6- 8-73 9- 6-73	2.60 .85

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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, 1969-72	6- 8-73	40.6
McAlpine Creek 02146761	Sugar Creek	Lat 35°03'12", long 80°53'06", Mecklenburg County, 1 mile downstream from bridge on U. S. Highway 521, 2.2 miles upstream from mouth, and 2.2 miles south of Pineville.	a94	1969-72	12-13-72 6- 8-73	35.1 36.3
Steel Creek 02146781	Sugar Creek	Lat 35°07'10", long 80°57'12", Mecklenburg County, at State Highway 49, 1.9 miles upstream from Walker Branch, 8.4 miles from mouth at Sugar Creek, and 10.1 miles southwest of Charlotte.	a5.2	1969-72	10-31-72 12-11-72 5- 1-73 5-23-73 5-24-73 6- 7-73 9- 6-73	.50 3.50 .94 .50 4.02 4.41 *.27
Steel Creek 02146782	Sugar Creek	Lat 35°05'54", long 80°57'21", Mecklenburg County, at bridge on Secondary Road 1124, 0.3 miles upstream from Walker Branch, and 4 miles west of Pineville.	a7.5	1969-72	10-31-72 12-13-72 6- 7-73	.56 4.53 8.29
Polk Ditch 02146783	Walker Branch	Lat 35°05'51", long 80°57'44", Mecklenburg County, at bridge on Secondary Road 1122, 0.2 mile upstream from mouth, and 4.4 miles west of Pineville.	a1.4	1969-72	10-31-72 12-13-72 6- 7-73 9- 6-73	.02 .84 1.12 *.03
Sugar Creek 02146800	Catawba River	Lat 35°00'21", long 80°54'09", York County, at bridge on State Highway 160, 0.7 mile downstream from Clemm Branch, and 2.6 miles east of Fort Mill, S. C.	262	1969-72	10-17-72 1-17-73 4-17-73 6-26-73 9-14-73 9-19-73 9-26-73	81.9 371 204 -224 1,760 119 95.3
Rhone Branch 02146926	Twelve Mile Creek	Lat 34°54'46", long 80°45'18", Union County, at bridge on Secondary Road 1107, 1 mile southwest of Waxhaw, and 3.8 miles upstream from mouth.	a1.7	1972	6- 8-73 9- 7-73	1.18 .12
Broad River 02148494	Santee River	Lat 35°25'31", long 82°11'03", Rutherford County, at bridge, 0.5 mile downstream from Cane Creek, and 0.8 mile northeast of Lake Lure.		1970	11-20-72 7-19-73	157 .87
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	11-20-72 7-19-73	174 27.3
Cleghorn Creek 02149322	Broad River	Lat 35°21'59", long 81°57'21", Rutherford County, on downstream side of U. S. Highway 74, 0.2 mile south of Rutherfordton, and 6 mile upstream from mouth.	a1.1	1959, 1964, 1970-72	7-19-73	137
Cleghorn Creek 02149342	Broad River	Lat 35°20'31", long 81°57'52", Rutherford County, at bridge on Secondary Road 1005, 2 miles south of Rutherfordton, and 4 miles upstream from mouth.	a7.9	1970-72	7-19-73	12.7
Broad River 02149377	Santee River	Lat 35°17'30", long 81°59'33", Rutherford County, at bridge on Secondary Road 1005, 0.3 mile downstream from Cleghorn Creek, and 5.8 miles southwest of Rutherfordton.	a270	1970-72	11-22-72 1-23-73	659 1,200
Saconon Creek 0214952675	Tumblebug Creek	Lat 35°19'36", long 82°21'05", Henderson County, at bridge on Secondary Road 1525, 0.8 mile upstream from mouth, and 1.3 miles east of Dana.	a.2	1972	10-18-72 7-20-73	1.60 2.20
Camp Creek 02149612	Green River	Lat 35°15'30", long 82°22'14", Henderson County, at bridge on Secondary Road 1006, 1.2 miles north of Saluda, and 1.7 miles upstream from mouth.	a4.1	1970-72	7-20-73	12.4
Cove Creek 02149672	Green River	Lat 35°14'28", long 82°19'06", Polk County, at bridge on Secondary Road 1122, 0.3 mile downstream from Neals tributary, and 1.7 miles east of Saluda.	1.69	1970-72	7-20-73	3.53
White Oak Creek tributary 02150020	White Oak Creek	Lat 35°15'13", long 82°10'19", Polk County, at bridge on Secondary Road 1532, 1.5 miles east of Columbus, and 2.9 miles upstream from Fork of White Oak Creek.	a2.2	1970-72	7-20-73	3.06
White Oak Creek tributary 02150022	White Oak Creek	Lat 35°14'28", long 82°09'12", Polk County, at bridge on Secondary Road 1519, 0.2 mile upstream from mouth, and 2.7 miles southeast of Mill Spring.	a4.8	1970-72	7-20-73	5.63

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
White Oak Creek 02150031	Green River	Lat 35°16'08", long 82°08'23", Polk County, at bridge on Secondary Road 1519, 3.5 miles north-east of Columbus, and 4.2 miles upstream from Machine Creek.	a12	1964, 1970-72	7-20-73	18.2
South Branch 02150034	White Oak Creek	Lat 35°17'41", long 82°09'58", Polk County, just upstream from effluent discharge at entrance of Stone Cutter Mills Corporation, 0.3 mile southwest of Mill Spring, and 3.5 miles upstream from mouth.	a1.1	1970-72	7-20-73	.54
South Branch 02150035	White Oak Creek	Lat 35°17'43", long 82°09'52", Polk County, at culvert on State Highway 108, 0.2 mile southwest of Mill Spring, and 3.4 miles upstream from mouth.	a1.1	1970-72	7-20-73	1.16
Green River 02150062	Broad River	Lat 35°15'35", long 81°59'02", Polk County, at bridge on Secondary Road 1302, 1 mile upstream from mouth, and 4 miles east of Green River.	a240	1970-72	11-22-72 1-23-73 5-17-73	789 1,400 274
Second Broad River 02150495	Broad River	Lat 35°24'16", long 81°52'20", Rutherford County, at bridge on Secondary Road 1538, 2.2 miles southeast of Logan, and 2.7 miles upstream from Catheys Creek.	a89	1971	11-20-72 11-26-72	172 109
Catheys Creek 02150618	Second Broad River	Lat 35°24'35", long 81°56'26", Rutherford County, at bridge on Secondary Road 1520, 3.1 miles southeast of Gilkey, and 4.6 miles upstream from Hollands Creek.	a25	1970-72	7-26-73	31.7
Catheys Creek tributary 02150619	Catheys Creek	Lat 35°24'18", long 81°56'32", Rutherford County, at culvert on Secondary Road 1520, 0.3 mile upstream from mouth, and 3.2 miles southeast of Gilkey.	a1.2	1970-72	7-19-73	.56
Holland Creek 02150628	Catheys Creek	Lat 35°23'22", long 81°52'02", Rutherford County, at culvert on U. S. Highway 64, 0.3 mile upstream from mouth, and 1.5 miles north of Ruth.	a3	1970-72	7-19-73	2.91
Cox Branch 02150644	Holland Creek	Lat 35°22'32", long 81°54'56", Rutherford County, at culvert on Secondary Road 1591, 0.3 mile upstream from mouth, and 1.6 miles northeast of Spindale.	a1.1	1970-72	7-26-73	1.71
Catheys Creek 02150647	Second Broad River	Lat 35°22'52", long 81°53'16", Rutherford County, at bridge on Secondary Road 1510, 500 ft downstream from Hollands Creek, and 3 miles northeast of Spindale.	a43	1970-71	11-20-72 7-26-73	79.8 54.0
Catheys Creek 02150651	Second Broad River	Lat 35°22'51", long 81°51'57", Rutherford County, at bridge on Secondary Road 1549, 0.8 mile upstream from mouth, and 3.5 miles north of Forest City.	a45	1970-71	11-20-72 7-26-73	88.8 58.8
Second Broad River 02150742	Broad River	Lat 35°20'00", long 81°50'23", Rutherford County, at bridge on U. S. Highway 74, 1.2 miles upstream from Morrow Creek, and 1.5 miles east of Forest City.	a170	1970-71	11-20-72 7-27-73	393 266
Second Broad River 02150744	Broad River	Lat 35°19'37", long 81°40'06", Rutherford County, 0.3 mile downstream from Forest City sewage disposal plant, 0.5 mile upstream from Morrow Creek, and 1.8 miles east of Forest City.	a170	1970-72	7-26-73	201
Morrow Creek 02150814	Second Broad River	Lat 35°18'34", long 81°50'39", Rutherford County, at bridge on Secondary Road 1903, 0.8 mile east of Alexander, and 1.2 miles upstream from mouth.	a.7	1970-72	7-26-73	.85
Morrow Creek 02150816	Second Broad River	Lat 35°18'23", long 81°49'52", Rutherford County, at culvert on Secondary Road 1901, 0.2 mile upstream from mouth, and 2 miles southeast of Forest City.	a4	1970-72	7-27-73	3.54
Second Broad River 02150826	Broad River	Lat 35°18'30", long 81°48'24", Rutherford County, at Southern Railway bridge, 0.5 mile upstream from Webbs Creek, and 2.8 miles east of Alexander Mills.	a190	1959, 1964, 1970, 1972	7-27-73	296
Second Broad River 02150904	Broad River	Lat 35°16'54", long 81°48'05", Rutherford County, at bridge on U. S. Highway 221A, 0.2 mile west of Coroleen, and 2.6 miles downstream from Webbs Creek.	a200	1970-72	7-27-73	354
Second Broad River 02150906	Broad River	Lat 35°16'12", long 81°47'59", Rutherford County, at bridge on Secondary Road 2138, 0.5 mile southwest of Avondale, and 3 miles downstream from Webb Creek.	a210	1970-72	7-27-73	312
Sandy Run 02151742	Broad River	Lat 35°15'22", long 81°41'48", Cleveland County, at bridge on Secondary Road 1003, 0.8 mile downstream from Sandy Creek tributary 2, 1.8 miles northwest of Boiling Springs.	a52	1970-72	8- 9-73	61.8

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Sandy Run 02151917	Broad River	Lat 35°14'43", long 81°41'39", Cleveland County, at bridge on Secondary Road 1194, 1.6 miles west of Boiling Springs, and 1.9 miles upstream from Grog Creek.	a55	1970-72	8- 1-73	67.3
First Broad River 02152474	Broad River	Lat 35°24'55", long 81°33'42", Cleveland County, at bridge on State Highway 182, at Lawndale, and 0.8 mile downstream from Maple Creek.	a190	1959-60, 1962, 1964, 1970-72	8- 1-73	280
First Broad River tributary No. 2 02152478	First Broad River	Lat 35°24'40", long 81°33'57", Cleveland County, at culvert on Secondary Road 1813, 0.2 mile southwest of Lawndale, and 0.2 mile upstream from mouth.	.99	1970-72	8- 2-73	.20
First Broad River 02152517	Broad River	Lat 35°20'45", long 81°32'47", Cleveland County, at bridge on Secondary Road 1832, 1.7 miles southeast of Metcalf, and 4 miles downstream from Harris Creek	a210	1970-72	8- 2-73	305
Brushy Creek 02152544	First Broad River	Lat 35°20'24", long 81°37'00", Cleveland County, at bridge on Secondary Road 1323, 1.0 mile upstream from Little Creek, and 1 mile northeast of Washburn.	15.1	1959, 1964, 1970-72	8- 2-73	20.8
Brushy Creek 02152546	First Broad River	Lat 35°19'40", long 81°35'38", Cleveland County, at bridge 0.8 mile downstream from Little Creek, and 2 miles east of Washburn.	20.1	1970-72	8- 2-73	27.0
Brushy Creek 02152564	First Broad River	Lat 35°18'08", long 81°34'43", Cleveland County, at bridge on Secondary Road 1308, 2.2 miles northwest of Shelby, and 2.4 miles upstream from mouth.	26.7	1970-72	8- 9-73	27.3
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, 1970-72	8- 1-73	33.1
First Broad River 02152584	Broad River	Lat 35°15'18", long 81°35'02", Cleveland County, at bridge on State Highway 150, 2 miles southwest of Shelby, and 3.5 miles downstream from Brushy Creek.	263	1970-72	8- 1-73	279
Hickory Creek tributary 02152585	Hickory Creek	Lat 35°17'39", long 81°30'31", Cleveland County, at culvert on U. S. Highway 74, 1.5 miles upstream from mouth, and 1.8 miles east of Shelby.	a1.4	1970-72	8- 9-73	.61
Hickory Creek 02152587	First Broad River	Lat 35°14'40", long 81°33'50", Cleveland County, at bridge on Secondary Road 1110, 0.2 mile upstream from Little Hickory Creek, and 3.8 miles south of Shelby.	14.6	1959, 1964, 1970-72	8- 1-73	9.10
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	1968-72	5-16-73 9-27-73	412 199
Beaverdam Creek 02152599	First Broad River	Lat 35°18'44", long 81°38'33", Cleveland County, at bridge on Secondary Road 1314, 1.2 miles southeast of Lattimore, and 6.8 miles upstream from Poplar Branch.	a1.8	1970-72	8- 2-73	2.33
Beaverdam Creek tributary No. 1 02152600	Beaverdam Creek	Lat 35°18'33", long 81°37'55", Cleveland County, at bridge on Secondary Road 1314, 0.1 mile upstream from mouth, and 1.8 miles southeast of Lattimore.	a.7	1970-72	8- 9-73	.70
East Fork Beaverdam Creek 02152601	Beaverdam Creek	Lat 35°17'36", long 81°36'26", Cleveland County, at culvert on U. S. Highway 74, 1.7 miles upstream from mouth, and 3.7 miles west of Shelby.	a1.9	1970-72	8- 1-73	2.01
Broad River 02152622	Santee River	Lat 35°10'50", long 81°37'10", Cleveland County, at Ellis Ferry, 2 miles downstream from First Broad River, 5 miles west of Earl.	a1,270	1970	9-28-73	1,420
Potts Creek 02153328	Muddy Fork	Lat 35°16'00", long 81°25'30", Cleveland County, at bridge on Secondary Road 1001, 0.5 mile south of Oak Grove, and 2 miles upstream from mouth.	a10	1970-72	8-10-73	8.77
Buffalo Creek 02153332	Broad River	Lat 35°15'20", long 81°27'30", Cleveland County, at bridge on U. S. Highway 74, 0.2 mile downstream from Muddy Fork, and 5.5 miles southeast of Shelby.	a120	1959-60, 1964, 1970-72	8-10-73	87.6
Roberts Branch tributary 02153333	Roberts Branch	Lat 35°15'31", long 81°28'49", Cleveland County, at culvert on Secondary Road 2201, 1.4 miles upstream from mouth, and 4.1 miles southeast of Shelby.	a1.1	1970-72	8-10-73	1.13

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Buffalo Creek 02153334	Broad River	Lat 35°14'07", long 81°28'23", Cleveland County, at bridge on Secondary Road 1103, 1.2 miles downstream from Roberts Branch, and 4.5 miles southeast of Shelby.	a130	1970-72	8-10-73	102
Beason Creek 02153341	Buffalo Creek	Lat 35°14'10", long 81°22'00", Cleveland County, at bridge 0.2 mile upstream from unnamed tributary, and 1.2 miles southwest of Kings Mountain.	.95	1970-72	8-10-73	.53
Beason Creek 0215334140	Buffalo Creek	Lat 35°13'45", long 81°23'28", Cleveland County, at bridge on Secondary Road 2252, 2.7 miles southwest of Kings Mountain, and 6.7 miles upstream from mouth.	a2.9	1970-72	8-10-73	2.19
Beason Creek 02153342	Buffalo Creek	Lat 35°13'50", long 81°23'30", Cleveland County, at bridge, 5 miles upstream from Long Branch, 3 miles south of Sandy Plains.	a2.9	1970-72	8-10-73	3.80
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	1968-72	10-19-72 11-21-72 1-22-73 4-18-73 5-16-73 9-27-73	*81.0 190 1,890 *379 264 90.8
Kings Creek 02153556	Broad River	Lat 35°12'42", long 81°21'11", Cleveland County, at bridge on U. S. Highway 29, 0.3 mile downstream from South Creek, and 2 miles south of Kings Mountain.	2.95	1972	12- 7-72 9-26-73	3.36 1.28
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	11-21-72 9-27-73	29.3 16.2
North Pacolet River 02153898	Pacolet River	Lat 35°14'04", long 82°13'42", Polk County, at bridge on State Highway 108, at Lynn, and 2.5 miles upstream from Horse Creek.	a22	1959, 1964, 1970-71	11-21-72 9-27-73	57.1 33.1
South Pacolet River tributary No. 2 02153912	South Pacolet River	Lat 35°13'09", long 82°14'02", Polk County, at bridge on Secondary Road 1508, 0.7 mile upstream from mouth, and 0.8 mile northeast of Tryon.		1970-71	11-21-72 9-27-73	2.93 2.27
North Pacolet River 02153916	Pacolet River	Lat 35°13'25", long 82°13'03", Polk County, at bridge on Secondary Road 1506, 0.5 mile upstream from Vaughn Creek, and 1 mile northeast of Tryon.	a28	1959, 1964, 1970-71	11-21-72 9-27-73	70.2 33.9
Vaughn Creek 02153945	North Pacolet River	Lat 35°11'54", long 82°13'54", Polk County, at bridge on U. S. Highway 176, 0.2 mile downstream from Little Creek, and 0.8 mile southeast of Tryon.	a8.6	1970-71	11-21-72 9-27-73	17.2 8.67
Vaughn Creek 02153948	North Pacolet River	Lat 35°12'25", long 82°13'37", Polk County, at bridge on Secondary Road 1502, 0.7 mile southeast of Tryon, and 0.8 mile upstream from mouth.	a9.2	1970-71	11-21-72 9-27-73	20.1 10.2
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	1968-72	10-19-72 11-22-72 1-23-73 4-18-73	57.3 98.2 146 183
Savannah River basin						
Chattooga River 02176908	Tugaloo Creek	Lat 35°04'26", long 83°06'27", Jackson County, at bridge on Secondary Road 1107, 0.8 mile upstream from Fowler Creek, and 2.3 miles south of Cashiers.	7.69	1969-72	7-17-73	16.0
Chattooga River 02176912	Tugaloo Creek	Lat 35°00'57", long 83°07'36", Macon County, at bridge on Secondary Road 1603, upstream from Ammons Branch, and 4.7 miles southwest of Highlands.	22.9	1959, 1969-72	7-17-73	44.4
Toxaway River 02184123	Keowee River	Lat 35°07'26", long 82°55'54", Transylvania County, at bridge on U. S. Highway 64, 0.7 mile south of Lake Toxaway, and 1.6 miles upstream from Indian Creek.	7.8	1969-72	7-17-73	21.0
Horsepasture River 02184240	Toxaway River	Lat 35°06'23", long 82°59'18", Transylvania County, on left bank 200 ft downstream from Rock Creek, 250 ft upstream from bridge on Secondary Road 1152, 0.9 mile east of Sapphire, and 1 mile downstream from Jackson-Transylvania County line.	21.0	1963-69, 1971	7-17-73	49.9

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope basins--Continued

Discharge measurements made at miscellaneous sites during water year 1973, in Atlantic Slope States--Continued						
Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Savannah River basin--Continued						
Whitewater River 02184260	Toxaway River	Lat 35°02'13", long 83°01'10", Jackson County, at bridge on Secondary Road 1177, upstream from Upper Falls, and 6.4 miles southeast of Cashiers.	12.9	1959, 1963-66, 1968-69, 1971-72	7-17-73	33.2
Thompson River 02184302	Whitewater River	Lat 35°04'35", long 82°59'53", Transylvania County, at bridge on Secondary Road 1149, 1.2 miles upstream from Reid Branch, and 5.7 miles southwest of Lake Toxaway.	2.56	1959, 1963, 1969-72	7-17-73	9.27

Discharge measurements made at miscellaneous sites during water year 1973, in Ohio River basin

Kanawha River basin						
Chetola Lake at Spillway 03160071	South Fork New River	Lat 36°08'20", long 81°40'16", Watauga County, at spillway, 0.5 mile northeast of Blowing Rock, and 0.7 mile downstream from Bass Lake.	2.2	1971	7-16-73	3.54
Middle Fork of South Fork New River 03160082	South Fork New River	Lat 36°08'40", long 81°39'51", Watauga County, at culvert on U. S. Highway 321, 0.2 mile downstream from Penley Branch, and 1.1 miles northeast of Blowing Rock.	3.8	1971	7-16-73	7.88
Middle Fork of South Fork New River 03160103	South Fork New River	Lat 36°09'48", long 81°38'37", Watauga County, at bridge on Secondary Road 1533, 0.1 mile downstream from Moore Branch, and 1.3 miles west of Aho.	8.14	1971	7-16-73	16.6
Winkler Creek 03160206	South Fork New River	Lat 36°11'33", long 81°41'13", Watauga County, at Boone Water Supply Reservoir, 0.6 mile upstream from Flannery Fork, and 1.7 miles south of Boone.	a2.5	1971	7-16-73	1.02
Boone Creek 03160213	Winkler Creek	Lat 36°13'16", long 81°41'32", Watauga County, at bridge on U. S. Highway 421 at Boone, and 2.1 miles upstream from mouth.	.45	1971	7-17-73	.73
Boone Creek 03160222	Winkler Creek	Lat 36°12'19", long 81°40'13", Watauga County, at bridge on State Highway 105, 0.2 mile upstream from Hodges Creek, and 1.4 miles southeast of Boone.	a3.9	1971	7-16-73	2.28
South Fork New River 03160264	New River	Lat 36°12'50", long 81°38'52", Watauga County, 50 ft upstream from sewage outfall at Boone's waste treatment plant, 0.5 miles upstream from Mutton Creek, and 2.0 miles east of Boone.	a33	1971	7-17-73	48.9
Howard Creek 03160307	South Fork New River	Lat 36°14'44", long 81°40'28", Watauga County, 0.2 mile downstream from Doe Fork, 0.9 mile upstream from Secondary Road 1306, and 2 miles north of Boone.	a8.3	1971	7-17-73	12.4
South Fork New River 03160449	New River	Lat 36°14'44", long 81°35'40", Watauga County, at bridge on Secondary Road 1355, 0.2 mile upstream from Pine Run Creek, and 1.5 miles north of Rutherford.	a72	1971	7-17-73	101
South Fork New River 03160955	New River	Lat 36°20'48", long 81°23'14", Ashe County, at bridge on Secondary Road 1159, 100 ft upstream from Obids Creek, and 1.3 miles west of Glendale Springs.	a200	1971	7-17-73	344
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	7-17-73	.58
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	7-17-73	8.24
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	7-17-73	8.55
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	7-18-73	3.24
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	7-18-73	1.63
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	7-17-73	3.52

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, in Ohio River basin--Continued

Discharge measurements made at miscellaneous sites during water year 1973, in Ohio River basin--Continued						
Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
Kanawha River basin--Continued						
North Fork New River 03162184	New River	Lat 36°28'52", long 81°30'20", Ashe County, at bridge on Sprage Electric Company, 0.5 mile west of Bina, 1.5 miles downstream from Buffalo Creek.	145	1971	7-18-73	148
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 northeast of Amelia.	20	1968-69, 1971-72	3-14-73	2,120
New River 03162851	Kanawha River	Lat 36°34'31", long 81°09'37", Greyson County, Virginia, at bridge on U. S. Highway 221-21, 50 ft downstream from Brush Creek, and 3.3 miles northeast of Amelia.	830	1971	7-18-73	1,160
Little River 03162871	New River	Lat 36°29'49", long 81°06'26", Alleghany County, 0.2 mile downstream from Bledsoe Creek, and 2 miles southeast of Sparta.	34.2	1971	7-18-73	60.0
Little River 03162884	New River	Lat 36°31'28", long 81°04'12", Alleghany County, at bridge on Secondary Road 1424, 3.1 miles northeast of Sparta, and 3.7 miles upstream from Glade Creek.	46	1971	7-18-73	68.8
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	1968-72	8-31-73	*40.2
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, 1968-72	8-31-73	46.2
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	1968-72	8-31-73	*.91
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 Calvert.	.64	1968-72	8-31-73	1.29
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 Calvert, and 1.4 miles downstream from East Fork.	103	1924-55, 1963, 1968-72	9- 4-73	146
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, 1971-72	6-21-73	13.8
King Creek 03440276	French Broad River	Lat 35°14'04", long 82°43'13", Transylvania County, at bridge on Secondary Road 1546, 0.6 mile upstream from mouth, and 0.8 mile east of Brevard.	4.17	1968-69, 1971-72	6-21-73	18.7
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	6-21-73	764
Joel Creek 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	10-18-72 6-21-73	.62 3.33
Davidson River 03441141	French Broad River	Lat 35°15'18", long 82°41'53", Transylvania County, at bridge on Secondary Road 1533, 0.2 miles northeast of Pisgah Forest.	47.2	1968-72	8-31-73	66.2
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	9- 4-73	330
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	1968-72	9- 5-73	397
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	1968-72	9- 5-73	448
French Broad River 03443500	Tennessee River	Lat 35°20'41", long 82°33'37", Henderson County, at bridge on Secondary Road 1314 at Horseshoe, 2.5 miles upstream from Boylston Creek	326	1904-06, 1968-71	9- 5-73	504

a Approximately.

† Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1972, 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 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	9- 6-73	539
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	1969-72	6-22-73	51.5
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	1971-72	9- 6-73	3.75
Bat Fork Creek 03446106	Johnson's 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	1968-72	6-22-73	6.37
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	1968-72	9- 6-73	51.6
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 mile north-east of Balfour.	97.4	1968-72	9-17-73	119
French Broad River 03447066	Tennessee River	Lat 35°24'26", long 82°31'53", Henderson County, at Butler Bridge on Secondary Road 1345, 0.6 mile upstream from Cane Creek, and 1 mile west of Brickton, and at mile 167.4.	545	1969-71	9- 6-73	886
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	1968-72	6-22-73	.52
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, 1971-72	6-17-73	987
French Broad River tributary to tributary No. 0344776650	French Broad tributary No.1	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		10-17-72 10-30-72 12- 4-72 9-17-73	.44 .42 .44 .39
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	10-18-72 6-25-73	9.62 20.8
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 1.0 mile southwest of Jugtown.	.68	1970-72	10-18-72	.33 .44
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	1970-72	10-18-72 6-25-73	.50 .69
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	1968-72	1-22-73 1-22-73 9-26-73	546 548 50.3
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	12- 4-72 6-25-73	91.8 220
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 mile northeast of Swannanoa.	21.2	1944, 1953-55, 1958-60	10-17-72 10-30-72 11-30-72 8-30-73	29.6 24.8 44.0 17.2
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		10-17-72 10-30-72 11-20-72 8-30-73	8.23 7.23 12.5 4.60
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	10-17-72 10-30-72 11-30-72 8-30-73	57.4 38.4 61.9 22.8

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1973, 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 03450500	French Broad River	Lat 35°34'54", long 82°27'55", Buncombe County, at Azalea, and 150 ft downstream from Christian Creek.	102		10-17-72 10-30-72 12- 4-72 8-30-73	101 63.6 72.6 43.5
Lee Creek 03451644	French Broad River	Lat 35°36'52", long 82°37'41", Boncombe County, at culvert on Secondary Road 1369, 4.1 miles upstream from mouth, and 4.6 miles northeast of Enka.	.84	1970-72	6-22-73	.64
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	1970-72	10-18-72 6-22-73	.80 1.19
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	1970-72	10-18-72 6-22-73	1.82 1.72
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	1968-72	10-18-72 6-26-73	15.8 23.1
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, 1968-72	6-26-73	25.8
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	1968-72	10-18-72 6-26-73	1.32 .62
Banjo Branch 03452826	Gabriel Creek	Lat 35°50'33", long 82°33'31", Madison County, at culvert on Secondary Road 1356, 1.1 miles upstream from mouth, and 1.2 miles northwest of Mars Hill.	.71	1968-72	6-26-73	.48
Banjo Branch 03452827	Gabriel Creek	Lat 35°49'48", long 82°33'20", Madison County, at bridge on Forest Street, 0.2 mile upstream from mouth, and 0.4 mile northwest of Mars Hill.	1.34	1968-72	6-26-73	.47
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	1968-72	10-18-72 6-28-73	4.92 2.05
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	1968-72	9- 5-73	85.3
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	1969-72	9- 5-73	96.3
Richland 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	1968-72	9-26-73	7.15
Allen Creek 03457624	Richland Creek	Lat 35°28'02", long 83°00'23", Haywood County, at bridge on U. S. Highway 19A, at Hazelwood, and 0.3 mile upstream from mouth.	16.9	1972	9-26-73	7.49
Richland Creek 03457893	Pigeon River	Lat 35°28'45", long 83°00'29", Haywood County, downstream from bridge on West Main St. (Secondary Road 1173), downstream from Camp Branch, and at Hazelwood.	35.7	1968-72	9-26-73	16.8
Richland Creek 03458421	Pigeon River	Lat 35°32'51", long 82°56'44", Haywood County, at bridge on Secondary Road 1519, 0.2 mile upstream from mouth, and 2.2 miles northwest of Clyde.	68.4	1969-72	9- 5-73	40.8
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	1968-72	9- 5-73	132
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	1969-72	11-21-72 9- 5-73	613 149
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		8-20-73 9- 4-73	39.8 *26.0

Discharge measurements made at miscellaneous sites during water year 1973, in Ohio River basin--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Pigeon River 03460766	French Broad River	Lat 35°46'32", long 83°06'01", Haywood County, at Carolina Power and Light power plant, downstream from Big Creek, and at Waterville.	536	1968-71	10-24-72 5-16-73	1,720 1,680
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, 1971-72	7-11-73	14.9
North Toe River 03461912	Nolichucky River	Lat 36°05'42", long 81°57'07", Avery County, at bridge on Secondary Road 1157, 0.2 mile upstream from Banjo Branch, and 1.5 miles northwest of Newland.	16.3	1969-72	7-11-73	29.2
Three Mile Creek 0346197560	North Toe River	Lat 35°58'16", long 82°00'43", Avery County, at bridge on State Highway 194, at Ingalls, and 0.2 mile upstream from mouth.	7.08	1972	10-26-72 7-11-73	6.19 13.9
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.		1972	10-26-72	2.56
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	10-26-72 7-11-73	58.3 133
Three Mile Creek 0346197750	North Toe River	Lat 35°58'23", long 81°59'53", Avery County, at bridge on Secondary Road 1106, 1 mile west of Ingalls, and 1.1 miles upstream from mouth.	6.22	1972	10-26-72 7-11-73	5.09 9.06
North Toe River 03461995	Nolichucky River	Lat 35°55'04", long 82°00'19", Mitchell County, at bridge on Secondary Road 1129, 0.1 mile upstream from Holley Branch, 1.8 miles northeast of Altapass, and at mile 39.3.	99.4	1969-72	7-12-73	128
North Toe River 03462000	Nolichucky River	Lat 35°53'59", long 82°01'50", Mitchell County, 0.1 mile upstream from Rose Creek, and 1 mile northwest of Altapass.	104	†1934-57, 1962-63, 1967-72	5-14-73	*342
Grassy Creek 03462655	North Toe River	Lat 35°51'30", long 82°04'32", Mitchell County, at bridge on Secondary Road 1106, 0.8 mile upstream from East Fork Grassy Creek, and 2.2 miles south of Spruce Pine.	.89	1969-72	7-12-73	12.1
Grassy Creek 03462659	North Toe River	Lat 35°53'42", long 82°04'03", Mitchell County, at bridge on Secondary Road 1117, 0.2 mile upstream from Rockhouse Creek, and 2.7 miles west of Altapass.	6.87	1969-72	7-11-73	15.2
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	7-12-73	201
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	1969-72	7-12-73	76.0
Cane Creek 03463651	North Toe River	Lat 36°00'48", long 82°09'49", Mitchell County, at Iron Rail bridge, 0.3 mile downstream from Honeycutt Branch, and 0.3 mile southwest of Bakersville.	22.5	1970-72	7-11-73	15.4
Cane Creek 03463654	North Toe River	Lat 36°00'58", long 82°10'19", Mitchell County, at bridge on Secondary Road 1188, 0.7 mile west of Bakersville, and 1.4 miles upstream from Cub Creek.	23.0	1970-72	7-11-73	15.9
North Toe River 03463674	Nolichucky River	Lat 36°00'47", long 82°13'46", Mitchell County, at bridge on State Highway 197, 0.6 mile south of Red Hill, and 1 mile upstream from Brush Creek.	317	1969-72	10-26-72	248
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	10-26-72 7-11-73	1.43 1.91
North Toe River 03463786	Nolichucky River	Lat 36°01'35", long 82°19'16", Mitchell County, at bridge on State Highway 26, at Hunt Dale, and 0.5 mile upstream from Cane River.	442	1968-72	5-15-73	*1,200
Cane River 03463801	Nolichucky River	Lat 35°54'16", long 82°19'59", Yancey County, upstream from Pine Swamp Branch, and 2.1 miles southwest of Burnsville.	54.4	1969-72	7-15-73	45.3
McIntosh Branch 03463802	Pine Branch	Lat 35°54'49", long 82°18'14", Yancey County, at culvert on West Main Street (old U. S. 19E) 0.1 mile upstream from mouth, and 1.2 miles west of Burnsville.	.44	1969-72	7-11-73	.31
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	1969-72	7-11-73	.70

Discharge measurements made at miscellaneous sites during water year 1973, 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						
Lance Creek 03478751	Watauga River	Lat 36°10'15", long 81°43'00", Watauga County, at culvert on Secondary Road 1552, at Camp Yonahlossee, and 2.6 miles northwest of Blowing Rock.	0.51	1950, 1971-72	6-28-73 9-25-73	0.86 .25
Watauga River 03478819	South Fork Holston River	Lat 36°11'39", long 81°44'45", Watauga County, at bridge on State Highway 105, 300 ft upstream from Laurel Fork, and 1.4 miles north of Shulls Mills.	26.2	1971-72	6-28-73	84.8
Watauga River 03478884	South Fork Holston River	Lat 36°13'00", long 81°47'11", Watauga County, at bridge on State Highway 194, 50 ft downstream from Dutch Creek, and 0.7 mile northwest of Valle Crucis.	48.5	1967-68, 1971-72	6-28-73	112
Cove Creek 03478899	Watauga River	Lat 36°16'42", long 81°46'46", Watauga County, at bridge on Secondary Road 1233, at Amantha, and 1.1 miles downstream from Laurel Branch.	18.0	1960, 1971-72	6-28-73	22.9
Cove Creek 03478934	Watauga River	Lat 36°15'13", long 81°47'27", Watauga County, at bridge on U. S. Highway 321, at Sugar Grove, and 100 ft upstream from Brush Fork.	30.6	1960, 1971-72	6-28-73 9-25-73	30.2 10.6
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, 1971-72	9-25-73	62.6
Beech Creek 03479276	Watauga River	Lat 36°15'41", long 81°53'49", Avery County, at culvert on U. S. Highway 321 at Beech Creek, downstream from Poga Creek.	18.6		10- 2-61 4-30-62 10-11-63 11-19-64 10-19-65 11-20-67 9-16-68 9-15-69 10- 8-70 10- 4-71 6-16-72 8- 4-73	g2.79 g16.3 g1.35 g21.5 g8.40 g9.4 g2.6 g8.6 g1.7 g6.8 g6.04 h8.00
Banner Elk Creek 03480406	Elk River	Lat 36°08'45", long 81°51'43", Avery County, at bridge on Secondary Road 1341, 0.2 mile upstream from Sugar Creek, and 1 mile southeast of Banner Elk.	2.91	1971	6-29-73 9-25-73	4.37 1.95
Elk River 03480454	Watauga River	Lat 36°09'30", long 81°52'58", Avery County, at Banner Elk, 900 ft upstream from Wildcat Creek, and 0.6 mile downstream from mill pond.	11.2	1971-72	6-29-73	16.5
Cranberry Creek 03480775	Elk River	Lat 36°08'09", long 82°58'20", Avery County, at bridge on U. S. Highway 19E, 0.6 mile south of Cranberry, and 0.7 mile upstream from Cooper Branch.	3.17	1971-72	6-29-73 9-25-73	6.21 1.89
Cranberry Creek 03480778	Elk River	Lat 36°09'10", long 82°57'53", Avery County, at bridge on Secondary Road 1169, 300 ft upstream from Blevins Creek, and 0.5 mile east of Elk Park.	5.32	1971-72	6-29-73	9.19
Elk River 03481000	Watauga River	Lat 36°11'01", long 81°57'45", Avery County, 0.3 mile downstream from Skalley Creek, and 2 miles northeast of Elk Park.	42.0	1934-55, 1962-63, 1968-69, 1971	11-15-72 5-14-73	75.3 *116
Little Tennessee River 03499929	Tennessee River	Lat 34°59'05", long 83°22'56", Rabun County, 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	1969-72	8- 8-73	136
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	8- 8-73	141
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	1968-72	8- 8-73	21.4
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	8- 8-73	79.1
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	8- 8-73	96.5
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, 1968-72	8- 8-73	2.46

g Measured by TVA, not previously published.

h Measured by TVA.

Discharge measurements made at miscellaneous sites during water year 1973, in Ohio River basin--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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	1968-72	8- 8-73	4.49
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	11- 1-72	891
Caler Fork 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	11- 1-72 8- 7-73	2.72 3.19
Caler Fork 03502288	Cowee Creek	Lat 35°16'18", long 83°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	8- 7-73	11.5
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	8- 7-73	35.5
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		11-17-72 1-10-73 3- 5-73	99.9 144 167
Tulula Creek 03515244	Cheoah River	Lat 35°19'15", long 83°48'08", Graham County, at bridge on Secondary Road 1211, 0.3 mile south-east of Robbinsville, and 0.5 mile upstream from Sweetwater Creek.	28.6	1944, 1947, 1953-55, 1958, 1971	8- 7-73	40.9
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, 1971-72	8- 7-73	22.9
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	1968-72	8- 7-73	8.83
Long Creek 03515610	Cheoah River	Lat 35°19'44", long 83°48'40", Graham County, at bridge on Secondary Road 1116, upstream from mouth, and 0.5 mile north of Robbinsville.	11.8	1944, 1953-55, 1958-63, 1968-72	8- 7-73	20.9
Town Creek 03547123	Hiwassee River	Lat 35°02'35", long 83°48'56", Clay County, at bridge on U. S. Highway 64, at Hayesville, 0.7 mile upstream from mouth.	1.12	1968-72	7-16-73	1.82
Town Creek 03547133	Hiwassee River	Lat 35°02'40", long 83°48'40", Clay County, 0.3 mile upstream from mouth, 0.4 mile southeast of Hayesville.	1.22	1968-72	7-16-73	1.89
Hiwassee River 03547233	Tennessee River	Lat 35°03'20", long 83°48'58", Clay County, at Sanderson Bridge, 0.2 mile upstream from Qualls Creek, 0.7 mile north of Hayesville.	198	1968-70	7-17-73	50.2
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	10-20-69 8-30-73	g42.3 h59.4
Fires Creek 03548080	Hiwassee River	Lat 35°04'38", long 83°51'53", Clay County, at bridge on Secondary Road 1300, 1.1 mile upstream from mouth, and 3.3 miles northwest of Hayesville.	23.0	1944, 1953-55, 1962-66, 1968	10-20-69 8-30-73	g13.8 h20.1
Brasstown Creek 03548243	Hiwassee River	Lat 34°59'17", long 83°53'42", Clay County, at bridge on Secondary Road 1111, 0.1 mile north of North Carolina-Georgia State line, and 0.5 mile southwest of Warne.		1969-70	7-17-73	67.8
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	8-30-73	h15.1

† Operated as a continuous gaging station.

g Measured by TVA, not previously published.

h Measured by TVA.

Discharge measurements made at miscellaneous sites during water year 1973, in Ohio River basin--Continued

Discharge measurements made at miscellaneous sites during water year 1973, 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						
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	7-15-66 8-30-73	g6.46 h7.90
Junaluska Creek 03549249	Valley River	Lat 35°11'45", long 83°48'09", Cherokee County, at bridge on U. S. Highway 19, 0.9 mile upstream from mouth, and 1.3 miles southeast of Andrews.	8.31	1944, 1953-55, 1962-63, 1966	7-15-66 9-11-68 10-28-69 8-29-73	g6.19 g5.80 g6.0 h9.29
Valley River 03549583	Hiwassee River	Lat 35°12'10", long 83°50'27", Cherokee County, at bridge on U. S. Highway 19, 0.2 mile upstream from Webb Creek, and 0.9 mile west of Andrews.	49.4	1968-70	7-17-73	86.4
Valley River 03549637	Hiwassee River	Lat 35°10'54", long 83°53'28", Cherokee County, 0.1 mile upstream from Taylor Creek, and 0.5 mile south of Coalville.	62.6	1968, 1970	8-22-73	70.3
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 north-east of Marble, and 0.5 mile upstream from mouth.	7.28	1944, 1951-55, 1961-65	10-18-55 2-13-61 10-21-61 5- 7-62 5- 9-62 8-22-62 9- 9-63 9- 8-64 10-28-69 8-29-73	2.5 *18.0 f6.14 *20.8 20.4 7.17 6.93 6.63 g5.9 h14.4
Valley River 03550132	Hiwassee River	Lat 35°05'34", long 84°02'20", Cherokee County, at bridge on Joe Brown Highway at Murphy, and 0.1 mile upstream from mouth.	117	1968-70	7-17-73	259
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 below Copper Creek, and 0.4 mile southeast of Unaka.	21.7	1944, 1953, 1963-66, 1968	10-29-69 8-28-73	g12.5 h29.9
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	11-16-65 7-19-66 9-10-68 10-29-69 8-28-73	g3.33 g4.57 g3.59 g3.70 h7.73

g Measured by TVA, not previously published.

h Measured by TVA.

	Page		Page
Abbotts Creek at Kernersville.....	219	Bent Creek at Bent Creek.....	242
at Pineview Drive at Kernersville.....	219	Bessemer Branch near Bessemer City.....	233
at Secondary Road 2632 near Kernersville.....	219	Bessemer City, Long Creek near.....	132
near Holly Grove.....	219	Bethel, Conetoe Creek near.....	43
Aberdeen Creek at Aberdeen.....	225	Big Alamance Creek, at Alamance.....	205
near Pine Bluff.....	225	at Bellemont.....	205
near Pinehurst.....	225	at Secondary Road 3077 near Sedalia.....	205
Abernathy Creek at Mountain View.....	233	at State Highway 87 near Bellemont.....	205
Accuracy of data.....	11-12	below SEO near Vandalia.....	205
Acre-foot, definition of.....	4	near Elon College.....	73
All Healing Springs, Lower Little River near.....	127	near Vandalia.....	204
Ahoskie Creek, at Ahoskie.....	21	Big Bear Creek near Richfield.....	116
at Bethlehem.....	193	Big Branch near Garner.....	199
at Minton's Store.....	20	Big Buffalo Creek, at Secondary Road 1100 near Sanford..	209
near Rich Square.....	19	near Colon.....	209
tributary at Poor Town.....	22	near Cummock.....	209
Allen Creek at Hazelwood.....	243	Big Foot Branch below SEO near Clarkton.....	213
Appalachia Lake, change in contents in.....	187	Big Shoe Heel Creek, at Maxton.....	224
Ararat River at Ararat.....	106	near Maxton.....	224
at Dam No. 1, near Mt. Airy.....	215	near Raemon.....	225
at Mt. Airy.....	214	Big Swamp (tributary to Lumber River), near	
at U.S. 62 bypass near Mt. Airy.....	214	Bladenboro.....	226
near Salem.....	214	near Richardson.....	226
Armstrong Creek at Sevier.....	227	near Tarheel.....	226
at State Highway 226 near Sevier.....	227	Big Swamp (Cape Fear River basin) near Roseboro.....	191
near Sevier.....	227	Biltmore, Swannanoa River at.....	161
Asheville, French Broad River at.....	162	Birdtown, Oconaluftee River at.....	181
Atwood, Salem Creek near.....	109	Black Creek (tributary to Contentnea Creek), at	
Aycock Swamp near Fremont.....	202	Black Creek.....	202
		near Lucama.....	202
Back Creek (Pee Dee River basin), below SEO at		tributary at Lucama.....	202
Harrisburg.....	221	tributary near Lucama.....	202
Back Creek (tributary to North Second Creek), near		Black Creek (tributary to Neuse River) near Willow	
Barber.....	217	Springs.....	200
Back Creek (tributary to Haw River) near Mebane.....	204	Black River, at Dunn.....	211
Badin Lake, change in contents in.....	119,146	near Barclaysville.....	211
Bahama, Flat River at.....	48	near Tomahawk.....	92
Bailey Branch at Bailey.....	201	Blackwood Creek, near Gastonia.....	233
Bakers Creek near Conover.....	230	tributary near Gastonia.....	233
Ball Creek at Secondary Road 1831 near Catawba.....	230	Blair Fork, at Lenoir.....	228
Banjo Branch, at Forest Street at Mars Hill.....	243	near Lenoir.....	228
at Mars Hill.....	243	Blantyre, French Broad River at.....	155
Banner Elk Creek near Banner Elk.....	245	Bleachers Creek at Secondary Road 1119 near Kannapolis.	221
Basal Creek, at State Highway 50 near Fuquay-Varina.....	200	Blewett Falls Lake, change in contents in.....	119,147
downstream from Bass Lake near Fuquay-Varina.....	200	Boardman, Lumber River at.....	121
Bat Fork Creek near East Flat Rock.....	242	Boiling Springs, Broad River near.....	143
Bear Creek (tributary to South Yadkin River), at Center..	217	Boiling Springs, Sugar Branch near.....	145
at Mocksville.....	217	Bolicks Dry Creek near Hickory.....	231
Bear Creek (tributary to Deep River), above SEO at		Booker Creek at Secondary Road 1751 near Chapel Hill..	206
Seagrove.....	208	Boone Creek, at State Highway 105 at Boone.....	240
at Secondary Road 2859 near Seagrove.....	208	at U.S. Highway 421 at Boone.....	240
at State Highway 705 at Robbins.....	208	Brandy Creek, at Secondary Road 1132 near Youngsville..	194
at State Highway 705 at Seagrove.....	208	at U.S. 1A near Youngsville.....	194
near Spies.....	208	near Franklinton.....	194
Bear Creek Lake.....	178,188	tributary No. 1 at Secondary Road 1132 near	
Bearskin Creek, at Hayne St. in Monroe.....	223	Youngsville.....	194
at Monroe.....	223	Brasstown Creek near Warne.....	246
at Secondary Road 1007 near Bakers.....	223	Brevard, Davidson River near.....	153
near Monroe.....	223	Briar Creek, at Sharon Road, Charlotte.....	134
Beason Creek, at Kings Mountain.....	239	Briar Creek, at Secondary Road 2935 (The Plaza Road)	
below SEO near Kings Mountain.....	239	at Charlotte.....	235
near Sandy Plains.....	239	near Charlotte.....	235
Beaver Creek, at Bonnie Doone.....	210	Bridge Creek near McArthur Crossroads.....	224
at Cumberland.....	211	Bridge Creek tributary at Johns.....	172
near Cumberland.....	211	Broad River, at Hydro. Sta. at Lake Lure.....	236
tributary at U.S. Highway 401 near Skibo.....	211	at Uree.....	236
Beaverdam Branch, at culvert on U.S. 17 near Pine Hall..	212	near Boiling Springs.....	143
near Rose Hill.....	212	near Earl.....	238
Beaverdam Creek (tributary to South Fork Catawba River),		near Rutherfordton.....	236
at Kenwood Avenue at Cherryville.....	232	Brown Marsh Swamp, at Secondary Road 1700 near	
near Cherryville.....	232	Bluefield.....	213
Beaverdam Creek (tributary to Hiwassee River) at Unaka..	247	at U.S. 701 near Clarkton.....	213
Beaverdam Creek (tributary to First Broad River), near		Browns Creek near Elizabethtown.....	191
Lattimore.....	238	Brush Fork, at U.S. Highway 52 near Wadesboro.....	224
tributary 1 near Lattimore.....	238	near Wadesboro.....	224
East Fork, near Shelby.....	238	Brushy Creek (tributary to First Broad River), at	
Beaverdam Creek (tributary to Neuse River basin) near		Ora Mill near Shelby.....	238
Pineconetown.....	201	at U.S. 74 near Shelby.....	238
Beaverdam Creek (tributary to Pee Dee River basin) tri-		at Washburn.....	238
butary below SEO near Cleveland.....	217	near Washburn.....	238
Beech Branch, at Secondary Road 1524 near Drake.....	195	Brushy Creek (Yadkin River basin) tributary No. 2 at	
at U.S. 301 near Battleboro.....	195	Winston-Salem.....	191
near Battleboro.....	195	Bryant Swamp, near Butters.....	226
Beech Creek at Beech Creek.....	245	near Richardson.....	226
Beetree Creek near Swannanoa.....	160	Bryson City, Tuckasegee River at.....	182
Beetree Reservoir.....	187	Buckhead Creek, at Owens.....	211
Bennetts Creek near Gatesville.....	193	at Secondary Road 1222 near Owens.....	211
Bent Creek, French Broad River at.....	158	Buckhorn Creek, near Corinth.....	84,85

	Page		Page
Buckhorn Creek--Continued		Catheys Creek, below SEO near Spindale.....	237
tributary No. 1 near Corinth.....	209	near Forest City.....	237
tributary No. 2 near Corinth.....	209	near Gilkey.....	237
Buckhorn Reservoir.....	148	tributary below SEO near Gilkey.....	237
Buffalo Creek, (Neuse River basin) above Lake Wendell....	201	Cattail Branch, at Middlesex.....	201
at Poole Road near Wendell.....	201	at Secondary Road 1119 at Middlesex.....	201
Buffalo Creek (tributary to Dutchman Creek) at Secondary		Cedar Cliff Lake.....	180,188
Road 1600 at Cornatzer.....	216	Cedar Creek, at Franklinton.....	194
Buffalo Creek (tributary to Broad River) below SEO near		near Franklinton.....	194
Shelby.....	239	near Louisburg.....	35
near Grover.....	239	Cedar Mountain, Little River above High Falls near.....	154
near Shelby.....	238	Celo, South Toe River near.....	171
Buffalo Creek (tributary to Reedy Fork) near McLeansville.	204	Cis-lay, definition of.....	4
Buffalo Creek (tributary to Yadkin River) near Yadkin		Charlotte, Briar Creek at Sharon Road.....	134
Valley.....	213	Irwin Creek near.....	133
Burdens Creek, at Secondary Road 2028 near Lowes Grove...	207	Little Sugar Creek near.....	135
below SEO near Nelson.....	207	McAlpine Creek at Sardis Road near.....	136
near Lowes Grove.....	207	McMullen Creek at Sharon View Road near.....	137
Burgaw Creek, at Secondary Road 1345 at Burgaw.....	213	Chattooga River, at Cashiers.....	239
at Secondary Road 1411 at Walkers.....	213	near Highlands.....	239
at U. S. Highway 117 near Burgaw.....	213	Chatuge Lake, change in contents in.....	183,187
Burnett Lake.....	161,187	Cheoah Lake.....	188
Burnt Coat Swamp, at Enfield.....	195	Chetola Lake at Spillway at Blowing Rock.....	240
near Enfield.....	195	Chinquapin, Northeast Cape Fear River near.....	95
Buttermilk Creek below SEO near Stonycreek.....	204	Chowan River basin, gaging-stations in.....	18-22
Butterwood Creek, at Littleton.....	195	measurements at miscellaneous sites in.....	193
near Littleton.....	195	Clark Creek, at Lincolnton.....	238
Buzzard Branch at East Fayetteville.....	210	at Maiden.....	232
Bynums Mill Run, at Macclesfield.....	195	near Conover.....	231
near Macclesfield.....	196	near Hickory.....	231
		near Lincolnton.....	232
Caler Fork, at Secondary Road 1343 near Wests Mill.....	246	near Maiden.....	232
near Wests Mill.....	246	near Newton.....	232
Calico, Creeping Swamp near.....	63	Clarke Creek, North Prong, near Huntersville.....	192
Camp Creek (tributary to Green River) at Secondary Road		Clarks Creek near Troy.....	220
1006 at Saluda.....	236	Clayton, Middle Creek near.....	53
Campbell Creek at Secondary Road 3156 near Alexander's		Neuse River near.....	51
Store.....	235	Cleghorn Creek, about SEO at Rutherfordton.....	236
Canal Creek at Scotland Neck.....	195	below U. S. 221 near Rutherfordton.....	236
Candler, Hominy Creek at.....	159	Clemmons, South Fork Muddy Creek near.....	111
Cane Branch below SEO near Mt. Airy.....	215	Cliffside, Second Broad River at.....	142
Cane Creek (tributary to North Toe River), at Bakersville		Cline Creek, near Conover.....	231
Sewage Plant.....	244	tributary near Hickory.....	231
near Bakersville.....	244	tributary 1 mile upstream from mouth near Hickory...	231
Cane Creek (Cape Fear River basin) near Teer.....	74	Cobb Creek at Jonesville.....	214
Cane River at Burnsville.....	244	Coddle Creek near Concord.....	221
Canton, East Fork Pigeon River near.....	167	Cody Creek near Dobson.....	214
Canton, Pigeon River at.....	168	Coffey Creek near Charlotte.....	234
Cartoogechaye Creek, at Secondary Road 1146 near		Coharie Creek tributary near Garland.....	211
Franklin.....	245	Coldwater Creek tributary near China Grove.....	222
at Secondary Road 1148 near Branklin.....	245	Coles Branch 2.4 miles upstream from mouth at Cary.....	198
near Cartoogechaye.....	245	Collection and computation of data.....	6-11
near Franklin.....	134	Colly Creek, at Bevans Bridge near White Lake.....	212
Cape Fear River, at Lillington.....	86	near White Lake.....	212
at Lock 1 near Kelly.....	89	Collie Swamp near Everetts.....	190
at William O. Huske Lock near Tarheel.....	88	Computations, accuracy of results of.....	11-12
Cape Fear River basin, crest-stage partial-record		Conetoe Creek near Bethel.....	43
stations in.....	191	Connelly Creek, at Hudson.....	229
gaging-station records in.....	69-96	near Hudson.....	229
lakes and reservoirs in.....	148	Conover Branch at Conover.....	231
low-flow partial-record stations in.....	189	Contentnea Creek, at Hookerton.....	61
measurements at miscellaneous sites in.....	203-213	at State Highway 222 at Stantonsburg.....	202
Carvers Creek, at Secondary Road 1658 near Slocomb.....	210	at U. S. Highway 258 at Snow Hill.....	202
below Carvers Creek Falls below Slocomb.....	210	near Evansdale.....	202
tributary No. 1 at U. S. Highway 401 near Slocomb.....	210	near Hugo.....	202
tributary No. 2 at U. S. Highway 401 near Slocomb.....	210	near Lucama.....	58
Cary Creek, at Hollemans Crossroads.....	189	near Stantonsburg.....	202
near Corinth.....	189	Contents, definition of.....	4
tributary at Burt.....	189	Control, definition of.....	4
tributary near Burt.....	189	Conversion factors from English units to Metric units...	15
Casar, First Broad River near.....	144	Coon Creek near Franklin.....	192
Catalochee Creek, above Caldwell Fork near Cove Creek....	243	Cooperation, record of.....	3
near Catalochee.....	170	Copeland, Fisher River near.....	105
Catawba River, at I-40 near Old Fort.....	226	Corinth, Buckhorn Creek near.....	84-85
at Morganton.....	228	County Home Branch at Secondary Road 2100 near	
at Old Fort.....	226	Graham.....	204
below SEO near Old Fort.....	226	Cove Creek (Tennessee River basin), at Amantha.....	245
near Marion.....	123	at Sugar Grove.....	245
near Pleasant Gardens.....	226	Cove Creek (Santee River basin), near Lake Lure.....	139
tributary near Marion.....	227	near Saluda.....	236
tributary No. 2 at Old Fort.....	226	Cowee Creek near Wests Mill.....	246
tributary No. 3 at Marion.....	227	Cox Branch below SEO near Spindale.....	237
North Fork, at Sevier.....	227	Crabtree Creek, at I-40 near Cary.....	198
North Fork, at Secondary Road 1552 near Hankins.....	227	at Morrisville.....	198
North Fork, below Limekiln Creek at Sevier.....	227	at Secondary Road 1615 near Cary.....	199
South Fork, near Lincolnton.....	231	at Secondary Road 1664 near Raleigh.....	199
South Fork, tributary No. 2 above SEO near McAdenville.	233	at Secondary Road 1670 near Raleigh.....	199
South Fork, tributary No. 2 below SEO near		at Secondary Road 1808 near Raleigh.....	199
McAdenville.....	233	at Secondary Road 2030 near Raleigh.....	199

	Page		Page
Crabtree Creek--Continued		Eden, Smith River at.....	25
at U.S. Highway 1 at Raleigh.....	199	Edward, Durham Creek at.....	45
at U.S. Highway 64 near Raleigh.....	199	Effluent Ditch to Lake Branch near Nelson.....	207
Cranberry Creek, at Cranberry.....	245	Elisha Creek, at Secondary Road 1403 at Maine.....	216
near Elk Park.....	245	near Mocksville.....	216
Crane Creek, at Secondary Road 1002 near East Spencer.....	219	Elk Creek at Elkinville.....	99
near Granite Quarry.....	219	Elk River, at Banner Elk.....	245
Creeping Swamp, near Calico.....	63	near Elk Park.....	245
near Vanceboro.....	64	Elkin, Yadkin River at.....	103
Crowders Creek, at Secondary Road 1103 near Gastonia.....	234	Elkin River, at Elkin.....	191
at State Highway 152 near Clover, S. C.....	234	at Memorial Park at Elkin.....	214
at State Line near Gastonia.....	234	at Secondary Road 2044 near West Elkin.....	214
near Bessemer City.....	233	Elkville, Elk Creek at.....	99
near Bowling Green.....	234	Ellerbe Creek, below Goose Creek near Durham.....	197
near Gastonia.....	234	near Gorman.....	197
near Kings Mountain.....	233	Elon College, Big Alamance Creek near.....	73
tributary near Gastonia.....	234	Enfield, Fishing Creek near.....	41
tributary No. 2 at Crowders.....	234	Eno River, at Secondary Road 1003 near Durham.....	196
Cub Creek at Secondary Road 2460 at Wilkesboro.....	213	at Secondary Road 1403 near Huckleberry Springs.....	196
Cubic feet per second per square mile, definition of.....	4	at Secondary Road 1561 near Hillsborough.....	196
Cubic foot per second, definition of.....	4	at Secondary Road 1568 near University.....	196
Curtail Creek, above SEO at Misenheimer.....	220	at U.S. Highway 70 near Hillsborough.....	196
at Misenheimer.....	220	at U.S. Highway 86 at Hillsborough.....	196
below SEO at Misenheimer.....	220	near Durham.....	46
Curtis Creek, at I-40 near Old Fort.....	226	near Huckleberry Spring.....	196
near Old Fort.....	226	near Schley.....	196
		near University.....	196
		near Weaver.....	197
Dalton, Little Yadkin River at.....	107	Enon, Yadkin River at.....	108
Dan River, at Danbury.....	193	Eureka, Turner Swamp near.....	59
at State Highway 89 near Moores Springs.....	193	Explanation of surface water data.....	6-13
below SEO near Asbury.....	193		
near Dodgetown.....	193		
near Francisco.....	23		
near Walnut Cove.....	193	Falling Creek (tributary to Catawba River), at	
near Wentworth.....	24	Secondary Road 1402 near Hickory.....	229
Data, accuracy of.....	11-12	near Hickory.....	229
collection and computation of.....	6-11	Falling Creek (Neuse River basin) near Dobbersville.....	200
other available.....	13-14	Falls Creek near Bennett.....	191
publications of.....	12-13	Falls, Neuse River near.....	50
Davidson River, at Pisgah Forest.....	241	Farmville, Little Contentnea Creek near.....	62
near Brevard.....	153	Fires Creek near Hayesville.....	246
Deep Creek near Scotland Neck.....	190,195	First Broad River, at Lawndale.....	238
Deep River, at Franklinville.....	208	at State Highway 150 near Shelby.....	238
at Gulf.....	209	near Casar.....	144
at Moncure.....	83	near Earl.....	238
at Ramseur.....	81	near Lawndale.....	192
at Randleman.....	80	near Metcalf.....	238
at Secondary Road 1129 near Jamestown.....	208	tributary No. 2 at Lawndale.....	238
at Secondary Road 1352 near Jamestown.....	207	First Creek near Bessemer City.....	233
at U.S. Highway 220 at Randleman.....	208	Fisher River, at Secondary Road 2222 near Dobson.....	214
at Worthville.....	208	near Copeland.....	105
near Parks Crossroads.....	208	tributary above SEO at Dobson.....	214
East Fork, near High Point.....	79	tributary below SEO near Dobson.....	214
Dillard Creek, tributary below SEO near Ramlon.....	233	Fishing Creek, above SEO near Oxford.....	193
tributary near Duff St. at Ranlo.....	233	at Secondary Road 1001 near Warrenton.....	195
Dillsboro, Tuckasegee River at.....	180	at U.S. Highway 401 near Warrenton.....	195
Discharge, definition of.....	4	near Enfield.....	41
Discharge records collected by other agencies.....	14	near Warrenton.....	190
Dixon Branch near Croft.....	231	tributary above Southside SEO at Oxford.....	193
Dog Creek near Nathans Creek.....	240	tributary No. 2 at Oxford.....	193
Double Creek near Roseville.....	28	Fites Creek, tributary No. 2 at North Belmont.....	230
Downstream order.....	6	tributary No. 2 near North Belmont.....	230
Drainage area, definition of.....	4	Flat Creek near Inverness.....	87
Driving Branch near Benson.....	200	Flat River at Bahama.....	48
Drowning Creek (tributary to Catawba River), at Icard....	229	Fontana Lake, change in contents in.....	186
near Hildebran.....	229	Fork, Humpy Creek near.....	113
tributary near Hildebran.....	229	Fork Swamp at State Highway 102 near Ayden.....	202
tributary No. 2 near Icard.....	229	Forrest Creek, near Cedar Grove.....	197
tributary No. 2 near Penelope.....	229	near Schley.....	197
tributary No. 4 near Hildebran.....	229	Fourmile Creek, at State Highway 16 near Matthews.....	235
Drowning Creek (tributary to Lumber River), at Jackson		near Pineville.....	235
Springs.....	225	Fourth Creek, above SEO near Statesville.....	217
at Secondary Road 1142 near Samarcand.....	225	at Secondary Road 2316 near Vance.....	217
near Emery.....	225	at Secondary Road 2320 near Statesville.....	217
near Hoffman.....	120	Francisco, Dan River near.....	23
Durharts Creek, near Cramerton.....	233	Franklin, Cartoogechaye Creek near.....	174
tributary at Ranlo.....	233	Franklinton Branch near Franklinton.....	194
Durham Creek at Edward.....	45	Freeland, Waccamaw River at.....	97
Durham, Eno River near.....	46	French Broad River, at Asheville.....	162
Durham, Third Fork Creek at.....	76	at Bent Creek.....	158
Dutch Buffalo Creek, at Mount Pleasant.....	222	at Blantyre.....	155
near Mount Pleasant.....	222	at Calvert.....	241
Dutchmans Creek (Upper Pee Dee River basin) at Elkin.....	214	at Davidson River.....	241
Durchmans Creek (Pee Dee River basin), near Cornatzer....	216	at Dunns Rock.....	241
near Fork.....	216	at Horseshoe.....	241
Dye Branch, at Secondary Road 1142 near Mooresville.....	220	at Marshall.....	164
near Mooresville.....	220	at Penrose.....	241
		at Rosman.....	152
East Fork Lake.....	178,187	near Brickton.....	242
East Prong near Morganton.....	125	near Etowah.....	241
East Prong Slocum Creek near Cherry Point.....	203	near Fletcher.....	242

	Page		Page
French Broad River--Continued		Hickory Creek (tributary to First Broad River), at	
near Mills River.....	242	Shelby.....	238
tributary near Fletcher.....	242	tributary near Shelby.....	238
tributary to tributary No. 1 near Arden.....	242	Hickory Creek tributary (Cape Fear River basin) at	
West Fork, at Rosman.....	241	Secondary Road 1132 near Groomtown.....	208
West Fork, near Rosman.....	241	High Point, East Fork Deep River near.....	79
Fry Creek at Hickory.....	229	High Point, Municipal Lake.....	80,148
		High Rock Lake, change in contents in.....	119,146
Gabriel Creek, at Mars Hill.....	243	Hilliardston, Swift Creek at.....	39
near Mars Hill.....	243	Hiwassee Lake, change in contents in.....	187
Gage-height, definition of.....	5	Hiwassee River, above Murphy.....	184
Gaging-station, definition of.....	5	at Hayesville.....	246
Galloway Creek, above SEO near Calvert.....	241	below Chatuge Dam near Hayesville.....	183
below SEO near Calvert.....	241	Hoffman, Drowning Creek near.....	120
Gasters Creek, at Secondary Road 1132 near Sanford.....	209	Holland Creek at Ruth.....	237
near Sanford.....	209	Hominy Creek, at Asheville.....	242
Gibsonville, Reedy Fork near.....	70	at Candler.....	159
Glade Creek at Millersville.....	230	below Enka Plant near Candler.....	242
Goldsboro, Neuse River near.....	56	tributary at Luther.....	242
Goose Creek at Secondary Road 1524 near Mint Hill.....	222	tributary near Jugtown.....	242
Goshen Swamp, at Faison.....	212	Hominy Swamp, at Secondary Road 1321 at Wilson.....	201
near Faison.....	212	at U. S. 264A at Wilson.....	201
tributary at State Highway 50 at Faison.....	212	near Evansdale.....	201
Grants Creek, at Secondary Road 1516 near Salisbury.....	218	Hood Creek near Leland.....	90
at Spencer.....	218	Hookerton, Contentnea Creek at.....	61
above SEO near China Grove.....	218	Horse Creek near Vina Vista.....	225
at U. S. Highway 601 near Salisbury.....	218	Horsepasture River near Sapphire.....	239
below SEO at Rowan Mills.....	218	Housers Branch tributary below SEO near Raulo.....	233
near China Grove.....	218	Howard Creek (Kanawha River basin) near Boone.....	240
South Branch, at State Highway 52 at China Grove.....	218	Howard Creek (Santee River basin), near Drexel.....	228
South Branch tributary at Secondary Road 1210 at		near Morganton.....	228
Landis.....	217	Hoyle Creek (tributary to Catawba River), above SEO	
tributary 2 below SEO near Salisbury.....	218	near Valdeese.....	229
Grassy Creek (tributary to Mill Creek) below SEO at		at Secondary Road 1546 near Valdeese.....	229
Stanleyville.....	215	Hoyle Creek (tributary to South Fork Catawba River)	
Grassy Creek (tributary to North Toe River), near Alta-		near Dallas.....	232
pass.....	244	Hunting Creek (Santee River basin), above SEO near	
near Spruce Pine.....	244	Morganton.....	228
Greasy Creek near Hiddenite.....	216	at Morganton.....	192
Great Coharie Creek, at Clinton.....	211	below SEO near Morganton.....	228
at Secondary Road 1311 near Clinton.....	211	Hunting Creek (Pee Dee River basin) near Harmony.....	115
Green River, near Green River.....	237	Humpy Creek near Fork.....	113
near Saluda.....	140,141	Hyatt Creek at U. S. 19 at Marble.....	247
Greensboro, North Buffalo Creek near.....	71	Hybarts Branch, at Morganton Road at Fayetteville.....	210
Grindle Creek at State Highway 11 at Bethel.....	196	near Bonnie Doone.....	210
Gum Branch, at Secondary Road 1785 near Thrift.....	231	Hycoc Lake, change in contents in.....	31,146
below SEO near Elon College.....	205	Hycoc River at McGehees Mill.....	31
near Thrift.....	231	Hycoc Creek near Leasburg.....	27
Gum Branch, New River near.....	68	Hydrologic bench-mark station, definition of.....	5
Gum Swamp Creek near Old Hundred.....	224	Hydrologic conditions.....	2
Gun Branch near Alamance.....	191		
Gunpowder Creek, at Secondary Road 1181 at Whitnel.....	229	Indian Creek near Crouse.....	232
near Hudson.....	229	near Laboratory.....	131
		Introduction.....	1
Halfmoon Creek near Fort Barnwell.....	190	Inverness, Flat Creek near.....	87
Hamby Creek, at Secondary Road 2085 near Thomasville.....	219	Irish Buffalo Creek, at Kannapolis.....	221
near Fair Grove.....	219	at Secondary Road 1124 near Kannapolis.....	221
Hanks Branch, at Secondary Road 1627 near Archdale.....	219	at Secondary Road 1394 near Concord.....	221
at Secondary Road 1770 near Thomasville.....	219	at Secondary Road 1609 near Kannapolis.....	221
near Alaska.....	200	at State Highway 49 near Concord.....	221
Hardy Creek tributary near Cottonville.....	224	near Concord.....	221
Harmony, Hunting Creek near.....	115	tributary at Secondary Road 1100 at Kannapolis.....	221
Harveys Branch, above SEO near Nelson.....	207	tributary at Secondary Road 1109 near Kannapolis.....	221
below SEO near Nelson.....	207	Irwin Creek, at Remount Road Charlotte.....	234
Haskett Creek, at Central Falls.....	208	at State Highway 16 at Charlotte.....	234
below Penwood Branch near Asheboro.....	208	at U.S. Highway 21 at Charlotte.....	234
Hattels Branch, at State Highway 96 at Youngsville.....	198	at U.S. Highway 74 near Matthews.....	235
at U.S. 1A near Youngsville.....	198	at West Blvd. at Charlotte.....	234
Haw River, at Altamahaw.....	203	near Charlotte.....	133
at Haw River.....	72	tributary at State Highway 49 at Charlotte.....	234
at Hopedale.....	204	Ivy River near Marshall.....	163
at Secondary Road 1545 at Terrells.....	205		
at Secondary Road 2109 near Oak Ridge.....	203	Jacob Fork at Ramsey.....	130
near Altamahaw.....	203	Jacob Swamp at Secondary Road 2289 near Lumberton.....	225
near Graham.....	204	Jacobs Creek near Wentworth.....	190
near Haywood.....	78	Jake Creek, at Pleasant Gardens.....	226
near Oak Ridge.....	203	near Pleasant Gardens.....	226
near Oasipee.....	203	Jefferson, South Fork New River near.....	151
near Pittsboro.....	75	Jericho Run tributary at Harveytown.....	201
Hayesville, Hiwassee River below Chatuge Dam near.....	183	Joel Creek near Brevard.....	241
Haywood, Haw River near.....	78	Joes Fork near Eastwood.....	209
Hazelwood, West Fork Pigeon River above Lake Logan near.....	165	Johns River, near Collettsville.....	228
Heatherly Creek, at Pilot Mountain.....	215	downstream from Hopewell Branch.....	228
at U. S. Highway 52 near Pilot Mountain.....	215	Johnson Creek at Secondary Road 1103 at Clemmons.....	215
Hendricks Creek at Spring Hope.....	194	Jordan Creek, near Horner.....	193
Henry Fork, near Henry River.....	129	near Kinton Forks.....	193
near Startown.....	231	Junaluska Creek near Andrews.....	247
Henry River, Henry Fork near.....	129		
Hepco, Pigeon River near.....	169	Kanawha River basin, gaging-station records in.....	151
Herring Run near Washington.....	44		

	Page		Page
Kanawha River basin,--Continued		Lake Townsend.....	70,148
measurements at miscellaneous sites.....	240	Lake Toxaway.....	148
Kelly, Cape Fear River at Lock 1 near.....	89	Lake Walters.....	186
Kenly, Little River near.....	54	Lake Wheeler.....	51,148
Kennedy Branch at Charlotte.....	234	Lake Branch, at State Highway 54 near Nelson.....	207
Kenneth Branch near Chalybeate.....	209	below SEO near Nelson.....	207
Kerr, John H., Reservoir.....	32	Lance Creek near Blowing Rock.....	245
Killetts Creek, at Secondary Road 1240 near Carthage.....	208	Lanes Creek at Secondary Road 1900 near Marshville.....	224
near Carthage.....	209	Langs Mill Run at Fountain.....	202
King Creek, at Brevard.....	241	Leak Creek below SEO near Union Ridge.....	216
at U.S. Highway 64 at Brevard.....	241	Leasburg, Hyco Creek near.....	27
Kings Branch near Charlotte.....	234	Ledge Creek at Secondary Road 1110 near Creedmoor.....	197
Kings Creek at U.S. Highway 29 at Kings Mountain.....	239	Lee Creek, near Elk Mountain.....	243
Kinston, Neuse River near.....	57	near Emma.....	243
Knap of Reeds Creek, at Secondary Road 1120 near Butner.....	197	near Enka.....	243
below Butner.....	197	Lee Swamp tributary at Lucama.....	202
Laboratory, Indian Creek near.....	131	Leith Creek, near Johns.....	224
Lakes and reservoirs:		near Maxton.....	224
Ohio River basin.....	186-188	tributary near Laurinburg.....	224
Appalachia Lake, change in contents in.....	187	Leland, Hood Creek near.....	90
Bear Creek Lake.....	178,188	Lenoir, Lower Creek at Mulberry Street at.....	126
Beetree Reservoir.....	187	Leonards Creek below SEO near Mocksville.....	216
Burnett Lake.....	161,187	Lexington-Thomasville Reservoir.....	148
Cedar Cliff Lake.....	178,188	Lick Branch below SEO near Marshville.....	228
Chatuge Lake, change in contents in.....	183,187	Lick Creek, at State Highway 8 at Healing Springs.....	220
Cheoah Lake.....	188	tributary above SEO at Denton.....	220
East Fork Lake.....	178,187	tributary below SEO near Denton.....	220
Fontana Lake, change in contents in.....	186	Lick Fork above County Line near Cherryville.....	232
Hiwassee Lake, change in contents in.....	187	Licks Creek, at Morrisville.....	198
Julian, Lake.....	187	near Morrisville.....	198
Junaluska, Lake.....	187	Lillington, Cape Fear River at.....	86
Logan, Lake.....	166,187	Limekiln Creek, at mouth at Sevier.....	227
Nantahala Lake, change in contents in.....	177,186	at Sevier.....	227
Queens Creek Lake.....	178	Linville River, at Secondary Road 1349 at Linville.....	227
Santeetlah Lake, change in contents in.....	186	at State Highway 105 at Linville.....	227
Sequoyah Lake.....	187	near Crossnore.....	227
Tennessee Creek Project lakes.....	187	near Nebo.....	124
Thorpe Reservoir, change in contents in.....	178,186	near Pineola.....	227
Walters, Lake, change in contents in.....	186	Little Bear Creek, at Saint Martin.....	222
Wolf Creek Lake.....	178,187	near Hills.....	222
South Atlantic Slope basins.....	146-150	Little Buffalo Creek, at Second St., West Jefferson.....	240
Badin Lake, change in contents in.....	119,146	at State Highway 88, West Jefferson.....	240
Benson, Lake.....	51,148	Little Coharie Creek, at State Highway 242 near	
Blewett Falls Lake, change in contents in.....	119,147	Roseboro.....	211
Brandt, Lake.....	70,148	near Roseboro.....	91
Buckhorn Reservoir.....	148	near Salemburg.....	211
Burlington, Lake.....	72,148	Little Contentnea Creek, near Farmville.....	62
Gaston, Lake, change in contents in.....	32,146	tributary near Walstonburg.....	202
Hickory, Lake, change in contents.....	150	Little Creek (Yadkin River basin), above SEO at Frontis.	215
Higgins, Lake.....	70,148	below SEO at Atwood.....	215
High Point Municipal Lake.....	80,148	Little Creek (Cape Fear River basin), above SEO near	
High Rock Lake, change in contents in.....	119,146	Gibsonville.....	205
Hyco Lake, change in contents in.....	31,146	near Gibsonville.....	205
James, Lake, change in contents in.....	147	Little Creek (tributary to Swift Creek) at	
Johnson, Lake.....	51,148	Clayton.....	200
Kerr, John H., Reservoir.....	32	below Clayton.....	200
Lexington-Thomasville Reservoir.....	148	Little Creek (tributary to New Hope Creek), near	
Lookout Shoals Lake, change in contents in.....	147	Blackwood.....	206
Michie, Lake, change in contents in.....	49,146	tributary near Blackwood Station.....	206
Mountain Island Lake, change in contents in.....	148	Little Dan River above SEO near Asbury.....	193
Norman, Lake, change in contents in.....	147	Little Falls Creek near Six Forks.....	198
Philpott Reservoir.....	25	Little Fishing Creek near White Oak.....	40
Raleigh, Lake.....	51,148	Little Lick Creek, at Secondary Road 1814 near Oak	
Rhodhiss Lake, change in contents in.....	147	Grove.....	197
Roanoke Rapids Lake, change in contents in.....	32,146	at State Highway 98 at Oak Grove.....	197
Scott, W Kerr, Reservoir, change in contents in.....	101,146	near Redwood.....	197
Stony Creek Reservoir.....	72,148	Little Long Creek (Santee River basin), at Secondary	
Talbot Reservoir, change in contents in.....	23,146	Road 1008 near Dallas.....	233
Tillery, Lake, change in contents in.....	119,147	near Dallas.....	233
Townes Reservoir, change in contents in.....	23,146	Little Long Creek (Foe Dee River basin) at Secondary	
Townsend, Lake.....	70,148	Road 1903 near Albemarle.....	222
Toxaway, Lake.....	148	Little Marsh Swamp near St. Pauls.....	226
Tuckertown Reservoir, change in contents in.....	119,146	Little Mountain Creek below SEO near Badin.....	220
Wheeler, Lake.....	51,148	Little Mud Creek near Flat Rock.....	242
Lake Benson.....	51,148	Little Raft Swamp, at Watson Pond near Red Springs.....	225
Lake Brandt.....	70,148	near Shannon.....	225
Lake Burlington.....	72,148	Little River (tributary to French Broad River) above	
Lake Gaston, change in contents in.....	32,146	High Falls near Cedar Mountain.....	154
Lake Hickory, change in contents in.....	147	Little River (tributary to Cape Fear River), at	
Lake Higgins.....	70,148	Manchester.....	210
Lake Hyco, change in contents in.....	31,146	at State Highway 210 near Manchester.....	210
Lake James, change in contents in.....	147	Little River (tributary to Neuse River), at Secondary	
Lake Johnson.....	51,148	Road 1002 near Princeton.....	201
Lake Junaluska.....	187	near Kenly.....	54
Lake Logan.....	166,187	near Princeton.....	55
Lake Lure, Cove Creek near.....	139	Little River (Kanawha River basin), at Secondary Road	
Lake Michie, change in contents in.....	49,146	1424 near Sparta.....	241
Lake Norman, change in contents in.....	147	at Sparta.....	241
Lake Raleigh.....	51,148	Little River (tributary to Eno River), near Orange	
Lake Tillery, change in contents in.....	119,147	Factory.....	47
		North Fork tributary near Rougemont.....	190

	Page		Page
Little River (tributary to Pee Dee River), near Star.....	118	McIntyre Creek, near Charlotte.....	231
near Troy.....	224	near Derita.....	231
Little Rockfish Creek (Upper Cape Fear River basin), at		McKee Creek at Secondary Road 2808 near Wilgrove.....	221
Secondary Road 1131 near Hope Mills.....	211	McLin Creek, at Conover.....	230
at Secondary Road 1132 at Hope Mills.....	211	near Claremont.....	230
below Cumberland.....	211	near Newton.....	230
Little Rockfish Creek (Northeast Cape Fear River basin)		McMullen Creek, at Randolph Road at Charlotte.....	235
near Tin City.....	213	at Sharon View Road near Charlotte.....	137
Little Sugar Creek, at Secondary Road 3657 near Pine-		at State Highway 16 at Charlotte.....	235
ville.....	235	near Hebron.....	235
at Secondary Road 3814 at Charlotte.....	235	near Pineville.....	235
near Charlotte.....	135	Maiden Creek, at Cotton Factory.....	232
near Pineville.....	235	at W. Main St. at Maiden.....	232
Little Tennessee River, at Dillard.....	245	Mallard Creek at Harrisburg.....	221
at Iotla.....	246	Mango Creek at Secondary Road 2516 near Knightdale....	198
at Needmore.....	175	Maple Creek, below Quarry near Rocky Mount.....	194
near Norton.....	245	near Rocky Mount.....	194
near Prentiss.....	173	Maps showing location of gaging stations.....	16-17
Little Whiteoak Creek near Bonsal.....	189	Marion, Catawba River near.....	123
Little Yadkin River at Dalton.....	107	Marsh Creek tributary near Millbrook.....	199
Long Creek (tributary to Mulberry Creek), above SEO near		Marsh Swamp near Oakland.....	226
North Wilkesboro.....	214	Marshall, French Broad River at.....	164
at Secondary Road 2334 near North Wilkesboro.....	214	Ivy River near.....	163
below SEO near North Wilkesboro.....	214	Martin Creek near Murphy.....	247
Long Creek (tributary to Rocky River), at Albemarle.....	222	Mathews Creek near Pink Hill.....	191
near Bloomington.....	222	Matrimony Creek near Eden.....	190
near Oakboro.....	222	Mauney Creek, near Stanley.....	232
Long Creek (tributary to South Fork Catawba River), at		tributary at Stanley.....	232
Dallas.....	232	Maxton Branch at Secondary Road 1323 near East	
at U.S. Highway 321 near Dallas.....	232	Laurinburg.....	224
near Bessemer City.....	132	Maxwell Creek at Secondary Road 1141 near Sutton.....	212
tributary No. 2 near West Gastonia.....	232	Meadow Branch, at Wingate.....	223
Long Creek (Pamlico River basin) at Kittrell.....	190	near Wingate.....	223
Long Creek (tributary to Cheoah River), at Milltown.....	246	tributary at Secondary Road 1631 near Wingate.....	223
at Robbinsville.....	246	Michael Branch, at Lexington.....	218
Long Creek (tributary to Catawba River) at State High-		at Secondary Road 1232 near Lexington.....	218
way 27, near Thrift.....	237	Middle Creek, at Durham and Southern Railroad near	
near Paw Creek.....	128	Apex.....	200
near Thrift.....	231	at Secondary Road 1152 near Apex.....	200
Long Creek (tributary to McLin Creek) near Conover.....	230	at Secondary Road 1301 near Holly Springs.....	200
Longview Creek at Secondary Road 1196 near Longview.....	231	near Apex.....	200
Lookout Shoals Lake, change in contents in.....	147	near Clayton.....	53
Louisburg, Cedar Creek near.....	35	Middle Fork South Fork New River, at U. S. Highway	
Tar River at.....	34	321 at Blowing Rock.....	240
Loves Creek, at mouth near Siler City.....	209	near Aho.....	240
below SEO near Siler City.....	209	Middle Swamp near Marlboro.....	202
Lovills Creek, at Mt. Airy.....	215	Mill Creek (Cape Fear River basin), above Crystal Lake	
at U.S. Highway 601 at Mt. Airy.....	215	dam near Vass.....	210
near Mt. Airy.....	215	near Skyline.....	210
Lower Creek, at Gamewell.....	228	Mill Creek (tributary to Catawba River) at Old Fort....	122
at Mulberry St at Lenoir.....	228	Mill Creek (tributary to Neuse River), at Secondary	
at Mulberry St. Lenoir.....	126	Road 1929 at Selma.....	200
at Secondary Road 1188 near Lenoir.....	228	at Selma.....	200
Lower Little River, near All Healing Springs.....	127	near Selma.....	200
near Millersville.....	230	Mill Creek (tributary to Cullasaja River), at U.S.	
Lucama, Contentnea Creek near.....	58	Highway 64 at Highlands.....	245
Lumber River, at Boardman.....	121	near Highlands.....	246
at Chippewa St at Lumberton.....	225	Mill Creek tributary (Pee Dee River basin) at Secondary	
at Daystrom.....	225	Road 1831 at Morven.....	224
at State Highway 72 at Lumberton.....	225	Mills River, near Mills River.....	157
at U.S. Highway 74 at Lumberton.....	225	North Fork below Mills River Recreation Area.....	242
near Lumberton.....	225	South Fork, at The Pink Beds.....	156
near Orrum.....	225	Mill Timber Creek, at Crossnore.....	227
Lyle Creek, at Catawba.....	230	at mouth at Crossnore.....	227
at Secondary Road 1441 near Conover.....	230	Miller Creek at Secondary Road 1107 near Magnolia.....	211
at Secondary Road 1491 near Conover.....	230	Mills Branch, at Banks.....	200
at Secondary Road 1709 near Conover.....	230	at Secondary Road 1390 near Banks.....	200
at Secondary Road 1716 near Claremont.....	230	Mine Fork Creek near Day Book.....	244
near Conover.....	230	Mingo Swamp, at State Highway 55 near Dunn.....	212
McAlpine Creek, at North Carolina-South Carolina State		near Dunn.....	212
Line near Pineville.....	236	Mintons Store, Ahoskie Creek at.....	20
at Sardis Road near Charlotte.....	136	Mitchell River near State Road.....	104
at State Highway 51 near Charlotte.....	235	Mitchell Swamp near Rowland.....	225
near Matthews.....	235	Moadam Creek, above SEO near Mebane.....	204
near Mint Hill.....	235	near Mebane.....	204
near Pineville.....	236	Moccasin Creek near Middlesex.....	201
McClelland Creek near Statesville.....	191	Mocksville, South Yadkin River near.....	114
McDeeds Creek, above SEO at Southern Pines.....	209	Moncure, Deep River at.....	83
at Secondary Road 1853 near Niagara.....	210	Moon Creek near Yanceyville.....	26
below SEO at Southern Pines.....	209	Moore's Creek at Secondary Road 2132 near Oak Ridge....	203
near Niagara.....	209	Morgan Creek, at U.S. 15-501 near Chapel Hill.....	207
McDowell Creek, at Secondary Road 2145 near Davidson....	230	below SEO at Chapel Hill.....	207
near Charlotte.....	230	near Chapel Hill.....	207
McGalliard Creek, at Valdese.....	228	near Farrington.....	207
near Valdese.....	229	Morganton, East Prong near.....	125
McGehees Mill, Hyco River at.....	31	Morrison Creek tributary below SEO near Statesville....	217
McGill Creek, at State Highway 161 at Kings Mountain....	233	Morrow Creek, at Alexander Mills.....	237
near Mountain View.....	233	near Forest City.....	237
McIntosh Branch, at Burnsville.....	244	Mosleys Creek, above SEO near La Grange.....	201
near Burnsville.....	244	at Secondary Road 1518 near La Grange.....	201
		Mount Vernon Springs, Tick Creek near.....	82

	Page		Page
Mountain Creek at Secondary Road 1214 near Five Points...	225	North Buffalo Creek, at Greensboro.....	204
Mountain Island Lake, change in contents in.....	148	at U.S. Highway 29 near Greensboro.....	204
Mud Creek (Tennessee River basin), at Balfour.....	242	near Greensboro.....	71
near Balfour.....	242	North Deep Creek tributary below SEO near Booneville...	215
Mud Creek (Cape Fear River basin) near Durham.....	206	North Muddy Creek, at State Highway 226 at Marion.....	225
Muddy Creek (tributary to Northeast Cape Fear River), at Beulaville.....	213	near Marion.....	227
near Chinquapin.....	212	near Nebo.....	228
tributary at Secondary Road 1801 near Beulaville.....	213	North Pacolet River, at Lynn.....	239
Muddy Creek (tributary to Yadkin River), at I-40 near Clemmons.....	215	at Tryon.....	239
at Secondary Road 1632 near Tobaccoville.....	215	below SEO near Saluda.....	239
at Secondary Road 1895 near Rural Hall.....	215	near Sandy Plains.....	239
at U.S. Highway 52 near Rural Hall.....	215	North Second Creek near Barber.....	217
near Arcadia.....	216	North Shoal Creek near Violet.....	247
near Clemmons.....	216	North Toe River, at Altapass.....	244
near Lewisville.....	215	at Hunt Dale.....	244
near Muddy Creek.....	110	at Newland.....	244
South Fork near Clemmons.....	111	at Penland.....	244
South Fork near Easton View.....	216	near Altapass.....	244
Muddy Fork Creek, at State Highway 16 near Taylorsville..	229	near Ingalls.....	244
near Taylorsville.....	229	near Newland.....	244
Mulberry Creek (tributary to Johns River), at mouth at Collettsville.....	228	near Red Hill.....	244
near Collettsville.....	228	tributary at Ingalls.....	244
Mulberry Creek (tributary to Yadkin River) near North Wilkesboro.....	214	North Wilkesboro, Reddies River at.....	100
Mull Creek near Claremont.....	230	Northeast Cape Fear River, at Mount Olive.....	212
Murphy, Hiwassee River above.....	184	at Secondary Road 1519 near Kornegay.....	212
		near Chinquapin.....	75
Nahunta Swamp, near Pikeville.....	190	near Mount Olive.....	212
near Shine.....	60	near Seven Springs.....	94
Naked City, at Secondary Road 1585 near Jefferson.....	240	Northeast Creek, at Lowes Grove.....	206
at State Highway 88 at Jefferson.....	240	at Secondary Road 1100 near Genlee.....	207
near Jefferson.....	240	below SEO near Lowes Grove.....	206
Nantahala Lake, change in contents in.....	177,186	near Lowes Grove.....	206
Nantahala River, at Nantahala.....	177	tributary above SEO near Lowes Grove.....	206
near Rainbow Springs.....	176	tributary below Secondary Road 2020 at Research Triangle Park.....	206
Nebo, Linville River near.....	124	tributary near Lowes Grove.....	207
Needmore, Little Tennessee River at.....	175	Northside, Neuse River near.....	49
Nelson Creek below SEO near Maine.....	216	Norwood, Rocky River near.....	119
Neuse River, at Buffalo Road near Raleigh.....	198		
at County Line near Knightdale.....	200	Oak Hollow Reservoir.....	148
at Kinston.....	57	Oak Ridge, Reedy Fork near.....	69
at Secondary Road 2003 near Bayleaf.....	197	Oats Creek, above SEO at Bessemer City.....	233
at Smithfield.....	52	at Bessemer City.....	233
near Clayton.....	51	Oconaluftee River at Birdtown.....	181
near Falls.....	50	Ohio River basin, gaging-station records in.....	151-185
near Fort Barnwell.....	202	lakes and reservoirs in.....	186-188
near Goldsboro.....	56	measurements at miscellaneous sites in.....	240-247
near Knightdale.....	199	Old Field Swamp at Fairmont.....	226
near Neuse.....	198	Old Fort, Mill Creek at.....	122
near Northside.....	49	Orange Factory, Little River near.....	47
near Rosewood.....	201	Order of listing gaging stations.....	7
near Whitehall.....	201		
tributary No. 5 near Knightdale.....	199	Palmetto Swamp near Vanceboro.....	66
Neuse River basin, crest-stage partial-record stations in.....	190	Pamlico River basin, crest-stage partial-record stations in.....	190
gaging-station records in.....	46-67	gaging-station records in.....	33-45
lakes and reservoirs in.....	146,148	measurements at miscellaneous sites in.....	193-196
measurements at miscellaneous sites in.....	196-203	Parkersburg, South River near.....	93
New Hope Creek, at Blackwood.....	205	Partial-record stations, definition of.....	5
at Secondary Road 1723 near Chapel Hill.....	205	Patterson, Yadkin River at.....	98
at U.S. Highway 15-501 near Durham.....	206	Paw Creek, Long Creek near.....	128
below SEO near Blackwood.....	205	Paw Creek, near Juneau.....	231
near Blackwood.....	206	near Thrift.....	231
near Chapel Hill.....	206	near Murphy.....	246
near Dobsons Crossroads.....	205	Pee Dee River near Rockingham.....	119
near Eubanks.....	206	Pee Dee River basin, crest-stage partial-record stations in.....	191-192
near Lowes Grove.....	206	gaging-station records in.....	98-121
tributary near Keene.....	206	lakes and reservoirs in.....	146-149
tributary No. 2 at Secondary Road 1110 near Durham.....	206	measurements at miscellaneous sites in.....	213-226
New Hope River, at Farrington.....	207	Peters Creek at Winston-Salem.....	191
near Pittsboro.....	77	Philpott Reservoir.....	25
New River (Kanawha River basin), at Amelia.....	241	Pig Basket Creek, near Dukes.....	194
near Amelia.....	241	near Matthews Crossroads.....	194
North Fork, at Sprague Electric Company at Bina.....	241	tributary at Dukes.....	194
South Fork, above SEO near Boone.....	240	Pigeon River, at Canton.....	168
South Fork, at Secondary Road 1159 near Glendale Springs.....	240	at Clyde.....	243
South Fork, at Secondary Road 1355 at Rutherford.....	240	at Waterville.....	244
South Fork, near Jefferson.....	151	below Crabtree.....	243
New River (New River basin) near Gum Branch.....	68	near Clyde.....	243
New River basin, crest-stage partial-record stations in.....	191	near Hepco.....	169
gaging-station records in.....	68	near Lake Jmaluska.....	243
Niggerhead Creek, at Secondary Road 1751 near Marshville.....	223	East Fork, near Canton.....	167
at State Highway 205 near Marshville.....	223	West Fork, above Lake Logan near Hazelwood.....	165
near Fairfield.....	224	West Fork, below Lake Logan near Waynesville.....	166
near Hamilton.....	223	Pinch Gut Creek, at Maiden.....	232
at U.S. Highway 74 near Marshville.....	223	near Maiden.....	232
		Pittsboro, Haw River near.....	75
		New Hope River near.....	77
		Polk Ditch at Secondary Road 1122 near Pineville.....	236
		Poor Town, Ahoskie Creek tributary at.....	22

	Page		Page
Potocasi Creek near Union.....	18	Rocky River (tributary to Pee Dee River)--Continued	
Potts Creek at Oak Grove.....	238	near Faggarts Crossroads.....	222
Prentiss, Little Tennessee River near.....	173	near Norwood.....	117
Princeton, Little River near.....	55	near Oakboro.....	222
Pulliam Creek near Tryon.....	189	near Roberta Mill.....	220
Purgatory Creek at U.S. Highway 421 near Cummock.....	209	South Prong West Branch, near Cornelius.....	220
		Rocky River (Cape Fear River basin), near Mt. Vernon	
Queens Creek Lake.....	177	Springs.....	209
Rainbow Springs, Nantahala River at.....	176	North Branch, near Libersy.....	209
Ramseur, Deep River at.....	81	Roseboro, Little Coharie Creek near.....	91
Ramsey, Jacob Fork at.....	130	Roseville, Double Creek near.....	28
Randleman, Deep River near.....	80	South Hyco Creek near.....	29, 30
Rat Spring Branch near Lexington.....	218	Rosman, French Broad River at.....	152
Red Bud Creek below SEO near Henderson.....	194	Ruin Creek, near Henderson.....	193
Reddicks Creek, at Secondary Road 1372 at Sedgefield.....	208	near Kittrell.....	194
near Jamestown.....	208	Runoff in inches, definition of.....	5
Reddies River at North Wilkesboro.....	100		
Reedy Branch (tributary to Island Creek), at Secondary		Saconon Creek near Dana.....	236
Road 1102 near Rose Hill.....	213	Salem Creek, near Atwood.....	109
at Secondary Road 1932 near Rose Hill.....	213	near Five Points.....	216
Reedy Branch (tributary to Goshen Swamp) at State High-		near Muddy Creek.....	216
way 403 at Faison.....	212	Saluda, Green River near.....	140-141
Reedy Creek at Secondary Road 2804 near Wilgrove.....	221	Sandy Branch near Walnut Cove.....	193
Reedy Fork, at Ossipec.....	204	Sandy Run Creek, at Boiling Springs.....	238
at Secondary Road 1858 near Oak Ridge.....	203	near Swainsville.....	237
at Secondary Road 2732 near Monticello.....	203	Santee River basin, crest-stage partial-record	
near Gibsonville.....	70	stations in.....	192
near Oak Ridge.....	69	gaging-station records in.....	122-145
near Ossipec.....	204	lakes and reservoirs in.....	147-148
Reems Creek, at Alexander.....	243	low-flow partial-record stations in.....	189
near Weaverville.....	243	measurements at miscellaneous sites in.....	226-239
Remy Creek, at Secondary Road 1431 near Bridgeton.....	203	Santee Lake, change in contents in.....	186
tributary No. 1 at U.S. Highway 17 near Bridgeton.....	203	Sapony Creek near Spring Hope.....	194
Reservoir, <u>See</u> lakes and reservoirs		Savannah River basin, measurements at miscellaneous	
Rhodhiss Lake, change in contents in.....	147	sites in.....	239-240
Rhone Branch near Waxhaw.....	236	Scott Creek, above Sylva.....	179
Rich Fork, at Secondary Road 1800 near Thomasville.....	219	near U.S. Highway 19A at Sylva.....	246
near Wallburg.....	219	Scott, W. Kerr, Reservoir, change in contents in.....	100, 146
Rich Square, Ahoskie Creek near.....	19	Second Broad River, at Avondale.....	237
Richardson Creek, at Secondary Road 1751 near Monroe.....	223	at Cliffside.....	142
near Monroe.....	223	at Coroleen.....	237
near Wingate.....	223	at U.S. Highway 74 at Forest City.....	237
Richfield, Big Bear Creek near.....	116	below SEO at Forest City.....	237
Richland Creek (tributary to Pigeon River), above		near Alexander Mills.....	237
Hyatt Creek at Hazelwood.....	243	near Logan.....	237
at West Main Street at Hazelwood.....	243	Second Creek, above SEO near Rockwell.....	219
near Clyde.....	243	at Rockwell.....	219
Richland Creek (tributary to Neuse River), at State		below SEO near Rockwell.....	219
Highway 98 at Wake Forest.....	198	tributary above SEO at Rockwell.....	219
near Forestville.....	198	tributary below SEO near Rockwell.....	219
Richland Creek (tributary to Deep River), near Archdale.....	208	Selected References.....	14
near Groomtown.....	208	Sequoyah Lake.....	187
Roanoke Rapids Lake, change in contents in.....	32, 146	Sevenmile Creek at Secondary Road 1120 near Efland.....	196
Roanoke River at Roanoke Rapids.....	32	Seven Springs, Northeast Cape Fear River near.....	94
Roanoke Rapids, Roanoke River at.....	32	Shepard Run near Snow Hill.....	202
Roanoke River basin, crest-stage partial-record stations		Shine, Nahunta Swamp near.....	60
in.....	190	Silas Creek tributary at Pine Valley Road, Winston-	
gaging-station records in.....	23-32	Salem.....	191
lakes and reservoirs in.....	146, 149	Silver Creek at Morganton.....	228
measurements at miscellaneous sites in.....	193	Smith Creek, above SEO at Lilesville.....	224
Roaring River near Roaring River.....	102	below SEO at Lilesville.....	224
Roberts Branch tributary near Shelby.....	238	Smith River at Eden.....	25
Robeson Creek, at Goulds Farm near Pittsboro.....	205	Smithfield, Neuse River at.....	52
at Pittsboro.....	205	Smiths Creek, at Forestville.....	198
near Pittsboro.....	191	at Secondary Road 2044 near Forestville.....	198
near Seaforth.....	205	Sooky Creek below SEO near Linwood.....	218
Rockfish Creek (tributary to Northeast Cape Fear), above		South Atlantic Slope basins, crest-stage partial-	
Doctors Creek.....	213	record stations in.....	190-192
at Secondary Road 1170 near Teachey's.....	213	gaging-station records in.....	18-145
at U.S. Highway 117 near Wallace.....	213	lakes and reservoirs in.....	146-150
near Wallace.....	96	low-flow partial-record stations in.....	189
Rockfish Creek (tributary to Cape Fear River), at		measurements at miscellaneous sites in.....	193-240
Secondary Road 1115 near Hope Mills.....	210	South Branch, at Mill Spring.....	237
at Secondary Road 1406 near Rockfish.....	210	near Mill Spring.....	237
at State Highway 59 at Hope Mills.....	210	South Buffalo Creek, at Greensboro.....	203
at U.S. Highway 401 at Raeford.....	210	at McLeansville.....	203
near Arabia.....	210	at Pear St., at Greensboro.....	203
Rock Hole Creek, at Secondary Road 1147 near Stanfield.....	222	at U.S. Highway 421 at Greensboro.....	203
at Stanfield.....	222	near Bessemer City.....	203
Rockingham, Pee Dee River near.....	119	near Greensboro.....	203
Rocky Mount, Tar River below Tar River Reservoir near.....	36-37	South Country Line Creek, near Hightowers.....	190
Tar River near.....	38	South Hyco Creek near Roseville.....	29, 30
Rocky River (tributary to Pee Dee River), at Secondary		South Pacolet River tributary No. 2 near Tryon.....	239
Road 1304 near Harrisburg.....	221	South Prong Clarke Creek near Huntersville.....	220
at Secondary Road 1449 near Deweese.....	220	South River near Parkersburg.....	93
at State Highway 200 near Stanfield.....	222	South Toe River, at Celo.....	171
at State Highway 205 near Oakboro.....	222	near Newdale.....	244
near Aquadale.....	222	South Yadkin River, at Cooleemee.....	217
near Davidson.....	220	at Secondary Road 1461 near Hiddenite.....	216
		near Cooleemee.....	216

	Page		Page
South Yadkin River--Continued		Tennessee River basin, crest-stage partial-record	
near Franklin.....	217	stations in.....	192
near Hiddenite.....	216	gaging-station records in.....	152-185
near Mocksville.....	114	lakes and reservoirs in.....	186-188
Southwest Creek, near Jacksonville.....	191	measurements at miscellaneous sites in.....	240-247
tributary near Jacksonville.....	191	Terms, definition of.....	4-5
Special Networks and Programs.....	5	Terrible Creek at Secondary Road 1404 near Willow	
Stacey Creek, below SEO near Pineola.....	227	Springs.....	200
tributary near Pineola.....	227	The Pink Beds, South Fork Mills River at.....	156
Stage-discharge relation, definition of.....	5	The Slough, at Pineville.....	202
Star, Little River near.....	118	near Pikeville.....	202
State Road, Mitchell River near.....	104	Third Creek, at I-77 near Statesville.....	217
Station numbers.....	6	at Secondary Road 2342 near Statesville.....	217
Steel Creek, at Secondary Road 1124 near Pineville.....	236	at State Highway 115 near Statesville.....	217
near Charlotte.....	236	at U.S. Highways 64-70 near Statesville.....	217
Stewarts Creek (tributary to Six Rums Creek), at Warsaw.....	211	near Barium Springs.....	217
near Warsaw.....	211	near Hiddenite.....	217
Stewarts Creek (Cape Fear River basin), near Clifdale.....	210	Third Fork Creek, at Cornwallis Road at Durham.....	206
above mouth near Clifdale.....	210	at Durham.....	76
Stewarts Creek (Pee Dee River basin) near Monroe.....	223	near Bland.....	206
Stirewalt Creek, below SEO near Taylorsville.....	229	Thompson River near Lake Toxaway.....	240
near Taylorsville.....	229	Thorpe Reservoir, change in contents in.....	178,186
Stirrup Iron Creek, near Morrisville.....	198	Three Mile Creek, at Ingalls.....	244
tributary near Nelson.....	190	near Ingalls.....	244
Stocking Head Creek near Hallsville.....	212	Tick Creek near Mount Vernon Springs.....	82
Stony Creek (tributary to Ararat River), above SEO near		Toby Creek near Newell.....	220
Mt. Airy.....	215	Tomahawk, Black River near.....	92
below SEO at Mt. Airy.....	215	Tomotla, Valley River at.....	185
Stony Creek (tributary to Tar River), at State Highway		Toms Creek (tributary to Uwharrie River) above SEO	
58 at Nashville.....	194	near Denton.....	220
below SEO near Nashville.....	194	Toms Creek (tributary to Ararat River) at Secondary	
Stony Creek (tributary to Mallard Creek) near Newell.....	221	Road 1315 near Pilot Mountain.....	215
Stony Creek Reservoir.....	72,148	Torrence Creek near Huntersville.....	230
Stony Creek tributary (Neuse River basin) at Secondary		Town Branch near Graham.....	204
Road 1712 at University.....	196	Town Creek (tributary to Tar River), at Elm City.....	195
Stony Run (tributary to Mingo Swamp), near Dunn.....	212	at Pinetops.....	195
tributary near Dunn.....	212	near Elm City.....	195
Stony Run tributary at Secondary Road 1975 near Oakboro..	222	tributary below west SEO at Pinetops.....	195
Stonyton Creek near Harveytown.....	201	Town Creek (tributary to Hiwassee River), at Hayes-	
Sugar Branch near Boiling Springs.....	145	ville.....	246
Sugar Creek (tributary to Catawba River), at State		near Hayesville.....	246
Highway 49 at Charlotte.....	234	Town Creek (Pee Dee River basin), at I-85 near	
at Pineville.....	234	Spencer.....	219
at Secondary Road 1126 at Charlotte.....	234	at Secondary Road 1915 near Spencer.....	219
at State Line near Pineville.....	235	Townes Reservoir, change in contents in.....	23,146
near Charlotte.....	234	Toxaway River near Lake Toxaway.....	239
near Fort Mill.....	236	Travis Creek, at Secondary Road 1500 near Gibsonville..	204
Sugar Creek (Cape Fear River basin) near Tramway.....	191	near Elon College.....	204
Sugar Grove, Watauga River near.....	172	near Ossipee.....	204
Swain Creek above SEO near Union Cross.....	216	tributary at Gibsonville.....	204
Swannanoa, Beestree Creek near.....	160	Trent River near Trenton.....	67
Swannanoa River, at Azalea.....	243	Trenton, Trent River near.....	67
at Biltmore.....	161	Tuckasegee River, at Bryson City.....	182
at Grovestone at Swannanoa.....	242	at Dillsboro.....	180
at Swannanoa.....	242	at Tuckasegee.....	178
North Fork, near Black Mountain.....	242	Tuckertown Reservoir, change in contents in.....	119,146
Swearing Creek, at Lexington.....	218	Tulula Creek at Robbinsville.....	246
at Linwood.....	218	Turkey Creek (Haw River basin), at Pittsboro.....	205
below SEO near Feezor.....	218	at State Highway 87 near Pittsboro.....	205
near Jakesville.....	218	Turkey Creek (tributary to Contentnea Creek) near	
near Reeds Crossroads.....	218	Connor.....	201
near Tyro.....	218	Turkey Creek (Cape Fear River basin) near Turkey.....	191
Sweetwater Creek near Robbinsville.....	246	Turner Swamp near Eureka.....	59
Swift Creek (tributary to Tar River) at Hilliardston.....	39	Tusquitee Creek below Greasy Creek near Hayesville.....	246
Swift Creek (tributary to upper Neuse River) at Lake		Twelve Mile Creek, East Fork, near Waxhaw.....	138
Wheeler Dam near Raleigh.....	200	Two Bottle Branch below SEO near Nelson.....	207
Swift Creek (tributary to lower Neuse River) near			
Vanceboro.....	65	Union, Potecasi Creek near.....	18
Swift Creek (Neuse River basin) near Winterville.....	202	Upper Broad Creek tributary near Grantsboro.....	190
Sylva, Scott Creek above.....	179	Upper Goose Creek near Yeatsville.....	190
		Uwharrie River at Secondary Road 1301 at Coggins	
Talbott Reservoir, change in contents in.....	23,146	Mine.....	220
Tanyard Creek, below SEO at Boonville.....	214		
near Boonville.....	214	Valley River at Coalville.....	247
Tar Branch at Walnut Street, Winston-Salem.....	191	at Murphy.....	247
Tar River, at Louisburg.....	34	at Tomotla.....	185
at Old Sparta.....	196	near Andrews.....	247
at Tarboro.....	42	Vanceboro, Creeping Swamp near.....	64
below Tar River Reservoir near Rocky Mount.....	36	Palmetto Swamp near.....	66
near Bunn.....	194	Swift Creek near.....	65
near Heartease.....	195	Vaughn Creek, above SEO at Tryon.....	239
near Rocky Mount.....	38	below SEO at Tryon.....	239
near Tar River.....	33		
near Wilton.....	193	Waccamaw River at Freeland.....	97
near Tarboro.....	195	Waccamaw River basin, gaging-station records in.....	97
Tarboro, Tar River at.....	42	measurements at miscellaneous sites in.....	213
Tarheel, Cape Fear River at William O. Huske Lock near...	88	Wallace Creek tributary at Secondary Road 1498 near	
Teer, Cane Creek near.....	74	Hiddenite.....	216
Tenmile Swamp near Lumberton.....	192	Wallace, Rockfish Creek near.....	96
Tennessee Creek Project lakes.....	178,187	Walnut Branch at U.S. Highway 70 near Barber.....	217

	Page		Page
Walnut Creek, above mouth near Raleigh.....	199	Whitewater River near Cashiers.....	240
at Buck Jones Road, Raleigh.....	199	Wildcat Branch near Mapleville.....	190
at Rock Quarry Road, Raleigh.....	199	Wilder Branch near Bailey.....	201
at Secondary Road 1009 near Raleigh.....	199	Wilkesboro, Yadkin River at.....	101
near Raleigh.....	199	Wilson Creek at Secondary Road 1278 near Trent Woods...	203
Warren Creek tributary near Huckleberry Springs.....	196	Winkler Creek at Reservoir near Boone.....	240
Washington, Herring Run near.....	44	Wolf Creek Lake.....	178, 187
Watauga River, near Beech Creek.....	245	WRD, definition of.....	5
near Shulls Mills.....	245	WSP, definition of.....	5
near Sugar Grove.....	172		
near Valle Crucis.....	245	Yadkin College, Yadkin River at.....	112
Waxhaw, Twelve Mile Creek near.....	138	Yadkin River, at Crutchfield.....	214
Waynesville, West Fork Pigeon River below Lake Logan		at Elkin.....	103
near.....	166	at Enon.....	108
Wentworth, Dan River near.....	24	at Ferguson.....	213
White Oak Creek (Pee Dee River basin) near Biscoe.....	224	at Finley.....	213
White Oak Creek (Santee River basin), near Columbus.....	237	at Patterson.....	98
tributary at Columbus.....	236	at Roaring River.....	214
tributary near Mill Spring.....	236	at State Highway 265 at Yadkin Valley.....	213
Whiteoak Creek (tributary to Buckhorn Creek), near		at Siloam.....	214
Corinth.....	189	at Wilkesboro.....	101
near Friendship.....	189	at Yadkin College.....	112
near Holly Springs.....	189	Yanceyville, Moon Creek near.....	26
White Oak, Little Fishing Creek near.....	40	Yongs Fork Creek, near Jacktown.....	227
White Oak River at Belgrade.....	190	near Marion.....	228
White Oak River basin, crest-stage partial-record			
stations in.....	190	Zacks Fork Creek, at U.S. Highway 321A at Lenoir.....	228
White Oak Swamp near Whitakers.....	195	near Lenoir.....	192

U. S. DEPARTMENT OF THE INTERIOR
Geological Survey
P. O. Box 2857
440 Century Sta. P. O. Bldg.
Raleigh, North Carolina 27602

POSTAGE AND FEE
U. S. DEPARTMENT OF THE INTERIOR
INT 413

USGS LIBRARY - RESTON



3 1818 00453503 3

U.S. MAIL