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Water Resources Data for North Carolina

Water Year 1975

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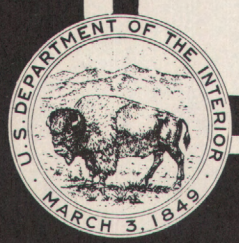

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NC-75-1

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

CALENDAR FOR WATER YEAR 1975

1974

OCTOBER

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1975

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31						

SEPTEMBER

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Water Resources Data for North Carolina

Water Year 1975



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NC-75-1

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

BIBLIOGRAPHIC DATA SHEET	1. Report No. USGS/WRD/HD-76/011	2.	3. Recipient's Accession No.
4. Title and Subtitle Water Resources Data for North Carolina, 1975			5. Report Date March 1976 6.
7. Author(s)			8. Performing Organization Rept. No. USGS-WRD-NC-75-1
9. Performing Organization Name and Address U.S. Geological Survey, Water Resources Division 436 Century Station Post Office Building 300 Fayetteville Street Raleigh, North Carolina 27602			10. Project/Task/Work Unit No. 11. Contract/Grant No.
12. Sponsoring Organization Name and Address U.S. Geological Survey, Water Resources Division 436 Century Station Post Office Building 300 Fayetteville St., Raleigh, North Carolina 27602			13. Type of Report & Period Covered Annual Oct. 1, 1974 to Sept. 30, 1975 14.

15. Supplementary Notes

Prepared in cooperation with the State of North Carolina and with other agencies.

16. Abstracts

Water resources data for the 1975 water year for North Carolina consists of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels in wells. This report contains discharge records for 149 gaging stations; stage and contents for 23 lakes and reservoirs; water quality for 45 gaging stations and 42 miscellaneous sites; and water levels for 52 observation wells. Also included are 16 crest-stage partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous measurements. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in North Carolina

17. Key Words and Document Analysis. 17a. Descriptors

*North Carolina, *Hydrologic data, *Surface water, *Ground water, *Water quality, Flow rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water levels, Water analyses.

17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group

18. Availability Statement	19. Security Class (This Report)	21. No. of Pages
No restriction on distributions This report may be purchased from: National Technical Information Service Springfield, VA 22151	UNCLASSIFIED	
	20. Security Class (This Page) UNCLASSIFIED	22. Price

FORM NTIS-35 (REV. 10-73) ENDORSED BY ANSI AND UNESCO. THIS FORM MAY BE REPRODUCED USCOMM-DC 8265-P74

Preface

This report was prepared by the U.S. Geological Survey in cooperation with the State of North Carolina and with other agencies by personnel of the North Carolina district of the Water Resources Division under the supervision of R. C. Heath, District Chief, and L. B. Laird, Regional Hydrologist, Southeastern Region.

This report is one of a series issued State by State under the general direction of J. S. Cragwall, Jr., Chief Hydrologist, and G. W. Whetstone, Assistant Chief Hydrologist for Scientific Publications and Data Management.

UNITED STATES DEPARTMENT OF THE INTERIOR

THOMAS S. KLEPPE, Secretary

GEOLOGICAL SURVEY

V. E. McKelvey, Director

Prepared in cooperation with

State Department of Natural and Economic Resources
State Board 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
Environmental Protection Agency
National Weather Service, NOAA, U. S. Department of Commerce

For additional information write to
District Chief, Water Resources Division
U. S. Geological Survey
436 Century Station Post Office Building
300 Fayetteville Street
Raleigh, North Carolina 27602

1976

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WATER RESOURCES DATA FOR NORTH CAROLINA, 1975

Section 1. Surface-Water Records
Section 2. Water-Quality Records
Section 3. Ground-Water Records

INTRODUCTION

Water resources data for the 1975 water year for North Carolina consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water-levels of wells. Section 1 of this report contains discharge records for 149 stream gaging stations, stage and contents for 23 lakes and reservoirs, annual maximum discharge data for 16 crest-stage stations, and 1,248 discharge measurements made at 648 miscellaneous stream sites. Section 2 contains water-quality data at 87 sites on streams. Section 3 contains water levels at 52 observation wells. All of these data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State, municipal, and Federal agencies in North Carolina. 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, and C. P. Humphreys, Jr., Chief, Hydrologic Records Section. North Carolina District personnel who contributed significantly to the collection and preparation of data included in this report were Clyde E. Simmons, Herman C. Gunter, Ernst G. Wollin, Jr., Thomas E. Dillard, William H. Eddins, Rufus G. Allen, Russell G. Barker, Willie Blount, McDonald T. Ellis, Isaac J. Forehand, Ronald G. Garrett, Edwin D. George, Maxine A. Harbin, Phyllis M. Joyner, Ruth C. Linder, Donald P. McGeary, Robert L. Meikle, Bobby C. Ragland, Clarence M. Ray, Jr., Howard E. Reeder, Joseph S. Riggsbee, Jerry F. Rinehardt, Joseph E. Shoffner, Timothy C. Stamey, Eloise H. Stephens, Sherman G. Thompson, James M. West, and Walter L. Whitfield, Jr.

Records of discharge of streams, and contents and stage of lakes or reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through water year 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1971 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled "Ground-Water levels in the United States."

Beginning with the 1961 water year and continuing through water year 1974, streamflow data have been released by the Geological Survey in annual reports on a State-boundary basis.

Water-quality records beginning with the 1964 water year have been similarly released in reports. These reports provided rapid release of State water data shortly after the end of the water year. The data were also released in the water-supply paper series mentioned above.

Beginning with the 1975 water year, water data will be released on a State-boundary basis in final form and will not be republished in the water-supply paper series. The 1975 and subsequent water year reports will be in a series which will carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report NC-75-1." These reports are for sale to the public for a nominal fee from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia, 22151. For more information on publications available, see "PUBLICATIONS" on a subsequent page.

HYDROLOGIC CONDITIONS

Streamflow during the 1975 water year was above normal throughout the State. Runoff at the three index stations, as compared with the normals, was as follows: Neuse River near Clayton, 143 percent; South Yadkin River near Mocksville, 176 percent; and French Broad River at Asheville, 129 percent.

During the period October through December 1974, streamflow was generally in the normal range in the Piedmont and mountain regions and below normal in the Coastal Plain region. Runoff from above normal rainfall during January caused significant rises on most streams, and minor flash flooding occurred on many small streams in the central Piedmont region. Flows were also above normal during February but no significant flooding occurred.

Heavy rains during mid-March caused moderate flooding in the Piedmont and Coastal Plain regions. Flood waters forced numerous families from their homes along the Catawba, upper Cape Fear, and lower Neuse rivers. The recurrence intervals for flood peaks in the Piedmont region, where flooding was heaviest, generally ranged from 10 to 40 years. The Roanoke River at Kerr Lake dam reached record level since completion of the dam in 1952. Damages from flooding were estimated at about 1/2 million dollars. Flows receded during April, but runoff from heavy rains in late May caused moderate flooding in the southern Piedmont and above normal flows in most of the State. Minor to moderate flooding occurred again in mid-July on numerous headwater streams in the eastern Piedmont and

Coastal Plain regions; however, flood damages were limited largely to croplands and other agricultural activities.

Rainfall was below normal during August but high carry-over flows from July, augmented by scattered thunderstorm activity held flows generally in the normal range. During late September, heavy rains, generated by the remnants of Hurricane Eloise, caused moderate flooding in parts of the mountain and western Piedmont regions while flows in the Coastal Plain region remained near normal.

As compared to long-term averages, ground-water levels during the water year were generally in the normal and above normal ranges in the Piedmont and mountain areas. Except for several heavily pumped areas, levels in the Coastal Plain region were generally above normal from October through March and below normal the remainder of the year.

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 cooperation in October 1918. Organizations that assisted in collecting the data contained in this report through cooperative agreements with the Survey are:

State Department of Natural and Economic Resources, James E. Harrington, secretary, through the following:
- Division of Resource Planning and Evaluation, Stephen G. Conrad, director;
- Division of Environmental Management, Lewis R. Martin, director.

State Board of Transportation, Division of Highways, Billy Rose, highway administrator.
City of Asheville, William E. Edens, director of Water and Sewer.
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.

The following Federal agencies assisted in the data collection program by furnishing funds or services:

Corps of Engineers, U.S. Army
Tennessee Valley Authority
Soil Conservation Service, U.S. Department of Agriculture
Environmental Protection Agency
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.; EPIC Inc.; Olin Mathieson Chemical Corp.; The Mead Corp., Sylva Division; Virginia Electric and Power Co.; and Yadkin, Inc.

DEFINITION OF TERMS

Terms related to the hydrologic data, as used in this report, are defined below. See also table 4 for converting English units to International System of units (SI) on page 30.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic metres.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants, containing chlorophyll and lacking roots, stems, and leaves.

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

Bacteria are microscopic unicellular organisms, typically spherical, rod-like, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warmblooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 ml of sample.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per litre, used for the decomposition of organic-matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the weight per unit area or volume of habitat.

Ash weight is the weight or amount of residue present after the residue from the dry weight determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash weight values of zooplankton and phytoplankton are expressed in g/m^3 (grams per cubic metre), and periphyton and benthic organisms in g/m^2 (grams per square metre).

Dry weight refers to the weight of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the weight remains unchanged. This weight represents the total organic matter, ash and sediment, in the sample. Dry weight values are expressed in the same units as ash weight.

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, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic metres. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand is the amount of oxygen used by a water sample when it is refluxed with an excess of acid-potassium dichromate. It is a measure of the readily oxidizable material in the sample, and furnishes an approximation of the minimum amount of organic and oxidizable inorganic materials in the sample.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Contents is the volume of water in a reservoir, lake, stream, or aquifer. Contents herein is that of a reservoir or lake and, unless otherwise indicated, is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from stream gaging stations that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artifical structure, or a uniform 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, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic metres per second (m^3/s).

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

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a given time.

Dissolved refers to the amount of a substance present in true chemical solution. In practice, however, the term includes all forms of the substance that will pass through a 0.45-micrometre membrane filter, and thus may include some very small (colloidal) suspended particles. Analyses are performed on filtered samples.

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 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 computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

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

Micrograms per litre (UG/L,ug/l) is a unit expressing the concentration of chemical constituents in solution as the weight (micrograms) of solute per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Milligrams per litre (MG/L,mg/l) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1, page 8 . Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1}).....	0.00788
Ammonia as NH_4^{+1}...	.05544	Iron (Fe^{+3})*.....	.05372
Barium (Ba^{+2}).....	.01456	Lead (Pb^{+2})*.....	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*...	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3}).	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1}).....	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*.....	.03060

*Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in milligrams per litre to parts per million*
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-505	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

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

Particle size is the diameter, in millimetres (mm), of suspended sediment or bed material determined either by sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report is that recommended by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay.....	0.00024 - 0.004	Sedimentation.
Silt.....	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides includes insecticides, miticides, fungicides, herbicides, and rodenticides.

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

Phytoplankton is the plant part of the plankton. They are usually miscroscopic and their movement is subject to the water currents.

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

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. Radioisotopes that are determined in this program are natural uranium in ug/l (micrograms per litre), radium as radium-226 in PC/L, (pCi/l, picocuries per litre), gross beta radiation as equivalent strontium/yttrium-90 or cesium-137 in PC/L, and gross alpha radiation as micrograms of uranium equivalent per litre (ug/l). Gross alpha and beta radioactivity associated with the fine grained (silt and clay sized) sediments in the samples are also determined.

Runoff in inches (IN, 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.

Sediment is solid material that originates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).

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

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for estimating the dissolved-solids content in the water. Specific conductance (in micromhos per centimetre at 25°C) multiplied by a factor of 0.65 gives the approximate concentration of dissolved

solids (in milligrams per litre). This factor is not constant from stream to stream and may even vary in the same source with changes in the composition of the water.

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

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Temperature recorder is the term used to indicate the presence of a mechanism that automatically records water temperature on a chart or paper tape.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per litre by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Total (as used in tables of chemical analyses) refers to the amount of a substance that is present both in solution and in suspension. Analyses are performed on representative samples of water-suspended sediment mixtures.

Tritium concentrations are reported in terms of tritium units (TU); one TU is equal to 3.2436 picocuries per litre.

Water year in Geological Survey reports is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ended September 30, 1975, is called the "1975 water year."

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 reference 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.

National stream-quality accounting network is a network designed by the U.S. Geological Survey to meet many of the information needs for national or regional water-quality planning and management. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict area variability of water-quality conditions nationwide on a year-to-year basis and (2) to detect and assess long-term changes in stream quality.

Pesticide program is a network of regularly sampled water-quality stations where additional samples are collected periodically to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of commonly used insecticides and herbicides.

Radiochemical program is a network of regularly sampled water quality stations where additional samples are collected monthly or twice a year (at high and low flow) to be analyzed for radioisotopes.

Tritium network is a network of tritium-sampling stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters.

NUMBERING SYSTEM FOR STREAM SITES

Stations are listed in 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 lists of gaging stations and water-quality 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 water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. 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 03460000 which appears just to the left of the station name includes the 2-digit part number "03" plus the 6-digit downstream order number "460000". In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 2 (South Atlantic Slope basins) and Part 3 (Ohio River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

NUMBERING SYSTEM FOR WELLS

Downstream order station numbers are not assigned to wells. The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits is a sequential number for wells within a 1-second grid. In the event that several wells are within the same 1-second grid, a different sequential number, such as "01", "02", etc., is assigned to each well to insure an unique station number.

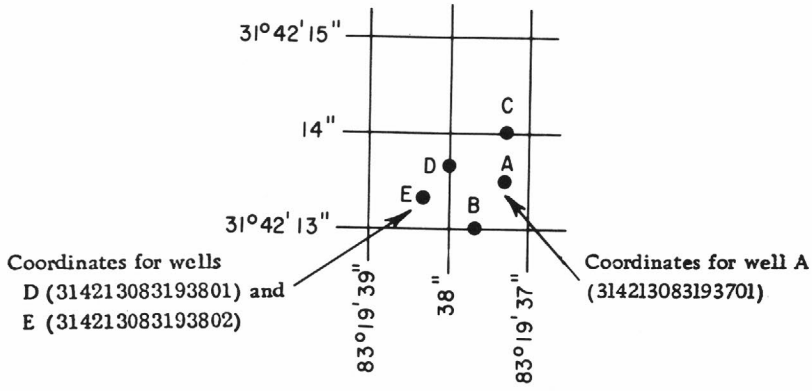

Figure 1. System for numbering wells (latitude and longitude)

EXPLANATION OF SURFACE WATER RECORDS

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 and 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 of streams or volume of water in lakes and reservoirs. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of water-level fluctuations or a tape punched at 15-, 30- or 60-minute intervals. Measurements of discharge are made with a current meter, using techniques adopted by the Geological Survey on the basis of experience in stream gaging since 1888.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. The daily mean discharge is computed from the record of gage heights and the rating tables; the monthly and yearly mean discharges are computed from the daily figures. At some stations the stage-discharge relation is subject to change because of changes in the physical features that form the control or because of aquatic growth or debris on the control. When this situation exists, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual

discharge measurements and notes by hydrologists and observers are used in applying the gage heights to the rating tables. Daily discharges for periods of ice effect are computed on the basis of gage-height record and winter discharge measurements.

Extensions to stage-discharge relation curves are sometimes necessary to determine discharges greater than those measured. The extensions are made on the basis of indirect measurements of peak discharge, velocity-area studies, and logarithmic plotting. At some gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. At other stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

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

Presentation of data

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams a table showing the daily, 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 current year is shown on the inside 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, general remarks, and notations of revisions of previously published records. 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 1921" 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 the 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 instantaneous 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 instantaneous 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. 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 year is given. 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 drainagea area only are usually not published in the annual series of reports.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary 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 for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas.

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

Footnotes to the table of daily discharges are introduced by the word "Note". Footnotes are used to indicate periods 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 site 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.

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 subjected 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.

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 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.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. Each report also contains a list of water-supply papers that give detailed information on major floods for the area.

Four series of summary reports entitled, "Compilation of Records of Surface Water of the United States" have been published; the first series covers the entire period of record through September 1950, the second series covers the period October 1950 to September 1960, the third series covers the period October 1960 to September 1965, and the fourth series covers the period October 1965 to September 1970. These reports contain summaries of monthly and annual discharge and monthend 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. Records for stations in North Carolina are compiled in Water-Supply Papers 1303, 1305 and 1306 through September 1950; in 1723, 1725, and 1726 for October 1950 to September 1960; in 1904, 1908 and 1910 for October 1960 to September 1965; and in 2104, 2108, and 2110 for October 1965 to September 1970.

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

Information of a more detailed nature 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. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

EXPLANATION OF WATER QUALITY RECORDS

Collection and examination of data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements similar in format for those for gaging stations are given for water-quality stations. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks.

Water-quality information is presented for chemical, biological, and microbiological quality, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium-adsorption-ratio, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continous temperature recorder furnished information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment concentrations and discharges and for particle-size distribution of suspended sediment.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (°C). In waters with a density of 1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters having a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperatures reported in degrees Celsius may be converted to degrees Fahrenheit by using table 3, p. 23.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definition of Terms," p.7 and table for converting English Units to SI Units, p. 30).

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman. The method for determining elemental constituents by emission spectragraphic techniques is described by Barnett and Mallory. Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar, Lamar, Goerlitz, and Law, and Goerlitz and Brown. The collection and analysis of aquatic, biological and microbiological samples are described by Slack and others.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating loads.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between the reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with noncontinuous-digital monitors, the records consist of daily maximum and minimum values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey district office at the address given on the back of the preface page of this report.

Temperature

Water temperatures are measured at most of the water-quality stations. For some stations, the water temperatures are taken about the same time each day when a water sample is collected. This type of temperature data are identified by the phrase "ONCE DAILY" in the data table heading.

At stations where continuous temperature recorders are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.(	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.6	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross-section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

At stations where daily sediment data are published, samples may have been collected more frequently than once per day (twice daily, or, in some instances, hourly) in order to define concentrations during periods of rapidly changing stages. The published sediment discharges for days of rapidly changing flow or concentration were computed by the sub-divided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the sub-divided day method. For periods when no samples are

collected, daily loads of suspended sediment are estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of periodic measurements of the particle-size distribution of the suspended sediment are included.

Publications

The annual series of water-supply papers that contain information on quality of surface waters in North Carolina are listed below. Data for the South Atlantic slope and eastern Gulf of Mexico basins are given in Part 2; and the Ohio River basin are given in Part 3.

Year	Part 2	Part 3	Year	Part 2	Part 3
1941	942	942	1956	1450	1450
1942	950	950	1957	1520	1520
1943	970	970	1958	1571	1571
1944	1022	1022	1959	1641	1642
1945	1030	1030	1960	1741	1742
1946	1050	1050	1961	1881	1882
1947	1102	1102	1962	1941	1942
1948	1132	1132	1963	1947	1948
1949	1162	1162	1964	1954	1955
1950	1186	1186	1965	1961	1962
1951	1197	1197	1966	1991	1992
1952	1250	1250	1967	2011	2012
1953	1290	1290	1968	2092	2093
1954	1350	1350	1969	2142	2143
1955	1400	1400	1970	2152	*2153
			1971	*2162	*2163

* In press.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Ground-water level data from a network of observation wells are published herein. These water-level measurements are intended to provide a current and historical record of water-level changes in the State's most important aquifers.

Each well is identified by means of (1) a 15-digit number that is based on the grid system of latitude and longitude as shown in figure 1, and (2) a local number that is provided for continuity with older reports and for other use as dictated by local needs.

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

Water-level measurements in this report are given in feet with reference to either mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (EOM). Levels in other wells are determined by periodically measuring the depth to water surface with a steel tape; each observation obtained in this manner is published herein.

Water levels are reported to as many significant figures as can be justified by the local conditions. Accordingly, most measurements are reported to a hundredth of a foot.

Publications

Publication of ground-water level data for the United States in water-supply papers was begun by the Geological Survey in 1935. From 1935 through 1939, a single water-supply paper for each year covering the entire nation was issued (Water-Supply Papers 777, 817, 840, 845, and 886). From 1940 through 1973, separate water supply papers were issued for 6 sections of the United States. Water-level data for North Carolina are in the water-supply papers listed below,

each report containing one or more calendar years (January-December) of data. Data in this report are for the period January 1974 to September 1975.

Calendar year	WSP No.	Calendar year	WSP No.	Calendar year	WSP No.	Calendar year	WSP No.
1935	777	1942	945	1949	1157	1956-58	1538
1936	817	1943	987	1950	1166	1959-63	1803
1937	840	1944	1017	1951	1192	1964-68	1978
1938	845	1945	1024	1952	1222	1969-73	2171
1939	886	1946	1072	1953	1266		
1940	907	1947	1097	1954	1322		
1941	937	1948	1127	1955	1405		

Information about reports and other data on ground water in North Carolina may be obtained from the district office, at the address given on the back of the preface page.

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Table 4.--Factors for converting English units to International System units (SI)

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

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimetres (mm)
	.0254	metres (m)
feet (ft)	.3048	metres (m)
yards (yd)	.9144	metres (m)
rods	5.0292	metres (m)
miles (mi)	1.609	kilometres (km)
	Area	
acres	4047	square metres (m^2)
	.4047	*hectares (ha)
	.4047	square hectometres (hm^2)
	.004047	square kilometres (km^2)
square miles (mi^2)	2.590	square kilometres (km^2)
	Volume	
gallons (gal)	3.785	**litres (l)
	3.785	cubic decimetres (dm^3)
	3.785×10^{-3}	cubic metres (m^3)
million gallons (10^6 gal)	3785	cubic metres (m^3)
	3.785×10^{-3}	cubic hectometres (hm^3)
cubic feet (ft^3)	28.32	cubic decimetres (dm^3)
	.02832	cubic metres (m^3)
cfs-days [(ft^3/s) · d]	2447	cubic metres (m^3)
	2.447×10^{-3}	cubic hectometres (hm^3)
acre-feet (acre-ft)	1233	cubic metres (m^3)
	1.233×10^{-3}	cubic hectometres (hm^3)
	1.233×10^{-6}	cubic kilometres (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	litres per second (l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second (m^3/s)
gallons per minute (gpm)	.06309	litres per second (l/s)
	.06309	cubic decimetres per second (dm^3/s)
	6.309×10^{-5}	cubic metres per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second (m^3/s)
	Mass	
tons (short)	.9072	tonnes (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 litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972 edition.

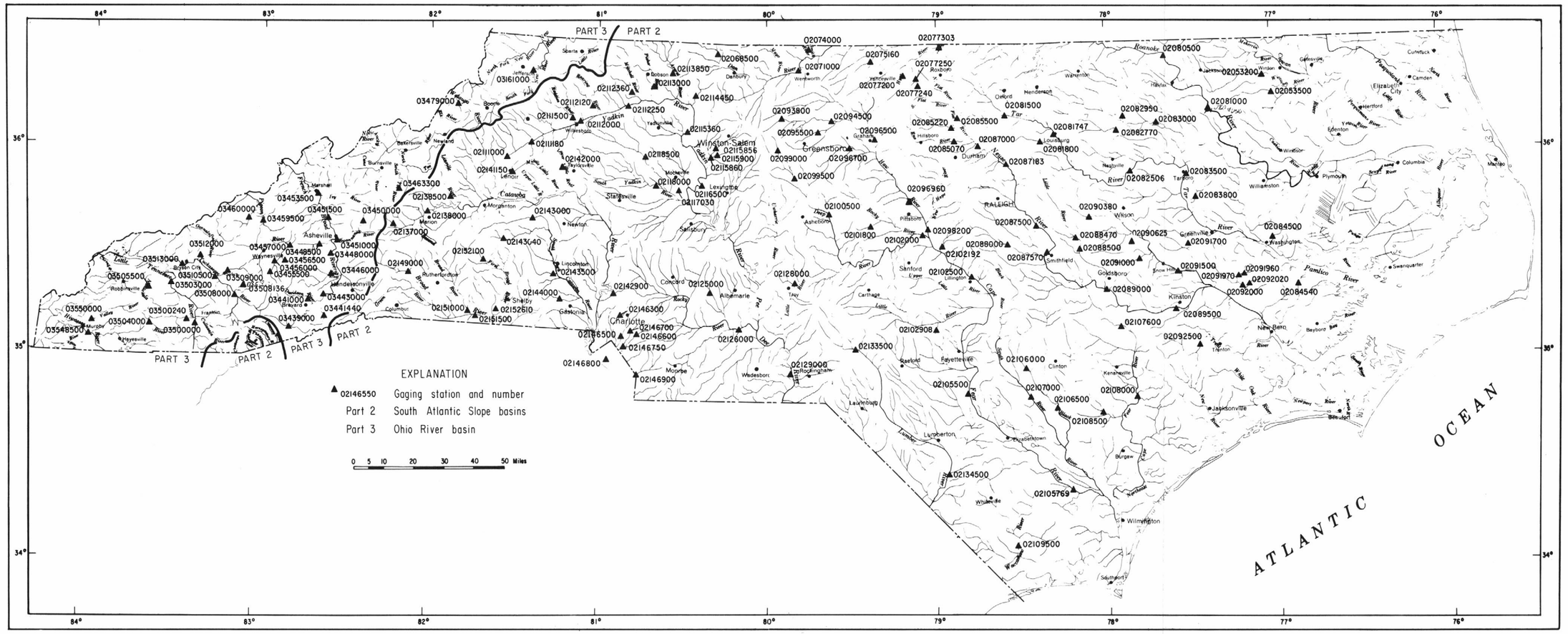

Figure 2. Map of North Carolina showing location of gaging stations.

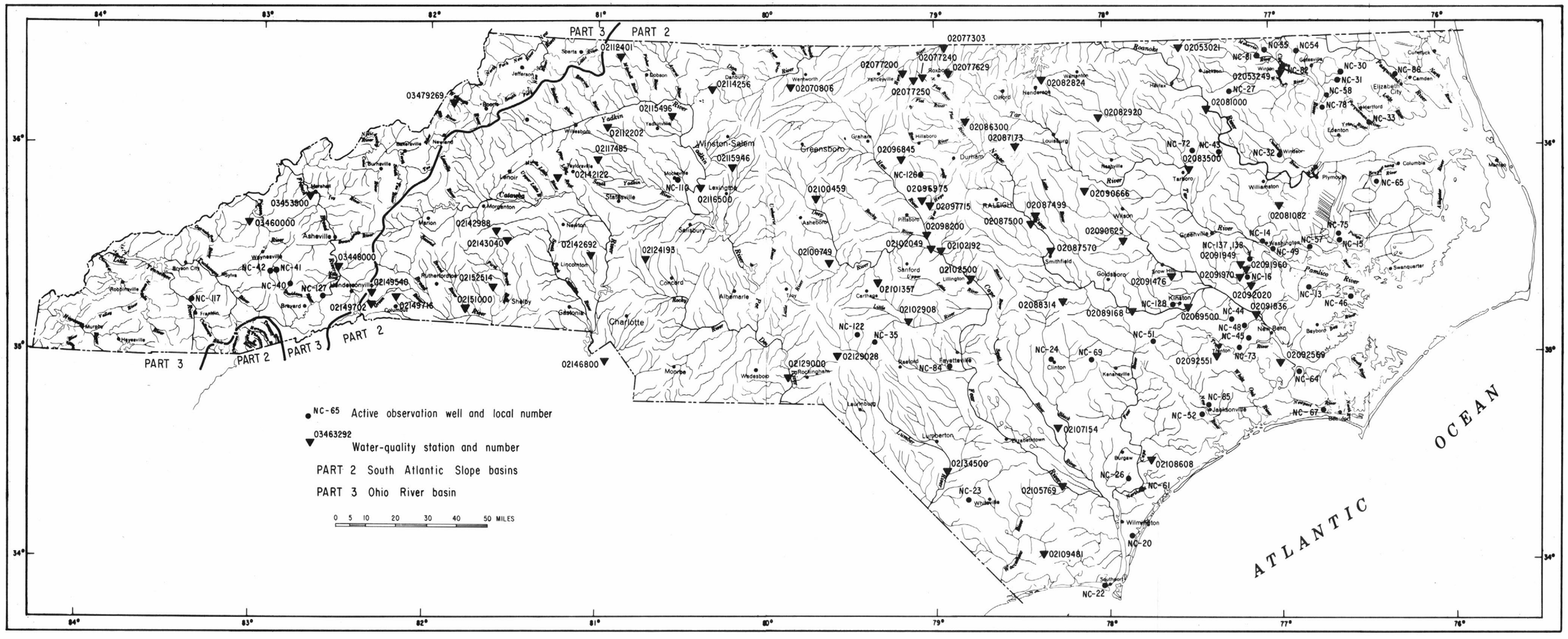

Figure 3. Map of North Carolina showing location of water-quality stations and observation well sites.

Section 1. 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 State Highway 11, 2.8 mi (4.5 km) north of Union, 3 mi (4.8 km) downstream from Cutawhiskie Swamp, and 3.5 mi (5.6 km) upstream from Bells Branch.

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

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

GAGE.--Water-stage recorder. Datum of gage is 3.53 ft (1.076 m) above mean sea level. Prior to Dec. 1, 1958, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--17 years, 238 ft^3/s (6.740 m^3/s), 16.92 in/yr (430 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,420 ft^3/s (68.5 m^3/s) Mar. 20 (gage height, 15.41 ft or 4.697 m); minimum daily, 4.0 ft^3/s (0.11 m^3/s) Aug. 30.
Period of record: Maximum discharge, 4,050 ft^3/s (115 m^3/s) May 10, 1958 (gage height, 19.12 ft or 5.828 m); minimum, 0.2 ft^3/s (0.006 m^3/s) July 1, 1959.
Flood in 1929 reached a stage of 19.1 ft (5.82 m), discharge, 4,050 ft^3/s (115 m^3/s), and flood of August 1940 reached a stage of 24.1 ft (7.35 m), discharge, 7,000 ft^3/s (198 m^3/s) from rating curve extended above 4,000 ft^3/s (113 m^3/s), from information furnished by North Carolina State Highway Commission.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	15	50	188	481	427	228	61	233	4.5	299	10
2	19	15	126	184	386	420	215	60	182	4.2	195	15
3	16	15	116	165	356	447	222	58	135	4.1	118	11
4	14	15	108	167	327	373	243	68	102	6.2	75	7.0
5	13	14	164	279	592	306	230	87	73	13	46	5.8
6	12	15	210	278	974	265	199	77	50	8.7	43	5.0
7	11	16	221	290	976	233	174	69	35	6.6	86	4.8
8	10	16	232	335	972	206	152	68	25	6.3	66	4.7
9	9.9	15	304	395	900	180	133	63	19	5.8	43	4.9
10	9.6	14	247	482	759	158	119	56	15	11	34	5.0
11	9.2	13	219	462	600	157	111	47	12	119	28	4.9
12	9.0	13	251	555	456	160	109	39	11	486	26	5.0
13	8.9	14	260	800	356	168	104	33	9.8	740	23	5.2
14	8.7	14	251	1,460	289	445	96	27	9.2	710	17	5.2
15	8.5	14	230	1,900	241	1,150	148	23	8.2	764	13	6.0
16	12	14	208	2,070	246	1,450	368	21	7.6	900	11	25
17	29	14	207	1,950	811	1,770	342	22	9.5	1,350	8.9	23
18	24	14	189	1,590	1,120	2,070	331	32	23	1,700	7.4	18
19	24	17	159	1,160	1,140	2,020	375	49	23	1,790	6.5	14
20	24	18	140	835	1,160	2,340	358	71	18	1,600	5.9	11
21	23	22	145	657	1,090	2,360	312	71	13	1,300	5.3	8.0
22	22	22	203	549	934	2,110	254	86	9.1	1,040	4.9	6.6
23	19	21	204	456	740	1,770	199	137	7.2	800	4.8	6.8
24	18	20	173	406	577	1,350	160	231	6.2	638	4.7	7.0
25	17	21	169	531	620	998	130	223	5.3	528	4.6	50
26	17	28	167	874	651	714	110	144	5.1	407	4.2	150
27	17	30	156	866	567	500	93	229	4.9	295	4.2	300
28	17	29	176	836	500	363	78	509	5.1	227	4.1	250
29	17	27	242	800	------	293	71	607	5.1	239	4.1	200
30	16	26	208	720	------	255	65	381	4.9	379	4.0	150
31	16	------	187	605	------	241	------	270	------	381	5.0	------
TOTAL	492.8	541	5,922	22,845	18,821	25,699	5,729	3,919	1,066.2	16,463.4	1,201.6	1,318.9
MEAN	15.9	18.0	191	737	672	829	191	126	35.5	531	38.8	44.0
MAX	29	30	304	2,070	1,160	2,360	375	607	233	1,790	299	300
MIN	8.5	13	50	165	241	157	65	21	4.9	4.1	4.0	4.7
CFSM	.08	.09	1.00	3.86	3.52	4.34	1.00	.66	.19	2.78	.20	.23
IN.	.10	.11	1.15	4.45	3.67	5.01	1.12	.76	.21	3.21	.23	.26

CAL YR 1974 TOTAL 72,737.0 MEAN 199 MAX 942 MIN 3.8 CFSM 1.04 IN 14.17
WTR YR 1975 TOTAL 104,018.9 MEAN 285 MAX 2,360 MIN 4.0 CFSM 1.49 IN 20.26

Note.--No gage-height record Aug. 27 to Sept. 30.

02053500 Ahoskie Creek at Ahoskie, N. C.

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

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

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

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

AVERAGE DISCHARGE.--25 years, 65.5 ft^3/s (1.855 m^3/s), 15.61 in/yr (396 mm/yr).

EXTREMES.--Current year: Maximum discharge, 848 ft^3/s (24.0 m^3/s) Mar. 19 (gage height, 9.06 ft or 2.761 m); minimum daily, 3.1 ft^3/s (0.088 m^3/s) July 4.
Period of record: Maximum discharge, 2,580 ft^3/s (73.1 m^3/s) Oct. 5, 1964 (gage height, 10.72 ft or 3.267 m); no flow at times during most years prior to canalization; minimum since canalization, 1.8 ft^3/s (0.051 m^3/s) June 17, 1967.
Flood of August 1940 reached a stage of 15.1 ft (4.60 m), present datum, from floodmark witnessed by local resident (discharge not determined).

REMARKS.--Records good above 6 ft^3/s (0.17 m^3/s) and fair below. Entire basin above station canalized since July 1964. Excavation begun downstream in July 1962 and reached the station in December 1962. Water quality records for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	5.9	21	39	61	62	51	14	13	3.4	11	6.9
2	6.9	5.9	26	36	74	128	47	15	21	3.3	10	8.1
3	6.8	5.8	15	32	100	119	58	14	12	3.2	9.7	7.0
4	6.6	5.8	10	45	89	85	66	17	10	3.1	9.0	5.5
5	6.5	5.8	8.4	97	584	67	48	18	8.7	8.6	8.1	4.5
6	6.4	5.8	7.8	71	443	55	37	15	8.1	11	7.8	4.2
7	6.3	5.8	7.2	100	228	47	32	14	7.5	4.7	7.8	4.2
8	6.0	5.7	55	83	144	42	28	13	6.9	4.2	7.5	4.5
9	6.0	5.7	59	143	107	36	25	12	6.6	4.0	7.5	4.5
10	5.8	5.7	32	108	86	33	24	12	6.4	37	7.2	4.2
11	5.7	5.7	23	141	73	40	24	12	6.1	159	7.4	4.2
12	5.7	6.4	19	190	66	40	25	11	5.8	473	7.4	4.5
13	5.6	6.4	17	580	65	119	24	10	5.2	690	7.2	4.7
14	5.3	6.4	16	696	56	543	21	9.9	5.0	625	7.0	4.7
15	5.2	6.1	14	397	49	759	114	9.3	4.7	279	6.9	4.7
16	7.5	6.1	16	172	105	666	180	9.9	4.5	339	6.6	12
17	6.9	6.4	21	111	618	621	104	14	8.0	461	6.4	22
18	7.6	7.4	19	83	412	493	72	18	7.0	193	6.4	11
19	7.9	6.9	16	69	241	578	55	130	6.2	116	6.1	7.9
20	6.9	7.8	14	78	187	797	42	74	5.8	72	5.8	6.5
21	6.8	7.5	21	126	126	766	33	41	5.2	49	5.8	5.8
22	6.6	7.4	37	90	95	341	27	25	4.7	32	5.5	5.8
23	6.6	6.9	29	70	79	166	23	18	4.4	28	5.5	6.1
24	6.4	6.6	23	58	97	127	21	14	4.2	94	5.0	6.1
25	6.3	7.4	22	433	234	141	20	12	4.0	64	4.7	5.2
26	6.2	7.8	31	508	136	95	18	12	3.9	42	4.2	79
27	6.2	8.1	27	244	91	70	16	14	3.8	32	4.2	149
28	6.1	7.5	66	134	72	56	15	67	3.8	22	4.2	38
29	6.1	6.9	73	99	------	49	15	26	3.7	17	4.2	15
30	6.0	6.6	54	80	------	51	15	16	3.6	14	4.0	10
31	5.9	------	44	66	------	60	------	14	------	12	4.2	------
TOTAL	198.0	196.2	843.4	5,179	4,718	7,252	1,280	701.1	199.8	3,895.5	204.3	455.8
MEAN	6.39	6.54	27.2	167	169	234	42.7	22.6	6.66	126	6.59	15.2
MAX	7.9	8.1	73	696	618	797	180	130	21	690	11	149
MIN	5.2	5.7	7.2	32	49	33	15	9.3	3.6	3.1	4.0	4.2
CFSM	.11	.11	.48	2.93	2.96	4.11	.75	.40	.12	2.21	.12	.27
IN.	.13	.13	.55	3.38	3.08	4.73	.84	.46	.13	2.54	.13	.30

CAL YR 1974 TOTAL 20,311.4 MEAN 55.6 MAX 723 MIN 3.5 CFSM .98 IN 13.26
WTR YR 1975 TOTAL 25,123.1 MEAN 68.8 MAX 797 MIN 3.1 CFSM 1.21 IN 16.40

PEAK DISCHARGE (BASE, 720 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-13	1800	8.39	761	3-19	1730	9.06	848
3-14	1900	8.49	774	7-12	1600	8.74	806

02068500 Dan River near Francisco, N. C.

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

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

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

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

AVERAGE DISCHARGE.--51 years, 189 ft^3/s (5.352 m^3/s), 20.70 in/yr (526 mm/yr), unadjusted.

EXTREMES.--Current year: Maximum discharge, 6,490 ft^3/s (184 m^3/s) Mar. 30 (gage height, 8.52 ft or 2.597 m); minimum, 56 ft^3/s (1.59 m^3/s) Aug. 30 (gage height, 1.23 ft or 0.375 m); minimum daily, 59 ft^3/s (1.67 m^3/s) Aug. 29.
Period of record: Maximum discharge, 12,400 ft^3/s (351 m^3/s) Oct. 19, 1937 (gage height, 12.45 ft or 3.795 m); minimum, 7.1 ft^3/s (0.20 m^3/s) Sept. 8, 1932 (gage height, 0.43 ft or 0.131 m); minimum daily, 28 ft^3/s (0.79 m^3/s) Aug. 17, 18, 1963, Sept. 12, 1966.
Flood in 1916 reached a stage of about 15 ft (4.6 m), from information by local residents (discharge, 16,000 ft^3/s or 453 m^3/s).

REMARKS.--Records good. Considerable diurnal fluctuation and regulation from mills and powerplants above station. Talbott and Townes reservoirs above Pinnacles Hydroelectric Plant in Virginia, 28 mi (45 km) above station, were completed in 1938 (see p. 152).

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	145	226	107	189	241	571	294	810	156	111	154
2	178	150	203	147	230	258	518	294	521	181	75	131
3	165	112	150	147	218	260	505	275	450	187	71	135
4	184	114	121	137	213	238	478	646	379	198	70	108
5	150	155	125	123	252	191	437	371	362	135	120	113
6	127	118	127	153	249	167	349	315	338	143	210	77
7	132	122	127	157	308	165	365	297	237	133	88	110
8	148	131	435	116	237	176	327	287	195	166	113	134
9	126	108	222	131	188	165	298	281	214	185	95	76
10	134	85	179	102	203	167	297	269	199	200	107	109
11	127	85	128	284	192	216	281	247	325	202	126	127
12	115	118	126	235	189	290	272	223	736	168	139	167
13	97	114	108	421	185	402	253	282	594	161	76	169
14	106	124	107	266	168	2,460	217	255	454	178	109	121
15	102	116	102	228	152	619	306	258	423	283	92	89
16	141	116	166	160	145	359	291	494	408	310	144	104
17	136	86	165	146	187	728	288	324	390	274	83	93
18	112	106	141	137	210	523	274	321	274	205	69	220
19	120	124	167	134	225	1,390	239	277	292	163	99	1,340
20	113	122	117	166	204	679	216	281	242	163	91	406
21	112	118	111	198	186	534	217	276	223	171	110	386
22	148	124	97	161	174	487	229	241	187	209	103	344
23	136	75	91	129	157	453	208	233	205	193	111	481
24	137	77	95	138	300	648	220	181	185	191	99	457
25	134	80	93	300	341	575	268	199	198	256	101	308
26	122	104	116	288	260	478	219	196	232	125	150	238
27	98	131	117	235	245	382	184	271	202	116	135	170
28	109	110	126	202	232	365	306	174	186	114	82	157
29	140	72	120	176	------	368	298	198	139	125	59	158
30	129	114	115	173	------	2,440	291	397	140	133	71	113
31	122	------	102	175	------	712	------	364	------	89	81	------
TOTAL	4,028	3,356	4,425	5,672	6,039	17,136	9,222	9,021	9,740	5,513	3,190	6,795
MEAN	130	112	143	183	216	553	307	291	325	178	103	227
MAX	184	155	435	421	341	2,460	571	646	810	310	210	1,340
MIN	97	72	91	102	145	165	184	174	139	89	59	76
(†)	-26	-13	+27	+14	+3	+8	-12	+4	-1	-12	+15	+2

CAL YR 1974 TOTAL 83,179 MEAN 228 MAX 3,620 MIN 72 MEAN‡ 226 CFSM‡ 1.82 IN‡ 24.74
WTR YR 1975 TOTAL 84,137 MEAN 231 MAX 2,460 MIN 59 MEAN‡ 232 CFSM‡ 1.87 IN‡ 25.32

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0630	6.46	3,990	3-30	0530	8.52	6,490
3-19	0830	5.34	2,800	9-19	0500	5.53	2,990

† 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.

02071000 Dan River near Wentworth, N. C.

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

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

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

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

AVERAGE DISCHARGE.--36 years, 1,220 ft^3/s (34.55 m^3/s), 15.78 in/yr (401 mm/yr).

EXTREMES.--Current year: Maximum discharge, 27,600 ft^3/s (782 m^3/s) Mar. 30 (gage height, 24.61 ft or 7.501 m); minimum, 422 ft^3/s (12.0 m^3/s) Nov. 30; minimum gage height, 1.72 ft (0.524 m) Aug. 31; minimum daily, 434 ft^3/s (12.3 m^3/s) Nov. 30.
Period of record: Maximum discharge, 54,200 ft^3/s (153 m^3/s) June 22, 1972 (gage height, 31.60 ft or 9.632 m from high-water mark in well); minimum, 65 ft^3/s (1.84 m^3/s) Oct. 8, 1954 (gage height, 0.93 ft or 0.283 m); minimum daily, 107 ft^3/s (3.03 m^3/s) Oct. 2, 1954.
Flood in 1908 reached a stage of 34.9 ft (10.64 m), from information by North Carolina State Highway Commission, and flood in 1937 reached a stage of 29.8 ft (9.08 m), from information by local resident.

REMARKS.--Records good. Diurnal fluctuation and regulation at low flow caused by mills and Talbott and Townes reservoirs. (See p. 152).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	595	524	2,630	779	1,260	1,260	4,720	1,470	6,050	754	886	537
2	593	527	2,320	736	1,280	1,220	3,690	1,480	5,130	744	799	727
3	652	563	1,230	716	1,400	1,170	3,300	1,400	2,440	754	711	714
4	620	501	946	838	1,450	1,130	3,090	2,070	1,960	780	677	620
5	657	483	812	870	2,250	1,100	2,780	2,370	1,680	960	651	549
6	638	562	729	816	3,180	1,040	2,460	1,710	2,110	755	1,150	594
7	608	501	738	1,010	5,130	1,000	2,240	1,500	1,720	748	1,180	1,010
8	586	483	6,230	1,020	2,940	1,060	2,130	1,440	1,380	1,030	795	1,440
9	614	495	3,540	1,140	2,170	1,010	1,950	1,380	1,240	1,020	741	952
10	577	475	2,010	1,130	1,820	980	1,870	1,410	1,220	1,040	687	771
11	584	445	1,520	6,690	1,640	1,060	1,850	1,490	1,230	1,190	698	829
12	572	474	1,070	4,310	1,690	1,170	1,860	1,320	1,690	1,890	715	1,320
13	559	536	977	8,100	1,810	5,260	1,700	1,280	2,300	1,540	799	2,100
14	529	495	895	4,820	1,570	19,600	1,630	1,280	1,820	2,340	686	1,560
15	520	546	850	2,730	1,400	19,700	1,780	1,270	1,540	2,690	645	1,340
16	533	552	1,180	1,890	1,310	5,200	1,830	2,080	1,460	7,090	706	681
17	634	502	1,450	1,590	1,310	6,700	1,670	2,110	1,350	2,990	742	685
18	618	475	1,130	1,370	1,280	4,530	1,640	1,720	1,280	1,710	608	682
19	570	561	962	1,270	1,290	13,200	1,620	1,610	1,140	1,420	575	1,680
20	590	679	939	1,620	1,230	12,100	1,620	1,420	1,140	1,210	934	2,240
21	552	790	868	2,320	1,170	4,280	1,470	1,310	1,070	1,200	643	1,250
22	528	606	835	1,850	1,100	3,040	1,430	1,240	1,020	1,070	610	1,200
23	570	539	781	1,580	1,100	2,660	1,420	1,160	974	1,440	592	5,030
24	561	462	752	1,310	1,340	2,970	1,400	1,200	923	2,320	611	5,020
25	572	465	681	2,500	2,460	5,380	1,440	1,090	854	7,990	1,850	2,530
26	546	490	682	3,800	1,750	3,690	1,580	1,250	839	2,300	872	1,680
27	550	481	668	2,180	1,430	2,350	1,380	1,380	1,050	1,490	736	1,290
28	505	483	817	1,720	1,330	2,070	1,370	1,330	948	1,230	649	1,020
29	508	481	992	1,530	------	2,060	1,650	1,090	869	1,090	563	921
30	558	434	905	1,390	------	17,800	1,480	1,840	787	1,080	523	1,040
31	533	------	825	1,270	------	19,900	------	2,450	------	1,010	502	------
TOTAL	17,832	15,610	40,964	64,895	49,090	165,690	60,050	47,150	49,214	54,875	23,536	42,012
MEAN	575	520	1,321	2,093	1,753	5,345	2,002	1,521	1,640	1,770	759	1,400
MAX	657	790	6,230	8,100	5,130	19,900	4,720	2,450	6,050	7,990	1,850	5,030
MIN	505	434	668	716	1,100	980	1,370	1,090	787	744	502	537
CFSM	.55	.50	1.26	1.99	1.67	5.09	1.91	1.45	1.56	1.69	.72	1.33
IN.	.63	.55	1.45	2.30	1.74	5.87	2.13	1.67	1.74	1.94	.83	1.49

CAL YR 1974 TOTAL 552,086 MEAN 1,513 MAX 17,800 MIN 434 CFSM 1.44 IN 19.56
WTR YR 1975 TOTAL 630,918 MEAN 1,729 MAX 19,900 MIN 434 CFSM 1.65 IN 22.35

PEAK DISCHARGE (BASE, 12,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-15	0100	23.89	25,500	3-30	2200	24.61	27,600
3-19	2230	20.85	18,900				

02074000 Smith River at Eden, N. C.

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

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

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

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

AVERAGE DISCHARGE.--36 years, 614 ft^3/s (17.39 m^3/s), 15.50 in/yr (394 mm/yr) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 18,300 ft^3/s (518 m^3/s) Mar. 30 (gage height, 13.73 ft or 4.185 m); minimum, 120 ft^3/s (3.40 m^3/s) Nov. 23, Aug. 31, Sept. 1 (gage height, 1.62 ft or 0.494 m); minimum daily, 126 ft^3/s (3.57 m^3/s) Aug. 31.
Period of record: Maximum discharge, 45,600 ft^3/s (1,290 m^3/s) Aug. 15, 1940 (gage height, 19.28 ft or 5.877 m), from rating curve extended above 12,000 ft^3/s (340 m^3/s) on basis of computation of peak flow over dam 1.5 mi (2.4 km) downstream; minimum, 38 ft^3/s (1.08 m^3/s) Aug. 7, 1967; minimum daily, 46 ft^3/s (1.30 m^3/s) Aug. 14, 1967.

REMARKS.--Records good. Flow regulated since August 1950 by Philpott Lake 40 mi (64 km) upstream (usable capacity, 6,325,000,000 ft^3 or 179.1 hm^3). Some additional regulation by hydroelectric plant at Martinsville, Va. 18 mi (29 km) upstream.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	345	365	648	457	507	464	2,190	760	2,420	530	629	185
2	349	296	644	562	372	243	2,150	831	1,270	525	636	785
3	330	206	524	498	542	495	2,150	754	1,310	518	161	514
4	344	271	448	463	722	830	1,650	590	1,850	529	398	442
5	306	360	434	253	878	835	1,320	573	1,790	525	522	421
6	199	362	402	311	1,090	834	485	736	1,430	203	764	456
7	258	360	339	418	1,610	849	714	692	1,260	330	645	309
8	353	352	1,910	420	940	804	1,150	691	1,150	550	583	483
9	352	291	865	457	583	209	1,130	681	361	598	550	470
10	352	199	619	442	639	469	1,140	546	711	661	181	458
11	349	262	524	1,790	800	493	1,130	424	721	675	314	466
12	275	380	468	946	900	523	955	518	837	663	589	609
13	199	401	464	2,190	920	1,500	425	955	850	315	533	891
14	276	362	357	1,370	808	10,100	578	947	769	621	511	216
15	326	428	264	1,310	700	2,470	915	937	234	1,270	505	321
16	374	319	555	1,200	294	1,220	876	1,200	451	1,750	533	411
17	416	213	630	1,130	560	2,770	833	915	848	962	197	488
18	376	298	513	941	870	2,400	834	514	846	818	309	492
19	320	410	462	344	857	9,700	681	659	832	708	527	644
20	229	398	431	669	834	3,800	420	1,030	831	292	664	619
21	274	398	361	1,030	818	2,380	532	1,000	799	850	488	174
22	352	342	264	835	725	2,190	697	984	201	790	494	403
23	368	288	317	776	276	2,100	692	959	370	804	542	2,490
24	367	202	642	740	640	2,140	708	861	484	955	171	1,980
25	375	275	723	970	886	2,240	740	331	478	1,050	391	1,260
26	294	375	781	782	655	1,970	597	421	508	828	503	1,050
27	207	367	701	663	520	1,880	375	602	753	212	516	927
28	257	288	676	722	569	1,860	487	621	563	381	475	806
29	368	404	286	678	------	1,890	731	601	195	647	474	354
30	361	312	333	671	------	10,500	774	835	353	642	514	811
31	364	------	507	646	------	2,040	------	1,260	------	640	126	------
TOTAL	9,915	9,784	17,092	24,684	20,515	72,198	28,059	23,428	25,475	20,842	14,445	19,935
MEAN	320	326	551	796	733	2,329	935	756	849	672	466	665
MAX	416	428	1,910	2,190	1,610	10,500	2,190	1,260	2,420	1,750	764	2,490
MIN	199	199	264	253	276	209	375	331	195	203	126	174
(†)	-40	+4	+36	+11	+77	+123	-111	+56	-53	-17	-58	+59

CAL YR 1974 TOTAL 245,191 MEAN 672 MAX 4,720 MIN 199 MEAN‡ 659 CFSM‡ 1.22 IN‡ 16.63
WTR YR 1975 TOTAL 286,372 MEAN 785 MAX 10,500 MIN 126 MEAN‡ 792 CFSM‡ 1.47 IN‡ 19.97

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

02075160 Moon Creek near Yanceyville, N. C.

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

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

PERIOD OF RECORD.--Annual maximum, water years 1954-61. October 1961 to December 1974 (discontinued).

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

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

EXTREMES.--October to December 1974: Maxumum discharge, 246 ft^3/s (6.97 m^3/s) Dec. 8 (gage height, 6.25 ft or 1.905; minimum, 9.4 ft^3/s (0.27 m^3/s) Oct. 3, 10; minimum gage height, 1.80 ft or 0.549 m Oct. 3.
Period of record: Maximum discharge, 4,010 ft^3/s (114 m^3/s) June 21, 1972 (gage height, 13.81 ft or 4.209 m), result of dam failure; no flow for part of July 25, 1966 (result of temporary diversion); minimum unregulated, 0.18 ft^3/s (0.005 m^3/s) Oct. 3, 4, 1968.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG.	SEP
1	10	13	52									
2	10	13	41									
3	9.6	13	29									
4	9.6	14	45									
5	9.8	13	40									
6	9.9	13	37									
7	10	13	34									
8	10	14	180									
9	9.9	13	108									
10	9.7	13	59									
11	10	13	30									
12	11	16	25									
13	10	16	23									
14	10	15	21									
15	11	16	21									
16	11	15	36									
17	11	15	30									
18	12	15	27									
19	14	16	24									
20	14	22	22									
21	12	24	26									
22	12	17	24									
23	12	15	21									
24	12	14	21									
25	13	14	19									
26	12	15	18									
27	13	15	17									
28	12	14	30									
29	13	14	50		------							
30	13	14	40		------							
31	13	------	30		------		------		------			------
TOTAL	349.5	447	1,182									
MEAN	11.3	14.9	38.1									
MAX	14	24	180									
MIN	9.6	13	17									
CFSM	.38	.50	1.27									
IN.	.43	.56	1.47									

CAL YR 1974 TOTAL 12,142.2 MEAN 33.3 MAX 1,150 MIN 5.8 CFSM 1.11 IN 15.11

PEAK DISCHARGE (BASE, 400 cfs).--No peak above base.

02077200 Hyco Creek near Leasburg, N. C.

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

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

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

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

AVERAGE DISCHARGE.--11 years, 45.3 ft^3/s (1.283 m^3/s), 13.98 in/yr (355 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,720 ft^3/s (190 m^3/s) July 14 (gage height, 39.84 ft or 12.143 m), from rating curve extended above 1,200 ft^3/s (340 m^3/s); minimum, 1.6 ft^3/s (0.045 m^3/s) July 4 (gage height, 24.94 ft or 7.602 m).
Period of record: Maximum discharge, 6,720 ft^3/s (190 m^3/s) July 14, 1975 (gage height, 39.84 ft or 12.143 m), from rating curve extended above 1,200 ft^3/s (340 m^3/s); no flow at times, most years.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	7.0	94	43	46	40	89	24	37	2.7	13	3.2
2	7.8	7.6	94	36	50	36	72	28	55	2.2	11	3.5
3	7.0	7.3	44	29	70	30	68	21	23	2.1	9.2	3.4
4	6.8	7.3	30	34	68	29	64	33	16	1.9	8.5	2.9
5	6.8	7.3	23	35	482	26	54	30	14	8.5	7.5	2.9
6	6.8	7.3	21	36	478	26	48	22	12	7.2	12	2.6
7	6.8	7.0	22	85	256	24	45	17	11	4.2	173	14
8	6.8	6.8	748	62	126	24	42	16	9.2	4.6	64	21
9	6.5	6.8	338	110	87	21	40	15	8.8	278	27	9.8
10	6.5	6.5	86	78	70	22	38	16	8.2	154	18	7.2
11	6.5	6.5	55	1,590	60	29	37	19	8.0	945	15	6.2
12	6.5	12	44	552	64	30	37	15	8.5	229	12	15
13	6.3	21	36	1,010	64	471	32	14	9.0	1,180	9.5	19
14	6.0	12	28	614	50	2,450	30	12	7.8	2,610	9.0	9.2
15	6.0	11	24	167	44	636	77	12	6.5	1,360	8.2	5.6
16	6.0	8.9	50	106	42	196	69	52	5.6	1,010	7.8	4.4
17	6.5	7.8	68	80	46	577	48	30	5.6	242	7.5	4.2
18	7.0	8.3	44	66	45	236	42	57	5.2	108	6.5	4.4
19	9.5	9.2	35	59	45	1,350	38	126	4.8	70	6.5	6.0
20	14	14	30	142	46	584	36	54	4.2	50	7.0	12
21	9.6	24	36	224	39	166	33	36	3.8	40	6.8	8.2
22	7.6	16	34	103	34	117	29	28	3.5	30	5.8	6.0
23	7.0	12	27	78	35	120	28	23	3.5	24	5.2	178
24	7.0	10	25	65	62	111	26	41	3.0	21	4.8	608
25	6.8	9.9	25	191	105	156	26	23	2.6	28	4.2	401
26	6.8	11	25	288	62	90	23	18	2.4	23	3.8	498
27	6.8	11	22	105	48	70	21	16	3.4	17	3.7	188
28	7.0	9.9	65	76	45	62	21	23	5.4	14	3.2	80
29	7.0	8.9	115	64	------	69	23	16	4.0	12	3.0	53
30	7.0	8.6	73	56	------	256	21	16	3.5	11	2.7	39
31	7.0	------	53	49	------	177	------	17	------	17	2.7	------
TOTAL	224.9	302.9	2,414	6,233	2,669	8,231	1,257	870	294.5	8,506.4	478.1	2,215.7
MEAN	7.25	10.1	77.9	201	95.3	266	41.9	28.1	9.82	274	15.4	73.9
MAX	14	24	748	1,590	482	2,450	89	126	55	2,610	173	608
MIN	6.0	6.5	21	29	34	21	21	12	2.4	1.9	2.7	2.6
CFSM	.16	.23	1.77	4.57	2.17	6.05	.95	.64	.22	6.23	.35	1.68
IN.	.19	.26	2.04	5.27	2.26	6.96	1.06	.74	.25	7.19	.40	1.87

CAL YR 1974 TOTAL 20,127.54 MEAN 55.1 MAX 2,150 MIN .94 CFSM 1.25 IN 17.02
WTR YR 1975 TOTAL 33,696.50 MEAN 92.3 MAX 2,610 MIN 1.9 CFSM 2.10 IN 28.49

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 8	1800	34.28	1,410	7-11	0900	35.24	2,020
1-11	1700	37.43	3,810	7-14	0100	39.84	6,720
1-13	2100	34.70	1,660	7-15	0200	35.62	2,280
3-14	1000	37.18	3,540	7-16	0700	34.76	1,700
3-19	1800	36.23	2,710	9-24	2100	33.39	976

02077240 Double Creek near Roseville, N. C.

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

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

PERIOD OF RECORD.--May 1964 to September 1975 (discontinued).

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

AVERAGE DISCHARGE.--11 years, 7.53 ft^3/s (0.213 m^3/s), 13.69 in/yr (348 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,390 ft^3/s (96.0 m^3/s) July 13 (gage height, 7.41 ft or 2.259 m), from rating curve extended as explained below; minimum, 0.60 ft^3/s (0.017 m^3/s) Sept. 5; minimum gage height, 1.32 ft or 0.402 m, July 3, 4.
Period of record: Maximum discharge, 3,390 ft^3/s (96.0 m^3/s) July 13, 1975 (gage height, 7.41 ft or 2.259 m), from rating curve extended above 620 ft^3/s (17.6 m^3/s) on basis of computation of peak flow through culvert at gage height 5.79 ft (1.765 m); minimum, 0.03 ft^3/s (0.008 m^3/s) Oct. 3, 4, 5, 7, 1968, Oct. 6, 7, 1970.

REMARKS.--Records good. Water quality records for the current year are published in Section 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	2.3	26	7.8	6.6	8.2	15	5.6	15	1.6	3.0	1.6
2	2.3	2.5	9.8	6.6	11	7.8	12	5.9	7.8	1.5	2.8	1.7
3	2.3	2.5	6.2	6.2	9.8	6.6	11	5.2	4.7	1.4	2.5	1.4
4	2.5	2.5	4.9	7.8	46	6.6	9.4	7.4	3.2	3.8	2.3	1.1
5	2.8	2.5	4.4	6.6	110	6.2	8.6	5.6	2.8	3.6	2.1	1.0
6	2.5	2.3	4.1	9.8	44	6.2	8.2	4.1	2.6	2.5	23	1.2
7	2.3	2.3	5.8	12	27	6.2	7.8	4.1	2.5	2.5	44	5.9
8	2.2	2.3	98	9.8	17	6.2	7.4	4.1	2.2	6.6	6.2	3.2
9	2.2	2.3	16	14	13	5.6	7.4	3.8	2.2	9.0	3.7	2.0
10	2.0	2.3	9.8	9.4	11	6.6	7.0	3.8	2.2	82	2.8	1.6
11	1.8	2.3	7.4	402	9.4	7.0	7.0	4.9	2.3	56	2.6	2.2
12	1.8	8.2	7.4	98	13	7.8	7.0	3.8	2.7	54	2.4	4.7
13	2.0	3.5	6.2	276	11	167	6.6	3.8	2.4	994	2.5	3.8
14	2.0	2.7	5.3	57	9.4	498	6.2	3.2	2.2	462	2.7	1.8
15	1.8	2.7	5.1	23	9.0	48	16	4.6	2.0	389	2.5	1.6
16	1.8	2.5	12	16	9.0	28	10	8.6	1.9	136	2.3	1.7
17	2.2	2.5	9.0	12	9.4	133	8.6	5.2	1.9	33	2.1	1.8
18	2.0	2.7	7.0	11	9.0	32	7.8	16	2.0	20	2.1	1.7
19	3.2	2.9	5.8	9.4	11	290	7.4	9.8	1.9	14	1.9	2.7
20	2.5	4.6	5.8	36	9.4	40	7.0	6.5	1.9	10	2.1	2.7
21	2.1	4.6	7.0	24	8.2	22	6.2	5.2	1.8	8.1	1.9	1.8
22	2.3	3.2	6.2	14	7.4	21	6.2	4.5	1.8	6.4	1.6	4.3
23	2.3	2.7	5.3	12	9.0	19	5.9	4.3	1.7	5.7	1.6	92
24	2.5	2.7	5.1	9.8	21	20	5.9	4.6	1.7	5.5	2.9	64
25	2.3	2.9	5.3	70	15	19	5.9	4.4	1.6	5.5	7.5	131
26	2.5	3.2	5.1	28	10	13	5.6	3.8	1.6	4.9	2.2	163
27	2.5	2.7	5.1	15	9.4	11	5.2	3.7	1.9	4.1	1.8	26
28	2.5	2.7	12	12	8.6	10	5.2	3.6	2.0	3.8	1.5	12
29	2.5	2.5	10	9.8	------	14	5.2	3.3	1.9	3.9	1.4	7.3
30	2.3	2.5	8.6	8.2	------	50	5.2	3.8	1.7	3.5	1.4	5.2
31	2.5	------	7.4	7.0	------	22	------	3.5	------	3.3	1.3	------
TOTAL	70.8	88.1	333.1	1,240.2	463.6	1,533.0	233.9	160.7	84.1	2,337.2	140.7	552.0
MEAN	2.28	2.94	10.7	40.0	17.3	49.6	7.80	5.18	2.80	75.4	4.54	18.4
MAX	3.2	8.2	98	402	110	498	16	16	15	994	44	163
MIN	1.8	2.3	4.1	6.2	6.6	5.6	5.2	3.2	1.6	1.4	1.3	1.0
CFSM	.31	.39	1.43	5.35	2.32	6.64	1.04	.69	.37	10.1	.61	2.46
IN.	.35	.44	1.66	6.18	2.41	7.66	1.16	.80	.42	11.64	.70	2.75

CAL YR 1974 TOTAL 4,269.1 MEAN 11.6 MAX 486 MIN 1.0 CFSM 1.58 IN 21.30
WTR YR 1975 TOTAL 7,262.4 MEAN 19.9 MAX 994 MIN 1.0 CFSM 2.66 IN 36.17

PEAK DISCHARGE (BASE, 170 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 8	0400	3.67	418	7-12	0030	3.34	297
1-11	0700	6.22	2,060	7-13	2100	7.41	3,390
1-13	0915	4.28	670	7-15	1845	5.17	1,220
2- 4	2315	3.22	230	9-24	2245	3.43	303
3-14	0115	5.12	1,170	9-25	1315	3.31	276
3-19	1030	4.71	904	9-26	0515	3.78	450
7-10	2230	4.54	814				

02077250 South Hyco Creek near Roseville, N. C.

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

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

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

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

AVERAGE DISCHARGE.--9 years, 57.9 ft^3/s (1.640 m^3/s), 14.30 in/yr (363 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,030 ft^3/s (227 m^3/s) July 13 (gage height, 30.04 or 9.156 m), from rating curve extended above 2,000 ft^3/s (566 m^3/s); minimum, 2.9 ft^3/s (0.082 m^3/s) July 4, Aug. 30, 31, Sept. 6; minimum gage height, 13.05 ft or 3.978 m July 6.
Period of record: Maximum discharge, 8,030 ft^3/s (227 m^3/s) July 13, 1975 (gage height, 30.04 ft or 9.156 m), from rating curve extended above 2,000 ft^3/s (566 m^3/s); no flow Aug. 24 to Oct. 22, 1968, Sept. 23, 24, Oct. 9-14, 1970.
No flow observed many days in July and September 1966.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	10	166	49	53	50	105	28	54	4.6	22	5.3
2	11	10	122	41	66	47	79	35	56	4.0	16	5.9
3	10	10	53	37	83	41	73	28	26	3.5	14	5.2
4	9.6	10	37	43	93	38	63	41	19	3.7	12	4.2
5	10	10	30	42	718	36	53	35	15	15	11	3.6
6	10	9.8	26	46	537	35	48	27	13	12	17	5.0
7	10	9.6	30	98	271	35	45	23	12	13	195	26
8	9.6	9.4	1,030	72	141	36	43	22	10	12	61	22
9	9.3	9.4	307	136	98	31	41	20	9.4	79	26	11
10	9.4	9.3	100	87	77	34	39	21	9.7	70	19	6.6
11	9.2	9.7	64	2,040	68	41	39	35	10	1,020	16	6.9
12	8.8	41	52	578	74	43	40	25	12	275	14	13
13	8.2	31	45	1,510	73	719	36	22	12	2,400	12	23
14	8.4	17	39	634	58	2,710	33	18	9.6	3,660	11	10
15	8.2	16	34	208	52	702	84	19	8.3	1,440	10	7.3
16	8.5	14	71	124	50	227	72	63	7.4	1,280	9.6	6.8
17	9.1	13	80	88	56	759	51	40	7.3	296	9.0	7.2
18	9.5	14	54	73	54	284	45	84	7.1	126	9.2	6.8
19	16	15	44	67	58	1,580	41	126	6.2	71	8.3	9.5
20	16	23	39	186	56	579	39	55	5.9	53	8.8	11
21	11	39	49	291	48	199	34	38	5.3	62	8.0	8.0
22	10	24	45	122	43	140	32	29	5.1	38	7.3	7.6
23	10	18	38	85	45	145	31	24	4.6	31	6.6	136
24	10	16	35	72	107	113	30	25	4.3	27	6.5	487
25	10	17	36	306	140	171	29	22	4.2	29	13	477
26	10	20	34	378	76	94	27	19	4.0	25	6.3	562
27	10	17	32	132	60	72	25	18	5.5	19	4.8	182
28	10	16	81	87	55	63	25	18	6.2	17	3.7	69
29	9.8	15	118	73	------	74	26	16	7.1	16	3.5	43
30	9.9	14	74	63	------	304	25	17	5.5	15	3.3	34
31	10	------	56	54	------	226	------	19	------	49	4.4	------
TOTAL	314.5	487.2	3,021	7,822	3,310	9,628	1,353	1,012	361.7	11,165.8	568.3	2,201.9
MEAN	10.1	16.2	97.5	252	118	311	45.1	32.6	12.1	360	18.3	73.4
MAX	16	41	1,030	2,040	718	2,710	105	126	56	3,660	195	562
MIN	8.2	9.3	26	37	43	31	25	16	4.0	3.5	3.3	3.6
CFSM	.18	.29	1.77	4.58	2.15	5.65	.82	.59	.22	6.55	.33	1.33
IN.	.21	.33	2.04	5.29	2.24	6.51	.92	.68	.24	7.55	.38	1.49

CAL YR 1974 TOTAL 25,147.8 MEAN 68.9 MAX 2,620 MIN 2.0 CFSM 1.25 IN 17.01
WTR YR 1975 TOTAL 41,245.4 MEAN 113 MAX 3,660 MIN 3.3 CFSM 2.05 IN 27.90

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 8	1400	20.00	1,610	3-19	1700	22.51	2,740
1-11	1430	24.05	3,550	7-11	0830	20.50	1,840
1-13	1730	21.41	2,240	7-13	2400	30.04	8,030
2- 5	1000	18.24	919	7-16	0400	21.21	2,150
3-14	0730	23.54	3,240	9-26	1030	17.64	712
3-17	1100	18.67	1,080				

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

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

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

PERIOD OF RECORD.--October 1973 to current year.

GAGE.--Water-stage recorder. Datum of gage is 342.98 ft (104.540 m) above mean sea level (levels by Carolina Power and Light Company). August, 1964 to September, 1973, at site 2.8 mi (4.5 km) upstream at datum 3.49.78 ft (106.613 m) above mean sea level. Published as Hyco River at McGehees Mill, N. C.

EXTREMES.--Current year: Maximum discharge, 11,300 ft^3/s (320 m^3/s) July 14 (gage height, 24.40 ft or 7.437 m); minimum, 8.0 ft^3/s (0.23 m^3/s) July 8 (gage height, 2.58 ft or 0.786 m); minimum daily, 9.0 ft^3/s (0.25 m^3/s). Period of record: Maximum discharge, 11,300 ft^3/s (320 m^3/s) July 14, 1975 (gage height, 24.40 ft or 7.437 m); minimum, 0.80 ft^3/s (0.023 m^3/s) Apr. 24, 1974 (gage height, 2.59 ft or 0.789 m).

REMARKS.--Records good. Flow regulated by Roxboro Steam-Electric Generating Plant afterbay Reservoir (see p. 154). Water quality records for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	26	23	177	147	370	806	81	97	39	117	69
2	15	27	22	160	171	366	825	81	69	39	117	226
3	16	27	22	141	278	134	757	81	60	38	116	166
4	16	26	23	134	199	133	739	81	60	38	116	17
5	16	27	23	131	817	132	712	108	61	38	63	18
6	16	21	41	132	1800	105	685	125	60	38	49	19
7	16	13	40	154	1660	87	654	123	60	28	21	20
8	16	13	763	195	631	88	298	122	60	12	9.0	19
9	16	13	2140	253	606	86	44	121	61	89	39	19
10	16	13	1460	293	530	88	42	120	53	16	87	20
11	16	13	1030	2120	485	87	42	119	45	90	95	20
12	16	13	378	5490	456	86	41	118	45	602	90	20
13	17	12	31	4550	152	406	41	117	40	2330	78	21
14	17	12	31	4690	85	3800	41	116	39	9280	66	22
15	17	12	31	2410	61	5880	43	114	38	6620	53	22
16	17	12	44	531	238	3320	41	114	39	5300	46	21
17	17	12	167	153	550	2350	41	113	39	3370	42	41
18	17	12	205	146	478	2180	41	117	39	1620	43	53
19	18	12	179	142	211	2450	39	114	39	833	32	52
20	17	21	150	289	138	3610	39	114	39	501	26	52
21	17	28	137	443	136	2530	40	114	39	336	22	52
22	17	28	130	666	135	1790	40	114	39	246	20	480
23	32	28	124	657	135	823	37	114	39	183	18	1330
24	59	53	121	618	136	746	37	118	38	153	17	1710
25	42	56	121	666	138	748	60	113	38	141	18	2130
26	29	51	122	713	136	723	85	113	39	139	24	2350
27	29	39	122	693	267	701	85	96	39	136	36	1840
28	29	22	123	348	376	462	84	96	39	135	34	1060
29	27	22	124	140	---	101	83	96	39	134	34	850
30	26	22	138	250	---	456	83	96	39	139	34	785
31	26	---	166	329	---	247	---	95	---	127	34	---
TOTAL	661	686	8231	27816	11355	35191	6605	3364	1431	32790	1596.0	13504
MEAN	21.3	22.9	266	897	406	1135	220	109	47.7	1058	51.5	450
MAX	59	56	2140	5490	1660	5880	825	125	97	9280	117	2350
MIN	15	12	22	131	61	87	37	81	38	12	9.0	17

CAL YR 1974 TOTAL 76526.5 MEAN 210 MAX 8570 MIN 1.6
WTR YR 1975 TOTAL 143230.0 MEAN 392 MAX 9280 MIN 9.0

02080500 Roanoke River at Roanoke Rapids, N. C.

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

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

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

GAGE.--Water-stage recorder. Datum of gage is 43.84 ft (13.362 m) above mean sea level. Dec. 7, 1911, to Nov. 21, 1921, and Apr. 7, to Dec. 31, 1932, nonrecording gage and Nov. 21, 1921, to Apr. 7, 1932, water-stage recorder, both at site 9 mi (14 km) upstream at different datum. Aug. 6, 1941 to Mar. 1, 1973, auxiliary water-stage recorder, 3.6 mi (5.8 km) downstream from base gage.

AVERAGE DISCHARGE.--63 years (1912-75) 8,090 ft^3/s (229.1 m^3/s) adjusted for storage, 13.07 in/yr (332 mm/yr).

EXTREMES.--Current year: Maximum discharge, 36,500 ft^3/s (1,030 m^3/s) Apr. 13 (gage height, 11.59 ft or 3.533 m); minimum, 1,060 ft^3/s (30.0 m^3/s) Nov. 6 (gage height, 2.01 ft or 0.613 m); minimum daily, 1,160 ft^3/s (32.9 m^3/s) Nov. 3.

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

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

REMARKS.--Records excellent. Flow regulated since August 1950 by Philpott Lake on Smith River (usable capacity, 6,325,000,000 ft^3 or 179,124,000 m^3); since September 1950 by John H. Kerr Reservoir (usable capacity, 101,247,000,000 ft^3 or 2,867,315,000 m^3); since June 1955 by Roanoke Rapids Lake (see p. 152); since September 1962 by Leesville Lake, since October 1962 by Lake Gaston (see p. 152); and since September 1963 by Smith Mountain Lake. Water quality records for the current year are published in Section 2 of this report.

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12,200	1,290	10,700	1,170	13,900	5,330	35,100	15,700	6,200	2,370	17,500	2,520
2	10,900	1,180	19,100	4,420	14,400	2,300	35,300	6,550	6,300	2,330	18,100	2,340
3	14,000	1,160	19,200	3,930	19,000	13,200	35,200	6,210	14,100	2,350	18,200	2,340
4	13,100	8,870	19,300	2,860	19,000	15,000	35,300	6,250	18,900	2,360	17,200	5,810
5	1,950	2,610	17,400	1,350	19,000	7,450	35,300	6,260	18,800	2,460	18,400	2,330
6	2,350	1,430	4,290	6,800	19,000	9,900	35,500	6,320	18,800	2,420	18,500	2,330
7	1,960	2,300	1,190	1,210	19,100	7,730	35,400	11,100	17,900	2,360	18,700	2,340
8	1,960	2,420	1,240	5,540	13,600	6,320	35,400	10,300	6,240	2,370	18,600	2,310
9	1,950	1,910	1,210	1,380	9,750	6,600	35,200	10,000	14,200	4,330	12,500	2,380
10	1,760	1,190	1,200	7,770	13,700	12,500	35,000	8,660	14,200	10,600	12,300	2,490
11	1,780	4,850	1,190	8,350	19,000	12,300	35,500	7,220	14,200	6,400	12,500	2,690
12	1,830	7,700	1,190	7,450	19,000	11,300	35,100	12,900	14,300	2,340	12,700	5,010
13	1,910	10,600	1,190	12,100	18,900	1,250	35,300	13,700	9,730	8,660	13,000	2,390
14	1,890	14,900	1,180	19,100	18,900	12,900	35,600	13,100	6,080	13,400	12,700	2,330
15	1,920	15,800	1,190	19,100	13,100	18,600	35,400	11,600	3,720	19,400	12,800	2,350
16	1,890	14,900	1,200	19,000	12,700	18,800	35,000	15,100	11,000	19,300	10,700	7,690
17	1,890	6,120	1,190	19,000	13,200	19,000	35,100	6,450	13,900	19,300	2,940	2,480
18	1,790	11,500	1,190	13,900	16,600	18,900	35,000	6,210	13,800	19,300	2,300	2,360
19	1,840	8,910	1,170	12,800	17,600	19,100	35,100	6,380	9,500	19,200	2,330	2,400
20	1,880	4,460	1,190	15,200	19,000	22,500	35,100	6,290	5,660	19,100	3,690	2,610
21	11,900	10,700	1,190	19,000	19,000	22,800	34,900	12,300	2,360	18,800	2,420	2,400
22	11,300	13,000	1,190	19,000	10,900	22,800	35,100	13,800	2,400	18,500	2,430	11,300
23	5,210	14,100	1,170	19,000	1,240	22,600	35,000	13,800	2,360	18,500	2,350	9,800
24	4,100	5,090	1,190	19,000	11,100	25,500	34,300	8,900	6,810	18,500	3,090	13,100
25	3,490	12,500	1,180	13,400	11,400	29,600	24,800	6,290	11,600	18,500	10,900	13,400
26	1,730	13,900	1,190	12,500	14,000	30,900	14,800	6,290	2,620	18,500	11,600	13,900
27	1,710	19,300	1,200	15,000	12,300	33,200	6,490	6,260	2,350	18,500	4,560	19,200
28	5,170	19,300	1,190	19,000	12,100	33,900	14,000	6,230	2,330	18,500	2,400	19,000
29	2,720	19,200	1,180	19,000	------	34,800	6,470	6,270	2,330	18,600	2,350	19,100
30	1,770	17,600	1,170	19,000	------	35,200	10,200	6,210	2,370	18,400	2,300	19,100
31	1,830	------	1,430	18,900	------	35,300	------	6,190	------	18,500	2,330	------
TOTAL	131,680	268,790	119,990	375,230	420,490	567,580	920,960	278,840	275,060	384,150	302,390	199,800
MEAN	4,248	8,960	3,871	12,100	15,020	18,310	30,700	8,995	9,169	12,390	9,755	6,660
MAX	14,000	19,300	19,300	19,100	19,100	35,300	35,600	15,700	18,900	19,400	18,700	19,200
MIN	1,710	1,160	1,170	1,170	1,240	1,250	6,470	6,190	2,330	2,330	2,300	2,310
(†)	-1,677	-6,166	+4,094	+3,734	-2,178	+20,137	-15,156	-958	-2,473	+3,679	-5,688	+4,488

CAL YR 1974 TOTAL 3,290,014 MEAN 9,014 MAX 20,600 MIN 942 MEAN ‡ 8,644 CFSM ‡ 1.03 IN ‡ 13.98
WTR YR 1975 TOTAL 4,244,960 MEAN 11,630 MAX 35,600 MIN 1,160 MEAN ‡ 11,913 CFSM ‡ 1.42 IN ‡ 19.28

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

‡ Adjusted for change in contents.

02081000 Roanoke River near Scotland Neck, N. C.

LOCATION.--Lat 36°12'33", long 77°13'02", Halifax County, on right bank 10 ft (3 m) upstream from bridge on U.S. Highway 258, 3 mi (4.8 km) downstream from Bridgers Creek and 5.8 mi (9.3 km) north of Scotland Neck.

DRAINAGE AREA.--8,700 sq mi^2 (22,500 km^2), approximately.

PERIOD OF RECORD.--August 1940 to September 1956, October 1974 to September 1975. Records for July 1896 to May 1903 published in Annual Reports 18-22, and WSP 15, 27, 36, 39, 48, 52, 65, 75, 83 and 98 are unreliable and should not be used. Published as "at Neal" July 1896 to May 1903.

GAGE.--Water stage recorder. Datum of gage is 5.77 ft (1.759 m) above mean sea level. Aug. 1, to Oct. 19, 1940 nonrecording gage at present site and datum. Since Oct. 1, 1974 auxiliary water stage recorder 8.9 mi (14.3 km) downstream from base gage at same datum. Nov. 5, 1940 to Jan. 6, 1941 auxiliary nonrecording gage and Jan. 31, 1941 to September 30, 1956 auxiliary water stage recorder at same site and datum.

AVERAGE DISCHARGE.--17 years, 8,444 ft^3/s (239.1 m^3/s) adjusted for storage, 13.18 in/yr (333 mm/yr).

EXTREMES.--Current year: Maximum daily discharge, 33,000 ft^3/s (935 m^3/s) Apr. 1-24; maximum gage height, 30.30 ft (9.235 m) Apr. 15-18; minimum daily discharge, 1,250 ft^3/s (35.4 m^3/s) Dec. 13, 14, 19, 20; minimum gage height, 4.87 ft or 1.484 m Dec. 20.
Period of record: Maximum discharge, 260,000 ft^3/s (7,363 m^3/s) Aug. 19, 1940; maximum gage height, 41.98 ft or 12.796 m Aug. 19, 1940; minimum discharge, 750 ft^3/s (21.2 m^3/s) Nov. 10, 1952.
Floods of November 1877, March 1912, 1919, October 1924 reached stages of 37.8 ft (11.52 m), 36.8 ft (11.22 m), 34.9 ft (10.64 m) and 39.9 ft (10.03 m) respectively, from information by North Carolina State Highway Commission. The flood of January 1936 reached a stage of 35.1 ft or 10.70 m from unpublished records of the National Weather Service, NOAA, U. S. Department of Commerce.

REMARKS.--Records fair. Flow regulated since August 1950 by Philpott Lake on Smith River (usable capacity, 6,325,000,000 ft^3 or 179,124,000 m^3); since September 1950 by John H. Kerr Reservoir (usable capacity, 101,247,000,000 ft^3 or 2,867,315,000 m^3); since June 1955 by Roanoke Rapids Lake (see p. 152); since September 1962 by Leesville Lake, since October 1962 by Lake Gaston (see p. 152) and since September 1963 by Smith Mountain Lake.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10200	1500	13000	1300	16000	10000	33000	16000	6500	2500	19000	3200
2	11000	1400	19000	2500	16500	7000	33000	10000	6600	2500	19000	3500
3	13000	1300	20000	4000	19000	5000	33000	7000	9000	2500	19000	2300
4	14500	2000	20500	4500	19500	14000	33000	5600	15000	2500	19500	5000
5	12500	9500	18000	2100	19500	15000	33000	6600	19000	2500	18500	6000
6	5000	4500	10000	4000	19500	11000	33000	6600	20000	2500	19000	2500
7	2100	2300	5000	5800	19500	12000	33000	7000	20000	2500	19000	2500
8	2000	2700	3000	2700	18500	7500	33000	11000	18000	2500	19000	2500
9	2000	2800	1800	5800	14000	10000	33000	10500	10000	3000	15000	2500
10	2000	1600	1500	3500	13000	12000	33000	9000	15000	7000	14000	2700
11	1900	3000	1300	9000	18000	13000	33000	8500	15000	12000	13000	3700
12	1900	5000	1300	8500	19000	13000	33000	10000	15000	7000	13000	5000
13	2000	9000	1250	15000	19500	7000	33000	14000	15000	3500	13000	5400
14	2000	13000	1250	18000	19500	4000	33000	14500	10000	12000	13000	2500
15	1950	16000	1300	19000	19500	17000	33000	13000	6000	18000	13000	2500
16	1950	16500	1300	20000	15000	19000	33000	15000	5000	19000	13000	3500
17	1950	13000	1350	20000	16000	20000	33000	12000	11000	20000	11000	9000
18	1900	9000	1350	17000	17500	20500	33000	7000	14500	20000	3500	2700
19	1900	12000	1250	15000	18500	21000	33000	6400	14000	20000	2500	2600
20	2000	8000	1250	17000	19000	22000	33000	6500	10000	20000	4000	2800
21	3500	7000	1300	19000	19500	22500	33000	7000	6000	20000	3300	2600
22	11000	12000	1350	19500	13000	22500	33000	14000	3000	20000	2500	2700
23	11500	14000	1300	19500	10000	22500	33000	14500	2700	19500	2500	13000
24	6000	11000	1300	19500	5000	25000	33000	14000	2500	19500	2600	12000
25	4500	8000	1300	16000	10000	28000	30000	9000	8000	19500	8000	14000
26	3500	7000	1300	15000	15000	29000	23000	7000	12000	19500	11000	16000
27	1900	18000	1350	18000	14000	30000	19000	6800	6000	19500	12000	20000
28	1900	19000	1350	19000	13000	30500	16000	6600	2700	19500	5000	20000
29	5200	20000	1350	19500	---	31000	13000	6600	2500	19500	2700	20000
30	3700	18000	1400	19500	---	31500	12000	6600	2500	19500	2600	20000
31	2200	---	1350	19500	---	32000	---	6600	---	19500	2500	---
TOTAL	148650	268300	139350	398700	456000	564500	905000	293400	302500	397000	334700	212700
MEAN	4795	8943	4495	12860	16290	18210	30170	9626	10080	12810	10800	7090
MAX	14500	20000	20500	20000	19500	32000	33000	16000	20000	20000	19500	20000
MIN	1900	1300	1250	1300	5000	4000	12000	6600	2500	2500	2500	2300
(†)	-1,677	-6,166	+4,094	+3,734	-2,178	+20,137	-15,156	-958	-2,473	+3,679	-5,688	+4,488

WTR YR 1975 TOTAL 4,425,800 MEAN 12,130 MAX 33,000 MIN 1,250 MEAN ‡ 12,413 CFSM ‡ 1.43 IN ‡ 19.41

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

02081500 Tar River near Tar River, N. C.

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

DRAINAGE AREA.--167 mi^2 (433 km^2).

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

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

AVERAGE DISCHARGE.--36 years, 156 ft^3/s (4.418 m^3/s), 12.69 in/yr (322 mm/yr).

EXTREMES.--Current year: Maximum discharge, 9,130 ft^3/s (259 m^3/s) Mar. 14 (gage height, 15.18 ft or 4.627 m); minimum, 3.9 ft^3/s (0.11 m^3/s) July 4 (gage height, 1.34 ft or 0.408 m).
Period of record: Maximum discharge, 13,100 ft^3/s (371 m^3/s) Aug. 18, 1955 (gage height, 18.07 ft or 5.508 m); minimum, 0.02 ft^3/s (0.001 m^3/s) July 29, 30, 1966 (gage height, 1.09 ft or 0.332 m).

REMARKS.--Records good. Town of Oxford diverts about 3.5 ft^3/s (0.099 m^3/s) for municipal water supply. Occasional intermittent diversion for irrigation.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	12	104	88	127	137	335	50	47	5.8	30	7.6
2	19	12	175	72	156	126	222	57	58	6.2	27	19
3	16	12	78	61	271	112	199	59	41	5.0	25	17
4	14	12	49	66	242	98	196	68	31	4.2	23	11
5	13	12	35	103	1980	91	150	74	26	9.5	22	7.9
6	13	12	29	95	1090	87	129	52	22	14	21	6.5
7	13	12	26	388	453	84	117	46	20	26	79	5.8
8	13	12	190	225	272	87	108	42	18	43	75	17
9	12	12	274	619	202	80	101	38	16	20	39	26
10	12	11	112	290	170	79	99	35	15	15	28	16
11	11	11	72	2150	148	112	97	33	15	700	24	11
12	11	12	58	3120	146	120	97	31	16	928	21	12
13	11	12	50	2600	173	1450	91	30	18	1270	19	23
14	9.9	14	43	2380	142	7320	83	29	19	5060	18	29
15	8.9	14	38	476	118	4450	206	27	16	4240	16	17
16	9.6	14	75	292	126	616	305	95	14	4970	15	12
17	15	13	163	213	332	2040	152	106	13	1980	15	9.7
18	16	13	104	174	241	1040	119	414	12	541	14	8.8
19	17	15	72	158	283	3160	103	565	11	240	13	9.3
20	31	16	59	485	223	1970	92	164	10	145	12	14
21	27	20	66	819	158	469	81	95	9.1	106	12	14
22	19	21	91	326	128	317	71	65	8.5	83	11	12
23	16	20	76	218	126	337	66	49	8.1	66	11	82
24	14	18	60	179	376	317	64	81	7.7	111	9.9	1010
25	15	16	56	1500	494	687	63	69	7.2	117	12	2830
26	13	16	59	1270	227	301	59	47	6.7	74	15	2910
27	13	15	51	380	161	192	53	37	6.1	58	14	600
28	13	15	142	234	151	104	48	43	5.7	45	11	183
29	12	14	220	190	---	169	50	33	5.5	39	8.7	111
30	13	14	145	165	---	1050	51	31	5.4	35	7.6	82
31	13	---	110	140	---	1170	---	40	---	32	6.6	---
TOTAL	456.4	422	2882	19478	8716	28442	3607	2605	508.0	20988.7	654.8	8113.6
MEAN	14.7	14.1	93.0	628	311	917	120	84.0	16.9	677	21.1	270
MAX	31	21	274	3120	1980	7320	335	565	58	5060	79	2910
MIN	8.9	11	26	61	118	79	48	27	5.4	4.2	6.6	5.8
CFSM	.09	.08	.56	3.76	1.86	5.49	.72	.50	.10	4.05	.13	1.62
IN.	.10	.09	.64	4.34	1.94	6.34	.80	.58	.11	4.68	.15	1.81

CAL YR 1974 TOTAL 57728.8 MEAN 158 MAX 5090 MIN 3.7 CFSM .95 IN 12.86
WTR YR 1975 TOTAL 96873.5 MEAN 265 MAX 7320 MIN 4.2 CFSM 1.59 IN 21.58

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-12	0030	12.32	5,920	3-19	1900	11.00	4,650
1-13	2400	10.56	4,250	3-30	2400	7.64	2,140
1-25	1930	7.75	2,210	7-14	1400	12.40	6,000
2- 5	1400	8.19	2,470	7-16	0330	13.06	6,670
3-14	2000	15.18	9,130	9-26	0100	10.44	4,150
3-17	1730	8.75	2,860				

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

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

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

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

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

EXTREMES.--Current year: Maximum discharge, 10,700 ft^3/s (303 m^3/s) July 15 (gage height, 23.00 ft or 7.010 m); minimum, 38 ft^3/s (1.08 m^3/s) July 4 (gage height, 4.10 ft or 1.250 m).
Period of record: Maximum discharge, 10,700 ft^3/s (303 m^3/s) July 15, 1975 (gage height, 23.00 ft or 7.010 m); minimum gage height observed, 1.30 ft (0.396 m^3) several days in September 1967, August, September and October 1968 at former site and datum. A discharge of 10.3 ft^3/s (0.29 m^3/s) was measured on Sept. 24, 1970.
Floods of December 1934, September 1945 and August 1955 reached stages of 26 ft (7.9 m), 24 ft (7.3 m) and 24 ft (7.3 m) respectively, at former site and datum, from information of Corps of Engineers.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	94	232	282	393	385	2740	231	228	47	142	167
2	93	93	501	246	397	381	790	240	258	42	135	293
3	87	91	338	216	542	348	602	238	212	40	127	120
4	82	90	215	240	554	314	576	265	174	41	117	92
5	82	88	188	280	1790	294	492	285	150	56	111	74
6	83	85	147	289	3530	252	425	277	134	105	114	67
7	83	87	129	433	2000	275	390	229	123	79	160	100
8	81	82	270	693	915	277	370	205	112	180	240	89
9	79	81	644	955	592	268	352	192	104	141	168	100
10	79	80	422	1200	497	251	344	185	101	101	128	98
11	79	79	272	720	436	314	344	177	104	710	114	77
12	78	83	224	2460	414	338	343	167	110	1550	104	76
13	77	90	202	5170	417	730	327	161	117	2890	100	103
14	76	89	185	5830	405	4150	308	154	108	4460	94	116
15	75	87	170	5710	356	3880	373	149	96	9420	90	92
16	89	83	208	2830	400	8050	683	196	88	10200	87	97
17	113	83	348	780	666	3500	509	344	81	9440	82	96
18	123	91	338	556	705	2900	385	538	82	6720	77	81
19	149	110	252	480	582	4500	348	1330	75	2400	74	82
20	198	120	212	516	778	6310	322	760	69	893	73	85
21	159	130	226	1570	530	5540	292	360	65	496	71	81
22	125	123	249	1520	421	1500	274	262	65	379	69	83
23	108	105	249	693	378	900	268	213	62	307	65	133
24	103	98	217	538	449	853	262	187	57	264	63	690
25	99	94	210	1010	918	1200	256	226	53	313	65	1700
26	96	100	210	2800	723	1220	244	196	51	286	104	3020
27	95	96	199	3200	461	666	231	171	51	222	74	4190
28	92	93	274	900	407	540	222	154	56	193	65	1500
29	90	89	509	586	---	503	229	249	56	175	58	367
30	91	85	436	501	---	748	231	311	51	161	56	249
31	92	---	335	433	---	2170	---	250	---	151	51	---
TOTAL	3056	2799	8591	43639	20656	58656	13532	8902	3093	52462	3078	14118
MEAN	98.6	93.3	277	1408	738	1892	451	287	103	1692	99.3	471
MAX	198	130	644	5830	3530	8850	2740	1330	258	10200	240	4190
MIN	75	79	129	216	356	201	222	149	51	40	51	67
CFSM	.23	.22	.65	3.28	1.72	4.41	1.05	.67	.24	3.94	.23	1.10
IN.	.26	.24	.74	3.78	1.79	5.09	1.17	.77	.27	4.55	.27	1.22

CAL YR 1974 TOTAL 144220 MEAN 395 MAX 4900 MIN 39 CFSM .92 IN 12.51
WTR YR 1975 TOTAL 232584 MEAN 637 MAX 10200 MIN 40 CFSM 1.48 IN 20.17

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-15	0200	19.86	6,260	3-20	2000	20.40	6,870
1-27	0630	16.57	3,680	4- 1	0530	15.83	3,300
2- 6	2030	17.07	3,960	7-15	2400	23.00	10,700
3-15	1930	22.44	9,800	9-27	1400	17.69	4,380

02081800 Cedar Creek near Louisburg, N. C.

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

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

PERIOD OF RECORD.--Annual maximum, water years 1954-56 and occasional low-flow measurements, water years 1954-56. September 1956 to September 1975 (discontinued).

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

AVERAGE DISCHARGE.--19 years, 50.4 ft^3/s (1.427 m^3/s), 14.32 in/yr (364 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,800 ft^3/s (51.0 m^3/s) Mar. 19 (gage height, 6.07 ft or 1.850 m); minimum, 6.9 ft^3/s (0.20 m^3/s) Aug. 29, 31 (gage height, 1.52 ft or 0.463).
Period of record: Maximum discharge, 3,560 ft^3/s (101 m^3/s) June 29, 1973 (gage height, 8.32 ft or 2.536 m); minimum, 0.77 ft^3/s (0.022 m^3/s) Sept. 26, 1968 (gage height, 1.25 ft or 0.381 m).
Flood in 1935 reached a stage of about 14 ft (4.3 m), from information by the North Carolina State Highway Commission.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	20	81	35	49	45	61	37	46	13	19	34
2	17	20	54	30	58	55	57	40	42	12	19	20
3	17	20	31	28	57	45	64	34	33	11	18	18
4	17	20	25	53	60	42	54	50	28	11	17	16
5	17	20	23	50	286	41	50	44	26	18	17	14
6	18	20	22	43	217	40	48	35	24	14	19	12
7	17	20	22	60	113	40	46	32	23	15	22	30
8	16	19	95	52	76	41	45	31	21	16	20	22
9	16	19	88	141	61	37	45	29	20	14	18	18
10	16	19	41	91	54	43	45	29	21	14	17	16
11	16	20	33	85	52	53	46	28	22	43	17	14
12	16	22	32	103	52	44	48	26	24	39	16	12
13	16	21	31	292	49	129	43	26	23	143	15	18
14	15	19	27	550	44	955	42	24	20	482	14	16
15	16	19	26	195	43	805	73	24	19	780	14	70
16	22	19	46	119	82	256	63	44	18	450	14	50
17	24	19	41	88	135	250	49	74	18	200	12	40
18	20	24	31	67	82	208	46	83	17	100	12	30
19	36	30	28	53	76	805	45	68	16	80	12	28
20	35	31	28	83	67	836	46	45	16	50	12	30
21	21	31	41	113	55	232	41	35	15	40	11	26
22	19	23	34	70	51	158	39	30	16	30	11	24
23	20	20	28	57	51	139	39	28	14	24	9.6	500
24	20	20	28	52	57	123	39	27	14	22	11	200
25	20	21	35	165	61	121	38	26	13	60	11	150
26	20	24	34	229	49	94	36	28	12	30	9.6	400
27	20	21	29	117	46	79	34	26	13	26	9.6	200
28	20	21	63	76	48	64	35	27	23	24	8.7	100
29	19	20	60	61	------	61	37	49	17	22	7.8	70
30	19	20	45	54	------	85	36	73	15	21	7.8	50
31	19	------	37	50	------	73	------	58	------	20	7.4	------
TOTAL	601	642	1,239	3,262	2,131	5,993	1,390	1,210	629	2,824	428.5	2,228
MEAN	19.4	21.4	40.0	105	76.1	193	46.3	39.0	21.0	91.1	13.8	74.3
MAX	36	31	95	550	286	955	73	83	46	780	22	500
MIN	15	19	22	28	43	37	34	24	12	11	7.4	12
CFSM	.41	.45	.84	2.20	1.59	4.04	.97	.82	.44	1.91	.29	1.55
IN.	.47	.50	.96	2.54	1.66	4.66	1.08	.94	.49	2.20	.33	1.73

CAL YR 1974 TOTAL 16,452.8 MEAN 45.1 MAX 878 MIN 9.8 CFSM .94 IN 12.80
WTR YR 1975 TOTAL 22,577.5 MEAN 61.9 MAX 955 MIN 7.4 CFSM 1.30 IN 17.57

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-14	0430	4.22	710	7-15	1930	4.83	1,030
3-14	1800	5.58	1,470	9-23	Unknown	4.18	690
3-19	2130	6.07	1,800				

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

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

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

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

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

EXTREMES.--Current year: Maximum discharge, 10,600 ft^3/s (300 m^3/s) July 19 (gage height, 20.61 ft or 6.282 m); minimum, 85 ft^3/s (2.41 m^3/s) Oct. 16, 17 (gage height, 3.58 ft or 1.091 m).
Period of record: Maximum discharge, 10,600 ft^3/s (300 m^3/s) July 19, 1975 (gage height, 20.61 ft or 6.282 m); minimum, 46 ft^3/s (1.30 m^3/s) Oct. 10, 1973 (gage height, 3.32 ft or 1.012 m).

REMARKS.--Records good. The city of Rocky Mount diverted an average of 8.5 ft^3/s (0.24 m^3/s) for municipal water supply, most of which was returned as sewage below station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	193	376	708	900	936	2,470	424	580	192	250	158
2	165	165	552	572	892	968	3,040	432	462	167	239	240
3	183	190	800	470	952	968	1,670	465	465	167	238	244
4	190	218	664	488	1,120	884	1,210	473	443	168	231	171
5	183	220	460	668	2,290	780	1,090	528	385	151	221	125
6	178	200	352	744	3,320	712	935	500	305	108	210	136
7	178	195	307	796	4,100	628	694	477	190	109	219	142
8	175	163	445	924	4,210	628	360	428	226	110	196	144
9	170	131	640	1,440	2,290	620	360	400	209	117	229	131
10	173	136	932	1,770	1,230	608	357	378	164	145	279	144
11	173	142	812	2,050	1,050	644	363	375	267	141	252	127
12	175	154	568	1,830	956	732	366	321	318	608	224	130
13	175	170	484	4,490	924	828	372	250	446	2,650	174	134
14	170	172	442	6,550	872	2,660	326	284	281	4,330	150	135
15	123	168	406	6,750	824	6,070	433	293	276	6,160	168	132
16	86	175	358	6,800	1,120	6,980	902	317	242	6,310	166	194
17	91	178	481	6,870	3,310	8,700	1,220	324	250	7,380	161	583
18	138	188	596	4,350	3,140	10,100	1,050	572	256	9,590	186	593
19	220	210	616	1,440	2,380	9,650	814	986	244	10,500	173	494
20	316	262	475	876	1,750	8,280	698	1,530	200	9,800	156	537
21	354	277	487	1,380	1,510	7,750	574	1,130	187	6,920	154	1,360
22	330	301	525	2,240	1,230	7,670	544	624	182	1,330	169	1,550
23	260	301	514	2,190	1,030	7,670	537	480	180	624	171	1,190
24	235	274	488	1,400	1,040	4,160	484	471	177	530	170	1,130
25	218	240	464	2,200	1,510	2,040	452	436	172	485	173	1,800
26	200	218	455	3,270	1,790	3,150	446	351	169	752	171	2,650
27	203	232	452	4,070	1,540	2,350	452	320	167	882	166	3,260
28	195	235	536	4,190	1,100	2,310	436	340	170	586	169	3,670
29	183	228	744	2,580	------	1,430	433	327	158	369	164	3,310
30	195	220	916	1,380	------	1,110	439	336	162	298	146	980
31	213	------	876	1,020	------	1,450	------	551	------	284	136	------
TOTAL	6,011	6,156	17,223	76,506	48,380	103,466	23,527	15,123	7,933	71,963	5,911	25,594
MEAN	194	205	556	2,468	1,728	3,338	784	488	264	2,321	191	853
MAX	354	301	932	6,870	4,210	10,100	3,040	1,530	580	10,500	279	3,670
MIN	86	131	307	470	824	608	326	250	158	108	136	125
CFSM	.25	.26	.72	3.18	2.22	4.30	1.01	.63	.34	2.99	.25	1.10
IN.	.29	.29	.82	3.66	2.32	4.95	1.13	.72	.38	3.45	.28	1.23

CAL YR 1974 TOTAL 257,373 MEAN 705 MAX 5,960 MIN 80 CFSM .91 IN 12.32
WTR YR 1975 TOTAL 407,793 MEAN 1,117 MAX 10,500 MIN 86 CFSM 1.44 IN 19.52

02082770 Swift Creek at Hilliardston, N. C.

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

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

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

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

AVERAGE DISCHARGE.--12 years, 144 ft^3/s (4.078 m^3/s), 12.00 in/yr (305 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,400 ft^3/s (68.0 m^3/s) July 14 (gage height, 12.49 ft or 3.807 m); minimum daily, 16 ft^3/s (0.45 m^3/s) July 3.
Period of record: Maximum discharge, 2,800 ft^3/s (79.3 m^3/s) Feb. 5, 1973 (gage height, 12.86 ft or 3.920 m); minimum, 0.60 ft^3/s (0.017 m^3/s) Sept. 25, 26, 1968.
Flood in 1924 reached a stage of 14.5 ft or 4.42 m (discharge not determined), from information by North Carolina State Highway Commission.

REMARKS.--Records good above 100 ft^3/s (2.8 m^3/s) and fair below except those for periods of no gage-height record, which are poor. An average of about 6.0 ft^3/s (0.17 m^3/s) was diverted above station for Henderson municipal water supply. About 0.4 ft^3/s (0.011 m^3/s) of sewage effluent was discharged into the Tar River and about 2.4 ft^3/s (0.068 m^3/s) was diverted into the Roanoke River basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	57	139	134	197	201	298	113	134	18	70	450
2	64	55	211	123	204	232	367	117	113	17	64	300
3	57	57	181	113	243	225	260	117	101	16	58	160
4	52	57	148	154	238	188	230	134	83	18	52	87
5	55	55	101	228	760	172	195	148	71	19	50	50
6	45	55	87	177	691	166	170	136	61	29	70	38
7	50	53	79	232	570	163	154	117	55	40	90	32
8	55	53	159	216	474	161	147	103	48	93	120	77
9	48	50	242	450	292	150	141	97	43	95	80	69
10	40	50	232	372	237	148	141	93	40	69	60	61
11	45	48	165	322	213	190	147	91	41	487	50	47
12	43	52	123	324	202	193	157	87	47	432	43	38
13	43	53	117	963	199	277	150	85	52	966	40	43
14	41	53	109	1,380	184	1,170	139	81	52	1,490	38	55
15	41	53	99	1,050	170	1,790	183	79	47	1,830	36	53
16	65	52	132	960	528	1,900	238	81	38	1,840	80	300
17	75	50	183	559	1,470	1,750	209	103	35	1,790	149	165
18	73	52	150	293	733	1,120	172	184	32	1,650	90	101
19	87	63	128	247	407	1,070	150	277	34	1,000	74	85
20	119	77	111	262	340	1,340	148	235	26	600	60	117
21	109	89	130	397	309	1,370	143	177	28	400	47	138
22	91	85	147	343	267	1,370	126	126	23	230	41	125
23	73	73	130	322	226	654	119	101	23	180	38	384
24	67	63	115	245	306	367	117	105	23	160	36	607
25	63	57	117	634	402	330	117	91	22	380	35	325
26	61	61	139	890	287	292	113	97	23	220	40	643
27	59	67	121	559	242	296	107	87	17	150	52	400
28	59	63	170	482	213	230	105	79	18	100	38	254
29	57	59	218	319	------	201	109	73	19	90	32	156
30	59	55	186	347	------	235	113	91	21	82	29	115
31	57	------	154	216	------	304	------	154	------	76	27	------
TOTAL	1,932	1,767	4,523	13,313	10,604	18,255	4,965	3,659	1,370	14,567	1,789	5,475
MEAN	62.3	58.9	146	429	379	589	166	118	45.7	470	57.7	183
MAX	119	89	242	1,380	1,470	1,900	367	277	134	1,840	149	643
MIN	40	48	79	113	170	148	105	73	17	16	27	32
CFSM	.38	.36	.90	2.63	2.33	3.61	1.02	.72	.28	2.88	.35	1.12
IN.	.44	.40	1.03	3.04	2.42	4.17	1.13	.84	.31	3.32	.41	1.25

CAL YR 1974 TOTAL 52,264 MEAN 143 MAX 1,200 MIN 19 CFSM .88 IN 11.93
WTR YR 1975 TOTAL 82,219 MEAN 225 MAX 1,900 MIN 16 CFSM 1.38 IN 18.76

Note.--No gage-height record July 19 to Sept. 3.

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-13	2400	10.76	1,540	3-20	0030	10.43	1,440
1-25	2400	8.70	1,060	3-22	0500	10.70	1,520
2-17	0730	10.93	1,590	7-14	1830	12.49	2,400
3-16	0300	11.83	1,940				

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

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

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

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

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

AVERAGE DISCHARGE.--16 years, 167 ft^3/s (4.729 m^3/s), 12.96 in/yr (329 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,800 ft^3/s (164 m^3/s) July 15 (gage height, 19.40 ft or 5.913 m, from high-water mark in well); minimum 13 ft^3/s (0.37 m^3/s) July 4 (gage height, 1.46 ft or 0.445 m).
Period of record: Maximum discharge, 18,000 ft^3/s (510 m^3/s) Oct. 7, 1972 (gage height, 24.80 ft or 7.559 m from floodmarks), from rating curve extended above 3,400 ft^3/s (96.3 m^3/s) on basis of slope-conveyance study of peak flow; minimum, 0.83 ft^3/s (0.024 m^3/s) Sept. 26, Oct. 2, 3, 1968.
Flood in July 1959 reached a stage of 19.3 ft (5.88 m), from floodmarks (discharge not determined).

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	41	149	100	165	202	650	114	59	19	49	286
2	41	42	300	100	193	215	308	115	55	16	45	134
3	36	42	162	100	257	204	242	110	51	15	42	54
4	34	42	94	115	229	172	251	124	45	15	39	34
5	33	42	72	190	922	160	200	153	41	16	36	26
6	34	41	63	200	1,020	153	178	117	37	16	36	22
7	34	40	60	220	584	149	168	98	35	26	57	31
8	34	39	144	230	305	151	161	91	32	59	59	60
9	32	37	379	400	233	143	154	87	29	44	46	44
10	30	37	240	335	203	138	170	82	29	82	37	32
11	29	37	117	260	183	200	215	79	29	431	34	26
12	29	37	96	310	179	211	200	75	32	301	32	24
13	28	41	92	1,100	180	452	174	71	81	923	30	27
14	27	41	85	1,500	163	1,760	152	68	52	2,360	28	33
15	27	37	76	1,300	148	2,860	265	64	37	5,400	27	27
16	45	38	113	580	562	2,990	435	68	30	4,000	44	168
17	76	37	185	265	1,250	1,260	260	91	27	2,650	34	188
18	67	39	130	208	817	1,050	191	151	32	852	29	91
19	61	48	97	188	421	1,230	173	177	28	208	27	61
20	97	58	86	190	533	1,180	173	157	24	180	26	62
21	81	60	109	200	409	1,250	148	106	23	132	25	54
22	56	60	140	185	252	600	134	82	21	106	22	53
23	47	55	111	200	217	349	130	70	20	90	20	290
24	44	47	92	230	331	310	128	63	19	88	19	1,210
25	44	44	88	640	554	380	125	59	18	185	18	572
26	43	48	92	890	393	417	118	66	17	115	27	930
27	42	55	90	680	246	256	109	71	17	86	34	892
28	42	51	135	440	216	218	104	59	18	70	25	340
29	41	46	200	285	------	211	111	52	23	62	23	140
30	40	44	140	206	------	269	116	58	22	57	18	105
31	41	------	119	178	------	511	------	63	------	53	16	------
TOTAL	1,366	1,326	4,047	12,025	11,165	19,651	5,943	2,841	983	18,657	1,004	6,016
MEAN	44.1	44.2	131	388	399	634	198	91.6	32.8	602	32.4	201
MAX	97	60	379	1,500	1,250	2,990	650	177	81	5,400	59	1,210
MIN	27	37	60	100	148	138	104	52	17	15	16	22
CFSM	.25	.25	.75	2.22	2.28	3.62	1.13	.52	.19	3.44	.19	1.15
IN.	.29	.28	.86	2.56	2.37	4.18	1.26	.60	.21	3.97	.21	1.28

CAL YR 1974 TOTAL 50,641 MEAN 139 MAX 1,000 MIN 17 CFSM .79 IN 10.76
WTR YR 1975 TOTAL 85,024 MEAN 233 MAX 5,400 MIN 15 CFSM 1.33 IN 18.07

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-14	Unknown	11.44	1,650	3-19	2000	10.66	1,480
2-17	0230	10.47	1,440	7-15	Unknown	19.40	5,800
3-16	0130	16.21	3,300	9-24	0830	10.19	1,390

Note.--No gage-height record July 15.

02083000 Fishing Creek near Enfield, N. C.

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

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

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

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

AVERAGE DISCHARGE.--52 years, 491 ft^3/s (13.91 m^3/s), 12.80 in/yr (325 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,480 ft^3/s (240 m^3/s) July 16 (gage height, 15.96 ft or 4.865 m). minimum, 73 ft^3/s (2.07 m^3/s) July 4 (gage height, 0.74 ft or 0.226 m).
Period of record: Maximum discharge, 12,600 ft^3/s (357 m^3/s) Dec. 2, 1934, Aug. 18, 1940; maximum gage height, 17.72 ft (5.401 m) Aug. 18, 1940; minimum daily discharge, 6.9 ft^3/s (0.20 m^3/s) Oct. 5, 1968.
The flood of Apr. 19, 1910 reached a stage of 20.1 ft (6.13 m), present datum (from floodmarks of Seaboard Coast Line Railroad Co.) at site 2,000 ft (610 m) upstream. Flood of July 24, 1919, reached a stage of 19.6 ft (5.97 m) discharge, 20,300 ft^3/s (575 m^3/s).

REMARKS.--Records good. Slight diurnal fluctuation and some regulation at low flow caused by mills above station. Water quality records for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 872: 1935(M), WSP 1 72: Drainage area. WSP 1333: 1928(M), 1932-33, 1935. See also PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	136	235	341	540	549	1,260	346	282	79	169	184
2	175	133	569	311	542	501	1,300	348	246	78	179	860
3	142	136	549	283	586	633	1,110	348	207	76	166	691
4	128	138	441	303	705	545	900	357	190	81	160	546
5	122	137	301	487	1,730	475	800	420	169	85	152	225
6	119	135	232	490	2,200	445	503	413	152	78	147	147
7	120	134	204	515	2,210	420	541	338	142	74	150	129
8	120	132	255	604	1,590	422	509	296	132	151	183	147
9	117	129	536	931	959	410	468	277	123	210	189	186
10	112	126	632	1,120	676	386	474	265	115	145	171	171
11	109	125	564	967	566	451	524	257	113	837	152	149
12	107	127	389	945	527	550	594	246	116	909	143	132
13	107	131	312	1,980	524	678	579	232	132	1,510	137	124
14	104	136	293	3,350	500	2,440	519	218	168	2,460	131	140
15	102	139	265	3,660	448	4,000	494	208	153	5,270	125	158
16	114	134	278	3,390	730	5,170	899	207	126	7,900	121	266
17	166	129	458	2,270	2,830	5,910	1,040	229	112	7,970	129	726
18	206	131	489	1,140	3,040	5,200	764	364	113	6,820	132	459
19	201	142	373	705	1,990	3,640	589	576	137	4,730	126	288
20	227	170	303	631	1,390	3,590	522	570	108	2,190	119	225
21	285	205	310	1,040	1,230	3,390	512	440	98	963	115	258
22	234	202	397	1,190	864	3,200	458	424	91	513	112	646
23	179	198	401	918	671	2,800	413	263	87	384	106	603
24	157	173	326	692	692	1,470	395	232	85	336	100	1,960
25	146	155	300	1,230	1,410	1,070	365	248	83	379	96	2,260
26	145	155	324	2,190	1,300	1,030	376	229	81	402	92	1,910
27	141	166	308	2,200	874	937	357	240	80	330	95	2,090
28	140	177	334	1,600	652	742	335	215	78	272	115	1,640
29	139	166	498	998	------	650	340	198	76	237	111	766
30	137	154	494	723	------	633	339	176	77	216	102	436
31	136	------	396	606	------	937	------	236	------	200	92	------
TOTAL	4,693	4,453	12,160	37,815	32,077	53,462	18,419	9,306	3,892	45,935	4,139	16,385
MEAN	151	148	392	1,220	1,145	1,725	614	300	130	1,483	134	620
MAX	285	205	632	3,660	3,040	5,910	1,300	576	282	7,970	189	2,260
MIN	102	125	204	283	448	368	335	176	76	76	92	124
CFSM	.29	.28	.75	2.34	2.20	3.31	1.18	.58	.25	2.85	.26	1.19
IN.	.34	.32	.87	2.70	2.29	3.82	1.32	.66	.28	3.28	.30	1.33

CAL YR 1974 TOTAL 142,468 MEAN 390 MAX 1,990 MIN 67 CFSM .75 IN 10.17
WTR YR 1975 TOTAL 244,986 MEAN 671 MAX 7,970 MIN 76 CFSM 1.29 IN 17.49

02083500 Tar River at Tarboro, N. C.

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

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

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

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

AVERAGE DISCHARGE.--48 years, 2,248 ft^3/s (63.66 m^3/s), 14.27 in/yr (362 mm/yr).

EXTREMES.--Current year: Maximum discharge, 22,600 ft^3/s (640 m^3/s) Mar. 21 (gage height, 27.08 ft or 8.254 m); minimum, 269 ft^3/s (7.62 m^3/s) July 3 (gage height, 1.99 ft or 0.607 m).
Period of record: Maximum discharge, 37,200 ft^3/s (1,050 m^3/s) Aug. 20, 1940 (gage height, 31.77 ft or 9.683 m); minimum, 36 ft^3/s (1.02 m^3/s) Oct. 17, 22, 1933, Oct. 6, 1968.
Flood of July 27, 1919, reached a stage of 34.0 ft (10.36 m), present datum, from floodmarks (discharge, 52,800 ft^3/s or 1,500 m^3/s).

REMARKS.--Records excellent. Some diurnal fluctuation at low flow caused by mills above station. Town of Tarboro diverted 2.6 ft^3/s (0.074 m^3/s) for municipal water supply. Water quality records for current year are published in Section 2 of this report.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	638	514	959	2,380	5,310	4,720	3,780	1,280	1,080	397	1,080	710
2	689	512	1,600	2,130	3,930	4,030	4,530	1,290	1,240	340	940	1,310
3	622	471	1,660	1,900	3,450	3,750	5,240	1,270	1,160	288	801	1,150
4	607	473	1,900	1,730	3,330	3,470	5,010	1,320	1,010	303	736	1,340
5	634	491	1,790	1,900	4,690	3,130	4,120	1,370	953	488	724	1,140
6	597	495	1,430	2,140	6,260	2,780	3,450	1,430	811	457	685	844
7	550	496	1,270	2,450	7,050	2,550	2,950	1,410	717	376	614	548
8	519	493	1,340	2,620	7,890	2,350	2,480	1,300	551	474	586	581
9	497	483	1,490	3,090	8,550	2,210	2,000	1,210	475	689	621	553
10	481	446	2,130	3,920	8,450	2,100	1,900	1,130	524	609	576	506
11	472	434	2,500	4,530	6,500	2,050	1,980	1,050	477	1,050	639	514
12	464	436	2,390	5,260	4,760	2,090	2,060	1,000	475	1,970	638	537
13	457	438	1,990	6,010	3,820	2,310	2,080	969	709	4,190	575	531
14	450	456	1,760	6,010	3,200	3,510	1,980	821	803	5,940	530	495
15	445	462	1,600	10,200	2,880	6,380	2,160	787	581	7,460	479	460
16	419	468	1,480	12,200	2,770	8,700	3,050	800	557	8,960	456	536
17	434	476	1,460	13,800	4,620	11,300	3,580	900	550	11,100	475	1,100
18	430	483	1,560	15,000	6,660	15,400	3,860	952	485	15,500	542	1,730
19	505	495	1,750	14,900	7,660	19,400	3,580	2,110	506	19,000	592	2,180
20	700	522	1,690	11,000	8,820	21,700	2,980	2,530	484	20,500	516	1,760
21	750	612	1,570	8,560	9,340	22,400	2,510	2,620	490	21,700	465	1,480
22	817	675	1,690	6,660	8,660	22,100	2,160	2,270	411	21,400	429	1,930
23	831	692	1,780	6,000	6,790	20,900	1,930	1,590	365	16,200	425	2,410
24	733	708	1,750	5,630	5,390	19,500	1,770	1,340	368	11,000	419	2,710
25	652	679	1,630	5,430	4,900	16,900	1,620	1,240	356	6,640	409	3,690
26	623	648	1,570	6,600	5,050	13,300	1,510	1,150	338	5,150	388	4,730
27	589	617	1,550	8,200	5,310	10,400	1,430	1,010	367	4,800	397	5,590
28	569	626	1,680	8,400	5,310	8,110	1,370	962	362	3,140	381	6,280
29	554	632	2,020	8,880	------	6,190	1,310	991	370	2,100	368	6,600
30	528	609	2,270	8,960	------	4,500	1,280	856	434	1,560	374	6,700
31	521	------	2,490	7,200	------	3,730	------	941	------	1,230	379	------
TOTAL	17,777	16,042	54,319	205,710	161,350	271,960	79,660	39,899	18,009	195,011	17,239	60,645
MEAN	573	535	1,752	6,636	5,763	8,773	2,655	1,287	600	6,291	556	2,022
MAX	831	708	2,500	15,000	9,340	22,400	5,240	2,620	1,240	21,700	1,080	6,700
MIN	419	434	959	1,730	2,770	2,050	1,280	787	338	288	368	460
CFSM	.27	.25	.82	3.10	2.69	4.10	1.24	.60	.28	2.94	.26	.94
IN.	.31	.28	.94	3.58	2.80	4.73	1.38	.69	.31	3.39	.30	1.05

CAL YR 1974 TOTAL 657,678 MEAN 1,802 MAX 6,330 MIN 170 CFSM .84 IN 11.43
WTR YR 1975 TOTAL 1,137,521 MEAN 3,117 MAX 22,400 MIN 288 CFSM 1.46 IN 19.78

02083800 Conetoe Creek near Bethel, N. C.

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

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

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

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

AVERAGE DISCHARGE.--18 years, (1957-75) 88.0 ft^3/s (2.492 m^3/s), 15.30 in/yr (389 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,080 ft^3/s (30.6 m^3/s) Mar. 21 (gage height, 12.74 ft or 3.883 m); minimum daily, 1.9 ft^3/s (0.054 m^3/s) Aug. 25.
Period of record: Maximum discharge, 2,580 ft^3/s (73.1 m^3/s) Aug. 23, 1967 (gage height, 15.74 ft or 4.798 m); minimum daily, 1.3 ft^3/s (0.037 m^3/s) Nov. 6, 1968.
Flood of 1955 reached a stage of 16.7 ft (5.09 m), from information by local resident (discharge not determined).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	18	132	97	121	127	86	37	20	8.8	23	237
2	28	17	141	86	120	146	83	39	19	8.0	21	131
3	26	17	93	75	137	139	106	37	18	7.7	19	49
4	25	17	71	88	125	114	125	37	17	7.7	17	30
5	24	16	58	150	463	101	96	37	16	8.0	16	22
6	23	16	51	126	432	92	82	33	15	8.8	15	19
7	22	16	47	156	260	85	72	31	15	8.8	22	18
8	22	16	121	139	187	81	66	28	14	11	19	20
9	21	15	177	204	152	72	60	27	14	12	13	21
10	20	15	121	173	129	68	65	26	13	9.6	11	17
11	19	15	96	213	115	70	81	25	13	51	9.0	15
12	19	15	85	311	106	68	92	24	14	137	7.3	14
13	18	15	88	684	100	82	84	23	15	98	6.0	19
14	18	15	83	883	90	194	72	22	14	60	5.3	20
15	18	15	71	746	82	400	260	21	13	72	4.4	16
16	21	14	73	373	111	234	354	21	12	111	4.0	19
17	33	14	75	246	587	306	207	21	12	77	3.6	85
18	26	15	86	199	420	285	149	23	11	68	3.2	67
19	25	16	58	174	290	536	120	27	11	98	2.8	53
20	31	16	57	181	257	1000	102	29	10	56	2.6	45
21	30	18	89	253	188	1050	86	26	10	44	2.4	54
22	28	17	129	199	151	715	74	24	9.8	41	2.3	129
23	25	16	104	164	134	349	66	22	9.3	34	2.2	100
24	24	16	90	155	214	238	59	21	9.1	27	2.0	89
25	23	16	84	429	543	234	54	20	8.8	39	1.9	127
26	21	17	76	645	276	176	49	20	8.8	240	2.5	169
27	20	17	67	366	185	136	44	20	8.5	171	4.0	230
28	20	17	112	230	147	116	42	31	9.6	85	5.4	171
29	19	16	143	185	---	106	41	22	10	53	6.6	110
30	18	16	120	156	---	102	39	21	9.3	36	6.2	85
31	18	---	102	134	---	94	---	24	---	26	5.1	---
TOTAL	713	479	2675	8220	6122	7517	2916	819	379.2	1716.4	264.8	2181
MEAN	23.0	16.0	92.7	265	219	242	97.2	26.4	12.6	55.4	8.54	72.7
MAX	33	18	177	883	587	1050	354	39	20	240	23	237
MIN	18	14	47	75	82	68	39	20	8.5	7.7	1.9	14
CFSM	.29	.20	1.19	3.39	2.80	3.10	1.24	.34	.16	.71	.11	.93
IN.	.34	.23	1.37	3.92	2.92	3.58	1.39	.39	.18	.82	.13	1.04

CAL YR 1974 TOTAL 35770.8 MEAN 98.0 MAX 845 MIN 8.6 CFSM 1.25 IN 17.04
WTR YR 1975 TOTAL 34202.4 MEAN 93.7 MAX 1050 MIN 1.9 CFSM 1.20 IN 16.29

PEAK DISCHARGE (BASE, 470 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-14	1530	11.73	900	2-25	0600	9.08	618
1-26	0700	9.78	688	3-21	0500	12.74	1,080
2- 5	1700	8.92	602	4-15	2230	7.68	478
2-17	1430	9.47	657				

02084500 Herring Run near Washington, N. C.

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

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

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

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

AVERAGE DISCHARGE.--25 years. 10.6 ft^3/s (0.300 m^3/s), 9.60 in/yr (244 mm/yr).

EXTREMES.--Current year: Maximum discharge, 134 ft^3/s (3.79 m^3/s) July 14 (gage height, 9.49 ft or 2.893 m); minimum, 0.74 ft^3/s (0.021 m^3/s) Sept. 5, 6, 7 (gage height, 5.10 ft or 1.554 m).
Period of record: Maximum discharge, 620 ft^3/s (17.6 m^3/s) Sept. 13, 1964 (gage height, 14.85 ft or 4.526 m from floodmark); minimum, 0.60 ft^3/s (0.017 m^3/s) July 5-8, 1964.
Flood in 1946 reached a stage of 17 ft (5.2 m), from information by local resident (discharge not determined).

REMARKS.--Records good. Runoff affected by ditches and canals above station. Water quality records for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	1.2	34	14	9.3	12	5.7	3.6	3.6	1.0	2.0	1.2
2	2.1	1.3	27	12	11	12	5.3	14	2.9	1.0	1.7	.91
3	2.0	1.2	19	11	14	11	6.6	13	2.4	1.0	1.5	.84
4	1.8	1.3	14	11	13	11	6.2	10	2.0	1.1	1.4	.82
5	1.8	1.1	12	15	28	8.9	5.4	9.5	1.8	1.1	1.3	.78
6	1.8	1.1	10	14	25	8.2	4.7	7.8	1.5	1.0	1.2	.78
7	1.7	1.1	9.1	13	20	7.5	4.2	6.2	1.4	1.9	1.3	1.5
8	1.7	1.1	8.9	12	16	6.7	3.9	5.1	1.3	1.1	1.2	5.3
9	1.6	1.2	11	15	14	5.8	3.7	4.3	1.2	1.0	1.1	3.6
10	1.5	1.1	11	14	12	5.1	4.0	3.8	1.2	.92	1.0	2.1
11	1.5	1.1	8.8	22	11	5.3	6.0	3.3	1.2	10	.99	1.4
12	1.4	1.2	7.0	27	11	5.5	13	3.0	1.2	12	.94	1.2
13	1.4	1.2	7.0	36	10	7.7	12	2.7	1.2	7.6	.90	1.1
14	1.4	1.1	6.3	35	9.8	22	9.7	2.3	1.1	54	.88	.96
15	1.3	1.2	5.9	27	9.0	30	63	2.1	1.1	71	.87	.88
16	1.3	1.2	5.7	23	9.9	23	46	2.2	1.1	51	.85	.99
17	1.5	1.2	5.7	19	26	31	33	2.2	1.1	46	1.9	.95
18	1.4	1.6	5.2	16	23	28	25	2.1	1.0	31	4.2	.90
19	2.1	2.0	4.3	15	45	40	20	2.4	1.0	23	2.5	.90
20	2.7	2.4	4.6	23	41	36	19	2.3	.99	16	2.2	.89
21	2.2	3.4	15	35	30	27	16	2.1	.98	11	1.7	1.5
22	1.9	2.8	21	29	24	22	13	1.9	.96	7.1	1.3	4.9
23	1.8	2.4	16	24	20	18	9.7	1.9	.95	5.1	1.1	5.9
24	1.7	2.1	13	27	21	15	7.9	2.4	.98	4.2	1.0	7.2
25	1.6	2.0	12	35	26	14	6.4	2.4	.99	4.2	1.0	11
26	1.5	2.2	10	38	20	11	5.5	2.3	1.0	5.0	.94	12
27	1.5	2.2	9.5	29	16	9.1	4.8	2.9	1.1	4.5	.90	8.5
28	1.4	2.1	18	23	13	8.0	4.3	5.8	1.5	3.6	.87	6.7
29	1.4	2.1	23	18	------	7.5	4.1	4.0	1.1	2.8	.84	4.8
30	1.3	2.0	19	15	------	7.0	3.8	4.2	1.0	2.3	.84	4.1
31	1.2	------	15	11	------	6.2	------	4.2	------	2.3	.81	------
TOTAL	51.9	49.2	388.0	658	528.0	461.5	371.9	136.0	40.85	384.82	41.23	94.60
MEAN	1.67	1.64	12.5	21.2	18.9	14.9	12.4	4.39	1.36	12.4	1.33	3.15
MAX	2.7	3.4	34	38	45	40	63	14	3.6	71	4.2	12
MIN	1.2	1.1	4.3	11	9.0	5.1	3.7	1.9	.95	.92	.81	.78

CAL YR 1974 TOTAL 4,271.40 MEAN 11.7 MAX 87 MIN 1.1
WTR YR 1975 TOTAL 3,206.00 MEAN 8.78 MAX 71 MIN .78

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G. H.	DISCHARGE
7-14	1900	9.49	134

PAMLICO RIVER BASIN

02084540 Durham Creek at Edward, N. C.

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

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

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

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

AVERAGE DISCHARGE.--10 years, 39.7 ft^3/s (1.124 m^3/s), 25.67 in/yr (652 mm/yr).

EXTREMES.--Current year: Maximum discharge, 436 ft^3/s (12.3 m^3/s) May 19 (gage height, 8.58 ft or 2.615 m); no flow June 19-29, July 3, 6, Aug. 15 to Sept. 16.
Period of record: Maximum discharge, 2,070 ft^3/s (58.6 m^3/s) Oct. 1, 1971 (gage height, 13.24 ft or 4.036 m); no flow at times many years.

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

REVISIONS.--WRD N. C. 1974: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	8.0	90	77	51	38	19	20	7.7	.12	3.4	0
2	5.3	7.5	86	67	46	34	22	21	6.2	.01	3.0	0
3	4.8	7.0	70	53	56	31	25	19	5.1	0	2.2	0
4	4.3	6.5	56	54	55	27	29	18	4.4	.03	1.4	0
5	4.0	6.2	45	64	271	24	30	16	3.6	.03	.89	0
6	3.7	5.8	38	63	367	22	30	14	2.9	0	.55	0
7	3.7	5.6	33	57	278	20	29	12	2.4	.29	.54	0
8	4.6	5.4	40	52	200	19	27	11	1.7	.57	.66	0
9	4.6	5.1	50	54	152	18	24	10	1.2	.57	.73	0
10	4.4	5.0	56	55	119	16	22	9.0	.90	.51	.51	0
11	3.9	4.9	56	73	96	16	25	8.2	.64	.53	.40	0
12	3.4	4.8	50	173	81	16	47	9.8	.51	8.8	.32	0
13	3.1	4.8	47	262	69	16	56	17	.65	46	.14	0
14	2.8	4.8	43	338	57	71	52	17	.80	95	.01	0
15	2.5	4.6	39	272	49	129	112	13	.68	68	0	0
16	2.4	4.4	37	198	46	98	224	33	.41	54	0	0
17	5.2	4.3	34	150	61	98	214	77	.22	105	0	.22
18	8.0	5.1	33	117	66	107	160	322	.06	136	0	1.1
19	10	9.0	29	97	94	111	116	400	0	87	0	.98
20	13	14	31	94	148	144	100	286	0	49	0	.86
21	14	24	74	139	138	118	106	184	0	32	0	.82
22	14	26	119	136	113	90	93	109	0	22	0	1.2
23	14	23	121	116	91	74	79	67	0	15	0	5.1
24	14	17	103	107	77	59	64	47	0	10	0	14
25	13	14	84	121	68	54	50	33	0	7.5	0	31
26	12	15	67	169	59	43	39	28	0	6.3	0	62
27	11	15	52	178	50	33	33	23	0	5.1	0	77
28	10	14	63	141	43	27	28	22	0	4.1	0	65
29	9.5	13	94	108	---	23	25	15	0	3.4	0	51
30	9.0	13	97	85	---	21	22	11	.11	2.8	0	43
31	8.5	---	89	66	---	19	---	9.6	---	2.9	0	---
TOTAL	228.9	296.8	1928	3736	3001	1616	1902	1881.6	40.18	762.56	14.75	353.28
MEAN	7.38	9.89	62.2	121	107	52.1	63.4	60.7	1.34	24.6	.48	11.8
MAX	14	26	121	338	367	144	224	400	7.7	136	3.4	77
MIN	2.4	4.3	29	52	43	16	19	8.2	0	0	0	0

CAL YR 1974 TOTAL 16848.30 MEAN 46.2 MAX 574 MIN 2.2
WTR YR 1975 TOTAL 15761.07 MEAN 43.2 MAX 400 MIN 0

02085070 Eno River near Durham, N. C.

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

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

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

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

AVERAGE DISCHARGE.--12 years, 132 ft^3/s (3.738 m^3/s), 12.71 in/yr (323 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,570 ft^3/s (243 m^3/s) July 14 (gage height, 18.60 ft or 5.669 m); minimum, 14 ft^3/s (0.40 m^3/s) Sept. 6, 7 (gage height, 1.56 ft or 0.475 m).
Period of record: Maximum discharge, 9,080 ft^3/s (257 m^3/s) Feb. 7, 1965 (gage height, 15.18 ft or 4.627 m, site and datum then in use); minimum, 0.53 ft^3/s (0.015 m^3/s) Oct. 1, 5, 1968.

REMARKS.--Records good.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	32	255	114	150	158	305	92	117	28	43	19
2	38	32	183	94	163	148	239	93	101	25	42	19
3	35	32	86	80	202	130	234	87	72	22	39	19
4	33	32	61	96	326	118	210	138	59	22	38	18
5	32	31	51	119	1,390	111	175	132	52	22	35	17
6	33	29	46	114	725	107	159	93	48	22	48	15
7	33	28	45	289	408	104	147	78	45	48	129	23
8	33	26	834	231	282	109	138	74	41	48	107	59
9	32	26	374	511	234	104	132	69	39	47	52	40
10	32	26	171	262	196	102	128	67	38	110	42	29
11	32	26	112	2,360	177	130	126	69	37	474	39	24
12	31	30	93	982	174	126	131	66	38	354	38	29
13	30	54	84	2,550	174	1,630	123	61	41	957	35	55
14	30	42	76	1,070	150	4,470	112	56	41	5,610	33	45
15	30	35	68	438	133	1,910	225	59	38	2,180	32	32
16	30	32	122	307	153	544	244	239	35	2,050	29	26
17	31	31	159	239	202	1,260	161	140	34	556	29	24
18	32	32	109	196	191	606	139	489	34	330	26	21
19	57	35	85	177	257	2,450	126	412	33	218	28	270
20	67	47	77	424	229	1,010	116	174	30	146	134	232
21	44	58	94	548	166	469	104	112	28	112	49	69
22	37	56	107	292	145	355	93	86	26	88	35	102
23	33	41	87	224	141	345	91	73	26	76	31	1,040
24	32	36	77	191	296	348	89	65	24	83	28	1,470
25	32	34	82	1,170	385	502	87	72	23	73	26	1,310
26	32	34	88	788	223	301	83	66	22	65	25	992
27	32	34	85	362	176	231	80	59	28	56	23	422
28	32	33	268	260	172	204	79	80	42	51	20	229
29	32	32	348	221	------	207	86	64	36	48	19	153
30	32	31	201	191	------	522	86	118	32	45	18	119
31	32	------	142	164	------	591	------	139	------	44	17	------
TOTAL	1,083	1,047	4,670	15,064	7,620	19,402	4,248	3,622	1,260	14,010	1,289	6,922
MEAN	34.9	34.9	151	486	272	626	142	117	42.0	452	41.6	231
MAX	67	58	834	2,550	1,390	4,470	305	489	117	5,610	134	1,470
MIN	30	26	45	80	133	102	79	56	22	22	17	15
CFSM	.25	.25	1.07	3.45	1.93	4.44	1.01	.83	.30	3.21	.30	1.64
IN.	.29	.28	1.23	3.97	2.01	5.12	1.12	.96	.33	3.70	.34	1.83

CAL YR 1974 TOTAL 52,645.1 MEAN 144 MAX 3,680 MIN 8.2 CFSM 1.02 IN 13.89
WTR YR 1975 TOTAL 80,237.0 MEAN 220 MAX 5,610 MIN 15 CFSM 1.56 IN 21.17

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	1430	12.92	4,280	3-19	1430	12.25	3,940
1-13	1530	11.70	3,670	7-14	0900	18.60	8,570
3-14	1430	15.41	5,710	7-16	0100	11.58	3,610

02085220 Little River near Orange Factory, N. C.

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

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

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

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

AVERAGE DISCHARGE.--14 years, 74.8 ft^3/s (2.118 m^3/s), 12.45 in/yr (316 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,320 ft^3/s (151 m^3/s) July 14 (gage height, 9.22 ft or 2.810 m); minimum, 8.0 ft^3/s (0.23 m^3/s) Sept. 6, 7 (gage height, 0.83 ft or 0.253 m).
Period of record: Maximum discharge, 9,070 ft^3/s (257 m^3/s) Oct. 25, 1971 (gage height, 12.56 ft or 3.828 m from high-water mark in well); minimum daily, 0.05 ft^3/s (0.001 m^3/s) Oct. 5, 6, 1968.
A field estimate of 0.03 ft^3/s (0.001 m^3/s) was made on Sept. 18, 19, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	13	82	52	74	68	136	46	38	14	28	9.5
2	17	13	54	44	92	63	106	49	36	13	27	9.5
3	15	13	29	39	116	59	100	45	29	12	26	9.8
4	14	13	21	42	229	55	90	58	26	13	25	9.6
5	15	12	17	53	908	55	75	53	24	17	23	8.9
6	15	12	15	60	345	54	68	45	23	15	23	8.3
7	15	12	15	150	182	57	64	40	21	36	86	13
8	15	12	430	98	125	60	60	39	20	38	40	25
9	14	12	139	229	104	58	58	37	20	29	26	17
10	14	12	69	106	91	63	57	37	19	76	23	12
11	13	12	51	1,720	85	73	57	38	20	306	22	11
12	13	16	43	494	87	75	59	38	22	161	22	14
13	12	20	39	1,780	86	1,350	55	34	23	706	20	20
14	12	15	36	552	69	3,040	52	31	21	3,090	19	17
15	12	13	32	172	61	1,020	118	34	19	1,250	19	12
16	12	12	60	121	70	230	110	132	18	1,090	18	10
17	14	12	74	97	101	870	74	72	22	177	17	11
18	14	13	45	87	93	265	67	285	18	105	17	10
19	22	14	40	83	91	2,290	63	169	17	67	17	29
20	27	17	36	253	79	486	57	71	16	50	32	43
21	19	20	46	254	64	196	54	50	15	41	20	18
22	15	21	53	131	60	146	52	41	15	33	15	17
23	15	16	41	102	71	148	49	36	15	30	14	436
24	14	13	36	90	203	148	47	34	14	29	13	497
25	15	13	36	872	162	240	46	33	13	29	12	647
26	14	14	38	372	92	123	44	31	13	28	12	498
27	13	13	35	153	77	94	42	29	14	27	11	132
28	14	13	121	117	74	82	43	28	23	26	10	68
29	13	13	137	104	------	97	45	27	18	26	10	47
30	13	12	80	92	------	745	44	45	15	27	9.8	39
31	13	------	63	81	------	317	------	37	------	28	9.3	------
TOTAL	461	416	2,013	8,600	3,891	12,627	1,992	1,744	607	7,589	666.1	2,698.6
MEAN	14.9	13.9	64.9	277	139	407	66.4	56.3	20.2	245	21.5	90.0
MAX	27	21	430	1,780	908	3,040	136	285	38	3,090	86	647
MIN	12	12	15	39	60	54	42	27	13	12	9.3	8.3
CFSM	.18	.17	.80	3.39	1.70	4.99	.81	.69	.25	3.00	.26	1.10
IN.	.21	.19	.92	3.92	1.77	5.76	.91	.80	.28	3.46	.30	1.23

CAL YR 1974 TOTAL 25,026.2 MEAN 68.6 MAX 2,590 MIN 4.8 CFSM .84 IN 11.41
WTR YR 1975 TOTAL 43,304.7 MEAN 119 MAX 3,090 MIN 8.3 CFSM 1.46 IN 19.74

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	1100	7.06	3,300	3-30	1700	4.97	1,730
1-13	1300	6.11	2,540	7-14	0700	9.22	5,320
3-14	1930	7.33	3,510	7-15	2230	6.29	2,680
3-19	1400	7.45	3,610				

02085500 Flat River at Bahama, N. C.

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

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

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

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

AVERAGE DISCHARGE.--50 years, 144 ft^3/s (4.078 m^3/s), 13.04 in/yr (331 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,400 ft^3/s (493 m^3/s) July 14 (gage height, 12.31 ft or 3.752 m); minimum, 13 ft^3/s (0.37 m^3/s) Sept. 6; minimum gage height, 1.23 ft or 0.375 m July 4.
Period of record: Maximum discharge, about 20,000 ft^3/s (566 m^3/s) July 26, 1938 (gage height, not determined), computed on basis of records for nearby stations; minimum, 0.23 ft^3/s (0.007 m^3/s) Sept. 26, 28, 29, Oct. 1, 1968.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	27	254	96	148	135	319	72	73	21	68	17
2	35	27	180	84	204	125	241	80	150	18	55	16
3	31	26	85	71	295	112	227	83	85	16	50	16
4	29	27	61	80	268	100	208	86	57	17	46	16
5	29	27	49	112	2,010	96	164	108	49	50	44	15
6	29	26	43	104	1,030	92	145	84	44	49	56	14
7	29	26	41	340	494	91	135	68	39	67	279	23
8	30	26	778	189	321	95	127	62	36	134	122	66
9	29	25	317	440	248	88	119	60	33	364	62	36
10	28	25	143	228	202	85	115	56	32	638	50	26
11	27	25	96	3,320	176	111	114	59	32	2,480	45	21
12	28	30	80	1,030	177	119	114	78	34	753	42	24
13	27	52	73	3,730	209	2,880	106	61	37	2,450	39	44
14	26	41	66	1,180	155	7,030	97	53	36	9,900	37	39
15	25	33	59	458	134	1,890	253	51	32	2,210	35	26
16	23	28	120	315	140	570	255	169	57	2,840	33	20
17	21	27	189	236	204	2,100	149	193	144	893	32	19
18	22	28	106	192	185	691	125	482	52	400	30	18
19	34	29	81	173	165	4,910	115	444	34	242	29	23
20	47	34	70	583	172	1,260	104	163	29	170	29	28
21	42	52	86	638	133	516	95	111	26	133	28	27
22	31	54	107	307	115	382	88	80	24	110	26	24
23	28	38	79	227	125	460	85	67	22	93	25	495
24	29	32	67	192	370	360	82	215	21	87	23	788
25	29	31	67	1,640	415	612	78	111	20	115	34	1,220
26	29	30	69	847	206	307	76	79	19	84	42	993
27	29	31	63	368	156	222	72	63	18	70	28	308
28	28	32	201	258	147	192	68	92	18	64	21	146
29	27	30	267	214	------	220	70	77	19	59	20	98
30	27	28	157	185	------	1,210	76	71	23	55	18	78
31	26	------	118	156	------	610	------	75	------	156	17	------
TOTAL	911	947	4,172	17,993	8,604	27,671	4,022	3,553	1,295	24,738	1,465	4,684
MEAN	29.4	31.6	135	580	307	893	134	115	43.2	798	47.3	156
MAX	47	54	778	3,730	2,010	7,030	319	482	150	9,900	279	1,220
MIN	21	25	41	71	115	85	68	51	18	16	17	14
CFSM	.20	.21	.90	3.87	2.05	5.95	.89	.77	.29	5.32	.32	1.04
IN.	.23	.23	1.03	4.46	2.13	6.86	1.00	.88	.32	6.14	.36	1.16

CAL YR 1974 TOTAL 60,468.0 MEAN 166 MAX 8,230 MIN 9.1 CFSM 1.11 IN 15.00
WTR YR 1975 TOTAL 100,055.0 MEAN 274 MAX 9,900 MIN 14 CFSM 1.83 IN 24.81

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	1130	7.63	5,800	7-11	0630	6.98	4,720
1-13	1500	7.32	5,260	7-14	0600	12.31	17,400
3-14	1700	9.02	8,540	7-16	0300	7.19	5,050
3-19	1430	8.38	7,260				

02087000 Neuse River near Northside, N. C.

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

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

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

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

AVERAGE DISCHARGE.--48 years, 523 ft^3/s (14.81 m^3/s), 13.50 in/yr (343 mm/yr).

EXTREMES.--Current year: Maximum discharge, 16,000 ft^3/s (453 m^3/s) July 15; maximum gage height, 25.34 ft or 7.724 m July 16; minimum discharge, 29 ft^3/s (0.82 m^3/s) Oct. 14; minimum gage height, 1.40 ft or 0.427 m Sept. 6, 7.
Period of record: Maximum discharge, 36,600 ft^3/s (1,040 m^3/s) Sept. 18, 1945; maximum gage height, 31.02 ft or 9.455 m Sept. 18, 1945, from floodmark; minimum discharge, 3.1 ft^3/s (0.088 m^3/s) Sept. 30, 1932 (gage height 0.87 ft or 0.265 m).

REMARKS.--Records good. Slight diurnal fluctuation caused by water plants above station. Flow regulated by Lake Michie (see p. 152). An average of 23.4 ft^3/s (0.66 m^3/s) was diverted from Flat River, an upstream tributary, for Durham municipal water supply, and an average of 2.9 ft^3/s (0.082 m^3/s) from Knap of Reeds Creek, an upstream tributary for Butner municipal water supply. Sewage effluent from Durham (about 10.5 ft^3/s or 0.30 m^3/s) and Butner was returned to Neuse River 3 mi (5 km) upstream from station, the remainder, about 10.9 ft^3/s (0.31 m^3/s) was diverted into the Cape Fear River basin.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	58	449	447	547	534	2,090	266	377	48	207	79
2	127	57	651	382	547	500	940	276	369	41	184	36
3	113	53	346	308	788	469	798	282	304	35	162	36
4	109	72	234	338	863	408	745	256	221	33	152	37
5	103	64	221	430	3,040	378	602	408	177	63	168	35
6	87	62	172	408	4,910	356	523	347	157	48	150	36
7	90	58	142	815	4,320	344	493	270	145	108	300	55
8	97	55	880	930	1,020	345	454	229	117	188	478	84
9	61	54	1,990	1,740	910	352	427	208	108	127	291	128
10	44	63	944	1,450	736	337	412	196	109	348	184	80
11	41	62	472	1,820	630	421	398	191	109	1,840	152	57
12	36	65	334	5,790	581	434	413	188	112	3,140	139	70
13	33	72	302	7,740	616	1,540	403	204	121	3,350	142	96
14	29	121	260	9,470	562	6,730	372	189	133	7,370	140	107
15	33	96	230	6,290	491	1,400	512	180	117	15,600	156	81
16	45	75	320	3,100	506	10,600	913	399	138	11,600	120	58
17	73	59	525	1,560	800	6,340	638	605	107	6,900	112	48
18	48	75	484	1,060	742	4,460	483	919	126	4,200	113	44
19	137	123	343	686	778	5,610	432	2,180	142	3,210	117	251
20	174	148	276	891	899	9,740	392	1,060	135	2,320	138	570
21	133	200	306	2,340	633	5,130	351	496	61	1,430	234	246
22	92	187	363	1,660	511	2,680	322	356	40	636	155	126
23	74	135	357	958	476	1,460	294	254	34	351	148	1,240
24	65	86	284	724	654	1,060	285	239	39	362	108	2,460
25	60	69	280	1,910	1,340	1,870	274	320	41	445	96	4,060
26	59	83	301	4,080	969	1,310	264	280	36	339	59	5,500
27	57	70	280	3,880	639	832	251	218	36	271	51	5,120
28	54	64	640	1,790	580	686	246	226	246	233	48	2,480
29	59	83	1,230	886	------	654	253	233	83	212	41	888
30	61	111	862	708	------	1,380	255	288	58	191	38	395
31	59	------	585	593	------	2,930	------	382	------	209	33	------
TOTAL	2,428	2,600	15,063	65,184	30,088	71,292	15,235	12,145	3,998	65,248	4,616	24,503
MEAN	78.3	86.7	486	2,103	1,075	2,300	508	392	133	2,105	149	817
MAX	175	200	1,990	9,470	4,910	10,600	2,090	2,180	377	15,600	478	5,500
MIN	29	53	142	308	476	337	246	180	34	33	33	35
CFSM	.15	.16	.92	4.00	2.04	4.37	.97	.75	.25	4.00	.28	1.55
IN.	.17	.18	1.07	4.61	2.13	5.04	1.08	.86	.28	4.61	.33	1.73

CAL YR 1974 TOTAL 180,958 MEAN 496 MAX 8,260 MIN 25 CFSM .94 IN 12.80
WTR YR 1975 TOTAL 312,400 MEAN 856 MAX 15,600 MIN 29 CFSM 1.63 IN 22.09

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-14	1800	21.84	10,300	3-15	1300	24.56	15,400
1-27	0100	16.88	4,800	7-15	1000	a25.34	16,000
2- 6	1800	17.33	5,160	9-26	2200	18.06	5,760

a at 2000 July 16

02087183 Neuse River near Falls, N. C.

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

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

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

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

AVERAGE DISCHARGE.--5 years, 1,023 ft^3/s (28.97 m^3/s), 18.04 in/yr (458 mm/yr).

EXTREMES.--Current year: Maximum discharge, 13,600 ft^3/s (385 m^3/s) July 17 (gage height, 25.21 ft or 7.684 m); minimum daily, 38 ft^3/s (1.08 m^3/s) Sept. 6.
Period of record: Maximum discharge, 13,600 ft^3/s (385 m^3/s) July 17, 1975 (gage height, 25.21 ft or 7.684 m); minimum, 7.2 ft^3/s (0.20 m^3/s) Oct. 12, 13, 1971 (gage height, 1.62 ft or 0.494 m).
Flood in September 1945 reached a stage of 216.1 ft above mean sea level (65.9 m), discharge, 23,300 ft^3/s (660 m^3/s), at bridge 0.4 mi (0.6 km) upstream, from information by Corps of Engineers.

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 21.6 ft^3/s (0.61 m^3/s) 1.2 mi (1.9 km) upstream from station for municipal water supply, most of which was returned downstream as sewage effluent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	95	442	774	917	919	3,330	335	420	77	252	56
2	183	91	1,020	581	877	863	2,560	308	465	64	245	88
3	157	87	699	474	1,080	772	1,240	312	400	56	222	60
4	150	70	358	500	1,340	678	970	380	294	55	200	51
5	146	83	271	770	3,690	594	850	492	220	91	192	45
6	140	97	255	672	4,500	558	790	447	184	83	196	38
7	130	91	204	966	4,960	504	740	330	167	77	208	50
8	123	87	544	1,560	4,830	537	700	256	148	154	352	82
9	129	84	2,300	2,410	3,190	531	657	234	132	174	405	110
10	94	83	2,100	2,860	1,400	531	618	234	138	136	268	111
11	71	84	887	2,390	1,110	606	624	212	144	1,020	215	81
12	74	96	532	3,650	988	684	621	198	126	2,830	190	65
13	86	85	399	6,340	925	1,640	600	203	130	3,680	162	99
14	65	107	369	7,990	920	6,220	543	198	137	6,190	158	105
15	57	138	328	8,620	797	8,170	657	190	158	8,820	152	96
16	87	118	381	8,630	768	10,200	1,120	232	140	12,100	182	80
17	110	93	677	7,470	1,220	10,900	1,070	522	131	13,300	137	66
18	108	109	752	5,400	1,400	9,980	760	711	116	13,000	123	69
19	143	150	541	2,140	1,240	10,600	627	2,030	122	11,400	122	87
20	215	183	427	1,440	1,630	9,820	555	2,330	131	9,500	140	378
21	191	200	415	2,710	1,360	9,270	486	910	118	7,190	180	403
22	149	207	482	3,160	1,010	8,820	428	495	100	3,880	194	166
23	108	189	468	2,090	857	7,400	368	355	76	621	154	540
24	93	147	412	1,320	845	5,370	345	280	55	360	132	2,160
25	100	130	369	2,410	1,540	2,930	328	290	56	392	114	3,540
26	96	127	449	3,990	1,850	2,440	308	304	57	400	104	4,590
27	95	125	420	4,540	1,200	1,510	306	286	59	315	86	5,320
28	79	113	859	4,510	947	1,080	290	286	212	275	60	5,460
29	75	106	1,840	2,740	------	1,010	290	272	198	262	51	4,060
30	92	121	1,740	1,280	------	1,140	295	332	95	245	56	932
31	95	------	1,120	1,070	------	2,380	------	428	------	240	46	------
TOTAL	3,633	3,496	22,080	95,457	47,391	118,757	23,076	14,392	4,929	96,987	5,298	28,988
MEAN	117	117	712	3,079	1,693	3,831	769	464	164	3,129	171	966
MAX	215	207	2,300	8,630	4,960	10,900	3,330	2,330	465	13,300	405	5,460
MIN	57	70	204	474	768	531	290	190	55	55	46	38
CFSM	.15	.15	.92	4.00	2.20	4.98	1.00	.60	.21	4.06	.22	1.25
IN.	.18	.17	1.07	4.61	2.29	5.74	1.11	.70	.24	4.69	.26	1.40

CAL YR 1974 TOTAL 288,484 MEAN 790 MAX 7,340 MIN 31 CFSM 1.03 IN 13.94
WTR YR 1975 TOTAL 464,484 MEAN 1,273 MAX 13,300 MIN 38 CFSM 1.65 IN 22.44

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-15	2400	20.44	8,900	3-19	1500	23.05	11,200
1-28	0300	14.79	4,680	7-17	2300	25.21	13,600
2- 7	2200	15.41	5,030	9-28	0200	16.34	5,550

02087500 Neuse River near Clayton, N. C.

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

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

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

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

AVERAGE DISCHARGE.--48 years, 1,198 ft^3/s (33.93 m^3/s), 14.27 in/yr (362 mm/yr).

EXTREMES.--Current year: Maximum discharge, 16,400 ft^3/s (464 m^3/s) Mar. 20 (gage height, 18.32 ft or 5.584 m); minimum, 125 ft^3/s (3.54 m^3/s) Sept. 7 (gage height, 1.20 ft or 0.366 m).
Period of record: Maximum discharge, 22,900 ft^3/s (649 m^3/s) Sept. 19, 1945 (gage height, 22.12 ft or 6.742 m); minimum, 44 ft^3/s (1.25 m^3/s) Sept. 15, 1932 (gage height, 0.28 ft or 0.085 m, site then in use).
Flood of July 23, 1919, reached a stage of 21.15 ft (6.447 m), from floodmark at former site (discharge, 21,200 ft^3/s or 600 m^3/s).

REMARKS.--Records excellent. Diversions for municipal water supply for cities of Durham and Butner (see sta 02087000). The city of Raleigh diverted from Swift Creek (see p. 154), a downstream tributary, an average of 10.6 ft^3/s (0.30 m^3/s), and from the Neuse River upstream from station an average of 21.7 ft^3/s (0.61 m^3/s), most of which was returned as sewage effluent upstream from station. Water quality records for the current year are published in Section 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	348	245	806	1,170	1,350	1,170	3,060	564	729	209	414	264
2	334	245	1,230	920	1,220	1,260	3,470	592	794	177	412	290
3	317	253	1,120	758	1,290	1,130	2,450	559	691	152	388	225
4	293	241	746	830	1,500	980	1,740	614	581	146	356	177
5	289	225	526	1,320	4,120	878	1,530	702	460	245	331	153
6	285	237	480	1,150	5,500	812	1,300	724	380	245	336	146
7	277	253	460	1,210	4,960	800	1,130	647	330	257	552	135
8	265	245	830	1,560	5,050	806	1,030	553	305	277	467	138
9	253	233	1,690	2,640	4,980	746	974	485	277	321	579	177
10	261	233	2,410	3,090	3,140	740	926	465	269	325	536	219
11	233	225	1,660	2,970	1,620	866	908	450	277	520	394	209
12	205	229	944	3,360	1,410	902	968	410	297	1,720	348	182
13	202	249	729	5,610	1,300	1,210	896	405	305	3,980	313	200
14	217	229	614	8,280	1,210	4,960	836	400	285	5,320	285	207
15	202	237	575	9,360	1,120	8,540	1,040	380	277	8,090	279	196
16	237	269	690	9,000	1,680	10,200	1,380	641	293	9,710	276	344
17	352	253	896	9,000	2,840	10,200	1,540	597	277	11,800	301	273
18	289	245	956	8,600	2,230	11,700	1,260	890	269	13,100	254	191
19	375	357	872	7,070	1,900	13,700	998	1,290	253	13,800	241	204
20	480	410	707	2,940	1,810	16,100	896	2,340	253	13,400	244	277
21	415	537	764	3,310	1,890	14,700	800	1,870	253	11,900	254	599
22	357	405	752	3,420	1,490	12,000	729	884	237	9,580	305	665
23	313	361	829	3,240	1,230	10,500	680	619	217	5,300	310	592
24	277	334	685	2,080	1,180	9,260	641	495	184	1,420	264	1,550
25	261	301	624	3,580	1,530	7,310	614	435	149	1,190	248	3,090
26	261	313	663	5,680	2,010	3,900	592	460	149	1,720	233	3,980
27	261	289	669	4,980	1,750	2,730	553	470	149	961	238	4,400
28	249	273	878	4,840	1,300	1,880	537	470	170	671	199	4,650
29	241	257	1,830	4,740	------	1,580	537	455	390	551	160	4,900
30	237	245	2,060	2,700	------	1,630	553	542	330	484	146	3,620
31	245	------	1,630	1,570	------	2,250	------	842	------	437	142	------
TOTAL	8,831	8,428	30,325	120,978	62,610	155,440	34,568	21,250	9,830	118,008	9,805	32,253
MEAN	285	281	978	3,903	2,236	5,014	1,152	685	328	3,807	316	1,075
MAX	480	537	2,410	9,360	5,500	16,100	3,470	2,340	794	13,800	579	4,900
MIN	202	225	460	758	1,120	740	537	380	149	146	142	135
CFSM	.25	.25	.86	3.42	1.96	4.40	1.01	.60	.29	3.34	.28	.94
IN.	.29	.28	.99	3.95	2.04	5.07	1.13	.69	.32	3.85	.32	1.05

CAL YR 1974 TOTAL 393,797 MEAN 1,079 MAX 6,470 MIN 127 CFSM .95 IN 12.85
WTR YR 1975 TOTAL 612,326 MEAN 1,678 MAX 16,100 MIN 135 CFSM 1.47 IN 19.98

PEAK DISCHARGE (BASE, 7,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-15	0830	13.32	9,480	7-19	1330	16.53	13,900
3-20	1600	18.32	16,400				

02087570 Neuse River at Smithfield, N. C.

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

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

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

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

EXTREMES.--Current year: Maximum discharge, 15,300 ft^3/s (433 m^3/s) Mar. 21 (gage height, 23.65 ft or 7.209 m); minimum, 134 ft^3/s (3.79 m^3/s) July 4 (gage height, 3.45 ft or 1.052 m).
Period of record: Maximum discharge, 15,300 ft^3/s (433 m^3/s) Feb. 5, 1973, Mar. 21, 1975 (gage height, 23.65 ft 7.209 m); minimum observed, 72 ft^3/s (2.04 m^3/s) Oct. 15, 1970 (gage height, 2.86 ft or 0.872 m); minimum gage height observed, 2.38 ft or 0.725 m Sept. 26, 1968.
Flood in August 1908 reached a stage of 27.1 ft or 8.26 m (discharge, 19,900 ft^3/s or 564 m^3/s) July 24, 1919, 26.8 ft or 8.17 m (discharge, 19,400 ft^3/s or 549 m^3/s); Oct. 3, 1929, 26.4 ft or 8.05 m (discharge, 18,700 ft^3/s or 530 m^3/s); Sept. 20, 1945, 25.9 ft or 7.89 m (discharge, 17,900 ft^3/s or 507 m^3/s), from stage information furnished by National Weather Service and Corps of Engineers, and discharges determined from ratings developed since 1959.

REMARKS.--Records good. Diversions for municipal water supply for cities of Durham and Butner (see sta 02087000). The city of Raleigh diverted from Swift Creek (see p. 154), a downstream tributary, an average of 10.6 ft^3/s (0.30 m^3/s), and from Neuse River upstream from station an average of 21.6 ft^3/s (0.61 m^3/s), most of which was returned as sewage effluent upstream from station. The city of Smithfield diverted an average of 1.9 ft^3/s (0.054 m^3/s) 0.2 mi (0.3 km) upstream from station for municipal water supply, most of which was returned downstream as sewage effluent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	429	270	642	1,400	1,700	1,370	2,920	683	827	249	506	612
2	391	268	1,370	1,070	1,500	1,470	3,510	707	897	188	501	590
3	381	268	1,290	894	1,610	1,410	3,360	673	811	157	481	316
4	349	270	1,000	860	1,730	1,210	2,430	693	691	146	445	250
5	329	256	671	1,310	3,690	1,080	1,890	603	576	160	411	199
6	324	254	547	1,340	5,770	997	1,580	873	463	274	401	182
7	317	270	533	1,290	6,340	964	1,340	799	400	231	590	174
8	305	268	692	1,490	5,900	989	1,220	678	357	259	575	232
9	290	258	1,560	2,300	5,900	932	1,150	594	320	280	586	200
10	283	258	2,320	3,140	4,700	887	1,110	551	295	317	655	238
11	279	249	2,250	3,300	2,500	995	1,090	543	293	362	497	250
12	242	251	1,220	3,500	1,500	1,040	1,140	509	345	1,260	414	228
13	227	264	904	5,300	1,450	1,150	1,100	481	393	2,960	388	218
14	239	275	739	7,700	1,390	3,280	1,040	473	338	4,310	338	245
15	233	257	674	9,200	1,300	6,570	1,320	463	299	6,570	325	227
16	275	279	699	9,900	1,630	8,970	1,660	608	310	8,670	313	392
17	392	295	954	9,800	3,780	10,000	1,760	706	302	10,200	331	426
18	358	285	1,030	9,200	3,630	10,400	1,600	892	287	11,500	314	269
19	366	368	995	8,500	3,410	11,800	1,270	1,160	276	12,300	277	254
20	581	441	839	8,200	2,400	14,000	1,120	2,030	274	12,500	267	344
21	470	636	839	3,900	2,200	15,100	1,030	2,230	265	11,400	289	548
22	434	520	891	3,400	1,800	13,900	943	1,210	257	9,600	292	982
23	370	448	841	3,200	1,610	10,500	874	767	231	8,000	362	898
24	321	404	798	2,600	1,530	9,000	806	602	209	4,200	324	1,570
25	287	368	735	3,830	1,930	8,200	769	517	188	2,260	279	2,880
26	282	353	731	5,920	2,230	6,800	744	499	153	2,270	275	4,490
27	277	358	753	6,880	2,240	3,900	686	528	150	1,520	256	4,910
28	276	324	864	6,700	1,640	2,500	651	542	152	943	252	5,080
29	270	305	1,630	6,420	------	2,070	649	513	263	718	204	5,310
30	262	285	2,170	4,700	------	1,840	656	560	419	604	174	5,200
31	258	------	1,970	2,500	------	2,210	------	841	------	547	161	------
TOTAL	10,097	9,605	33,151	137,744	77,010	155,364	41,418	23,728	11,021	114,955	11,483	37,714
MEAN	326	320	1,069	4,443	2,750	5,012	1,381	765	367	3,708	370	1,257
MAX	581	636	2,320	9,900	6,340	15,100	3,510	2,230	897	12,500	655	5,310
MIN	227	249	533	860	1,300	887	649	463	150	146	161	174
CFSM	.27	.27	.89	3.70	2.29	4.18	1.15	.64	.31	3.09	.31	1.05
IN.	.31	.30	1.03	4.27	2.39	4.82	1.28	.74	.34	3.56	.36	1.17

CAL YR 1974 TOTAL 441,168 MEAN 1,209 MAX 6,470 MIN 143 CFSM 1.01 IN 13.68
WTR YR 1975 TOTAL 663,290 MEAN 1,817 MAX 15,100 MIN 146 CFSM 1.51 IN 20.56

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-16	Unknown	20.08	10,100	3-21	1200	23.65	15,300
1-27	1200	17.37	6,880	7-20	0730	21.86	12,500
3- 7	0400	16.83	6,350				

02088000 Middle Creek near Clayton, N. C.

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

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

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

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

AVERAGE DISCHARGE.--36 years, 93.6 ft^3/s (2.651 m^3/s), 15.75 in/yr (400 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,890 ft^3/s (53.5 m^3/s) Mar. 20 (gage height, 10.30 ft or 3.139 m); minimum, 6.5 ft^3/s (0.18 m^3/s) June 25, 26, 27, July 4; minimum gage height, 1.50 ft or 0.457 m, Sept. 7, 11, 12.
Period of record: Maximum discharge, 8,510 ft^3/s (241 m^3/s) Feb. 3, 1973 (gage height, 13.42 ft or 4.090 m, result of dam failure); no flow Oct. 11-13, 1954.

REMARKS.--Records good.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	19	135	66	139	110	157	54	54	8.8	31	11
2	20	19	254	59	153	158	149	56	91	7.8	27	19
3	18	19	122	49	209	147	174	51	49	7.0	24	12
4	17	19	61	66	190	110	180	53	31	7.0	24	9.6
5	17	19	46	159	473	97	127	49	22	54	20	8.5
6	17	22	41	114	634	90	105	40	18	22	20	7.8
7	16	20	38	133	463	88	95	36	15	18	36	7.3
8	16	18	143	116	227	118	89	34	13	18	33	7.9
9	15	18	303	199	169	104	85	32	11	16	24	8.3
10	15	18	186	223	141	89	84	31	11	46	20	7.8
11	14	18	84	154	125	117	91	30	10	35	26	7.2
12	14	19	69	157	138	108	114	27	11	25	22	7.5
13	13	20	73	387	161	164	94	26	13	303	17	12
14	14	21	63	781	121	381	80	24	13	636	15	13
15	13	20	53	710	100	536	142	23	11	1,220	14	9.2
16	16	19	86	362	237	505	178	48	9.7	971	13	15
17	27	18	128	192	575	325	116	52	9.4	531	12	15
18	26	21	81	151	539	306	92	42	9.4	373	12	13
19	31	33	57	137	341	810	84	53	8.8	420	11	18
20	51	54	50	170	267	1,360	76	42	8.8	186	12	29
21	38	80	82	316	196	586	64	33	8.1	99	11	17
22	27	54	102	323	158	303	58	27	7.6	73	11	42
23	23	36	68	187	145	244	55	24	7.3	58	10	54
24	22	31	54	161	181	217	53	22	7.0	50	9.6	46
25	21	28	51	519	231	258	51	24	7.0	94	9.5	89
26	20	32	53	961	168	207	48	29	6.8	256	9.4	130
27	20	32	47	732	128	156	42	27	8.4	112	9.4	136
28	19	29	85	369	114	139	50	29	19	58	9.0	56
29	19	27	177	215	------	137	65	20	17	43	8.3	36
30	19	26	123	181	------	180	58	70	11	35	7.8	28
31	19	------	81	154	------	192	------	74	------	42	7.6	------
TOTAL	640	809	2,996	8,503	6,723	8,342	2,856	1,182	518.3	5,824.6	515.6	872.1
MEAN	20.6	27.0	96.6	274	240	269	95.2	38.1	17.3	188	16.6	29.1
MAX	51	80	303	961	634	1,360	180	74	91	1,220	36	136
MIN	13	18	38	49	100	88	42	20	6.8	7.0	7.6	7.2
CFSM	.26	.33	1.20	3.40	2.97	3.33	1.18	.47	.21	2.33	.21	.36
IN.	.30	.37	1.38	3.92	3.10	3.85	1.32	.54	.24	2.68	.24	.40

CAL YR 1974 TOTAL 28,597.1 MEAN 78.3 MAX 445 MIN 4.0 CFSM .97 IN 13.18
WTR YR 1975 TOTAL 39,781.6 MEAN 109 MAX 1,360 MIN 6.8 CFSM 1.35 IN 18.34

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-14	1600	8.17	882	2-17	1830	6.98	628
1-26	1630	8.73	1,050	3-20	0230	10.30	1,890
2- 6	0600	7.06	643	7-15	1100	9.45	1,370

02088470 Little River near Kenly, N. C.

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

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

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

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

AVERAGE DISCHARGE.--11 years, 185 ft^3/s (5.239 m^3/s), 13.22 in/yr (336 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,380 ft^3/s (67.4 m)/s) Jan. 14 (gage height, 14.04 ft or 4.279 m); minimum, 8.3 ft^3/s (0.24 m^3/s) July 4; minimum gage height, 3.81 ft or 1.161 m, Aug. 31, Sept. 1. Period of record: Maximum discharge, 5,030 ft^3/s (142 m^3/s) Oct. 6, 1964 (gage height, 16.30 ft or 4.968 m); minimum, 0.18 ft^3/s (0.005 m^3/s) Oct. 4, 5, 6, 1968.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	48	165	234	322	298	276	97	70	11	43	80
2	100	46	280	203	291	337	276	106	82	10	33	217
3	72	47	278	172	308	350	317	105	86	9.5	27	83
4	53	48	232	181	305	309	332	104	70	8.6	23	49
5	44	47	193	259	749	272	277	101	50	8.9	20	40
6	40	46	152	264	950	241	232	90	40	9.8	19	25
7	36	44	125	299	834	219	200	82	35	16	43	20
8	34	43	191	306	717	221	175	73	30	15	54	36
9	34	41	256	377	550	213	160	65	25	16	43	29
10	31	39	230	392	400	200	156	58	20	14	35	21
11	28	38	200	399	312	218	166	54	15	74	29	18
12	27	39	184	501	264	228	194	49	18	183	27	16
13	26	41	171	1,050	289	253	188	47	116	132	24	17
14	25	42	156	2,230	264	435	167	43	43	365	22	17
15	24	41	141	2,220	234	877	290	40	37	1,040	21	15
16	44	40	154	1,700	302	1,200	381	45	30	1,460	18	38
17	104	39	192	1,210	942	1,490	287	68	27	1,040	16	201
18	104	41	191	721	1,320	1,410	230	93	32	775	15	210
19	104	61	171	466	1,380	1,230	196	135	44	650	14	126
20	148	89	158	435	1,090	1,920	169	102	39	452	14	92
21	140	118	171	574	715	2,160	146	90	25	234	12	127
22	107	126	205	522	472	1,920	131	78	17	143	12	162
23	90	103	196	453	370	1,470	121	59	18	307	14	185
24	77	90	178	433	385	770	112	45	16	265	13	399
25	67	79	164	781	644	573	106	36	12	290	14	509
26	61	74	155	1,440	534	480	100	29	11	1,060	12	536
27	56	74	146	1,560	403	389	96	26	10	798	11	656
28	53	70	190	1,290	345	325	94	87	17	329	10	423
29	51	64	276	914	------	277	92	86	16	140	9.5	236
30	50	59	276	590	------	269	94	50	12	86	8.9	152
31	51	------	255	408	------	279	------	61	------	61	8.6	------
TOTAL	1,998	1,777	6,032	22,584	15,711	20,883	5,761	2,204	1,063	10,002.8	665.0	4,735
MEAN	64.5	59.2	195	729	561	674	192	71.1	35.4	323	21.5	158
MAX	148	126	280	2,230	1,380	2,160	381	135	116	1,460	54	656
MIN	24	38	125	172	234	200	92	26	10	8.6	8.6	15
CFSM	.34	.31	1.03	3.84	2.95	3.55	1.01	.37	.19	1.70	.11	.83
IN.	.39	.35	1.18	4.42	3.08	4.09	1.13	.43	.21	1.96	.13	.93

CAL YR 1974 TOTAL 68,447.0 MEAN 188 MAX 1,830 MIN 24 CFSM .99 IN 13.40
WTR YR 1975 TOTAL 93,415.8 MEAN 256 MAX 2,230 MIN 8.6 CFSM 1.35 IN 18.29

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-14	2100	14.04	2,380	3-21	0130	13.84	2,240
1-27	0500	12.60	1,580	7-16	0500	12.50	1,540
2-18	2400	12.18	1,420	7-26	1730	11.92	1,310
3-17	2130	12.53	1,560				

02088500 Little River near Princeton, N. C.

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

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

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

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

AVERAGE DISCHARGE.--45 years, 253 ft^3/s (7.165 m^3/s), 15.00 in/yr (381 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,490 ft^3/s (70.5 m^3/s) Jan. 15 (gage height, 11.28 ft or 3.438 m); minimum, 9.0 ft^3/s (0.25 m^3/s) July 3, 4, 5, 6; minimum gage height, 1.03 ft or 0.314 m, July 3, 4, 5, 6, Aug. 30, 31.
Period of record: Maximum discharge, 7,150 ft^3/s (202 m^3/s) Oct. 6, 1964 (gage height, 13.94 ft or 4.249 m); minimum, 1.0 ft^3/s (0.028 m^3/s) several times in September and October 1932, Oct. 10, 11, 1968. Flood of July 1919 reached a stage of 14.57 ft or 4.441 m; September 1924, 14.90 ft or 4.542 m; September 1928, 13.3 ft or 4.054 m; October 1929, 13.47 ft or 4.106 m; from information by local resident.

REMARKS.--Records excellent. Slight diurnal fluctuation and occasional regulation for short periods, caused by mills above station.

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

DISCHARGE, IN CUBIC FEET PER SECOND WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	61	156	284	417	371	333	100	85	11	56	19
2	113	58	362	248	376	407	332	112	87	11	45	190
3	85	57	359	205	409	454	397	114	91	9.7	38	127
4	63	57	300	209	406	388	467	113	78	9.2	32	56
5	53	58	248	328	935	332	369	114	63	9.4	29	48
6	49	55	200	343	1260	292	298	100	52	9.2	27	38
7	45	54	156	377	1080	263	256	91	42	14	35	33
8	43	52	235	398	870	260	223	84	36	11	57	50
9	42	52	403	478	711	251	201	75	34	10	51	48
10	41	50	350	533	531	231	191	69	32	10	43	33
11	38	49	264	540	409	244	204	64	30	11	36	27
12	36	50	225	648	360	260	239	60	40	229	30	25
13	35	52	208	1170	372	282	239	57	119	184	26	25
14	34	53	187	2190	343	496	210	54	80	282	23	24
15	33	52	163	2470	304	925	396	55	40	786	22	24
16	37	51	170	2200	363	1130	613	80	33	1400	21	27
17	119	50	220	1570	977	1320	451	67	31	1320	21	147
18	150	54	229	990	1370	1490	315	111	28	858	20	236
19	132	73	200	610	1550	1590	260	178	31	660	18	168
20	202	115	180	580	1520	1600	217	208	37	492	17	102
21	202	164	198	796	1060	2120	181	112	34	286	16	104
22	152	168	254	742	663	2110	155	89	28	152	15	220
23	118	145	247	592	490	1830	140	74	23	431	14	255
24	100	122	213	570	461	1200	128	63	19	739	14	448
25	84	109	194	1090	730	717	118	52	17	336	14	630
26	76	98	179	1650	765	603	111	45	15	755	13	664
27	70	96	163	1710	533	484	102	42	14	1100	13	708
28	65	94	216	1470	431	403	101	50	15	479	13	584
29	63	86	349	1150	---	348	99	124	13	196	12	332
30	60	79	361	801	---	333	99	90	12	102	12	212
31	60	---	315	543	---	342	---	103	---	73	12	---
TOTAL	2517	2314	7504	27485	19696	23276	7445	2750	1259	10975.5	795	5606
MEAN	81.2	77.1	242	887	703	751	248	88.7	42.0	354	25.6	187
MAX	202	168	403	2470	1550	2120	613	208	119	1400	57	708
MIN	33	49	156	205	304	231	99	42	12	9.2	12	19
CFSM	.35	.34	1.06	3.87	3.07	3.28	1.08	.39	.18	1.55	.11	.82
IN.	.41	.38	1.22	4.46	3.20	3.78	1.21	.45	.20	1.78	.13	.91

CAL YR 1974 TOTAL 83847.0 MEAN 230 MAX 1620 MIN 22 CFSM 1.00 IN 13.62
WTR YR 1975 TOTAL 111622.5 MEAN 306 MAX 2470 MIN 9.2 CFSM 1.34 IN 18.13

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-15	0800	11.28	2,490	3-21	2100	10.68	2,190
1-27	0200	9.66	1,730	7-16	2200	8.95	1,480
2- 6	1000	8.35	1,300	7-27	0800	8.04	1,210
2-19	2100	9.59	1,710				

02089000 Neuse River near Goldsboro, N. C.

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

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

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

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

AVERAGE DISCHARGE.--45 years, 2,541 ft^3/s (71.96 m^3/s), 14.44 in/yr (367 mm/yr).

EXTREMES.--Current year: Maximum discharge, 22,300 ft^3/s (632 m^3/s) Mar. 24 (gage height, 24.39 ft or 7.434 m); minimum, 289 ft^3/s (8.18 m^3/s) July 6 (gage height, 3.04 ft or 0.927 m).

Period of record: Maximum discharge, 30,700 ft^3/s (869 m^3/s) Sept. 23, 1945; maximum gage height, 26.72 ft or 8.144 m Sept. 23, 1945, site and datum then in use; minimum discharge, 76 ft^3/s (2.15 m^3/s) Sept. 26, 1968.

Floods of June 1866 and July 1919, reached stages of about 29 ft (8.8 m) and 28 ft (8.5 m), respectively, at site 2.3 mi (3.7 km) upstream at present datum, from flood profiles of Corps of Engineers. Flood of Oct. 5, 1929, reached a stage of 27.3 ft (8.32 m) at railroad bridge at present datum (discharge, 38,600 ft^3/s or 1,090 m^3/s).

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	944	577	1,150	3,850	10,300	5,430	8,160	1,460	1,390	445	1,360	698
2	903	570	1,440	3,620	9,850	4,780	6,400	1,600	1,550	496	1,140	665
3	811	567	2,470	2,960	9,090	4,210	5,790	1,640	1,510	401	1,030	1,170
4	737	560	2,820	2,420	7,470	4,050	5,360	1,640	1,440	341	964	1,030
5	687	554	2,730	2,250	6,420	3,780	5,340	1,580	1,260	306	885	769
6	640	551	2,220	2,590	6,090	3,320	5,350	1,560	1,050	293	843	619
7	610	538	1,770	3,010	6,300	2,930	4,500	1,530	874	358	916	511
8	584	532	1,650	3,130	6,950	2,710	3,500	1,430	747	447	944	477
9	567	535	1,830	3,350	7,590	2,590	2,900	1,290	674	438	1,070	532
10	542	533	2,690	3,680	8,090	2,500	2,500	1,150	623	524	1,000	569
11	524	518	3,260	4,300	8,440	2,440	2,380	1,050	572	500	1,000	541
12	515	514	3,580	4,870	8,520	2,400	2,350	1,000	587	574	911	547
13	499	510	3,420	5,650	8,330	2,680	2,400	957	675	1,360	775	593
14	477	509	2,460	6,410	7,710	3,030	2,400	901	782	2,750	699	542
15	459	518	2,040	7,150	5,890	4,250	2,710	865	725	3,370	648	536
16	493	525	1,810	8,220	4,370	5,040	3,390	892	613	4,240	598	607
17	615	521	1,750	9,560	4,550	5,950	4,070	1,100	560	5,090	567	610
18	701	603	1,910	11,000	5,560	7,310	4,370	1,390	540	6,720	547	848
19	915	705	2,100	12,300	6,640	9,690	4,110	1,610	506	8,380	546	969
20	980	994	2,110	13,100	7,820	11,600	3,270	1,980	483	9,470	525	815
21	1,110	1,350	2,090	13,100	8,570	13,300	2,720	2,440	475	11,000	503	767
22	1,190	1,610	2,110	12,900	9,250	15,900	2,290	2,760	457	12,300	487	1,040
23	1,100	1,790	2,240	12,800	9,350	19,600	2,010	2,410	442	13,900	494	2,380
24	988	1,690	2,240	12,200	8,810	22,200	1,820	1,770	423	14,900	507	3,680
25	867	1,490	2,130	11,400	7,430	22,000	1,680	1,330	388	14,800	529	4,490
26	768	1,310	1,970	10,600	6,670	20,200	1,560	1,050	354	14,500	503	5,150
27	704	1,130	1,810	10,100	6,050	18,100	1,510	942	321	13,000	480	5,610
28	667	1,040	1,960	9,980	5,810	16,900	1,440	927	357	10,300	469	5,950
29	637	975	2,270	9,990	------	15,000	1,420	934	357	7,700	450	6,250
30	617	918	2,920	10,300	------	13,300	1,420	1,080	348	4,070	439	6,440
31	594	------	3,560	10,400	------	10,300	------	1,280	------	1,890	413	------
TOTAL	22,445	24,737	70,530	237,190	207,920	277,490	99,140	43,548	21,083	164,863	22,212	55,405
MEAN	724	825	2,275	7,651	7,426	8,951	3,305	1,405	703	5,318	717	1,847
MAX	1,190	1,790	3,580	13,100	10,300	22,200	8,160	2,760	1,550	14,900	1,360	6,440
MIN	459	509	1,150	2,250	4,370	2,400	1,420	865	321	293	413	477
CFSM	.30	.35	.95	3.20	3.11	3.75	1.38	.59	.29	2.23	.30	.77
IN.	.35	.39	1.10	3.69	3.24	4.32	1.54	.68	.33	2.57	.35	.86

CAL YR 1974 TOTAL 934,865 MEAN 2,561 MAX 10,100 MIN 299 CFSM 1.07 IN 14.55
WTR YR 1975 TOTAL 1,246,563 MEAN 3,415 MAX 22,200 MIN 293 CFSM 1.43 IN 19.40

02089500 Neuse River at Kinston, N. C.

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

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

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

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

AVERAGE DISCHARGE.--45 years, 2,912 ft^3/s (82.47 m^3/s), 14.70 in/yr (373 mm/yr).

EXTREMES.--Current year: Maximum discharge, 21,400 ft^3/s (606 m^3/s) Mar. 27 (gage height, 21.18 ft or 6.456 m); minimum, 367 ft^3/s (10.4 m^3/s) July 6 (gage height, 3.13 ft or 0.954 m).
Period of record: Maximum discharge, 26,000 ft^3/s (736 m^3/s) Oct. 13, 1964; maximum gage height, 22.86 ft or 6.968 m Oct. 13, 1964; minimum discharge, 124 ft^3/s (3.51 m^3/s) Sept. 26, 1932 (gage height, 1.29 ft or 0.393 m, site and datum then in use).
Flood in July 1919 reached a stage of 25.0 ft (7.62 m), present site and datum (discharge, about 39,000 ft^3/s or 1,100 m^3/s), from information by North Carolina State Highway Commission. Flood in October 1924 reached a stage of 24.7 ft (7.53 m), present site and datum (discharge, 36,000 ft^3/s or 1,020 m^3/s), from information by North Carolina State Highway Commission. Flood of Sept. 25-26, 1928, reached a stage of 24.2 ft (7.38 m), present site and datum (discharge, 34,000 ft^3/s or 963 m^3/s).

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,150	769	1,540	3,310	11,000	7,340	15,800	1,680	1,370	411	7,150	582
2	1,130	743	1,960	3,660	11,100	6,790	13,600	1,760	1,460	432	4,230	1,080
3	1,080	729	2,100	3,860	11,200	6,320	10,700	1,560	1,590	522	2,190	1,020
4	1,020	718	2,450	3,750	11,000	5,790	8,720	1,890	1,600	478	1,460	1,160
5	948	711	2,830	3,320	10,500	5,220	7,540	1,870	1,550	427	1,210	1,200
6	892	701	2,980	2,870	9,650	4,790	6,560	1,800	1,410	381	1,090	962
7	845	694	2,800	2,790	8,500	4,360	6,120	1,750	1,210	393	1,040	794
8	810	680	2,400	3,020	7,590	3,900	5,880	1,710	1,030	420	1,160	722
9	783	673	2,190	3,260	7,160	3,470	5,460	1,630	901	474	1,120	655
10	760	666	2,200	3,450	7,190	3,180	4,440	1,500	814	494	1,190	647
11	734	666	2,520	3,680	7,520	3,010	3,810	1,350	754	567	1,160	694
12	714	666	2,950	4,050	7,950	2,900	3,290	1,240	699	588	1,120	676
13	698	655	3,310	4,690	8,350	2,880	2,990	1,170	689	660	1,060	712
14	669	645	3,510	5,480	8,590	3,070	2,860	1,130	751	1,140	935	762
15	668	634	3,350	6,210	8,570	3,380	3,000	1,070	795	2,310	833	691
16	660	634	2,800	6,740	8,250	3,780	3,320	1,030	790	2,830	770	677
17	725	638	2,300	7,170	7,570	4,370	3,680	1,030	692	3,270	719	815
18	806	669	2,080	7,740	6,580	5,100	4,010	1,180	632	3,760	844	855
19	883	825	2,100	8,700	6,120	6,430	4,350	1,440	640	4,400	702	921
20	1,090	1,060	2,270	10,100	6,230	7,790	4,620	1,650	572	5,180	691	1,140
21	1,160	1,380	2,480	11,500	6,790	8,940	4,540	1,960	533	6,510	688	1,070
22	1,220	1,600	2,570	12,700	7,500	10,500	4,020	2,290	504	7,960	621	976
23	1,310	1,740	2,550	13,400	8,310	12,200	3,270	2,620	490	9,830	588	1,180
24	1,270	1,890	2,560	13,800	9,210	14,300	2,670	2,710	480	11,300	577	2,250
25	1,180	1,880	2,570	14,000	9,870	16,100	2,260	2,220	470	12,900	587	3,120
26	1,080	1,750	2,490	13,900	9,910	20,000	2,040	1,830	447	14,300	626	4,040
27	981	1,580	2,320	13,400	9,220	21,400	1,890	1,320	415	15,500	596	4,620
28	907	1,410	2,260	12,700	8,160	21,300	1,800	1,140	400	15,600	646	5,170
29	863	1,280	2,440	11,900	------	20,900	1,740	1,080	416	14,800	650	5,600
30	833	1,200	2,650	11,300	------	18,900	1,690	1,070	415	13,400	565	6,020
31	795	------	2,930	11,000	------	17,600	------	1,180	------	10,400	530	------
TOTAL	28,584	29,886	78,469	237,450	239,590	278,210	146,670	48,960	24,519	161,657	37,348	50,813
MEAN	925	996	2,531	7,660	8,557	8,975	4,889	1,579	817	5,215	1,205	1,694
MAX	1,310	1,890	3,510	14,000	11,200	21,400	15,800	2,710	1,600	15,600	7,150	6,020
MIN	660	634	1,540	2,790	6,120	2,880	1,690	1,030	400	381	530	582
CFSM	.34	.37	.94	2.85	3.18	3.34	1.82	.59	.30	1.94	.45	.63
IN.	.40	.41	1.09	3.29	3.31	3.85	2.03	.68	.34	2.24	.52	.70

CAL YR 1974 TOTAL 1,089,149 MEAN 2,984 MAX 10,700 MIN 544 CFSM 1.11 IN 15.06
WTR YR 1975 TOTAL 1,362,247 MEAN 3,732 MAX 21,400 MIN 381 CFSM 1.39 IN 18.84

02090380 Contentnea Creek near Lucama, N. C.

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

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

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

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

AVERAGE DISCHARGE.--11 years, 156 ft^3/s (4.418 m), 13.61 in/yr (346 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,960 ft^3/s (83.8 m^3/s) Jan. 14 (gage height, 13.23 ft or 4.033 m); minimum, 6.6 ft^3/s (0.20 m^3/s) July 4, 5, 6 (gage height, 1.78 ft or 0.543 m).
Period of record: Maximum discharge, 5,860 ft^3/s (166 m^3/s) Oct. 6, 1964 (gage height, 16.28 ft or 4.962 m); minimum, 0.40 ft^3/s (0.011 m^3/s) Oct. 7, 1968.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	47	139	178	249	248	269	81	136	9.6	30	19
2	44	47	296	150	224	295	236	90	82	8.3	26	133
3	37	47	264	131	257	346	249	90	71	7.3	25	155
4	33	46	178	139	272	291	295	87	53	6.6	22	49
5	31	45	118	243	571	231	249	87	41	6.6	21	32
6	30	44	99	261	892	195	192	78	34	6.9	20	25
7	30	43	90	270	856	175	153	67	29	9.9	36	21
8	29	42	168	296	643	178	140	59	25	14	41	45
9	28	41	293	340	421	170	131	54	22	14	33	25
10	27	41	257	402	285	154	129	51	20	11	27	15
11	27	41	177	426	241	182	144	48	19	115	24	13
12	26	42	130	477	227	206	174	40	20	550	21	17
13	25	46	134	1,140	251	224	175	41	30	275	19	30
14	25	52	126	2,770	228	413	143	38	26	308	17	20
15	25	49	113	2,260	190	1,170	268	36	22	1,060	16	13
16	52	45	129	1,380	288	1,620	401	45	19	1,380	15	20
17	144	42	197	757	826	1,160	330	62	17	828	15	21
18	109	44	180	509	1,300	799	209	92	19	505	14	15
19	99	61	147	357	1,200	971	167	484	22	260	16	26
20	175	83	131	326	796	2,360	140	114	17	147	16	40
21	152	127	150	439	543	2,040	120	76	16	100	14	35
22	105	141	204	475	391	1,190	104	57	14	75	12	60
23	80	131	177	416	294	667	95	46	13	138	12	80
24	65	111	145	316	324	452	93	42	12	181	11	60
25	59	110	134	596	537	398	87	38	11	84	40	100
26	55	95	134	1,360	625	399	92	34	9.8	173	25	200
27	53	82	122	1,470	501	334	86	32	8.3	137	14	350
28	52	75	163	957	304	244	78	184	9.9	69	11	250
29	50	65	296	627	------	216	77	129	11	48	10	200
30	49	60	301	431	------	230	80	137	9.9	38	9.3	150
31	48	------	232	307	------	272	------	224	------	33	8.3	------
TOTAL	1,822	1,945	5,424	20,206	13,736	17,830	5,106	2,743	838.9	6,598.2	620.6	2,219
MEAN	58.8	64.8	175	652	491	575	170	88.5	28.0	213	20.0	74.0
MAX	175	141	301	2,770	1,300	2,360	401	484	136	1,380	41	350
MIN	25	41	90	131	190	154	77	32	8.3	6.6	8.3	13
CFSM	.38	.42	1.12	4.18	3.15	3.69	1.09	.57	.18	1.37	.13	.47
IN.	.43	.46	1.29	4.82	3.28	4.25	1.22	.65	.20	1.57	.15	.53

CAL YR 1974 TOTAL 51,923.4 MEAN 142 MAX 1,270 MIN 9.4 CFSM .91 IN 12.38
WTR YR 1975 TOTAL 79,088.7 MEAN 217 MAX 2,770 MIN 6.6 CFSM 1.39 IN 18.86

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-14	1200	13.23	2,960	3-16	0230	10.93	1,720
1-26	2200	10.72	1,640	3-20	1600	12.70	2,620
2-18	1930	9.98	1,390	7-16	0030	10.67	1,620

02090625 Turner Swamp near Eureka, N. C.

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

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

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

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

AVERAGE DISCHARGE.--7 years, 2.50 ft^3/s (0.0708 m^3/s), 15.43 in/yr (392 mm/yr).

EXTREMES.--Current year: Maximum discharge, 248 ft^3/s (7.02 m^3/s) May 18 (gage height, 4.44 ft or 1.353 m); minimum, 0.34 ft^3/s (0.010 m^3/s) Aug. 27, 28, 30, 31 (gage height, 0.89 ft or 0.271 m).
Period of record: Maximum discharge, 652 ft^3/s (18.5 m^3/s) Aug. 5, 1974 (gage height, 5.78 ft or 1.762 m); minimum, 0.29 ft^3/s (0.008 m^3/s) Oct. 1, 2, 3, 1968 (gage height, 0.87 ft or 0.265 m).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.0	10	2.6	4.0	4.3	1.9	1.8	2.6	.56	.58	1.5
2	1.1	1.0	3.4	2.3	5.3	6.8	2.3	2.4	2.0	.54	.57	.61
3	1.0	1.0	2.2	2.0	5.0	4.9	3.5	1.6	1.3	.53	.56	.52
4	1.0	1.0	1.8	3.8	5.6	4.3	2.5	1.6	.97	.55	.55	.49
5	1.0	1.1	1.6	3.7	13	4.0	2.2	1.3	.85	.59	.54	.48
6	1.0	1.0	1.5	3.4	7.6	3.8	2.0	1.3	.77	.57	.72	.47
7	1.0	.97	1.5	4.1	5.8	3.7	2.0	1.2	.73	.69	.91	.50
8	1.0	.99	5.1	3.6	4.8	3.7	1.9	1.1	.68	.61	.66	.60
9	1.0	1.1	3.0	5.0	4.5	3.2	1.8	1.0	.68	.57	.60	.52
10	1.0	.99	2.0	3.6	4.0	2.6	1.8	1.2	.69	.54	.58	.49
11	1.0	1.0	1.8	9.5	3.9	2.8	2.0	1.6	.71	.60	.58	.49
12	.99	1.1	1.8	12	4.1	2.9	2.0	1.2	.92	.98	.55	.59
13	1.0	1.0	1.7	20	3.7	4.1	1.8	.90	.97	2.7	.54	.82
14	1.0	.97	1.5	11	3.3	8.0	1.6	.83	.72	.80	.53	.51
15	1.0	.97	1.4	6.7	3.1	6.3	5.9	.85	.66	4.7	.52	.50
16	2.0	.95	2.0	5.5	8.8	4.6	3.0	1.3	.63	9.5	.51	.74
17	1.9	.98	1.6	4.6	8.9	7.9	2.3	1.2	.72	5.3	.50	.62
18	1.1	2.1	1.4	4.3	6.1	6.1	2.0	37	.74	6.3	.50	.60
19	3.2	1.5	1.5	4.1	23	24	1.9	13	.73	3.5	.50	.61
20	1.7	2.6	1.7	9.9	12	11	1.8	2.9	.70	1.4	.51	.58
21	1.3	1.7	3.5	8.1	7.3	6.6	1.6	1.7	.68	.92	.49	1.1
22	1.3	1.2	2.5	5.7	5.8	5.7	1.6	1.2	.64	.76	.48	2.1
23	1.2	1.1	2.0	4.9	5.5	5.2	1.5	1.4	.65	1.0	.47	2.6
24	1.1	1.1	1.9	7.6	9.7	5.2	1.2	1.5	.66	.78	.49	2.5
25	1.1	1.2	1.9	24	9.0	5.7	1.1	1.0	.66	1.2	.50	1.5
26	1.1	1.2	1.7	11	5.9	3.6	1.4	1.0	.66	1.2	.49	.85
27	1.1	1.1	1.7	6.4	5.0	3.0	1.4	1.3	.68	.74	.46	.70
28	1.1	1.1	5.4	5.1	4.6	2.9	1.6	2.8	.85	.68	.44	.61
29	1.0	1.0	4.0	4.6	------	3.5	1.7	1.5	.72	.63	.44	.60
30	1.1	1.0	3.0	4.3	------	3.8	1.6	6.2	.59	.62	.44	.61
31	1.1	------	2.5	4.2	------	3.3	------	3.1	------	.61	.43	------
TOTAL	37.59	35.02	78.6	207.6	189.3	167.5	60.9	97.98	25.56	50.67	16.64	25.41
MEAN	1.21	1.17	2.54	6.70	6.76	5.40	2.03	3.16	.85	1.63	.54	.85
MAX	3.2	2.6	10	24	23	24	5.9	37	2.6	9.5	.91	2.6
MIN	.99	.95	1.4	2.0	3.1	2.6	1.1	.83	.59	.53	.43	.47
CFSM	.55	.53	1.15	3.05	3.07	2.45	.92	1.44	.39	.74	.25	.39
IN.	.64	.59	1.33	3.51	3.20	2.83	1.03	1.66	.43	.86	.28	.43

CAL YR 1974 TOTAL 1,234.78 MEAN 3.38 MAX 96 MIN .64 CFSM 1.54 IN 20.88
WTR YR 1975 TOTAL 992.77 MEAN 2.72 MAX 37 MIN .43 CFSM 1.24 IN 16.79

PEAK DISCHARGE (BASE, 25 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-13	1615	2.40	28	3-19	1345	2.75	40
1-25	0615	2.57	33	5-18	2015	4.44	248
2-19	1545	2.96	52	7-16	1915	2.68	37

02091000 Nahunta Swamp near Shine, N. C.

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

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

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

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

AVERAGE DISCHARGE.--21 years, 89.7 ft^3/s (2.540 m^3/s), 15.70 in/yr (399 mm/yr).

EXTREMES.--Current year: Maximum discharge, 748 ft^3/s (21.2 m^3/s) Jan. 26 (gage height, 7.59 ft or 2.313 m); minimum, 8.8 ft^3/s (0.25 m^3/s) Sept. 1; minimum gage height, 1.35 ft or 0.411 m July 4.
Period of record: Maximum discharge, 5,470 ft^3/s (155 m^3/s) Oct. 6, 1964 (gage height, 14.14 ft or 4.310 m); minimum, 1.0 ft^3/s (0.028 m^3/s) Oct. 7, 8, 1954 (gage height, 0.80 ft or 0.244 m).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	35	283	85	137	130	99	52	71	13	28	65
2	29	35	179	81	161	191	96	68	66	10	24	53
3	28	34	111	71	191	168	141	54	43	9.8	22	20
4	26	34	88	85	164	134	141	50	31	9.3	44	14
5	26	34	77	116	386	119	100	44	25	11	20	12
6	26	34	71	101	315	108	84	38	21	13	19	11
7	25	34	68	124	224	103	76	34	20	20	56	12
8	24	33	133	100	184	111	71	32	18	15	39	62
9	23	33	139	138	163	95	67	30	16	12	26	95
10	23	33	99	107	146	89	68	30	16	13	21	21
11	22	33	82	260	137	100	75	28	16	11	20	15
12	22	35	66	267	136	94	94	26	30	34	18	14
13	22	35	67	552	131	127	76	25	118	117	16	27
14	22	33	62	552	116	197	66	24	44	136	15	20
15	22	33	58	321	101	307	293	23	24	82	15	14
16	30	32	68	233	180	199	261	37	19	224	14	27
17	81	32	68	193	439	215	157	40	17	220	13	34
18	44	51	60	168	280	188	120	39	16	247	12	23
19	71	73	55	156	434	477	101	59	15	194	12	23
20	84	94	57	272	602	522	88	43	14	71	12	21
21	54	106	102	374	403	264	73	31	13	48	11	18
22	45	65	108	232	230	193	64	26	12	37	11	94
23	43	51	82	185	192	175	59	23	11	170	10	173
24	41	46	72	227	239	150	53	129	11	293	11	196
25	39	45	70	556	330	183	50	50	11	94	15	233
26	38	52	65	702	207	143	76	32	10	108	12	122
27	37	48	58	405	162	117	55	27	10	61	12	81
28	37	42	129	239	142	106	51	28	13	43	11	58
29	36	40	144	198	------	103	56	25	17	35	9.7	45
30	35	39	110	176	------	116	52	90	15	31	9.3	43
31	35	------	91	150	------	108	------	183	------	32	9.1	------
TOTAL	1,122	1,324	2,922	7,428	6,532	5,332	2,863	1,420	763	2,414.1	567.1	1,646
MEAN	36.2	44.1	94.3	240	233	172	95.4	45.8	25.4	77.9	18.3	54.9
MAX	84	106	283	702	602	522	293	183	118	293	56	233
MIN	22	32	55	71	101	89	50	23	10	9.3	9.1	11
CFSM	.47	.57	1.22	3.09	3.00	2.22	1.23	.59	.33	1.00	.24	.71
IN.	.54	.63	1.40	3.56	3.13	2.56	1.37	.68	.37	1.16	.27	.79

CAL YR 1974 TOTAL 44,472.0 MEAN 122 MAX 1,770 MIN 14 CFSM 1.57 IN 21.32
WTR YR 1975 TOTAL 34,333.2 MEAN 94.1 MAX 702 MIN 9.1 CFSM 1.21 IN 16.46

PEAK DISCHARGE (BASE, 580 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-13	2330	7.31	632	2-19	2130	7.02	634
1-26	0130	7.59	748	3-19	2030	6.94	618

02091500 Contentnea Creek at Hookerton, N. C.

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

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

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

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

AVERAGE DISCHARGE.--46 years (1929-75), 772 ft^3/s (21.86 m^3/s), 14.38 in/yr (365 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,850 ft^3/s (109 m^3/s) Jan. 20 (gage height, 14.09 ft or 4.295 m); minimum, 78 ft^3/s (2.21 m^3/s) Sept. 1 (gage height, 3.16 ft or 0.963 m).
Period of record: Maximum discharge, 17,200 ft^3/s (487 m^3/s) Oct. 7, 1964; maximum gage height, 22.11 ft or 6.739 m Oct. 8, 1964; minimum discharge, 15 ft^3/s (0.42 m^3/s) Oct. 28, 1933 (gage height, 1.22 ft or 0.372 m).
Flood of September 1928 reached a stage of 23.3 ft (7.10 m), from floodmark; high water of autumn 1924 was about 0.1 ft (0.03 m) lower, from information by local resident.

REMARKS.--Records good. Water quality records for the current year are published in Section 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 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	359	246	524	960	3140	2100	1470	426	629	154	355	100
2	326	239	864	986	2910	2030	1270	436	679	138	290	162
3	294	234	947	995	2520	1960	1170	450	727	115	246	204
4	271	230	982	977	2340	1840	1130	451	733	103	215	210
5	252	225	979	933	2100	1700	1120	439	588	97	213	191
6	234	221	956	894	1940	1590	1130	418	399	93	185	204
7	219	219	894	904	1930	1490	1140	390	329	124	181	205
8	206	218	809	947	2010	1380	1130	363	268	141	196	186
9	197	215	785	1020	2210	1260	1050	337	224	134	196	190
10	189	211	814	1100	2400	1130	934	316	193	141	179	224
11	182	208	856	1190	2470	1010	817	299	172	148	167	170
12	174	207	903	1310	2410	931	765	280	160	138	162	137
13	167	207	946	1780	2250	914	759	262	175	217	154	156
14	162	207	953	2150	1990	953	758	245	300	500	141	168
15	157	206	896	2470	1710	1050	931	228	563	873	130	179
16	161	205	796	2680	1490	1190	1100	220	710	954	119	194
17	211	205	711	2770	1440	1490	1260	218	688	1330	110	267
18	276	218	663	3080	1530	1540	1350	263	404	1780	103	244
19	306	274	639	3520	1760	2460	1450	363	256	2030	101	232
20	421	339	637	3780	2120	2930	1550	622	198	2230	106	359
21	490	411	681	3730	2590	3230	1550	744	169	2330	108	464
22	502	442	749	3440	3050	3430	1400	865	154	2300	104	579
23	487	428	785	3160	3230	3460	1080	944	140	2180	96	721
24	465	411	795	2780	3250	3440	803	907	128	1780	91	821
25	420	399	798	2610	3170	3430	626	840	119	1550	88	922
26	369	390	789	2680	2870	3340	562	802	112	1190	106	1070
27	328	377	750	2820	2520	3110	518	810	107	1090	131	1190
28	299	365	746	2910	2270	2730	480	462	108	956	97	1230
29	280	345	823	3030	---	2380	455	397	114	749	89	1280
30	265	326	891	3200	---	2050	439	427	130	589	83	1340
31	254	---	929	3250	---	1730	---	514	---	437	80	---
TOTAL	8923	8428	25292	68056	65720	63618	30197	14138	9676	26603	4623	13599
MEAN	288	281	816	2195	2347	2052	1007	456	323	858	149	453
MAX	502	442	982	3780	3250	3460	1550	944	733	2330	355	1340
MIN	157	205	524	894	1440	914	439	218	107	93	80	100
CFSM	.40	.39	1.12	3.01	3.22	2.81	1.38	.63	.44	1.18	.20	.62
IN.	.46	.43	1.29	3.47	3.35	3.25	1.54	.72	.49	1.36	.24	.69

CAL YR 1974 TOTAL 314529 MEAN 862 MAX 3290 MIN 101 CFSM 1.18 IN 16.05
WTR YR 1975 TOTAL 338873 MEAN 928 MAX 3780 MIN 80 CFSM 1.27 IN 17.29

02091700 Little Contentnea Creek near Farmville, N. C.

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

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

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

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

AVERAGE DISCHARGE.--19 years, 121 ft^3/s (3.427 m^3/s), 17.61 in/yr (447 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,330 ft^3/s (37.7 m^3/s) Jan. 15 (gage height, 13.80 ft or 4.206 m); minimum, 0.40 ft^3/s (0.011 m^3/s) Aug. 31, Sept. 1 (gage height, 6.59 ft or 2.009 m).
Period of record: Maximum discharge, 5,170 ft^3/s (146 m^3/s) Oct. 6, 1964 (gage height, 19.65 ft or 5.989 m, from floodmarks), from rating curve extended above 1,500 ft^3/s (42.5 m^3/s); minimum daily, 0.02 ft^3/s (0.0006 m^3/s) Oct. 2, 3, 1968.
Flood in August and September 1955 reached stages of 18.9 ft (5.76 m) and 18.5 ft (5.64 m), respectively.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	15	135	183	155	157	71	23	40	4.4	3.7	2.7
2	18	15	473	150	138	149	66	28	49	3.5	2.9	9.6
3	15	15	457	123	170	177	75	32	41	2.6	2.6	4.1
4	13	14	403	107	189	162	112	28	25	2.1	2.1	2.3
5	12	14	245	141	277	124	119	24	17	2.0	1.8	1.6
6	11	13	130	181	440	98	86	20	12	2.0	1.8	1.3
7	11	15	90	202	478	84	60	16	9.3	3.8	2.7	1.1
8	9.9	14	104	212	389	79	48	13	7.2	5.4	3.8	1.3
9	9.3	14	228	236	252	72	40	11	5.5	4.7	2.4	2.8
10	8.6	14	284	264	172	62	42	10	4.8	6.2	2.0	2.7
11	8.1	14	252	256	133	64	64	9.0	4.5	8.7	1.7	1.6
12	7.6	14	170	329	114	66	84	7.9	5.0	14	1.5	1.7
13	7.2	14	120	659	106	75	91	7.4	9.1	72	1.4	6.9
14	6.8	13	105	1,150	95	106	76	6.8	7.9	60	1.3	5.8
15	6.6	13	92	1,300	81	231	171	6.0	9.0	290	1.1	2.5
16	9.8	12	86	1,050	79	307	534	6.0	6.4	122	.98	4.4
17	47	12	88	696	277	336	529	5.9	4.7	81	.90	31
18	51	15	85	411	402	360	396	5.8	3.7	52	.82	15
19	44	25	75	270	481	497	212	40	3.0	37	.74	11
20	75	34	68	240	639	1,060	129	180	2.6	24	.70	17
21	68	60	89	462	611	657	88	380	2.3	16	.70	17
22	53	58	165	501	538	596	64	218	2.0	12	.67	40
23	40	44	190	435	347	352	50	57	1.8	9.4	.67	105
24	33	33	162	353	268	228	41	30	1.7	7.8	.74	106
25	28	28	128	538	529	198	35	27	1.6	9.7	1.0	118
26	24	29	105	925	524	220	32	31	1.5	11	1.4	160
27	22	29	89	824	374	189	28	31	1.6	9.7	1.2	132
28	20	28	114	687	233	112	24	61	9.1	8.7	.48	145
29	18	25	228	478	------	87	23	62	9.3	6.0	.70	101
30	17	23	272	295	------	81	23	46	6.1	5.0	.59	54
31	16	------	248	206	------	81	------	43	------	4.2	.48	------
TOTAL	730.9	673	5,479	13,865	8,492	7,249	3,413	1,472.8	303.7	896.9	45.57	1,104.4
MEAN	23.6	22.4	177	447	303	234	114	47.5	10.1	28.9	1.47	36.8
MAX	75	66	473	1,300	639	1,060	534	380	49	290	3.8	160
MIN	6.6	12	68	107	79	62	23	5.8	1.5	2.0	.48	1.1
CFSM	.25	.24	1.90	4.79	3.25	2.51	1.22	.51	.11	.31	.02	.39
IN.	.29	.27	2.18	5.53	3.39	2.89	1.36	.59	.12	.36	.02	.44

CAL YR 1974 TOTAL 50,591.30 MEAN 139 MAX 1,560 MIN 1.2 CFSM 1.49 IN 20.17
WTR YR 1975 TOTAL 43,725.27 MEAN 120 MAX 1,300 MIN .48 CFSM 1.29 IN 17.43

PEAK DISCHARGE (BASE, 660 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-15	0330	13.80	1,330	3-20	1230	13.46	1,140
1-26	1230	13.10	960				

02091960 Creeping Swamp near Calico, N. C.

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

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

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

GAGE.--Water-stage recorder and concrete control with a parabolic shaped sharp-crested weir. Datum of gage is at mean sea level (Soil Conservation Service bench mark). Prior to Oct. 1, 1972, at datum 27.98 ft (8.528 m) higher.

EXTREMES.--Current year: Maximum discharge, 123 ft^3/s (3.48 m^3/s) Feb. 20 (gage height, 35.01 ft or 10.671 m); no flow June 15 to July 12, 17, 18, July 25 to Sept. 7, 9-22.
Period of record: Maximum discharge, 1,000 ft^3/s (28.3 m^3/s) Oct. 1, 1971 (gage height, 36.90 ft or 11.247 m, present datum); no flow at times each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.66	.09	8.1	19	12	12	4.8	1.6	27	0	0	0
2	.58	.08	18	17	12	11	4.8	1.9	14	0	0	0
3	.54	.08	23	14	14	10	5.7	1.6	8.5	0	0	0
4	.50	.08	20	14	15	9.3	5.8	1.4	5.3	0	0	0
5	.43	.08	16	15	28	8.5	5.3	1.1	3.1	0	0	0
6	.40	.08	13	15	36	7.4	4.8	1.0	1.6	0	0	0
7	.36	.06	12	15	31	6.7	3.9	.88	1.0	0	0	0
8	.33	.06	12	14	22	6.2	3.3	.81	.63	0	0	.05
9	.30	.05	11	16	17	5.3	2.7	.74	.37	0	0	0
10	.25	.05	12	16	14	4.6	2.8	.67	.23	0	0	0
11	.20	.04	11	20	12	4.5	4.0	.60	.16	0	0	0
12	.17	.08	10	32	11	4.2	9.1	.53	.20	0	0	0
13	.14	.12	9.6	53	9.3	5.3	12	.51	.20	.08	0	0
14	.10	.09	8.5	60	8.2	9.6	12	.41	.12	.26	0	0
15	.09	.06	7.8	48	7.4	22	28	.32	0	.23	0	0
16	.20	.05	7.8	35	8.5	24	53	.46	0	.02	0	0
17	.33	.05	7.1	25	34	29	43	.46	0	0	0	0
18	.28	.22	6.6	19	52	32	27	.46	0	0	0	0
19	.46	.46	6.4	17	80	50	18	.56	0	.05	0	0
20	.54	1.1	7.3	19	113	74	15	.51	0	.46	0	0
21	.43	1.0	12	34	74	52	11	.37	0	.44	0	0
22	.36	.66	20	35	49	35	8.9	.24	0	.29	0	0
23	.33	1.7	22	27	35	24	7.3	1.8	0	.13	0	.06
24	.22	2.7	19	29	27	18	5.8	9.1	0	.02	0	.26
25	.17	2.5	16	41	25	15	4.6	9.3	0	0	0	6.2
26	.14	2.5	14	50	21	12	3.8	6.5	0	0	0	19
27	.12	1.9	12	42	17	9.3	2.7	4.3	0	0	0	25
28	.10	1.6	16	29	14	7.8	2.2	5.2	0	0	0	18
29	.10	1.6	31	22	------	6.7	1.9	4.5	0	0	0	12
30	.10	1.7	31	18	------	6.2	1.8	6.5	0	0	0	11
31	.09	------	25	15	------	5.5	------	39	------	0	0	------
TOTAL	9.02	20.84	447.2	825	798.4	527.3	315.0	103.33	62.41	1.98	0	91.57
MEAN	.29	.69	14.4	26.6	28.5	17.0	10.5	3.33	2.08	.064	0	3.05
MAX	.66	2.7	31	60	113	74	53	39	27	.46	0	25
MIN	.09	.04	6.4	14	7.4	4.2	1.8	.24	0	0	0	0
CFSM	.03	.07	1.47	2.71	2.91	1.73	1.07	.34	.21	.007	0	.31
IN.	.03	.08	1.70	3.13	3.03	2.00	1.20	.39	.24	.007	0	.35

CAL YR 1974 TOTAL 4,530.27 MEAN 12.4 MAX 108 MIN 0 CFSM 1.27 IN 17.20
WTR YR 1975 TOTAL 3,202.05 MEAN 8.77 MAX 113 MIN 0 CFSM .89 IN 12.15

PEAK DISCHARGE (BASE, 50 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-13	2200	34.74	63	3-20	0400	34.84	82
1-26	0345	34.66	50	4-16	1015	34.69	55
2-20	0245	35.01	123				

02091970 Creeping Swamp near Vanceboro, N. C.

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

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

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

GAGE.--Water-stage recorder and concrete control with a parabolic shaped sharp-crested weir. Datum of gage is at mean sea level (Soil Conservation Service bench mark). Prior to Oct. 1, 1972, at datum 16.60 ft (5.060 m) higher.

EXTREMES.--Current year: Maximum discharge, 258 ft^3/s (7.31 m^3/s) Feb. 20 (gage height, 21.46 ft or 6.541 m); no flow June 24-27, Aug. 5 to Sept. 6.
Period of record: Maximum discharge, 1,810 ft^3/s (51.3 m^3/s) Oct. 1, 1971 (gage height, 24.53 ft or 7.477 m present datum); no flow at times each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	.23	48	64	41	42	18	9.2	50	.66	.04	0
2	2.2	.20	57	55	39	39	18	9.5	55	.37	.03	0
3	1.5	.18	44	46	44	36	19	9.0	38	.18	.02	0
4	1.1	.16	37	42	45	31	21	8.2	23	.11	.01	0
5	.88	.16	39	43	75	28	20	7.3	15	.10	0	0
6	.68	.15	37	42	102	25	17	5.9	9.9	.07	0	0
7	.58	.16	32	41	97	23	15	4.6	6.6	.10	0	.07
8	.47	.16	30	40	82	21	14	3.4	3.8	.18	0	5.5
9	.35	.14	29	44	66	18	12	2.4	2.0	.18	0	5.8
10	.28	.12	26	44	53	17	13	1.6	1.1	.17	0	2.2
11	.22	.11	23	48	44	17	18	1.2	.68	.15	0	.92
12	.18	.13	22	68	38	16	31	.85	.47	.62	0	.49
13	.16	.19	21	107	33	18	38	.62	.37	4.7	0	.44
14	.14	.20	20	153	29	27	37	.43	.22	16	0	.30
15	.12	.20	19	148	26	42	70	.30	.13	21	0	.20
16	.20	.22	18	114	26	46	122	.27	.08	16	0	.16
17	.31	.23	18	86	50	67	126	.23	.11	13	0	.13
18	.28	.37	16	67	73	78	106	.20	.18	11	0	.11
19	.42	.88	15	55	145	103	74	.23	.09	8.5	0	.15
20	.79	2.8	17	55	244	165	56	.20	.05	5.0	0	.19
21	.84	7.0	31	77	242	163	46	.17	.03	3.2	0	.17
22	.88	7.0	47	84	177	121	40	.13	.02	1.9	0	.27
23	.84	6.4	49	81	119	89	32	.46	.01	1.3	0	.92
24	.71	5.5	51	80	90	67	23	27	0	.93	0	2.9
25	.64	4.8	50	94	82	54	20	19	0	.64	0	14
26	.52	5.8	43	115	68	42	17	14	0	.50	0	18
27	.42	6.7	37	112	57	34	14	13	0	.30	0	49
28	.35	6.7	46	96	49	28	12	15	.05	.18	0	42
29	.31	6.1	65	76	------	23	11	12	.48	.10	0	36
30	.30	5.5	71	61	------	22	9.5	14	.87	.08	0	34
31	.26	------	72	49	------	19	------	48	------	.06	0	------
TOTAL	19.73	68.49	1,130	2,287	2,236	1,521	1,067.5	228.39	208.24	107.28	.10	213.92
MEAN	.64	2.28	36.5	73.8	79.9	49.1	35.6	7.37	6.94	3.46	.003	7.13
MAX	2.8	7.0	72	153	244	165	126	48	55	21	.04	49
MIN	.12	.11	15	40	26	16	9.5	.13	0	.06	0	0
CFSM	.02	.08	1.35	2.73	2.96	1.82	1.32	.27	.26	.13	.0001	.26
IN.	.03	.09	1.56	3.15	3.08	2.10	1.47	.31	.29	.15	0	.29

CAL YR 1974 TOTAL 11,102.84 MEAN 30.4 MAX 231 MIN 0 CFSM 1.13 IN 15.30
WTR YR 1975 TOTAL 9,087.65 MEAN 24.9 MAX 244 MIN 0 CFSM .92 IN 12.52

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE
2-20	2200	21.46	258

02092000 Swift Creek near Vanceboro, N. C.

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

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

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

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

AVERAGE DISCHARGE.--25 years, 207 ft^3/s (5.862 m^3/s), 15.45 in/yr (392 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,120 ft^3/s (31.7 m^3/s) Jan. 14 (gage height, 10.90 ft or 3.322 m); minimum, 8.4 ft^3/s (0.24 m^3/s) Aug. 31, Sept. 1 (gage height, 3.84 ft or 1.170 m).
Period of record: Maximum discharge, 6,060 ft^3/s (172 m^3/s) Sept. 22, 1955 (gage height, 19.67 ft or 6.000 m present datum); no flow Aug. 8-29, Oct. 4 to Nov. 9, 1954.
Flood in 1909 reached a stage of 22 ft (6.7 m), present datum, and flood in 1928 reached a stage of 17.7 ft (5.39 m), present datum, from information by local resident.

REMARKS.--Records fair. During 1964, the channel was canalized from a point 12.2 mi (19.6 km) upstream to a point 2.5 mi (4.0 km) downstream from the gage. Water quality records for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	32	344	361	262	270	141	70	113	22	24	9.6
2	60	31	485	307	238	248	137	69	99	19	21	18
3	54	31	460	263	246	248	144	73	82	16	18	20
4	49	30	349	236	252	219	171	69	60	16	17	20
5	46	29	267	259	452	196	158	61	48	27	16	17
6	43	27	222	254	653	177	138	54	39	30	15	14
7	42	27	184	255	623	164	123	47	32	36	15	13
8	40	26	162	249	498	154	111	42	30	52	18	91
9	39	26	203	274	369	145	101	38	26	34	17	71
10	37	25	208	306	295	133	98	35	23	27	15	47
11	34	24	172	342	254	132	113	32	21	22	14	32
12	32	23	149	410	227	133	183	30	19	21	12	25
13	31	22	137	773	203	139	228	28	19	27	11	21
14	30	22	127	1,070	183	240	214	25	19	69	11	20
15	29	22	119	1,100	168	399	354	23	18	189	10	19
16	30	22	115	984	166	397	791	23	17	210	9.5	18
17	36	21	119	728	332	387	860	23	17	184	9.2	17
18	49	24	115	515	410	420	728	22	22	149	9.0	18
19	46	36	104	387	695	482	510	28	20	111	9.0	17
20	63	62	105	349	1,050	737	355	47	18	79	13	16
21	70	115	171	575	1,080	737	282	35	17	56	18	17
22	62	125	274	647	912	584	229	29	17	47	15	21
23	54	109	266	566	689	432	187	53	16	39	12	40
24	50	94	258	515	500	334	157	160	15	33	10	72
25	46	86	225	665	590	289	132	158	14	30	11	202
26	43	84	195	791	560	256	121	111	13	43	16	237
27	40	90	168	836	425	214	107	72	12	44	14	288
28	37	91	223	719	327	181	94	82	17	34	14	298
29	36	88	440	536	------	166	84	84	28	28	12	229
30	34	83	498	397	------	159	75	60	26	25	9.8	184
31	33	------	430	310	------	149	------	105	------	24	8.7	------
TOTAL	1,363	1,527	7,334	15,981	12,669	8,923	7,126	1,788	917	1,743	424.2	2,111.6
MEAN	44.0	50.9	237	516	452	288	238	57.7	30.6	56.2	13.7	70.4
MAX	70	125	498	1,100	1,080	737	860	160	113	210	24	298
MIN	29	21	104	238	166	132	75	22	12	16	8.7	9.6
CFSM	.24	.28	1.30	2.84	2.48	1.58	1.31	.32	.17	.31	.08	.39
IN.	.28	.31	1.50	3.27	2.59	1.82	1.46	.37	.19	.36	.09	.43

CAL YR 1974 TOTAL 91,701.0 MEAN 251 MAX 1,660 MIN 11 CFSM 1.38 IN 18.74
WTR YR 1975 TOTAL 61,906.8 MEAN 170 MAX 1,100 MIN 8.7 CFSM .93 IN 12.65

02092020 Palmetto Swamp near Vanceboro, N. C.

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

DRAINAGE AREA.--24 mi^2 (62 km^2), 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 and concrete control with a parabolic shaped sharp-crested weir. Datum of gage is at mean sea level (Soil Conservation Service bench mark). Prior to Feb. 28, 1971, crest-stage gage 40 ft (12 m) upstream from bridge at datum 14.31 ft (4.362 m) lower. Mar. 1, 1971, to Sept. 30, 1972, water-stage recorder at present site at datum 2.46 ft (0.750 m) higher.

EXTREMES.--Current year: Maximum discharge, 161 ft^3/s (4.56 m^3/s) Jan. 14 (gage height, 8.66 ft or 2.640 m); no flow June 14-28, July 2, 3, Aug. 14 to Sept. 1.
Period of record: Maximum discharge, 3,700 ft^3/s (105 m^3/s) Sept. 20, 1955 (gage height, 26.14 ft or 7.967 m), site and datum then in use; no flow at times during several years.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	.79	45	44	24	24	8.6	3.2	34	.01	.20	0
2	1.7	.76	61	36	23	23	8.6	2.9	24	0	.13	3.7
3	1.3	.71	57	30	31	22	12	2.7	16	0	.10	11
4	1.1	.68	43	26	34	19	16	2.2	6.4	.01	.06	5.5
5	.95	.66	31	32	86	17	15	1.5	2.5	.53	.04	2.6
6	.85	.63	24	33	110	15	13	1.4	1.8	.63	.03	1.2
7	.82	.66	19	34	87	13	10	1.2	1.1	.68	.02	.68
8	.85	.61	21	31	61	12	7.4	.90	.80	1.0	.02	.57
9	.82	.61	28	32	45	11	5.8	.72	.60	1.0	.02	.48
10	.76	.58	29	32	35	9.5	5.8	.60	.35	.77	.02	.33
11	.68	.56	28	48	28	9.2	9.2	.45	.15	.57	.01	.20
12	.60	.66	24	86	24	6.6	26	.40	.04	.73	.01	.13
13	.56	.76	20	126	21	9.5	39	.35	.01	2.3	.01	.12
14	.51	.79	18	157	19	12	36	.30	0	13	0	.09
15	.51	.76	16	117	17	15	56	.29	0	31	0	.05
16	.58	.74	16	79	16	17	90	.33	0	41	0	.04
17	.85	.71	16	57	25	25	84	.30	0	71	0	.04
18	.95	.92	15	44	33	31	58	.28	0	37	0	.03
19	1.4	2.3	14	36	65	45	40	.26	0	20	0	.03
20	3.2	5.0	16	38	104	63	32	1.3	0	11	0	.03
21	2.8	10	38	58	96	64	31	1.6	0	5.9	0	.02
22	2.0	7.7	67	66	66	45	29	.96	0	3.8	0	.67
23	1.4	6.6	72	55	47	36	23	24	0	2.4	0	5.6
24	1.2	5.8	54	53	40	29	17	117	0	1.7	0	13
25	1.1	4.8	41	65	45	24	13	94	0	1.2	0	16
26	1.0	5.4	33	87	45	19	13	41	0	1.0	0	28
27	.96	5.4	27	79	39	16	12	21	0	.84	0	41
28	.92	5.0	40	58	30	13	7.4	13	0	.72	0	28
29	.89	4.7	61	43	------	11	5.2	6.6	.01	.54	0	18
30	.85	4.1	68	34	------	9.8	3.9	5.8	.01	.39	0	13
31	.79	------	55	26	------	9.2	------	33	------	.29	0	------
TOTAL	34.90	79.39	1,097	1,748	1,296	676.8	726.9	384.54	87.77	251.01	.67	190.11
MEAN	1.13	2.65	35.4	56.4	46.3	21.8	24.2	12.4	2.93	8.10	.022	6.34
MAX	3.2	10	72	157	110	64	90	117	34	71	.20	41
MIN	.51	.56	14	26	16	8.6	3.9	.26	0	0	0	0
CFSM	.05	.11	1.48	2.35	1.93	.91	1.01	.52	.12	.34	.0009	.26
IN.	.05	.12	1.70	2.71	2.01	1.05	1.13	.60	.14	.39	.001	.29

CAL YR 1974 TOTAL 7,982.59 MEAN 21.9 MAX 188 MIN .02 CFSM .91 IN 12.37
WTR YR 1975 TOTAL 6,573.09 MEAN 18.0 MAX 157 MIN 0 CFSM .75 IN 10.19

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-14	0945	8.66	161	2-20	1915	8.42	114
2- 6	0845	8.42	114	5-24	1815	8.58	144

02092500 Trent River near Trenton, N. C.

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

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

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

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

AVERAGE DISCHARGE.--24 years, 200 ft^3/s (5.664 m^3/s), 16.17 in/yr (411 mm/yr).

EXTREMES.--Current year: Maximum discharge, 956 ft^3/s (27.1 m^3/s) Jan. 15 (gage height, 11.40 ft or 3.47 m); minimum, 4.5 ft^3/s (0.13 m^3/s) June 27 (gage height, 2.48 ft or 0.756 m).
Period of record: Maximum discharge, 9,100 ft^3/s (258 m^3/s) Sept. 21, 1955 (gage height, 17.84 ft or 5.438 m); minimum, 1.3 ft^3/s (0.037 m^3/s) Oct. 11-15, 1954.
Flood in 1928 reached a stage of 17.3 ft or 5.27 m (discharge, 7,600 ft^3/s or 215 m^3/s), from information furnished by North Carolina State Highway Commission.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	17	138	373	296	384	127	133	50	9.4	29	13
2	26	16	268	355	241	300	127	159	56	8.0	25	37
3	22	16	311	308	230	234	208	168	60	6.9	21	34
4	20	16	317	252	232	205	347	158	60	6.0	18	37
5	19	16	319	234	450	185	396	150	50	7.5	15	54
6	17	15	320	232	592	167	404	143	35	7.7	14	51
7	17	15	284	238	715	153	379	122	24	7.9	13	30
8	16	16	224	235	736	142	306	104	17	9.0	13	23
9	16	15	204	248	656	131	211	91	13	7.9	12	18
10	16	15	199	271	551	119	157	78	11	7.3	11	14
11	15	14	181	305	441	110	136	62	9.5	7.0	10	12
12	14	15	162	443	331	106	147	50	9.4	8.5	9.6	11
13	14	15	152	640	275	107	168	42	11	15	8.9	11
14	13	16	145	843	220	132	173	37	12	37	8.2	10
15	12	17	135	955	194	180	201	34	10	105	7.5	9.6
16	13	17	130	912	179	191	292	48	9.3	165	6.8	10
17	17	16	134	784	209	192	338	68	8.8	206	7.0	10
18	21	18	134	644	249	207	351	71	8.1	247	9.4	12
19	24	23	124	532	356	260	335	66	7.8	234	10	19
20	26	37	123	443	477	363	331	63	12	201	11	26
21	30	81	247	448	575	429	365	56	15	149	10	27
22	32	106	379	485	620	481	354	48	12	126	9.4	40
23	32	112	442	526	580	499	307	41	8.8	148	8.4	68
24	31	114	473	553	509	459	241	36	7.0	263	9.4	141
25	29	111	466	555	477	385	186	36	6.0	211	9.1	198
26	27	101	418	554	465	309	141	34	5.2	216	16	240
27	25	78	343	550	458	252	110	27	5.0	149	23	332
28	23	61	283	540	437	218	92	23	8.1	92	22	352
29	21	51	309	508	------	180	93	21	12	60	16	401
30	20	46	348	449	------	154	112	24	11	42	13	501
31	19	------	368	375	------	139	------	39	------	34	12	------
TOTAL	657	1,206	8,080	14,790	11,751	7,373	7,135	2,232	564.0	2,793.1	407.7	2,741.6
MEAN	21.2	40.2	261	477	420	238	238	72.0	18.8	90.1	13.2	91.4
MAX	32	114	473	955	736	499	404	168	60	263	29	501
MIN	12	14	123	232	179	106	92	21	5.0	6.0	6.8	9.6
CFSM	.13	.24	1.55	2.84	2.50	1.42	1.42	.43	.11	.54	.08	.54
IN.	.15	.27	1.79	3.27	2.60	1.63	1.58	.49	.12	.62	.09	.61

CAL YR 1974 TOTAL 70,046.0 MEAN 192 MAX 906 MIN 12 CFSM 1.14 IN 15.51
WTR YR 1975 TOTAL 59,730.4 MEAN 164 MAX 955 MIN 5.0 CFSM .98 IN 13.23

02093800 Reedy Fork near Oak Ridge, N. C.

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

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

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

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

AVERAGE DISCHARGE.--20 years, 22.7 ft^3/s (0.643 m^3/s), 15.49 in/yr (393 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,040 ft^3/s (29.5 m^3/s) Mar. 14; maximum gage height, 9.94 ft or 3.030 m July 16; minimum daily, 8.0 ft^3/s (0.23 m^3/s) Sept. 4, 5.
Period of record: Maximum discharge, 3,950 ft^3/s (112 m^3/s) Oct. 10, 1959 (gage height, 10.94 ft, 3.335 m), from rating curve extended above 1,500 ft^3/s (42.5 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 1.5 ft^3/s (0.042 m^3/s) Sept. 24, 1968.

REMARKS.--Records fair except those after May 20, which are poor. Some diurnal fluctuation at low flow caused by mill upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	11	135	19	23	23	47	23	153	14	15	9.0
2	11	11	46	18	27	21	37	22	68	14	14	10
3	11	11	25	18	24	20	42	25	38	14	14	10
4	11	11	20	23	35	20	31	43	29	13	13	8.0
5	11	11	17	19	107	20	27	23	26	14	13	8.0
6	11	12	16	21	101	19	26	20	28	14	16	15
7	11	11	24	22	84	21	26	19	23	15	18	40
8	11	10	197	23	49	23	24	19	20	16	14	20
9	11	11	57	31	36	18	24	19	19	18	13	16
10	11	10	32	24	29	21	24	24	17	15	13	14
11	11	11	24	333	27	23	25	22	17	19	13	14
12	10	13	23	95	29	29	25	19	18	32	14	25
13	10	12	20	235	25	321	22	19	17	214	14	22
14	10	12	18	78	23	771	22	17	15	287	13	15
15	11	16	18	49	22	142	40	27	15	294	13	14
16	12	13	42	35	23	83	25	41	17	370	12	14
17	12	12	27	28	25	269	23	34	16	46	17	14
18	11	13	21	25	23	77	23	35	16	32	21	15
19	20	14	20	24	23	482	22	25	16	24	15	16
20	13	25	19	64	21	105	22	18	16	20	14	14
21	11	20	20	54	20	64	20	18	16	18	13	13
22	11	14	18	34	19	53	21	18	16	15	12	18
23	12	12	17	28	27	42	21	25	16	23	11	255
24	12	12	17	26	56	56	21	25	15	40	11	86
25	11	14	19	87	43	61	23	23	14	120	10	43
26	11	14	17	62	28	38	21	39	14	26	10	34
27	11	12	18	36	26	33	20	21	15	20	10	26
28	11	12	32	29	24	30	26	20	16	18	10	21
29	11	12	27	26	------	42	22	23	16	17	9.0	19
30	12	13	23	24	------	160	27	29	15	16	9.0	18
31	11	------	20	23	------	71	------	24	------	15	9.0	------
TOTAL	355	385	1,029	1,613	999	3,158	779	759	737	1,813	403.0	846.0
MEAN	11.5	12.8	33.2	52.0	35.7	102	26.0	24.5	24.6	58.5	13.0	28.2
MAX	20	25	197	333	107	771	47	43	153	370	21	255
MIN	10	10	16	18	19	18	20	17	14	13	9.0	8.0
CFSM	.58	.64	1.67	2.61	1.79	5.13	1.31	1.23	1.24	2.94	.65	1.42
IN.	.66	.72	1.92	3.02	1.87	5.90	1.46	1.42	1.38	3.39	.75	1.58

CAL YR 1974 TOTAL 9,610.5 MEAN 26.3 MAX 420 MIN 7.2 CFSM 1.32 IN 17.97
WTR YR 1975 TOTAL 12,876.0 MEAN 35.3 MAX 771 MIN 8.0 CFSM 1.77 IN 24.07

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	1400	8.53	589	3-19	1330	9.44	906
1-13	1430	7.33	359	7-14	0300	8.81	652
3-14	0930	9.74	1,040	7-16	0130	9.94	1,030
3-17	0800	8.09	498	9-23	0830	7.68	422

02094500 Reedy Fork near Gibsonville, N. C.

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

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

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

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

AVERAGE DISCHARGE.--47 years, 101 ft^3/s (2.860 m^3/s), 10.31 in/yr (262 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,480 ft^3/s (70.2 m^3/s) July 15 (gage height, 8.95 ft or 2.728 m); minimum, 5.8 ft^3/s (0.16 m^3/s) July 4, 6 (gage height, 0.78 ft or 0.238 m).
Period of record: Maximum discharge, 11,600 ft^3/s (329 m^3/s) Sept. 25, 1947 (gage height, 20.77 ft or 6.331 m); minimum daily, 0.4 ft^3/s (0.011 m^3/s) Oct. 14, 1954.
Flood in July 1916 reached a stage of 17.90 ft (5.456 m), from information by local resident (discharge, 8,640 ft^3/s or 245 m^3/s).

REMARKS.--Records good except those for period of no gage-height record, which are poor. Flow partly regulated since 1923 by Lake Brandt 14 mi (23 km) upstream (see p. 154), since 1957 by Lake Higgins on Brush Creek, a tributary to Lake Brandt, (see p.154), since 1943 by Richland Lake 12 mi (19 km) above station, and since 1968 by Lake Townsend 9 mi (14 km) above station. City of Greensboro diverted from Lake Brandt an average of 14.6 ft^3/s (0.41 m^3/s) and an average of 21.9 ft^3/s (0.62 m^3/s) from Lake Townsend for municipal supply. Cone Mills diverted from Richland Lake an average of 0.8 ft^3/s (0.023 m^3/s) during the year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	14	100	43	28	49	200	60	538	7.7	18	8.4
2	15	14	157	57	44	46	100	299	458	7.0	17	10
3	14	14	171	54	90	262	70	223	412	6.6	15	9.4
4	16	10	122	60	149	889	60	52	318	6.3	16	8.6
5	18	8.0	91	61	378	539	50	30	52	6.7	16	8.8
6	17	8.0	68	68	678	39	46	23	25	6.1	18	8.3
7	17	7.5	58	87	641	28	40	25	20	16	32	15
8	17	7.1	395	90	501	28	38	26	18	113	22	20
9	16	7.5	595	117	158	23	36	103	15	229	19	14
10	15	7.5	646	113	156	25	36	245	150	53	21	10
11	14	8.4	355	678	416	28	35	37	27	103	21	14
12	13	8.9	38	1,180	385	33	34	20	19	110	24	22
13	14	8.9	25	1,510	64	487	60	22	18	541	22	31
14	13	8.0	21	902	31	900	50	29	14	1,650	20	14
15	14	14	23	721	31	2,000	50	251	12	1,990	21	11
16	16	13	61	365	27	300	100	312	13	2,260	17	14
17	17	10	90	59	30	250	60	73	12	1,450	17	12
18	14	11	100	384	31	900	46	266	11	786	17	17
19	24	11	91	682	42	1,100	40	377	10	229	15	27
20	22	15	80	720	54	1,300	38	294	45	34	15	17
21	18	19	77	446	63	250	30	39	13	27	17	12
22	18	14	72	88	68	150	26	21	10	23	21	14
23	18	13	64	37	74	120	25	18	9.3	22	89	625
24	18	11	64	32	182	100	29	90	8.6	57	254	921
25	15	12	62	279	403	90	37	246	8.0	1,080	26	651
26	15	14	62	425	66	300	279	27	11	1,310	12	424
27	14	12	59	391	50	140	37	16	12	515	10	126
28	13	10	124	383	53	120	27	15	10	322	8.8	25
29	13	10	146	381	------	100	26	23	11	45	8.7	18
30	12	9.4	402	271	------	90	24	847	8.7	22	8.2	17
31	13	------	67	37	------	600	------	740	------	22	8.0	------
TOTAL	490	330.2	4,486	10,721	4,893	11,286	1,729	4,849	2,288.6	13,049.4	845.7	3,124.5
MEAN	15.8	11.0	145	346	175	364	57.6	156	76.3	421	27.3	104
MAX	24	19	646	1,510	678	2,000	279	847	538	2,260	254	921
MIN	12	7.1	21	32	27	23	24	15	8.0	6.1	8.0	8.3

CAL YR 1974 TOTAL 26,895.0 MEAN 73.7 MAX 2,820 MIN 4.9
WTR YR 1975 TOTAL 58,092.4 MEAN 159 MAX 2,260 MIN 6.1

Note.--No gage-height record Mar. 13 to Apr. 23.

02095500 North Buffalo Creek near Greensboro, N. C.

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

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

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

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

AVERAGE DISCHARGE.--47 years, 52.7 ft^3/s (1.492 m^3/s), 19.34 in/yr (491 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,320 ft^3/s (122 m^3/s) July 15 (gage height, 14.02 ft or 4.273 m); minimum, 19 ft^3/s (0.54 m^3/s) Oct. 13, July 6, Sept. 2 (gage height, 2.04 ft or 0.622 m).
Period of record: Maximum discharge, 6,600 ft^3/s (187 m^3/s) June 16, 1969 (gage height, 16.63 ft or 5.069 m), from rating curve extended above 2,900 ft^3/s (82.1 m^3/s) on basis of contracted-opening measurements at gage heights 14.15 ft or 4.313 m, 15.96 ft or 4.865 m, and 16.63 ft or 5.069 m; minimum, 1.6 ft^3/s (0.045 m^3/s) Aug. 28, 1932.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	33	448	39	40	43	68	44	457	28	35	27
2	31	31	58	37	75	46	58	42	151	30	33	27
3	31	30	39	36	49	41	64	72	67	29	30	30
4	30	30	36	63	209	39	54	126	49	35	31	30
5	29	30	35	38	497	39	56	46	44	29	31	30
6	27	32	34	86	212	39	52	39	52	33	44	33
7	30	36	164	54	168	51	51	37	38	69	70	154
8	30	34	626	71	81	52	45	38	35	95	36	90
9	31	29	71	82	64	37	43	38	37	397	33	34
10	31	27	46	51	54	64	42	92	36	51	33	32
11	32	29	42	774	51	50	53	74	41	116	44	33
12	29	33	45	355	72	86	64	40	48	166	42	79
13	26	31	40	567	50	995	43	36	39	1,080	32	161
14	28	31	36	112	47	1,860	42	35	34	858	31	39
15	29	49	36	68	49	206	173	169	32	1,240	32	31
16	50	30	134	57	52	170	52	262	68	648	30	33
17	36	28	48	49	69	576	46	60	36	113	52	32
18	32	43	41	48	53	135	44	189	33	77	47	58
19	105	37	39	44	58	1,060	43	63	34	60	160	95
20	36	131	41	253	52	163	44	44	38	55	46	37
21	32	44	54	88	49	89	39	40	35	68	33	32
22	31	34	35	60	43	99	39	38	32	54	32	171
23	32	30	35	51	73	71	40	80	30	166	30	554
24	33	28	32	51	244	179	44	46	31	105	31	169
25	32	45	56	298	82	108	41	37	32	454	33	76
26	30	38	40	90	54	64	41	49	32	77	34	63
27	28	31	49	58	53	55	36	36	33	51	33	43
28	32	29	149	51	48	52	98	35	39	48	34	38
29	29	28	65	46	------	101	42	515	31	42	32	38
30	29	57	49	43	------	476	64	990	30	49	29	36
31	34	------	43	41	------	103	------	223	------	40	27	------
TOTAL	1,048	1,118	2,666	3,761	2,648	7,149	1,621	3,635	1,694	6,363	1,240	2,305
MEAN	33.8	37.3	86.0	121	94.6	231	54.0	117	56.5	205	40.0	76.8
MAX	105	131	626	774	497	1,860	173	990	457	1,240	160	554
MIN	26	27	32	36	40	37	36	35	30	28	27	27

CAL YR 1974 TOTAL 26,619 MEAN 72.9 MAX 1,590 MIN 22
WTR YR 1975 TOTAL 35,248 MEAN 96.6 MAX 1,860 MIN 26

PEAK DISCHARGE (BASE, 920 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 1	0730	8.03	1,140	3-30	1200	8.72	1,270
12- 8	0600	9.14	1,360	5-16	0130	7.54	1,050
1-11	0830	10.66	1,810	5-29	2330	12.84	3,300
1-12	2130	7.45	1,030	7-13	1530	13.00	3,440
2- 5	0030	7.56	1,050	7-15	2100	14.02	4,320
3-14	0600	11.80	2,490	7-25	0400	8.74	1,280
3-17	0300	9.78	1,520	9-23	0330	9.51	1,440
3-19	0930	10.89	1,920				

02096500 Haw River at Haw River, N. C.

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

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

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

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

AVERAGE DISCHARGE.--47 years, 570 ft^3/s (16.14 m^3/s), 12.92 in/yr (328 mm/yr).

EXTREMES.--Current year: Maximum discharge, 17,100 ft^3/s (484 m^3/s) Mar. 14 (gage height, 23.11 ft or 7.044 m); minimum, 114 ft^3/s (3.23 m^3/s) Sept. 1, 2 (gage height, 1.88 ft or 0.573 m); minimum daily, 122 ft^3/s (3.46 m^3/s) Aug. 31.
Period of record: Maximum discharge, 37,000 ft^3/s (1,050 m^3/s) Sept. 18, 1945 (gage height, 31.10 ft or 9.479 m, from floodmark); minimum, 3 ft^3/s (0.085 m^3/s) Sept. 5, 1930 (gage height, 0.92 ft or 0.280 m); minimum daily, 5 ft^3/s (0.14 m^3/s) Sept. 6, 1930.

REMARKS.--Records good. Large diurnal fluctuation and some regulation for short periods at low flow caused by powerplants above station. City of Burlington diverted from two reservoirs on Stony Creek (see p. 154) an average of 14.2 ft^3/s (0.40 m^3/s) for municipal water supply, about half of which was returned above station as sewage, the remainder was returned below station.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	169	1,170	424	466	488	1,990	443	1,740	151	265	137
2	177	169	1,130	384	495	450	1,180	628	1,940	140	230	129
3	162	161	635	337	670	402	978	631	1,300	131	206	133
4	159	162	517	371	808	1,090	828	687	1,030	128	192	135
5	152	160	415	425	3,660	1,060	619	595	675	157	185	131
6	150	164	326	416	3,460	433	540	447	412	167	233	126
7	150	159	299	672	2,480	342	494	382	334	159	680	247
8	151	145	3,440	552	1,850	405	468	345	277	353	438	411
9	155	139	2,240	814	1,300	372	642	327	235	1,590	275	288
10	155	132	1,420	654	969	349	494	551	273	1,290	233	247
11	156	133	1,050	7,850	1,010	436	530	627	290	1,970	201	206
12	152	147	590	4,680	988	438	477	397	235	1,770	214	235
13	143	153	448	7,770	803	4,800	452	343	255	3,250	242	435
14	141	151	354	4,440	518	14,500	452	312	231	9,110	218	280
15	138	154	313	2,250	468	10,100	786	485	208	9,250	206	199
16	148	191	549	1,610	446	5,020	905	1,360	207	10,200	199	171
17	185	157	708	1,010	487	6,370	537	844	287	5,150	187	169
18	176	153	514	913	523	3,420	679	966	227	2,740	178	187
19	196	176	453	1,200	494	9,270	560	1,440	195	1,530	494	1,090
20	308	246	402	1,830	499	6,860	421	887	199	941	350	466
21	189	446	436	2,070	454	3,650	381	523	197	916	255	262
22	168	250	418	1,040	430	2,210	349	354	165	481	218	242
23	167	197	356	732	481	1,800	348	311	161	545	201	3,840
24	169	163	330	618	832	1,190	353	354	151	800	361	4,950
25	171	154	341	2,080	1,680	1,680	359	543	155	2,810	290	3,220
26	165	179	382	2,230	848	982	523	347	187	3,070	176	2,180
27	160	186	344	1,340	598	744	446	284	175	1,790	158	1,420
28	156	159	856	1,170	543	626	350	264	175	1,120	146	779
29	161	146	1,100	1,030	------	623	472	260	186	646	139	444
30	163	138	899	910	------	2,360	399	1,930	170	374	133	332
31	164	------	651	554	------	3,200	------	2,250	------	315	122	------
TOTAL	5,186	5,239	23,086	52,376	28,260	85,670	18,012	20,117	12,272	63,044	7,625	23,091
MEAN	167	175	745	1,690	1,009	2,764	600	649	409	2,034	246	770
MAX	308	446	3,440	7,850	3,660	14,500	1,990	2,250	1,940	10,200	680	4,950
MIN	138	132	299	337	430	342	348	260	151	128	122	126
CFSM	.28	.29	1.24	2.82	1.68	4.61	1.00	1.08	.68	3.40	.41	1.29
IN.	.32	.33	1.43	3.25	1.76	5.32	1.12	1.25	.76	3.92	.47	1.43

CAL YR 1974 TOTAL 231,368 MEAN 634 MAX 9,910 MIN 90 CFSM 1.06 IN 14.37
WTR YR 1975 TOTAL 343,978 MEAN 942 MAX 14,500 MIN 122 CFSM 1.57 IN 21.36

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0800	18.81	10,400	3-17	0830	15.65	7,220
1-13	1430	17.68	9,350	3-19	1730	20.67	12,100
3-14	1300	23.11	17,100	7-16	0600	20.78	12,200

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

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

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

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

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

AVERAGE DISCHARGE.--18 years, 113 ft^3/s (3.200 m^3/s), 13.23 in/yr (336 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,240 ft^3/s (148 m^3/s) Jan. 11 (gage height, 21.09 ft or 6.428 m); minimum, 13 ft^3/s (0.37 m^3/s) Sept. 6; minimum gage height, 1.65 ft or 0.503 m, July 4.
Period of record: Maximum discharge, 6,250 ft^3/s (177 m^3/s) Jan. 6, 1962 (gage height, 23.06 ft or 7.029 m); minimum, 0.27 ft^3/s (0.008 m^3/s) Sept. 19, 20, 1968.
Flood in September 1945 reached a stage of 29.4 ft (8.96 m), from information by local resident (discharge not determined).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	23	474	92	106	117	216	96	400	20	31	118
2	33	23	194	82	112	109	167	82	500	18	28	26
3	30	23	101	72	130	98	160	73	300	17	25	20
4	28	23	72	81	186	91	136	184	150	16	28	18
5	27	23	58	88	1,270	88	120	124	60	18	83	15
6	26	23	51	83	771	85	112	87	50	18	74	13
7	26	22	52	141	339	84	107	72	45	19	43	29
8	26	21	1,270	110	201	105	101	66	40	34	35	47
9	27	21	326	188	161	92	97	61	38	319	32	31
10	28	21	143	131	137	86	94	61	34	145	79	22
11	25	28	108	3,430	126	103	95	79	35	69	56	19
12	23	23	98	975	127	98	109	68	38	65	45	21
13	23	23	93	2,130	126	2,410	97	57	39	196	32	36
14	24	22	81	694	108	4,690	88	51	33	1,020	30	29
15	23	22	76	279	100	1,290	153	53	32	1,840	28	19
16	24	23	134	197	99	433	137	250	39	1,490	27	17
17	27	25	130	158	120	1,400	102	166	38	251	70	17
18	28	31	99	139	124	441	94	252	36	151	46	25
19	37	35	84	136	113	2,990	88	272	31	110	30	1,130
20	51	64	79	347	107	779	82	122	27	129	26	206
21	31	109	99	362	95	330	74	92	24	261	24	79
22	26	57	94	182	88	278	71	82	27	96	60	65
23	23	40	78	149	130	308	69	60	27	81	40	2,130
24	23	34	72	132	475	261	67	90	23	73	35	908
25	23	33	75	729	406	357	65	150	21	58	30	436
26	22	40	90	498	174	197	64	70	20	49	26	464
27	22	37	73	204	137	159	58	45	19	44	22	166
28	22	32	138	154	131	140	82	42	22	39	19	110
29	23	29	173	136	------	146	105	40	23	42	16	87
30	23	28	125	124	------	781	83	100	22	35	15	75
31	23	------	103	112	------	473	------	600	------	33	19	------
TOTAL	836	958	4,843	12,335	6,199	19,019	3,093	3,647	2,193	6,756	1,154	6,378
MEAN	27.0	31.9	156	398	221	614	103	118	73.1	218	37.2	213
MAX	51	109	1,270	3,430	1,270	4,690	216	600	500	1,840	83	2,130
MIN	22	21	51	72	88	84	58	40	19	16	15	13
CFSM	.23	.28	1.34	3.43	1.91	5.29	.89	1.02	.63	1.88	.32	1.84
IN.	.27	.31	1.55	3.96	1.99	6.10	.99	1.17	.70	2.17	.37	2.05

CAL YR 1974 TOTAL 43,699.9 MEAN 120 MAX 2,570 MIN 5.1 CFSM 1.03 IN 14.01
WTR YR 1975 TOTAL 67,411.0 MEAN 185 MAX 4,690 MIN 13 CFSM 1.59 IN 21.62

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	1115	21.09	5,240	3-19	1130	19.79	4,680
1-13	1245	14.85	2,900	7-15	2330	15.15	3,000
3-14	1530	20.83	5,120	9-19	1100	13.11	2,350
3-17	0445	13.79	2,560	9-23	1100	15.48	3,120

02096960 Haw River near Bynum, N. C.

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

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

PERIOD OF RECORD.--October 1973 to current year.

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

EXTREMES.--Current year: Maximum discharge, 45,800 ft^3/s (1,297 m^3/s) Mar. 14 (gage height, 17.67 ft or 5.386 m); minimum, 27 ft^3/s (0.76 m^3/s) Aug. 30; minimum gage height, 2.29 ft or 0.698 m Oct. 17, Aug. 30; minimum daily, 156 ft^3/s (4.42 m^3/s) Sept. 5.
Period of record: Maximum discharge, 45,800 ft^3/s (1.297 m^3/s) Mar. 14, 1975 (gage height, 17.67 ft or 5.386 m); minimum, 27 ft^3/s (0.76 m^3/s) Aug. 30, 1975; minimum gage height, 2.26 ft or 0.689 m July 13, 20, 21, Aug. 3, 1974; minimum daily, 125 ft^3/s (3.54 m^3/s) Aug. 2, 1974.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	475	284	1,270	1,130	1,200	1,280	4,070	919	3,710	269	635	506
2	384	293	3,130	963	1,150	1,180	2,660	1,080	3,690	232	516	475
3	338	290	1,400	821	1,500	1,080	2,210	1,150	2,280	218	460	292
4	315	341	1,040	859	1,620	1,270	1,950	1,330	1,670	206	428	236
5	299	229	828	1,100	10,300	1,720	1,490	1,620	1,320	211	398	156
6	292	288	675	987	8,260	1,320	1,270	1,050	888	233	388	198
7	344	286	585	1,790	4,990	861	1,150	846	691	344	1,710	392
8	290	284	8,290	1,670	3,640	898	1,080	730	568	350	1,560	1,050
9	271	243	6,830	3,410	2,760	965	1,050	660	483	2,620	771	760
10	240	248	2,790	2,240	2,060	843	1,230	672	434	3,230	559	463
11	280	262	1,970	14,000	1,800	935	1,020	954	520	2,870	643	384
12	278	244	1,450	17,000	1,840	1,040	1,110	923	472	3,210	487	445
13	268	358	1,060	17,700	1,810	9,080	1,060	661	471	8,140	555	651
14	253	284	875	14,100	1,310	32,400	984	599	473	28,200	469	765
15	304	266	739	4,860	1,130	30,300	1,340	538	413	24,500	424	433
16	267	244	963	3,440	1,090	9,300	2,320	2,490	390	24,500	343	341
17	269	266	1,750	2,420	1,250	12,400	1,370	2,530	403	9,700	349	299
18	236	255	1,240	1,800	1,400	7,650	1,200	3,800	480	4,870	385	280
19	347	316	1,010	1,950	1,370	16,000	1,300	4,640	383	3,020	359	5,570
20	506	316	883	3,270	1,430	18,400	1,000	2,150	336	1,880	1,450	6,550
21	499	703	948	5,580	1,190	6,630	896	1,430	328	2,020	850	1,250
22	386	669	1,080	2,980	1,050	4,450	804	942	315	1,410	465	758
23	317	385	891	1,960	1,030	3,950	765	748	337	1,030	360	9,940
24	267	304	760	1,630	2,100	2,920	736	688	283	1,490	331	16,500
25	296	266	753	6,300	4,200	3,970	731	870	260	2,290	566	10,100
26	302	273	916	7,570	2,420	2,790	714	919	205	4,300	419	5,790
27	292	292	859	3,470	1,560	1,900	949	625	279	2,920	321	3,670
28	357	281	1,340	2,520	1,400	1,620	739	730	245	1,770	226	1,890
29	219	248	3,070	2,160	------	1,500	927	752	236	1,290	238	1,210
30	298	234	1,970	1,900	------	3,810	889	3,020	281	806	175	906
31	297	------	1,680	1,530	------	6,960	------	4,610	------	662	196	------
TOTAL	9,786	9,252	53,045	133,110	66,860	189,422	39,014	44,676	22,844	138,791	17,036	72,260
MEAN	316	308	1,711	4,294	2,388	6,110	1,300	1,441	761	4,477	550	2,409
MAX	506	703	8,290	17,700	10,300	32,400	4,070	4,640	3,710	28,200	1,710	16,500
MIN	219	229	585	821	1,030	843	714	538	205	206	175	156
CFSM	.25	.24	1.33	3.34	1.86	4.76	1.01	1.12	.59	3.49	.43	1.88
IN.	.28	.27	1.54	3.86	1.94	5.49	1.13	1.29	.66	4.02	.49	2.09

CAL YR 1974 TOTAL 493,234 MEAN 1,351 MAX 22,200 MIN 125 CFSM 1.05 IN 14.29
WTR YR 1975 TOTAL 796,096 MEAN 2,181 MAX 32,400 MIN 156 CFSM 1.70 IN 23.06

PEAK DISCHARGE (BASE, 15,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	2045	14.80	28,600	7-14	0430	15.53	32,900
1-13	2030	13.98	24,600	7-16	0030	15.05	30,000
3-14	2300	17.67	45,800	9-24	1245	12.55	19,400
3-19	2400	14.43	26,700				

02098200 Haw River near Haywood, N. C.

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

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

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

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

AVERAGE DISCHARGE.--10 years, 1,558 ft^3/s (44.12 m^3/s), 12.45 in/yr (316 mm/yr).

EXTREMES.--Current year: Maximum discharge, 14,500 ft^3/s (411 m^3/s) July 16; maximum gage height, 18.81 ft or 5.733 m July 16; minimum daily discharge, 220 ft^3/s (6.23 m^3/s) July 5, Sept. 6.
Period of record: Maximum discharge, 25,800 ft^3/s (731 m^3/s) Oct. 25, 1971 (gage height, 22.41 ft or 6.831 m); minimum daily discharge, 35 ft^3/s (0.99 m^3/s) Sept. 12, 1966.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	550	350	730	2,180	1,940	1,830	8,580	1,020	4,800	290	711	500
2	450	360	3,500	1,530	1,560	1,590	7,840	1,190	4,980	270	631	580
3	400	400	2,480	1,180	1,690	1,480	7,100	1,310	4,110	250	540	400
4	350	430	1,500	1,060	1,990	1,360	6,380	1,330	2,740	230	481	300
5	310	380	1,140	1,630	4,580	1,780	5,310	1,880	1,920	220	450	240
6	310	400	861	1,840	6,620	1,850	4,180	1,460	1,360	280	440	220
7	377	360	713	1,910	7,220	1,350	2,840	1,110	924	400	558	300
8	314	410	3,640	2,450	6,620	1,070	1,850	940	743	241	1,620	800
9	313	340	8,060	3,670	6,180	1,200	1,250	843	573	726	1,930	1,300
10	292	340	6,690	4,490	5,680	1,160	1,470	793	470	2,480	747	800
11	308	360	4,650	5,160	5,090	1,100	1,460	964	580	2,740	652	500
12	309	400	2,230	10,400	4,470	1,290	1,320	1,060	510	4,600	592	450
13	281	420	1,580	10,000	3,670	3,000	1,340	864	490	4,580	580	700
14	321	450	1,160	12,000	2,600	9,050	1,260	767	520	12,100	523	940
15	369	380	949	11,500	1,660	12,300	1,290	706	460	13,300	484	600
16	345	370	1,000	10,800	1,380	11,800	2,370	1,780	440	14,200	410	400
17	315	390	1,970	9,440	1,690	12,000	2,600	3,410	440	14,300	400	350
18	302	400	2,090	8,950	2,140	12,100	2,030	2,630	520	13,900	430	330
19	386	450	1,540	8,420	2,260	11,900	1,790	5,320	450	13,200	400	1,000
20	450	700	1,210	8,040	2,270	12,900	1,570	4,810	400	11,300	900	4,370
21	542	877	1,150	8,550	2,120	12,600	1,240	2,740	360	10,700	1,600	4,190
22	484	998	1,350	7,750	1,790	11,100	1,080	1,660	330	10,300	850	3,240
23	373	649	1,340	6,470	1,530	10,700	1,000	1,140	360	9,540	450	3,600
24	320	470	1,090	5,370	1,690	10,400	932	938	320	9,130	420	6,720
25	350	440	974	5,570	3,160	10,400	919	965	280	8,250	640	8,070
26	371	400	993	7,760	3,950	10,200	837	1,090	260	7,950	520	7,600
27	368	420	1,110	7,550	3,120	9,700	979	992	250	6,930	400	7,000
28	374	400	1,250	6,310	2,360	9,260	948	919	320	5,140	300	6,400
29	386	360	3,170	5,430	------	8,860	957	922	270	2,030	320	5,600
30	337	330	3,510	4,530	------	8,620	1,100	1,640	320	1,040	230	5,000
31	400	------	2,910	3,080	------	9,020	------	4,880	------	742	300	------
TOTAL	11,357	13,434	66,540	185,020	91,030	212,970	73,822	52,073	30,500	181,359	19,509	72,500
MEAN	366	448	2,146	5,968	3,251	6,870	2,461	1,680	1,017	5,850	629	2,417
MAX	550	998	8,060	12,000	7,220	12,900	8,580	5,320	4,980	14,300	1,930	8,070
MIN	281	330	713	1,060	1,380	1,070	837	706	250	220	230	220
CFSM	.22	.26	1.26	3.51	1.91	4.04	1.45	.99	.60	3.44	.37	1.42
IN.	.25	.29	1.46	4.05	1.99	4.66	1.62	1.14	.67	3.97	.43	1.59

CAL YR 1974 TOTAL 634,483 MEAN 1,738 MAX 11,000 MIN 200 CFSM 1.02 IN 13.88
WTR YR 1975 TOTAL 1,010,114 MEAN 2,767 MAX 14,300 MIN 220 CFSM 1.63 IN 22.10

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

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

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

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

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

AVERAGE DISCHARGE.--47 years, 15.8 ft^3/s (0.447 m^3/s), 14.60 in/yr (371 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,600 ft^3/s (73.6 m^3/s) July 25 (gage height, 5.73 ft or 1.747 m); minimum, 4.3 ft^3/s (0.122 m^3/s) Sept. 4, 5, 6 (gage height, 0.37 ft or 0.113 m); minimum daily, 4.6 ft^3/s (0.130 m^3/s) Sept. 5.
Period of record: Maximum discharge, 6,300 ft^3/s (178 m^3/s) Sept. 24, 1947 (gage height, 10.87 ft or 3.313 m, from floodmark), from rating curve extended above 1,600 ft^3/s (45.3 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 0.7 ft^3/s (0.020 m^3/s) Sept. 22, 1941 (result of temporary regulation); minimum unregulated, 1.1 ft^3/s (0.031 m^3/s) Oct. 7, 1954, Sept. 26, 1968.

REMARKS.--Records good. Slight diurnal fluctuation at low flow during growing season.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	5.7	142	12	12	13	22	14	160	5.6	8.7	5.2
2	6.0	5.6	22	9.6	18	12	19	12	45	5.5	8.0	5.6
3	5.6	5.4	12	9.3	15	11	20	22	22	5.3	7.5	5.2
4	5.7	5.5	8.9	15	70	11	16	27	15	5.2	7.2	4.9
5	5.7	5.6	7.9	16	164	11	14	14	13	5.2	7.0	4.6
6	5.6	5.5	7.3	20	95	11	13	11	13	5.4	9.5	12
7	5.6	5.3	53	18	62	13	12	10	10	5.7	10	24
8	5.4	5.2	179	23	26	13	12	9.7	9.1	14	7.9	11
9	5.6	5.3	27	27	21	11	12	9.4	8.5	24	7.3	7.5
10	5.5	5.4	15	17	18	14	12	13	8.3	9.7	7.1	6.4
11	5.5	5.4	12	552	17	15	13	12	8.8	22	7.3	10
12	5.3	6.0	12	116	18	29	14	9.6	9.4	45	16	47
13	5.4	5.5	10	227	16	557	12	9.0	8.5	673	10	20
14	5.3	5.3	9.2	42	14	1,020	11	8.1	7.6	202	7.4	8.5
15	5.4	7.0	8.9	25	13	66	34	27	7.3	873	6.8	7.0
16	6.4	5.7	38	20	14	96	16	29	8.2	156	6.5	6.9
17	5.9	5.4	17	16	17	232	13	43	7.2	30	11	6.7
18	5.4	6.5	12	16	15	46	13	25	7.0	19	8.7	7.2
19	12	6.7	10	14	16	622	12	16	6.6	15	7.3	8.2
20	6.5	21	10	77	13	53	11	12	6.3	18	7.0	6.8
21	5.8	9.8	13	31	12	27	11	10	6.3	15	6.5	6.4
22	5.8	6.7	10	20	11	25	10	9.0	6.3	11	8.5	18
23	5.8	6.1	8.8	16	17	22	9.9	15	6.0	11	7.0	385
24	5.6	5.7	8.6	16	58	56	9.9	12	5.9	230	6.1	57
25	5.5	6.6	14	118	26	36	10	37	5.9	519	5.9	25
26	5.7	6.4	10	36	17	20	11	47	7.1	33	5.6	18
27	5.4	5.8	11	20	15	17	10	16	6.6	18	5.6	14
28	5.5	5.7	32	17	14	16	15	11	6.2	14	5.4	11
29	5.5	5.5	21	16	------	26	12	72	6.0	12	5.3	9.4
30	5.5	11	16	14	------	158	18	84	5.7	10	5.3	8.6
31	5.7	------	13	13	------	35	------	27	------	9.4	5.2	------
TOTAL	181.8	198.3	770.6	1,588.9	824	3,294	417.8	672.8	442.8	3,021.0	234.6	767.1
MEAN	5.86	6.61	24.9	51.3	29.4	106	13.9	21.7	14.8	97.5	7.57	25.6
MAX	12	21	179	552	164	1,020	34	84	160	873	16	385
MIN	5.3	5.2	7.3	9.3	11	11	9.9	8.1	5.7	5.2	5.2	4.6
CFSM	.40	.45	1.69	3.49	2.00	7.21	.95	1.48	1.01	6.63	.52	1.74
IN.	.46	.50	1.95	4.02	2.09	8.34	1.06	1.70	1.12	7.64	.59	1.94

CAL YR 1974 TOTAL 8,718.2 MEAN 23.9 MAX 861 MIN 3.5 CFSM 1.63 IN 22.06
WTR YR 1975 TOTAL 12,413.7 MEAN 34.0 MAX 1,020 MIN 4.6 CFSM 2.31 IN 31.41

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-13	0700	4.12	1,670	7-13	1200	4.92	2,170
3-14	0415	4.79	2,090	7-15	2115	5.68	2,570
3-17	0030	3.60	1,330	7-25	0200	5.73	2,600
3-19	0830	4.48	1,910	9-23	0230	3.93	1,550

02099500 Deep River near Randleman, N. C.

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

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

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

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

AVERAGE DISCHARGE.--47 years, 123 ft^3/s (3.483 m^3/s), 13.47 in/yr (342 mm/yr), unadjusted

EXTREMES.--Current year: Maximum discharge, 6,860 ft^3/s (194 m^3/s) Mar. 14 (gage height, 22.16 ft or 6.754 m); minimum daily, 16 ft^3/s (0.45 m^3/s) Sept. 4, 5.
Period of record: Maximum discharge, 20,000 ft^3/s (566 m^3/s) Sept. 25, 1947 (gage height, 32.2 ft or 9.81 m, from floodmark) from rating curve extended above 7,100 ft^3/s (201 m^3/s) on basis of contracted-opening measurement of peak flow at bridge 1.5 mi (2.4 km) upstream; minimum, 0.5 ft^3/s (0.014 m^3/s) Nov. 28, 1931 (gage height, 1.41 ft or 0.430 m); minimum daily, 1.2 ft^3/s (0.034 m^3/s) Nov. 12, 1933.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Some regulation by High Point Lake and Oak Hollow Reservoir (see p. 154). City of High Point diverted an average of 15.2 ft^3/s (0.43 m^3/s) for municipal water supply during water year; 11.7 ft^3/s (0.33 m^3/s) was discharged as sewage effluent into Richland Creek above station and 5.3 ft^3/s (0.15 m^3/s) into Rich Fork Creek in Pee Dee River basin.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	26	995	113	102	117	272	109	569	24	53	17
2	38	24	366	98	144	109	196	88	436	22	48	17
3	32	23	165	77	142	92	211	83	200	20	41	17
4	30	22	103	124	303	79	157	276	123	20	40	16
5	28	26	68	106	1,240	69	117	132	91	19	48	16
6	28	26	60	126	829	69	101	86	96	20	112	45
7	38	27	142	173	505	85	90	69	79	26	113	130
8	39	24	1,820	144	283	170	83	60	64	43	68	100
9	38	24	452	265	199	97	78	57	57	140	51	40
10	36	21	203	165	155	92	79	57	53	72	44	31
11	28	21	133	2,880	135	118	85	72	54	64	71	31
12	23	28	115	1,060	159	142	139	61	55	200	147	61
13	22	27	98	1,890	143	2,870	95	54	51	1,290	124	140
14	21	24	86	652	108	5,630	82	48	46	1,800	57	50
15	24	32	78	301	98	1,370	273	134	43	2,230	46	34
16	31	25	281	208	103	491	176	575	70	2,640	38	31
17	33	25	187	164	149	1,650	116	670	53	435	35	31
18	24	36	121	140	132	560	102	443	50	239	40	30
19	60	39	93	130	125	2,810	95	245	43	158	68	300
20	41	180	83	475	107	954	96	145	39	187	45	52
21	37	137	124	392	90	377	76	102	34	340	32	40
22	32	67	96	220	82	283	65	79	31	137	30	43
23	29	44	79	163	145	247	62	74	29	470	28	1,890
24	28	37	73	140	495	291	64	89	30	190	26	693
25	27	39	100	855	357	399	65	84	28	2,660	24	295
26	24	50	96	491	191	225	64	364	29	430	23	189
27	22	38	74	242	148	158	58	133	27	193	21	117
28	22	34	202	175	135	137	89	95	26	126	20	77
29	25	32	234	149	------	186	83	86	25	92	19	64
30	25	34	169	129	------	1,180	117	539	22	72	18	58
31	25	------	130	107	------	556	------	241	------	59	17	------
TOTAL	956	1,192	7,026	12,354	6,804	21,613	3,386	5,350	2,553	14,418	1,547	4,655
MEAN	30.8	39.7	227	399	243	697	113	173	85.1	465	49.9	155
MAX	60	180	1,820	2,880	1,240	5,630	273	670	569	2,660	147	1,890
MIN	21	21	60	77	82	69	58	48	22	19	17	16

CAL YR 1974 TOTAL 61,688 MEAN 169 MAX 3,060 MIN 16
WTR YR 1975 TOTAL 81,854 MEAN 224 MAX 5,630 MIN 16

PEAK DISCHARGE (BASE, 2,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 8	0630	14.18	3,010	7-13	1930	12.86	2,620
1-11	1100	18.53	4,660	7-14	2200	13.47	2,800
3-14	1500	22.16	6,860	7-16	0030	19.84	5,340
3-19	1300	17.91	4,360	7-25	0830	18.24	4,520

NOTE.--No gage-height record Aug. 19 to Sept. 23.

02100500 Deep River at Ramseur, N. C.

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

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

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

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

AVERAGE DISCHARGE.--52 years, (1923-75) 350 ft^3/s (9.912 m^3/s), 13.74 in/yr (349 mm/yr).

EXTREMES.--Current year: Maximum discharge, 21,100 ft^3/s (598 m^3/s) Mar. 14 (gage height, 24.72 ft or 7.535 m); minimum, 58 ft^3/s (1.64 m^3/s) July 5, 6, 7 (gage height, 0.92 ft or 0.280 m).
Period of record: Maximum discharge, 43,000 ft^3/s (1,218 m^3/s) Sept. 18, 1945 (gage height, 34.04 ft or 10.375 m, from floodmark), from rating curve extended above 18,000 ft^3/s (510 m^3/s) on basis of slope-area measurement of peak flow; minimum, 0.4 ft^3/s (0.011 m^3/s) May 27, Nov. 28, 29, 1941; minimum daily, 0.7 ft^3/s (0.020 m^3/s) Nov. 29, 1941.
Flood in August 1901 reached a stage of 28.75 ft (8.763 m), from floodmarks, 0.2 mi (0.3 km) upstream (discharge, 30,000 ft^3/s 850 m^3/s).

REMARKS.--Records good. Large diurnal fluctuation caused by powerplants above station prior to Jan. 1, 1963, only slight fluctuation afterwards. Flow slightly regulated by High Point Municipal Lake (see p. 154) and small powerplant reservoirs. Town of Asheboro diverted an average of 4.8 ft^3/s (0.14 m^3/s) for water supply from Pee Dee River basin and discharged an average of 4.7 ft^3/s (0.13 m^3/s) of sewage into the 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	77	2,130	295	292	350	711	267	1,710	71	163	74
2	105	79	904	262	327	343	519	235	1,010	67	153	73
3	97	79	385	218	430	288	545	208	575	64	144	71
4	90	77	246	306	720	257	456	654	335	61	134	70
5	86	77	187	342	3,770	238	350	373	243	60	122	67
6	81	76	155	312	2,380	225	305	243	209	60	120	67
7	77	74	160	580	1,200	227	284	197	198	61	930	484
8	77	74	5,090	447	709	377	268	176	163	145	277	392
9	77	72	1,430	1,010	511	286	255	162	143	2,150	179	149
10	79	70	540	516	413	244	250	162	138	536	185	115
11	79	72	350	9,770	362	301	255	180	138	230	229	114
12	79	76	288	3,080	366	298	332	168	153	313	217	221
13	77	80	265	6,620	390	6,950	288	159	163	1,830	419	500
14	76	80	224	2,300	312	15,500	298	141	138	6,960	186	217
15	74	80	201	897	270	5,390	578	253	127	7,710	150	131
16	71	82	521	603	271	1,230	565	1,560	168	7,650	140	115
17	64	82	488	468	386	3,310	305	2,510	153	1,330	126	112
18	74	84	312	389	404	1,390	276	3,010	129	744	117	112
19	111	90	243	358	452	6,810	266	1,260	168	497	255	1,610
20	171	206	218	1,320	389	2,920	252	505	143	460	329	681
21	101	409	316	1,360	298	1,030	225	344	109	1,080	145	233
22	90	184	282	636	261	778	207	266	97	447	129	213
23	86	124	224	465	529	844	196	223	90	5,100	116	5,530
24	82	99	201	399	1,560	781	192	235	86	1,110	106	2,680
25	82	95	246	3,340	1,340	1,130	189	212	82	3,420	105	1,260
26	81	111	331	1,830	579	617	183	542	79	950	116	785
27	77	111	230	737	423	452	172	335	77	413	107	461
28	76	95	469	505	409	389	164	319	76	288	95	312
29	76	88	761	420	------	415	190	209	77	231	86	243
30	77	86	469	375	------	2,090	213	1,760	74	193	80	218
31	77	------	350	319	------	1,640	------	764	------	230	75	------
TOTAL	2,677	3,089	18,216	40,479	19,753	57,100	9,289	17,632	7,051	44,461	5,735	17,310
MEAN	86.4	103	588	1,306	705	1,842	310	569	235	1,434	185	577
MAX	171	409	5,090	9,770	3,770	15,500	711	3,010	1,710	7,710	930	5,530
MIN	64	70	155	218	261	225	164	141	74	60	75	67
CFSM	.25	.30	1.70	3.77	2.04	5.32	.90	1.64	.68	4.14	.53	1.67
IN.	.29	.33	1.96	4.35	2.12	6.14	1.00	1.90	.76	4.78	.62	1.86

CAL YR 1974 TOTAL 150,671 MEAN 413 MAX 8,450 MIN 50 CFSM 1.19 IN 16.20
WTR YR 1975 TOTAL 242,792 MEAN 665 MAX 15,500 MIN 60 CFSM 1.92 IN 26.10

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 8	0830	12.41	7,340	7-15	0100	19.08	13,000
1-11	1130	21.02	15,000	7-16	0100	17.35	11,400
1-13	1330	14.85	9,260	7-23	1600	16.51	10,700
3-14	1600	24.72	21,100	9-23	1100	13.57	8,240
3-19	1830	14.54	9,010				

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

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

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

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

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

AVERAGE DISCHARGE.--17 years, 15.4 ft^3/s (0.436 m^3/s), 13.67 in/yr (347 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,120 ft^3/s (88.4 m^3/s) July 13 (gage height, 9.43 ft or 2.874 m); minimum, 0.11 ft^3/s (0.003 m^3/s) Sept. 1 (gage height, 1.82 ft or 0.555 m).
Period of record: Maximum discharge, 3,120 ft^3/s (88.4 m^3/s) July 13, 1975 (gage height, 9.43 ft or 2.874 m); no flow at times in most years.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	.42	32	9.0	13	9.3	24	5.2	67	.64	2.4	.14
2	.64	.42	9.5	8.0	29	11	18	5.3	22	.50	2.2	.24
3	.47	.42	5.2	7.0	21	8.5	28	4.5	11	.38	1.9	.22
4	.39	.42	3.6	20	102	7.5	17	7.7	7.0	.34	1.6	.17
5	.39	.44	2.8	12	190	7.2	13	5.7	5.2	.31	1.5	.17
6	.39	.47	2.5	10	48	6.6	11	4.4	4.2	.28	1.4	.16
7	.38	.44	4.1	11	27	7.8	10	3.7	4.2	.62	2.4	.52
8	.33	.44	152	10	19	14	9.4	3.4	3.2	5.6	2.0	.86
9	.31	.42	22	30	16	8.6	8.8	3.3	2.6	2.9	1.8	.48
10	.30	.42	10	20	13	8.7	8.6	3.3	2.4	2.2	1.2	.36
11	.29	.47	7.3	14	12	10	8.5	3.4	2.6	2.5	1.4	.87
12	.27	.79	6.4	32	12	9.4	8.8	3.0	3.2	8.5	1.2	4.9
13	.30	.92	5.0	400	11	243	7.4	2.7	3.4	750	.80	3.5
14	.43	.63	5.0	80	9.3	566	7.1	2.4	2.3	484	.70	1.3
15	.55	.67	4.4	50	8.7	88	37	40	2.8	440	.60	.75
16	.77	.67	23	30	11	42	16	175	8.6	221	.50	.55
17	1.3	.70	13	24	18	134	11	15	3.4	32	.50	.50
18	1.6	1.6	7.9	22	15	44	9.6	146	2.4	29	.50	2.5
19	2.5	2.5	6.3	20	15	373	8.4	39	1.9	18	.50	11
20	2.0	7.7	5.0	130	12	68	7.7	16	1.6	11	.52	4.0
21	1.3	3.1	14	50	9.7	32	6.5	9.9	1.3	5.5	.50	2.0
22	.75	2.4	11	34	9.6	25	6.1	6.9	1.3	6.5	.42	16
23	.63	1.6	10	20	9.3	23	5.8	5.4	1.2	5.7	.38	74
24	.53	1.4	7.0	300	25	27	5.7	4.8	.99	5.9	.35	316
25	.44	1.4	5.0	100	23	36	5.3	3.9	.89	6.2	.34	47
26	.42	1.6	10	40	14	18	4.9	3.7	.76	5.2	.33	30
27	.42	1.5	20	30	11	14	4.4	4.6	.69	4.2	.28	13
28	.42	1.3	30	20	10	13	4.8	4.7	.83	3.7	.23	8.0
29	.44	1.3	20	17	------	17	5.3	6.6	.93	3.1	.18	6.0
30	.42	1.2	15	15	------	53	5.5	56	.78	2.7	.14	5.4
31	.42	------	10	14	------	27	------	24	------	2.5	.15	------
TOTAL	21.20	39.76	484.0	1,579.0	712.6	1,951.9	323.6	622.5	170.67	2,063.97	28.92	550.59
MEAN	.68	1.33	15.6	50.9	25.5	63.0	10.8	20.1	5.69	66.6	.93	18.4
MAX	2.5	7.7	152	400	190	566	37	175	67	750	2.4	316
MIN	.27	.42	2.5	7.0	8.6	8.8	4.4	2.4	.69	.28	.14	.14
CFSM	.04	.09	1.02	3.33	1.67	4.12	.71	1.31	.37	4.35	.06	1.20
IN.	.05	.10	1.18	3.84	1.73	4.75	.79	1.51	.41	5.02	.07	1.34

CAL YR 1974 TOTAL 4,655.68 MEAN 12.8 MAX 300 MIN .27 CFSM .84 IN 11.32
WTR YR 1975 TOTAL 8,548.71 MEAN 23.4 MAX 750 MIN .14 CFSM 1.53 IN 20.79

PEAK DISCHARGE (BASE, 350 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-13	Unknown	6.70	1,160	5-18	1300	4.81	388
1-24	Unknown	Unknown	Unknown	7-13	1915	9.43	3,120
2- 4	2230	5.17	504	7-14	2245	5.46	606
3-14	1515	6.50	1,060	7-15	2230	6.65	1,140
3-19	1345	6.00	820	9-24	0600	5.90	780
5-16	0230	5.63	672				

Note.--No gage-height record Dec. 22 to Jan. 31.

02102000 Deep River at Moncure, N. C.

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

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

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

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

AVERAGE DISCHARGE.-45 years, 1,459 ft^3/s (41.32 m^3/s), 14.05 in/yr (357 mm/yr).

EXTREMES.--Current year: Maximum discharge, 33,100 ft^3/s (937 m^3/s) July 16 (gage height, 10.76 ft or 3.280 m); minimum, 144 ft^3/s (4.08 m^3/s) July 6 (gage height, 1.25 ft or 0.381 m).
Period of record: Maximum discharge, 80,300 ft^3/s (2,270 m^3/s) Sept. 18, 1945 (gage height, 17.20 ft or 5.243 m); minimum, 5.5 ft^3/s (0.16 m^3/s) Oct. 10, 1954 (gage height, 0.35 ft or 0.107 m).

REMARKS.--Records good. Diurnal fluctuation and some regulation at low flow caused by small powerplants above station.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	502	188	620	1,250	1,260	1,260	3,720	743	3,610	182	1,150	273
2	362	188	3,110	1,020	1,220	1,210	2,420	782	5,220	179	765	284
3	283	187	2,100	862	1,660	1,240	2,270	778	2,720	172	577	214
4	237	184	1,040	946	2,060	1,100	2,650	738	1,440	162	489	196
5	210	180	685	1,960	12,900	955	1,890	1,010	1,030	152	441	184
6	198	176	537	1,780	12,900	890	1,450	1,110	759	153	403	176
7	192	173	458	1,940	7,630	847	1,260	769	634	180	428	172
8	187	172	4,210	2,310	3,190	1,090	1,140	639	554	228	2,050	223
9	181	169	9,900	6,120	2,150	1,530	1,060	570	497	262	1,200	988
10	177	167	4,570	4,850	1,710	1,200	1,000	527	441	2,200	675	570
11	176	170	1,530	6,660	1,440	1,100	969	522	403	1,260	1,280	373
12	176	179	1,040	13,000	1,320	1,220	980	553	394	663	999	300
13	176	189	875	19,900	1,320	6,650	1,040	567	406	7,530	683	649
14	176	184	807	17,900	1,290	20,500	1,040	514	418	23,200	625	1,110
15	174	190	710	16,000	1,110	21,400	1,280	472	424	22,900	609	746
16	174	196	907	7,570	1,090	22,000	2,740	2,160	409	29,300	448	468
17	172	204	1,830	2,250	2,260	20,600	1,970	3,710	409	24,800	373	338
18	170	209	1,600	1,690	2,130	12,800	1,350	5,220	440	20,400	349	284
19	198	237	1,050	1,430	1,950	11,400	1,070	10,600	422	11,600	332	327
20	215	330	813	2,360	2,430	13,800	998	6,500	362	3,230	397	1,270
21	243	587	875	5,870	1,810	11,900	920	1,770	342	1,790	562	1,570
22	348	836	1,260	4,080	1,350	3,850	835	1,130	337	1,760	532	1,180
23	297	687	1,140	2,220	1,160	2,950	766	878	293	1,320	378	4,590
24	239	467	844	1,700	1,220	2,850	711	757	256	5,080	321	13,000
25	217	357	721	8,250	3,900	3,900	699	919	236	2,760	289	12,600
26	207	308	717	13,800	3,390	3,800	674	706	223	4,080	268	5,260
27	202	283	812	10,500	1,820	2,230	651	873	213	2,480	257	2,360
28	200	281	1,190	3,460	1,390	1,700	632	1,160	207	1,130	257	1,450
29	196	290	3,220	2,040	------	1,510	623	956	198	803	247	1,010
30	193	270	2,680	1,660	------	2,200	638	1,800	188	658	228	803
31	188	------	1,680	1,430	------	5,200	------	5,110	------	756	209	------
TOTAL	6,866	8,238	53,531	166,808	79,060	184,882	39,446	54,543	23,485	171,370	17,821	52,968
MEAN	221	275	1,727	5,381	2,824	5,964	1,315	1,759	783	5,528	575	1,766
MAX	502	836	9,900	19,900	12,900	22,000	3,720	10,600	5,220	29,300	2,050	13,000
MIN	170	167	458	862	1,090	847	623	472	188	152	209	172
CFSM	.16	.20	1.22	3.82	2.00	4.23	.93	1.25	.56	3.92	.41	1.25
IN.	.18	.22	1.41	4.40	2.09	4.88	1.04	1.44	.62	4.52	.47	1.40

CAL YR 1974 TOTAL 480,410 MEAN 1,316 MAX 12,100 MIN 111 CFSM .93 IN 12.67
WTR YR 1975 TOTAL 859,018 MEAN 2,353 MAX 29,300 MIN 152 CFSM 1.67 IN 22.66

PEAK DISCHARGE (BASE, 15,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-13	2000	9.33	24,000	7-16	0700	10.76	33,100
3-14	2300	9.75	26,500	9-24	1700	7.81	16,500
3-19	2200	7.66	15,900				

02102192 Buckhorn Creek near Corinth, N. C.

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

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

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

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

EXTREMES.--Current year: Maximum discharge, 2,300 ft^3/s (65.1 m^3/s) July 16 (gage height, 12.00 ft or 3.658 m); minimum, 3.4 ft^3/s (0.096 m^3/s) Aug. 31; minimum gage height, 1.44 ft or 0.439 m July 3, 4.
Period of record: Maximum discharge, 6,920 ft^3/s (196 m^3/s) Feb. 2, 1973 (gage height, 20.02 ft or 6.102 m); minimum, 1.0 ft^3/s (0.028 m^3/s) Oct. 18, 19, 1973.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	9.1	86	57	67	54	83	26	61	5.1	16	6.5
2	9.7	9.0	86	49	89	72	83	27	72	4.4	14	6.5
3	9.1	8.8	39	41	156	73	138	25	32	3.9	13	5.3
4	9.0	8.9	27	88	170	54	119	26	20	3.8	11	4.7
5	9.4	9.6	23	224	1,210	49	70	24	14	4.1	10	4.2
6	9.3	9.7	21	101	578	45	57	20	12	8.2	11	3.9
7	8.5	9.1	20	189	210	45	51	19	11	25	18	3.8
8	8.4	8.9	206	122	135	71	46	17	9.2	140	15	4.4
9	7.9	8.3	157	411	107	59	43	16	8.0	602	12	5.0
10	7.9	8.3	56	227	91	49	41	16	7.5	349	11	4.6
11	7.9	8.3	39	149	78	71	42	15	7.3	99	13	6.0
12	7.7	9.6	32	215	78	62	48	14	9.5	137	11	8.3
13	7.2	10	33	1,140	86	210	42	13	11	1,010	8.7	12
14	7.1	8.8	30	1,240	67	971	36	13	8.3	1,200	7.9	8.0
15	7.8	8.2	26	316	57	1,040	87	14	7.4	2,150	7.3	5.8
16	12	8.0	70	160	193	269	112	39	9.6	1,730	6.6	5.6
17	15	8.0	107	117	547	387	58	26	8.5	613	6.3	5.7
18	13	11	56	92	253	252	47	31	7.0	218	6.3	6.2
19	20	16	42	82	232	774	43	41	6.3	146	6.3	7.2
20	20	24	37	267	179	581	37	26	6.2	73	6.5	7.3
21	15	36	87	529	111	186	33	20	5.7	62	6.2	6.3
22	12	22	88	205	84	130	30	16	5.3	45	5.5	21
23	11	16	52	121	75	152	28	13	5.0	37	5.1	85
24	10	13	42	104	78	111	27	13	4.7	32	4.6	173
25	9.8	12	39	1,150	123	158	26	26	4.5	77	4.5	206
26	9.5	14	43	1,110	83	103	25	17	4.4	106	4.7	258
27	9.4	12	37	301	63	72	22	14	4.6	38	5.0	81
28	9.2	12	138	155	57	63	26	13	6.0	27	4.4	34
29	9.0	11	237	117	------	64	33	11	7.2	22	3.9	23
30	9.0	11	106	99	------	118	29	55	6.3	19	3.8	23
31	8.9	------	71	79	------	125	------	110	------	19	3.9	------
TOTAL	319.7	360.6	2,133	9,257	5,257	6,470	1,562	756	381.5	9,005.5	262.5	1,031.3
MEAN	10.3	12.0	68.8	299	188	209	52.1	24.4	12.7	291	8.47	34.4
MAX	20	36	237	1,240	1,210	1,040	138	110	72	2,150	18	258
MIN	7.1	8.0	20	41	57	45	22	11	4.4	3.8	3.8	3.8
CFSM	.14	.16	.93	4.03	2.53	2.82	.70	.33	.17	3.92	.11	.46
IN.	.16	.18	1.07	4.64	2.64	3.24	.78	.38	.19	4.51	.13	.52

CAL YR 1974 TOTAL 28,353.1 MEAN 77.7 MAX 890 MIN 3.5 CFSM 1.05 IN 14.21
WTR YR 1975 TOTAL 36,796.1 MEAN 101 MAX 2,150 MIN 3.8 CFSM 1.36 IN 18.45

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-13	2215	11.34	1,850	3-19	1315	7.26	985
1-25	2400	11.21	1,810	7- 9	0415	6.71	848
2- 5	1000	9.99	1,450	7-16	0200	12.00	2,300
3-14	2300	9.26	1,480				

02102500 Cape Fear River at Lillington, N. C.

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

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

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

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

AVERAGE DISCHARGE.--51 years (1924-75), 3,376 ft^3/s (95.61 m^3/s), 13.33 in/yr (339 mm/yr).

EXTREMES.--Current year: Maximum discharge, 47,500 ft^3/s (1,345 m^3/s) July 16 (gage height, 18.0 ft or 5.49 m); minimum, 313 ft^3/s (8.86 m^3/s) Nov. 10 (gage height, 1.16 ft or 0.354 m).
Period of record: Maximum discharge 150,000 ft^3/s (4,250 m^3/s) Sept. 19, 1945, (gage height, 33.19 ft or 10.116 m, from floodmark), from rating curve extended above 76,000 ft^3/s (2,150 m^3/s); maximum daily, 140,000 ft^3/s (3,960 m^3/s) Sept. 19, 1945; minimum discharge, 11 ft^3/s (0.31 m^3/s) Oct. 14, 15, 1954 (gage height, -0.17 ft or -0.052 m).

REMARKS.--Records good except those for period of no gage-height record, which are fair. Some regulation at high flows, beginning December 1972, caused by temporary storage in B. Everett Jordan Reservoir. Diurnal fluctuation and slight regulation at low flow caused by powerplants above station. Fluctuation and regulation by Buckhorn Reservoir 13 mi (21 km) above station ended in December 1962. Water quality records for the current year are published in Section 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,380	506	1,230	4,030	3,940	3,460	14,000	1,770	8,650	471	1,910	497
2	926	443	5,100	2,970	3,360	3,210	11,400	1,990	9,550	439	1,790	814
3	726	469	5,670	2,350	3,880	2,990	10,400	2,060	7,670	396	1,310	712
4	619	500	2,970	2,210	4,550	2,700	9,910	2,110	4,690	371	1,150	548
5	575	530	2,040	3,830	18,000	2,530	8,150	2,570	3,160	370	977	454
6	521	404	1,540	4,300	21,400	2,620	6,390	2,790	2,300	374	921	368
7	514	495	1,310	4,230	17,300	2,360	4,730	1,990	1,580	531	877	384
8	542	462	4,850	5,320	11,300	2,170	3,380	1,590	1,290	639	2,810	846
9	479	457	16,800	9,400	9,380	2,500	2,710	1,380	1,120	1,700	3,950	1,860
10	465	389	13,500	10,700	8,240	2,800	2,400	1,250	974	4,290	1,880	1,240
11	416	417	7,330	9,060	7,350	2,510	2,760	1,250	871	4,570	1,680	1,050
12	479	492	4,490	23,000	6,620	2,730	2,510	1,440	945	5,610	1,880	880
13	472	456	2,900	30,000	5,800	5,380	2,510	1,370	938	8,060	1,460	1,060
14	448	532	2,260	36,700	4,680	27,100	2,480	1,150	930	33,500	1,210	1,200
15	435	514	1,900	28,700	3,360	38,200	2,690	1,020	908	38,200	1,210	1,050
16	528	505	1,910	21,800	3,550	33,900	4,880	1,860	860	45,000	993	880
17	478	479	3,560	13,200	5,660	35,000	5,170	6,950	819	42,000	783	750
18	433	587	4,220	11,700	5,590	28,900	3,770	5,830	830	36,000	755	620
19	531	655	3,010	10,000	5,260	28,800	3,050	13,400	942	26,000	740	658
20	638	845	2,330	9,500	5,470	28,300	2,750	12,900	862	20,000	862	4,490
21	763	1,190	2,210	13,000	4,930	26,400	2,280	5,450	760	17,000	1,750	6,260
22	846	1,730	2,750	13,700	3,650	18,500	1,980	2,940	640	15,000	1,550	4,730
23	755	1,630	2,830	10,000	3,240	15,200	1,790	2,020	560	14,000	1,000	6,710
24	630	1,110	2,270	8,170	3,120	14,900	1,690	1,580	590	13,400	773	16,900
25	533	885	1,900	14,500	5,850	15,200	1,610	1,710	517	13,200	705	21,900
26	519	778	1,790	25,000	8,200	15,600	1,580	1,740	466	12,200	840	17,100
27	527	690	2,010	20,600	5,630	13,500	1,560	1,670	438	10,800	765	11,300
28	508	733	2,450	12,000	4,200	12,300	1,710	1,900	498	7,300	628	9,570
29	557	685	5,710	8,540	------	11,600	1,580	1,730	476	3,760	521	8,450
30	471	660	7,000	7,160	------	11,600	1,760	2,480	417	1,980	485	7,480
31	480	------	5,220	5,510	------	14,200	------	8,650	------	1,800	407	------
TOTAL	15,194	20,228	125,060	381,180	193,730	427,360	123,580	98,540	55,251	378,961	38,572	130,761
MEAN	587	674	4,034	12,300	6,919	13,790	4,119	3,179	1,842	12,220	1,244	4,359
MAX	1,380	1,730	16,800	36,700	21,400	38,200	14,000	13,400	9,550	45,000	3,950	21,900
MIN	416	389	1,230	2,210	3,120	2,170	1,560	1,020	417	370	407	368
CFSM	.17	.20	1.17	3.58	2.01	4.01	1.20	.92	.54	3.55	.36	1.27
IN.	.20	.22	1.35	4.12	2.09	4.62	1.34	1.07	.60	4.10	.42	1.41

CAL YR 1974 TOTAL 1,212,207 MEAN 3,321 MAX 22,000 MIN 260 CFSM .97 IN 13.11
WTR YR 1975 TOTAL 1,991,417 MEAN 5,456 MAX 45,000 MIN 368 CFSM 1.59 IN 21.54

PEAK DISCHARGE (BASE, 30,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-14	0800	16.27	39,500	7-16	Unknown	18.0	47,500
3-15	1100	16.46	40,400				

Note.--No gage-height record July 16-23.

02102908 Flat Creek near Inverness, N. C.

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

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

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

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

AVERAGE DISCHARGE.--7 years, 13.8 ft^3/s (0.391 m^3/s), 24.50 in/yr (622 mm/yr).

EXTREMES.--Current year: Maximum discharge, 131 ft^3/s (3.71 m^3/s) July 17 (gage height, 3.14 ft or 0.957 m); minimum, 6.1 ft^3/s (0.17 m^3/s) Aug. 30, 31, Sept. 6, 7 (gage height, 0.96 ft or 0.293 m).
Period of record: Maximum discharge, 394 ft^3/s (11.2 m^3/s) Apr. 1, 1973 (gage height, 7.30 ft or 2.225 m); minimum, 2.4 ft^3/s (0.068 m^3/s) Feb. 12, 1969 (gage height, 0.85 ft or 0.259 m) due to regulation from unknown source; minimum unregulated, 3.7 ft^3/s (0.10 m^3/s) many days in August, September and October 1968.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	9.1	37	12	15	16	19	17	22	8.1	10	14
2	10	8.9	18	11	18	22	17	18	14	7.5	9.5	9.6
3	9.5	8.8	13	11	18	16	26	14	12	7.5	9.2	8.4
4	9.5	8.8	12	17	22	16	18	16	11	9.7	12	7.8
5	9.5	8.8	11	16	44	15	16	13	10	13	9.2	7.5
6	9.3	9.3	11	13	20	15	15	12	9.5	8.7	12	7.2
7	9.2	9.0	13	15	17	15	15	11	9.0	9.0	27	7.8
8	8.9	8.9	37	14	16	20	15	12	8.8	8.4	14	8.6
9	9.1	8.9	18	23	16	15	14	11	8.8	8.1	11	7.8
10	9.1	8.9	13	14	15	17	14	11	9.3	11	10	7.5
11	9.0	8.9	13	19	15	18	16	11	11	10	11	7.8
12	8.9	11	13	22	16	16	17	10	11	9.5	9.4	9.5
13	8.9	9.9	12	57	15	34	15	10	9.6	20	8.8	16
14	8.9	9.2	12	34	14	33	14	10	8.7	24	8.4	9.2
15	9.0	9.5	12	17	14	24	35	11	8.3	23	8.1	8.3
16	11	9.2	19	16	31	18	20	16	11	33	7.8	8.5
17	11	9.1	13	15	44	26	16	13	9.6	58	7.8	8.9
18	9.6	19	12	14	21	19	15	31	9.8	36	9.1	9.1
19	13	18	11	14	49	41	15	16	12	28	8.6	11
20	12	31	14	25	34	22	14	13	9.8	13	9.5	10
21	10	23	17	24	20	18	13	11	8.9	12	8.4	8.7
22	9.8	12	13	16	18	18	13	10	8.7	11	7.8	33
23	9.7	11	12	15	18	19	13	15	8.1	12	7.5	59
24	9.5	11	11	20	20	20	13	27	8.1	15	9.7	25
25	9.4	11	11	58	22	27	13	12	8.1	42	14	47
26	9.3	13	11	31	17	18	13	11	7.8	27	8.9	38
27	9.4	11	11	18	16	16	12	11	8.4	13	8.1	18
28	9.3	10	20	17	16	16	13	10	11	11	7.5	14
29	9.2	10	16	16	------	17	13	18	9.2	10	7.5	14
30	9.1	10	13	16	------	25	22	43	8.3	9.9	7.2	17
31	9.2	------	12	15	------	20	------	28	------	12	7.5	------
TOTAL	298.8	346.2	461	625	601	632	484	472	301.8	520.4	306.5	458.2
MEAN	9.64	11.5	14.9	20.2	21.5	20.4	16.1	15.2	10.1	16.8	9.89	15.3
MAX	13	31	37	58	49	41	35	43	22	58	27	59
MIN	8.9	8.8	11	11	14	15	12	10	7.8	7.5	7.2	7.2
CFSM	1.26	1.50	1.95	2.64	2.81	2.67	2.10	1.99	1.32	2.20	1.29	2.00
IN.	1.45	1.68	2.24	3.04	2.92	3.07	2.35	2.30	1.47	2.53	1.49	2.23

CAL YR 1974 TOTAL 5,171.4 MEAN 14.2 MAX 55 MIN 7.8 CFSM 1.86 IN 25.15
WTR YR 1975 TOTAL 5,506.9 MEAN 15.1 MAX 59 MIN 7.2 CFSM 1.97 IN 26.78

PEAK DISCHARGE (BASE, 60 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-13	2000	2.49	89	7-17	0600	3.14	131
1-25	1600	2.35	80	7-18	1945	2.05	61
2-17	0330	2.18	70	7-25	0900	2.18	69
2-19	2230	2.13	67	9-23	0315	2.68	102

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

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

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

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

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

AVERAGE DISCHARGE.--38 years, 5,007 ft^3/s (141.8 m^3/s), 14.13 in/yr (359 mm/yr).

EXTREMES.--Current year: Maximum discharge, 46,500 ft^3/s (1,317 m^3/s) July 18; maximum gage height, 26.97 ft or 8.220 m July 18; minimum discharge, 740 ft^3/s (21.0 m^3/s) June 27 (gage height, 1.07 ft or 0.326 m) due to temporary regulation; minimum daily, 865 ft^3/s (24.5 m^3/s) July 4.
Period of record: Maximum discharge not determined; maximum gage height, 43.44 ft or 13.24 m Sept. 22, 1945; maximum daily discharge, 112,000 ft^3/s (3,170 m^3/s) Sept. 21, 1945; minimum discharge, 170 ft^3/s (4.81 m^3/s) Sept. 20, 1954; minimum daily, 208 ft^3/s (5.89 m^3/s) Sept. 13, 1954.

REMARKS.--Records excellent. Slight regulation at high flows, beginning December 1972, caused by storage in B. Everett Jordan Reservoir. Slight diurnal fluctuation and some regulation at short periods at low flow caused by powerplants above station. Water quality records for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,380	1,210	3,020	6,950	8,330	6,850	16,300	3,000	11,400	956	3,080	1,140
2	2,020	1,220	4,560	5,630	6,550	6,260	15,500	3,270	11,300	953	3,080	1,640
3	1,570	1,150	8,280	4,460	6,400	6,140	14,200	3,460	11,600	888	2,900	1,980
4	1,370	1,150	6,640	3,770	6,870	5,540	13,900	3,460	7,700	865	2,420	1,780
5	1,350	1,180	4,540	4,100	11,800	5,020	13,500	3,650	5,100	898	2,120	1,350
6	1,280	1,250	3,510	5,770	21,700	5,080	11,500	3,850	3,560	882	1,970	1,090
7	1,180	1,170	2,870	6,090	24,800	4,990	8,840	3,550	2,580	1,000	1,970	940
8	1,170	1,220	3,480	6,600	20,800	4,750	6,720	3,000	2,050	1,410	2,350	982
9	1,230	1,200	11,500	7,830	16,100	4,790	5,040	2,580	1,800	1,610	4,840	1,160
10	1,160	1,160	16,800	12,400	13,200	5,180	4,380	2,350	1,740	3,000	4,550	2,080
11	1,130	1,060	14,600	12,700	11,400	5,100	4,390	2,120	1,570	5,690	2,820	1,990
12	1,080	1,070	9,880	12,800	10,000	4,940	4,570	2,260	1,460	5,610	2,640	1,580
13	1,130	1,170	6,240	21,700	8,780	5,790	4,450	2,390	1,930	7,270	2,490	1,680
14	1,100	1,180	4,540	29,800	7,610	14,500	4,280	2,220	1,770	16,400	2,250	1,890
15	1,070	1,260	3,800	32,900	6,330	29,600	5,130	1,990	1,640	34,900	1,830	2,280
16	1,150	1,290	3,410	35,100	5,960	35,200	6,690	2,280	1,830	42,000	1,710	2,270
17	1,420	1,280	3,890	26,400	10,700	35,600	8,160	4,870	1,840	45,800	1,470	1,860
18	1,400	1,400	5,700	21,500	12,500	35,100	7,460	7,980	1,960	45,200	1,390	1,530
19	1,390	1,820	5,500	17,200	12,400	33,500	5,940	9,810	1,690	41,600	1,290	1,450
20	1,600	2,640	4,460	14,600	13,800	34,300	5,100	14,500	1,390	31,200	1,270	1,710
21	1,830	3,610	4,160	15,900	13,000	33,100	4,330	12,600	1,230	22,600	1,510	5,660
22	1,850	3,990	4,300	18,100	10,900	27,900	3,740	6,320	1,190	19,900	2,170	6,530
23	1,740	4,060	4,690	15,600	8,320	24,500	3,350	3,780	1,060	17,500	1,950	6,630
24	1,520	3,330	4,410	13,400	6,990	25,100	3,070	3,330	901	15,400	1,500	11,300
25	1,350	2,530	3,790	14,200	8,150	22,200	2,910	3,120	1,090	15,000	1,250	20,000
26	1,260	2,230	3,390	23,500	11,400	20,700	2,860	2,950	980	14,800	1,190	23,900
27	1,220	2,080	3,230	27,600	11,000	20,700	2,730	2,670	925	13,600	1,290	20,700
28	1,290	1,950	3,600	25,400	8,260	17,900	2,660	2,610	993	11,900	1,290	16,600
29	1,380	1,920	5,210	19,100	------	15,700	2,700	2,650	1,050	8,410	1,150	13,800
30	1,420	1,760	8,530	14,400	------	14,400	2,670	2,680	1,010	6,000	986	12,200
31	1,330	------	8,450	11,600	------	14,400	------	5,460	------	4,000	909	------
TOTAL	43,370	53,540	180,980	487,100	314,050	524,830	197,070	130,760	86,339	437,242	63,635	169,702
MEAN	1,399	1,785	5,838	15,710	11,220	16,930	6,569	4,218	2,878	14,100	2,053	5,657
MAX	2,380	4,060	16,800	35,100	24,800	35,600	16,300	14,500	11,600	45,800	4,840	23,900
MIN	1,070	1,060	2,870	3,770	5,960	4,750	2,660	1,990	901	865	909	940
CFSM	.29	.37	1.21	3.27	2.33	3.52	1.37	.88	.60	2.93	.43	1.18
IN.	.34	.41	1.40	3.77	2.43	4.06	1.52	1.01	.67	3.38	.49	1.31

CAL YR 1974 TOTAL 1,827,113 MEAN 5,006 MAX 23,500 MIN 865 CFSM 1.04 IN 14.13
WTR YR 1975 TOTAL 2,688,618 MEAN 7,366 MAX 45,800 MIN 865 CFSM 1.53 IN 20.79

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

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

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

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

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

AVERAGE DISCHARGE.--6 years, 6,388 ft^3/s (180.9 m^3/s), 16.62 in/yr (422 m/yr).

EXTREMES.--Current year: Maximum discharge, 51,500 ft^3/s (1.458 m^3/s) July 21 (gage height, 24.30 ft or 7.407 m); minimum, 948 ft^3/s (26.8 m^3/s) July 4 (gage height, 14.99 ft or 4.569 m).
Period of record: Maximum discharge, 56,300 ft^3/s (1,590 m^3/s) Feb. 8, 1973 (gage height, 24.77 ft or 7.550 m); minimum, 567 ft^3/s (16.1 m^3/s) Oct. 14, 1970 (gage height, 14.63 ft or 4.459 m).

REMARKS.--Records good. Slight regulation at high flow, beginning December 1972, caused by storage in B. Everett Jordan Reservoir. Slight diurnal fluctuation and some regulation for short periods at low flow caused by powerplants above station. The city of Wilmington diverted an average of 13.3 ft^3/s (0.38 m^3/s) for municipal water supply, most of which is returned as sewage below station. Water quality records for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,160	1,450	2,680	8,880	16,100	9,810	16,800	3,060	7,550	1,090	4,370	1,030
2	2,360	1,370	4,120	7,600	11,400	8,120	17,100	3,460	10,800	1,040	3,610	1,390
3	1,990	1,350	6,120	6,030	8,400	7,310	17,400	3,750	11,600	1,020	3,370	1,750
4	1,650	1,290	8,330	4,910	7,740	6,810	17,200	3,990	11,400	977	2,830	1,960
5	1,510	1,300	6,930	4,470	8,950	6,150	16,600	3,920	8,660	999	2,410	1,690
6	1,470	1,360	5,020	5,240	13,400	5,700	15,400	3,920	5,710	993	2,130	1,370
7	1,390	1,350	3,940	6,320	17,300	5,650	13,300	4,100	3,860	1,020	2,010	1,130
8	1,300	1,310	3,520	6,670	19,900	5,600	10,500	3,700	2,790	1,160	2,100	1,120
9	1,300	1,330	5,460	7,580	21,500	5,350	7,710	3,130	2,160	1,530	3,090	1,160
10	1,300	1,310	11,900	9,630	20,600	5,450	5,810	2,740	1,890	2,000	4,910	1,540
11	1,270	1,240	15,400	12,600	17,800	5,670	5,060	2,510	1,760	3,730	4,090	2,090
12	1,220	1,220	15,400	13,200	14,900	5,660	5,190	2,280	1,660	5,380	2,910	1,900
13	1,210	1,230	12,100	15,600	12,300	5,770	5,170	2,390	1,810	6,260	2,760	1,790
14	1,220	1,270	7,740	18,700	10,300	7,570	4,940	2,450	2,030	8,110	2,430	1,840
15	1,190	1,330	5,340	22,500	8,640	13,900	5,180	2,240	1,850	14,100	2,070	2,090
16	1,250	1,380	4,370	29,400	7,120	18,400	6,380	2,230	1,830	18,500	1,890	2,350
17	1,550	1,390	4,010	36,100	7,970	23,300	7,670	2,780	1,940	23,700	1,740	2,150
18	1,690	1,450	4,810	37,900	11,100	31,300	8,590	6,320	1,890	33,600	1,580	1,850
19	1,670	1,750	5,990	34,100	13,300	38,300	7,910	8,170	1,870	43,700	1,480	1,660
20	1,730	2,210	5,720	27,700	15,100	42,100	6,680	11,000	2,090	49,400	1,470	1,620
21	1,910	3,190	5,450	21,900	15,700	43,600	5,660	13,800	2,110	50,700	1,460	3,110
22	2,020	3,930	5,330	19,200	15,300	44,300	4,790	12,800	1,740	46,400	1,890	6,040
23	2,030	4,270	5,370	18,700	13,600	43,400	4,120	7,770	1,450	37,700	2,170	6,740
24	1,870	4,170	5,420	18,300	11,000	39,400	3,660	4,720	1,310	29,500	1,890	8,210
25	1,690	3,450	5,000	17,000	9,510	33,700	3,360	3,870	1,250	23,100	1,580	12,700
26	1,520	2,760	4,380	16,700	10,200	28,400	3,200	3,370	1,090	20,200	1,350	16,800
27	1,440	2,460	3,920	18,900	12,100	24,600	3,110	3,110	1,010	18,800	1,350	19,100
28	1,400	2,280	3,860	21,900	11,800	22,400	2,920	2,830	1,080	17,800	1,480	20,300
29	1,470	2,160	4,600	24,900	------	20,400	3,020	2,880	1,130	16,000	1,380	19,600
30	1,550	2,080	6,770	24,700	------	18,600	2,990	2,970	1,140	11,900	1,210	17,500
31	1,550	------	9,010	20,800	------	17,300	------	3,810	------	6,810	1,070	------
TOTAL	48,880	58,640	198,010	538,130	363,030	594,020	237,420	140,070	98,460	497,219	70,080	163,580
MEAN	1,577	1,955	6,387	17,360	12,970	19,160	7,914	4,518	3,282	16,040	2,261	5,453
MAX	2,360	4,270	15,400	37,900	21,500	44,300	17,400	13,800	11,600	50,700	4,910	20,300
MIN	1,190	1,220	2,680	4,470	7,120	5,350	2,920	2,230	1,010	977	1,070	1,030
CFSM	.30	.37	1.22	3.33	2.48	3.67	1.52	.87	.63	3.07	.43	1.04
IN.	.35	.42	1.41	3.83	2.59	4.23	1.69	1.00	.70	3.54	.50	1.17

CAL YR 1974 TOTAL 2,046,170 MEAN 5,606 MAX 20,500 MIN 1,040 CFSM 1.07 IN 14.58
WTR YR 1975 TOTAL 3,007,539 MEAN 8,240 MAX 50,700 MIN 977 CFSM 1.58 IN 21.43

02106000 Little Coharie Creek near Roseboro, N. C.

LOCATION.--Lat 34°57'13", long 78°29'17", Sampson County, on downstream end of center pier of bridge on State Highway 24, 1.2 mi (1.9 km) east of Roseboro, and 1.5 mi (2.4 km) upstream from Bearskin Swamp.

DRAINAGE AREA.--96.4 mi^2 (250 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 80.52 ft (24.542 m) above mean sea level (levels by Corps of Engineers). Prior to Jan. 12, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 116 ft^3/s (3.285 m^3/s), 16.34 in/yr (415 mm/yr).

EXTREMES.--Current year: Maximum discharge, 588 ft^3/s (16.7 m^3/s) Jan. 16 (gage height, 7.02 ft or 2.140 m); minimum, 8.0 ft^3/s (0.23 m^3/s) Aug. 17 (gage height, 1.50 ft or 0.457 m).
Period of record: Maximum discharge, 3,400 ft^3/s (96.3 m^3/s) Oct. 7, 1964 (gage height, 9.97 ft or 3.039 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Sept. 13, 14, 27, Oct. 1-11, 1954.
Flood in 1924 reached a stage of 11.6 ft (3.54 m), from information by North Carolina State Highway Commission.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	46	165	238	273	270	194	65	208	14	37	16
2	86	45	198	244	249	255	190	87	218	12	25	37
3	71	43	203	227	235	240	211	88	230	11	19	26
4	62	42	219	209	222	226	222	78	172	11	17	20
5	56	41	243	195	250	221	215	59	74	23	14	16
6	53	41	240	179	263	214	202	50	50	21	13	13
7	51	41	213	180	270	195	186	43	38	21	14	11
8	47	40	201	171	296	187	158	49	30	22	16	20
9	45	39	189	176	292	171	132	46	25	20	16	21
10	43	38	180	180	268	160	118	41	22	16	14	17
11	42	38	193	194	239	162	117	36	21	15	13	14
12	39	40	212	212	214	156	131	32	22	17	12	13
13	38	42	218	253	195	181	131	30	24	51	11	39
14	36	40	202	307	175	212	124	27	38	61	10	32
15	36	39	171	413	158	236	163	24	61	95	9.3	24
16	72	37	163	572	153	262	189	30	52	157	8.7	21
17	107	36	149	497	191	332	191	62	30	162	8.5	21
18	96	54	138	389	216	348	207	229	38	149	17	23
19	110	122	135	325	311	402	209	365	123	139	40	48
20	121	166	140	289	465	449	177	333	76	95	46	41
21	112	200	171	277	490	459	132	284	63	67	22	28
22	102	214	173	263	532	491	104	239	37	41	16	24
23	87	235	175	263	455	434	89	130	25	33	13	59
24	73	273	188	286	376	357	79	104	20	31	11	101
25	64	271	197	293	342	336	70	110	17	36	18	141
26	59	235	189	298	300	307	64	104	15	86	21	229
27	56	187	169	340	289	273	57	115	14	50	15	245
28	54	145	171	522	288	251	54	133	15	31	14	201
29	51	123	191	474	------	236	60	112	17	23	11	187
30	50	109	194	372	------	222	63	81	16	39	10	214
31	48	------	211	310	------	209	------	179	------	98	9.5	------
TOTAL	2,069	3,022	5,801	9,148	8,007	8,454	4,239	3,365	1,791	1,647	521.0	1,904
MEAN	66.7	101	187	295	286	273	141	109	59.7	53.1	16.8	63.5
MAX	121	273	243	572	532	491	222	365	230	162	46	245
MIN	36	36	135	171	153	156	54	24	14	11	8.5	11
CFSM	.69	1.05	1.94	3.06	2.97	2.83	1.46	1.13	.62	.55	.17	.66
IN.	.80	1.17	2.24	3.53	3.09	3.26	1.64	1.30	.69	.64	.20	.73

CAL YR 1974 TOTAL 48,906.0 MEAN 134 MAX 1,290 MIN 12 CFSM 1.39 IN 18.87
WTR YR 1975 TOTAL 49,968.0 MEAN 137 MAX 572 MIN 8.5 CFSM 1.42 IN 19.28

02106500 Black River near Tomahawk, N. C.

LOCATION.--Lat 34°45'17", long 78°17'21", Sampson County, on left bank 30 ft (9 m) upstream from bridge on State Highway 411, 0.2 mi (0.3 km) downstream from Clear Run Swamp, and 3.8 mi (6.1 km) northeast of Tomahawk.

DRAINAGE AREA.--680 mi^2 (1,760 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 24.61 ft (7.501 m) above mean sea level. Oct. 1, 1951, to June 29, 1961, nonrecording gage on downstream side of bridge. June 30, 1961, to Sept. 30, 1964, water-stage recorder at present site at datum 25.00 ft (7.620 m) lower.

AVERAGE DISCHARGE.--24 years, 797 ft^3/s (22.57 m^3/s), 15.92 in/yr (404 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,840 ft^3/s (80.4 m^3/s) Mar. 24 (gage height, 12.98 ft or 3.956 m); minimum, 80 ft^3/s (2.27 m^3/s) July 5, 6; minimum gage height, 1.48 ft or 0.451 m Aug. 17.
Period of record: Maximum discharge, 11,200 ft^3/s (317 m^3/s) Oct. 9, 1964 (gage height, 21.14 ft or 6.443 m); minimum, 8.5 ft^3/s (0.24 m^3/s) Oct. 13, 1954 (gage height, 0.59 ft or 0.180 m, present site and datum).
Flood in 1928 reached a stage of 22.0 ft (6.71 m), present datum (discharge, 14,500 ft^3/s or 411 m^3/s) and floods in 1945 and 1948 reached a stage of 17.6 ft (5.36 m), present datum (discharge, 5,420 ft^3/s or 153 m^3/s), from information furnished by North Carolina State Highway Commission.

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

REVISIONS (WATER YEARS).--WSP 1723: 1955(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	638	301	837	1,250	1,820	1,940	1,460	413	881	123	613	126
2	466	289	1,140	1,230	1,770	1,780	1,370	476	883	107	520	181
3	398	279	1,250	1,180	1,680	1,620	1,440	596	924	94	326	244
4	359	269	1,250	1,130	1,570	1,510	1,650	590	931	85	239	215
5	330	259	1,200	1,130	1,590	1,420	1,730	524	810	82	193	171
6	310	254	1,110	1,140	1,690	1,310	1,730	438	616	89	166	143
7	293	251	1,020	1,100	1,790	1,190	1,640	381	414	113	150	123
8	277	248	985	1,040	1,840	1,110	1,470	358	299	111	144	146
9	265	244	1,050	1,030	1,850	1,080	1,240	416	235	142	146	357
10	258	239	1,090	1,060	1,770	995	1,040	352	198	117	150	324
11	248	236	1,030	1,070	1,630	932	905	302	180	106	146	230
12	235	236	935	1,110	1,490	907	865	261	173	101	137	191
13	225	254	876	1,260	1,380	941	881	230	279	118	127	197
14	216	261	851	1,440	1,270	1,080	864	209	306	207	117	332
15	212	256	833	1,590	1,150	1,210	895	193	263	319	110	378
16	228	241	828	1,710	1,020	1,300	1,070	195	230	588	102	276
17	425	232	835	1,830	975	1,390	1,180	214	221	737	99	233
18	636	246	808	1,900	1,050	1,450	1,200	412	187	761	159	244
19	595	390	752	1,910	1,310	1,600	1,170	961	175	856	173	301
20	686	643	736	1,910	1,750	1,830	1,160	1,240	307	893	142	386
21	738	948	977	1,970	2,030	2,110	1,170	1,420	248	723	163	421
22	672	1,070	1,220	1,990	2,140	2,410	1,060	1,480	194	518	180	364
23	591	1,080	1,310	1,960	2,180	2,730	851	1,280	160	397	153	695
24	520	1,040	1,310	1,910	2,200	2,630	690	1,090	135	358	125	1,140
25	468	990	1,220	1,880	2,170	2,800	586	1,180	120	457	287	1,480
26	425	958	1,110	1,880	2,150	2,650	521	1,240	107	790	264	1,670
27	387	952	1,010	1,900	2,130	2,450	466	1,240	102	883	195	1,800
28	359	941	967	1,920	2,070	2,230	417	1,330	111	741	223	1,860
29	336	883	1,080	1,930	------	1,980	399	1,380	133	428	233	1,850
30	324	747	1,200	1,880	------	1,770	421	1,170	134	296	171	1,870
31	315	------	1,250	1,840	------	1,580	------	924	------	378	137	------
TOTAL	12,435	15,237	32,070	48,080	47,465	52,135	31,541	22,495	9,956	11,718	6,090	17,948
MEAN	401	508	1,035	1,551	1,695	1,682	1,051	726	332	378	196	598
MAX	738	1,080	1,310	1,990	2,200	2,830	1,730	1,480	931	893	613	1,870
MIN	212	232	736	1,030	975	907	399	193	102	82	99	123
CFSM	.59	.75	1.52	2.28	2.49	2.47	1.55	1.07	.49	.56	.29	.88
IN.	.68	.83	1.75	2.63	2.60	2.85	1.73	1.23	.54	.64	.33	.98

CAL YR 1974 TOTAL 363,804 MEAN 997 MAX 5,030 MIN 113 CFSM 1.47 IN 19.90
WTR YR 1975 TOTAL 307,170 MEAN 842 MAX 2,830 MIN 82 CFSM 1.24 IN 16.80

02107000 South River near Parkersburg, N. C.

LOCATION.--Lat 34°48'45", long 78°27'26", Bladen County, on right bank 5 ft (2 m) downstream from bridge on Secondary Road 1503, 1.9 mi (3.1 km) southwest of Parkersburg, and 2.1 mi (3.4 km) upstream from Cypress Creek.

DRAINAGE AREA.--382 mi^2 (989 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 50.38 ft (15.356 m) above mean sea level. Prior to Oct. 13, 1961, nonrecording gage at present site at datum 50.00 ft (15.240 m) lower.

AVERAGE DISCHARGE.--24 years, 432 ft^3/s (12.23 m^3/s), 15.36 in/yr (390 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,170 ft^3/s (61.4 m^3/s) Jan. 19 (gage height, 11.36 ft or 3.463 m); minimum, 11 ft^3/s (0.31 m^3/s) Sept. 7 (gage height, 2.73 ft or 0.832 m).
Period of record: Maximum discharge, 5,900 ft^3/s (167 m^3/s) Oct. 10, 1964 (gage height, 14.32 ft or 4.365 m); minimum, 0.1 ft^3/s (0.003 m^3/s) Oct. 3-6, 1 -14, 1954.
Flood of 1918 or 1928 reached a stage of 15.88 ft (4.84 m), present datum, from highwater mark witnessed by local resident.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	500	141	519	592	1,730	1,460	1,050	243	261	46	364	17
2	442	133	541	614	1,590	1,300	929	247	355	40	321	24
3	374	126	545	629	1,430	1,150	894	250	402	35	237	21
4	309	119	546	641	1,280	1,040	872	242	386	32	160	18
5	254	113	554	648	1,230	941	836	221	333	29	118	15
6	212	109	555	634	1,140	871	798	195	288	27	96	13
7	181	104	545	614	1,070	821	752	173	256	29	84	13
8	158	99	559	594	1,030	791	695	168	242	32	80	43
9	142	95	574	590	1,030	745	638	175	225	31	77	55
10	130	90	581	586	1,070	691	598	178	186	29	71	53
11	120	86	590	592	1,120	645	571	170	143	28	64	66
12	110	82	612	616	1,160	615	558	153	123	28	57	88
13	102	83	637	689	1,120	616	545	137	131	36	51	137
14	94	80	652	796	1,040	641	529	121	95	58	44	181
15	89	79	650	920	936	699	538	109	73	73	38	173
16	122	79	636	1,200	854	758	551	111	61	146	33	139
17	240	81	614	1,700	811	842	551	112	62	211	30	118
18	235	94	583	2,080	785	940	547	256	76	329	57	111
19	212	161	549	2,160	933	1,120	546	505	86	613	58	121
20	234	235	532	2,070	1,150	1,270	553	639	91	908	68	143
21	234	320	564	1,890	1,380	1,430	544	685	96	1,110	85	147
22	219	368	581	1,670	1,620	1,610	522	529	94	1,220	84	133
23	203	395	584	1,490	1,860	1,800	498	346	85	1,230	69	150
24	190	419	584	1,390	2,030	1,890	473	302	80	1,190	55	193
25	180	438	582	1,330	2,090	1,930	442	334	78	1,110	49	260
26	173	461	573	1,290	2,020	1,890	402	294	72	1,020	37	399
27	168	494	557	1,240	1,860	1,790	361	238	65	836	30	506
28	166	518	552	1,260	1,660	1,680	324	186	61	670	30	495
29	162	520	563	1,490	------	1,540	291	158	58	538	27	435
30	155	500	571	1,710	------	1,400	263	164	52	432	21	431
31	149	------	576	1,790	------	1,210	------	193	------	390	18	------
TOTAL	6,259	6,622	17,861	35,515	37,029	36,126	17,671	7,834	4,616	12,506	2,613	4,698
MEAN	202	221	576	1,146	1,322	1,165	589	253	154	403	84.3	157
MAX	500	520	652	2,160	2,090	1,930	1,050	685	402	1,230	364	506
MIN	89	79	519	586	785	615	263	109	52	27	18	13
CFSM	.53	.58	1.51	3.00	3.46	3.05	1.54	.66	.40	1.06	.22	.41
IN.	.61	.64	1.74	3.46	3.61	3.52	1.72	.76	.45	1.22	.25	.46

CAL YR 1974 TOTAL 184,624 MEAN 506 MAX 2,890 MIN 58 CFSM 1.32 IN 17.98
WTR YR 1975 TOTAL 189,350 MEAN 519 MAX 2,160 MIN 13 CFSM 1.36 IN 18.44

02107600 Northeast Cape Fear River near Seven Springs, N. C.

LOCATION.--Lat 35°10'20", long 77°55'56", Wayne County, on left bank at downstream side of bridge on Secondary Road 1948, at Wayne-Duplin County line, 4.5 mi (7.2 km) upstream from Buck Marsh Branch, and 6 mi (9.7 km) southwest of Seven Springs.

DRAINAGE AREA.--47.5 mi^2 (123 km^2).

PERIOD OF RECORD.--July 1958 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 89.93 ft (27.41 m) above mean sea level.

AVERAGE DISCHARGE.--17 years, 63.3 ft^3/s (1.793 m^3/s), 18.10 in/yr (460 mm/yr).

EXTREMES.--Current year: Maximum discharge, 434 ft^3/s (12.3 m^3/s) Mar. 20 (gage height, 6.94 ft or 2.115 m); minimum daily, 4.0 ft^3/s (0.11 m^3/s) Aug. 17.
Period of record: Maximum discharge, 2,740 ft^3/s (77.6 m^3/s) Oct. 6, 1964 (gage height, 9.59 ft or 2.923 m); minimum, 3.0 ft^3/s (0.085 m^3/s) Oct. 5, 1968 (gage height, 2.74 ft or 0.835 m).

REMARKS.--Records good. 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	23	107	68	66	80	66	53	90	9.0	7.3	21
2	16	22	180	65	62	85	62	44	50	8.0	6.5	40
3	16	22	163	59	70	90	80	31	30	6.4	5.9	61
4	15	21	106	56	80	70	107	28	20	6.6	6.1	24
5	15	20	75	62	100	60	91	24	16	6.2	5.2	12
6	15	19	60	63	155	56	66	21	13	7.0	5.0	8.2
7	15	19	53	59	132	54	53	18	11	8.0	5.9	6.8
8	14	18	65	58	102	56	46	20	9.9	9.0	7.1	13
9	14	18	88	65	83	60	42	23	8.8	11	6.5	12
10	13	18	88	71	71	50	41	20	8.3	12	5.1	11
11	13	18	71	78	63	45	44	18	8.4	12	5.8	13
12	12	19	59	91	59	44	54	17	9.6	12	5.2	17
13	12	19	54	160	56	54	56	16	13	14	5.0	34
14	12	22	51	245	52	83	49	16	12	17	4.7	29
15	12	21	49	202	48	109	100	15	11	25	4.5	20
16	18	17	49	143	49	99	152	20	9.1	31	4.2	21
17	39	17	51	108	67	87	105	35	7.9	43	4.0	22
18	43	30	48	91	79	105	65	50	7.8	92	4.4	20
19	41	49	45	78	100	225	55	100	9.1	71	6.1	35
20	49	98	48	90	200	389	48	150	8.8	33	15	45
21	51	155	71	110	170	229	41	300	7.9	20	22	35
22	37	146	95	115	140	152	37	170	6.9	15	15	26
23	29	90	91	100	110	125	35	85	6.3	13	8.9	30
24	26	61	75	93	100	111	32	55	5.7	15	6.7	60
25	24	50	65	120	110	110	29	130	5.4	22	6.0	150
26	22	46	57	130	120	105	27	270	5.6	20	6.6	156
27	21	43	53	140	100	86	25	160	5.9	17	6.7	130
28	21	39	79	105	90	69	31	100	8.8	14	11	110
29	24	36	114	90	------	64	44	60	10	11	14	95
30	24	33	112	80	------	67	45	100	10	8.8	9.9	110
31	23	------	76	70	------	70	------	150	------	7.8	6.5	------
TOTAL	703	1,209	2,398	3,065	2,634	3,089	1,728	2,299	426.2	596.8	232.8	1,367.0
MEAN	22.7	40.3	77.4	98.9	94.1	99.6	57.6	74.2	14.2	19.3	7.51	45.6
MAX	51	155	180	245	200	389	152	300	90	92	22	156
MIN	12	17	45	56	48	44	25	15	5.4	6.2	4.0	6.8
CFSM	.48	.85	1.63	2.08	1.98	2.10	1.21	1.56	.30	.41	.16	.96
IN.	.55	.95	1.88	2.40	2.06	2.42	1.35	1.80	.33	.47	.18	1.07

CAL YR 1974 TOTAL 21,969.1 MEAN 60.2 MAX 588 MIN 6.6 CFSM 1.27 IN 17.21
WTR YR 1975 TOTAL 19,747.8 MEAN 54.1 MAX 389 MIN 4.0 CFSM 1.14 IN 15.47

02108000 Northeast Cape Fear River near Chinquapin, N. C.

LOCATION.--Lat 34°49'45", long 77°49'57", Duplin County, on right bank 540 ft (165 m) downstream from bridge on State Highway 41, 0.5 mi (0.8 km) downstream from Muddy Creek, and 1.2 mi (1.9 km) west of Chinquapin.

DRAINAGE AREA.--600 mi^2 (1,550 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 17.28 ft (5.267 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--35 years, 733 ft^3/s (20.76 m^3/s), 16.59 in/yr (421 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,740 ft^3/s (77.6 m^3/s) Feb. 21 (gage height, 11.06 ft or 3.371 m); maximum gage height, 11.09 ft or 3.380 m Sept. 28; minimum discharge, 34 ft^3/s (0.96 m^3/s) July 5, 6; minimum gage height, 1.42 ft or 0.433 m Aug. 17.
Period of record: Maximum discharge, 20,400 ft^3/s (578 m^3/s) July 6, 1962 (gage height, 20.16 ft or 6.145 m); minimum, 5.3 ft^3/s (0.15 m^3/s) Oct. 10, 11, 1954.
Flood in 1908 reached a stage of 22.6 ft or 6.89 m at old bridge site 1,000 ft (305 m) upstream from gage. Flood in 1928 reached a stage of 0.8 ft (0.2 m) lower than that in 1908, from information by North Carolina State Highway Commission.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	225	162	832	1,280	1,260	1,470	828	455	1,030	61	306	75
2	198	164	1,320	1,220	1,110	1,210	825	524	941	53	189	349
3	161	157	1,580	1,120	1,020	1,050	1,050	593	680	45	140	507
4	143	147	1,570	1,030	964	949	1,490	607	462	39	125	325
5	131	135	1,510	997	1,370	874	1,620	601	356	35	118	213
6	122	127	1,400	963	1,800	809	1,490	555	279	35	126	162
7	114	122	1,190	919	1,980	749	1,320	484	207	36	95	133
8	106	121	1,010	869	2,000	712	1,110	488	146	50	81	125
9	101	120	929	907	1,910	674	923	475	112	86	78	144
10	96	126	867	960	1,700	622	786	374	93	70	77	167
11	91	121	812	1,090	1,440	587	678	278	84	57	72	153
12	88	126	771	1,470	1,200	575	646	224	83	60	66	142
13	84	133	747	1,830	1,020	596	637	189	91	70	61	226
14	80	143	714	2,200	891	682	618	167	150	113	56	299
15	76	141	665	2,440	795	747	719	157	174	285	52	274
16	78	136	638	2,420	743	789	928	205	129	448	48	219
17	85	131	633	2,310	861	858	1,020	234	98	557	45	236
18	106	138	609	2,120	974	990	1,020	279	82	600	69	269
19	147	191	574	1,910	1,530	1,360	1,010	429	78	674	67	424
20	194	358	576	1,720	2,330	1,830	1,170	533	77	694	61	570
21	237	570	925	1,770	2,710	2,110	1,410	594	68	659	57	502
22	273	648	1,330	1,870	2,600	2,260	1,330	647	64	518	60	448
23	298	660	1,540	1,870	2,310	2,400	1,030	607	58	680	60	838
24	299	662	1,540	1,850	2,000	2,470	810	614	50	1,130	61	1,430
25	285	686	1,470	1,860	1,850	2,390	640	578	45	1,180	79	1,890
26	264	704	1,300	1,910	1,780	2,120	507	606	42	1,050	159	2,170
27	232	690	1,090	1,950	1,750	1,800	409	642	39	816	174	2,440
28	200	646	986	1,900	1,660	1,510	355	629	44	661	196	2,610
29	173	572	1,130	1,780	------	1,250	380	462	51	481	141	2,380
30	155	492	1,270	1,620	------	1,040	421	334	61	351	93	2,360
31	154	------	1,300	1,440	------	897	------	835	------	323	76	------
TOTAL	4,996	9,323	32,828	49,595	43,558	38,402	27,180	14,399	5,874	11,917	3,088	22,080
MEAN	161	311	1,059	1,600	1,556	1,239	906	464	196	384	99.6	736
MAX	299	704	1,580	2,440	2,710	2,470	1,620	835	1,030	1,180	306	2,610
MIN	76	120	574	869	743	575	355	157	39	35	45	75
CFSM	.27	.52	1.77	2.67	2.59	2.07	1.51	.77	.33	.64	.17	1.23
IN.	.31	.58	2.04	3.07	2.70	2.38	1.69	.89	.36	.74	.19	1.37

CAL YR 1974 TOTAL 327,438 MEAN 897 MAX 4,780 MIN 75 CFSM 1.50 IN 20.30
WTR YR 1975 TOTAL 263,240 MEAN 721 MAX 2,710 MIN 35 CFSM 1.20 IN 16.32

02108500 Rockfish Creek near Wallace, N. C.

LOCATION.--Lat 34°44'32", long 78°02'22", Duplin County, on right bank at downstream side of bridge on State Highway 41, 1.5 mi (2.4 km) upstream from Doctors Creek, and 2.5 mi (4.0 km) west of Wallace.

DRAINAGE AREA.--63.8 mi^2 (165 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 29.36 ft (8.949 m) above mean sea level. Prior to Oct. 1, 1958 nonrecording gage at site 1.0 mi (1.6 km) downstream at different datum. Oct. 1, 1958, to June 1, 1960, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--20 years, 98.8 ft^3/s (2.798 m^3/s), 21.03 in/yr (534 mm/yr).

EXTREMES.--Current year: Maximum discharge, 804 ft^3/s (22.8 m^3/s) Feb. 19 (gage height, 8.88 ft or 2.707 m); minimum, 4.1 ft^3/s (0.12 m^3/s) Aug. 24; minimum gage height, 0.96 ft or 0.293 m Aug. 17, 24.
Period of record: Maximum discharge, 4,940 ft^3/s (140 m^3/s) Aug. 18, 1971 (gage height, 12.98 ft or 3.956 m); minimum daily, 0.4 ft^3/s (0.011 m^3/s) July 27-30, 1955.
Flood in 1948 reached a stage of about 15.5 ft (4.72 m) at former site and datum, from information by local resident (discharge, 2,800 ft^3/s or 79.3 m^3/s).
A discharge of 0.04 ft^3/s (0.001 m^3/s) was measured on Sept. 8, 1954.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	8.3	183	126	93	130	72	25	107	11	15	7.1
2	8.4	8.2	269	93	76	108	77	29	130	8.4	12	20
3	8.0	7.8	191	71	81	93	164	32	95	7.0	10	22
4	7.6	7.6	161	66	89	81	274	28	48	7.2	8.7	11
5	7.8	7.6	88	86	226	71	297	25	33	6.9	8.3	7.8
6	7.0	7.4	52	89	341	61	239	21	25	6.8	7.4	6.1
7	8.0	7.4	43	82	328	56	161	17	18	9.1	7.0	5.1
8	8.2	7.2	47	68	246	63	107	23	15	10	7.2	19
9	7.7	7.4	58	99	180	64	74	33	12	9.1	7.5	42
10	7.5	7.6	59	118	137	58	60	29	12	8.3	7.0	21
11	7.4	8.0	47	158	105	55	54	20	11	10	6.3	12
12	6.4	9.1	41	241	87	56	58	16	15	13	6.4	20
13	5.8	9.8	41	284	79	72	55	14	24	17	5.8	32
14	5.6	9.8	40	405	68	93	49	12	28	22	5.3	37
15	6.1	9.1	37	340	58	101	71	12	21	41	4.8	35
16	7.6	8.3	41	267	59	84	96	20	14	52	4.6	22
17	10	8.0	47	201	101	76	103	20	12	41	4.4	21
18	12	10	44	153	127	64	90	96	11	62	5.3	27
19	11	18	38	122	487	175	57	452	9.9	107	9.6	51
20	13	29	48	120	786	291	95	345	9.3	141	7.7	51
21	15	52	168	220	645	326	155	262	8.4	52	7.5	39
22	12	59	256	258	415	249	170	152	7.7	23	6.3	32
23	11	58	252	258	280	188	142	63	7.0	19	4.9	98
24	10	30	208	253	214	187	75	155	6.3	29	4.7	177
25	9.6	24	158	290	221	206	49	253	6.5	50	8.2	453
26	8.6	27	113	373	271	209	41	429	6.8	86	6.5	461
27	8.1	25	79	334	224	194	38	362	7.0	221	7.2	343
28	7.6	23	83	265	169	154	32	233	12	174	9.3	222
29	8.3	20	126	200	------	107	30	136	18	77	18	179
30	8.2	19	143	156	------	85	27	65	17	26	12	574
31	7.7	------	148	121	------	75	------	88	------	19	6.8	------
TOTAL	270.9	532.6	3,309	5,917	6,193	3,852	3,012	3,467	746.9	1,365.8	241.7	3,047.1
MEAN	8.74	17.8	107	191	221	124	100	112	24.9	44.1	7.80	102
MAX	15	59	269	405	786	326	297	452	130	221	18	574
MIN	5.6	7.2	37	66	58	55	27	12	6.3	6.8	4.4	5.1
CFSM	.14	.28	1.68	2.99	3.46	1.94	1.57	1.76	.39	.69	.12	1.60
IN.	.16	.31	1.93	3.45	3.61	2.25	1.76	2.02	.44	.80	.14	1.78

CAL YR 1974 TOTAL 39,730.7 MEAN 109 MAX 1,180 MIN 5.0 CFSM 1.71 IN 23.17
WTR YR 1975 TOTAL 31,955.0 MEAN 87.5 MAX 786 MIN 4.4 CFSM 1.37 IN 18.63

02109500 Waccamaw River at Freeland, N. C.

LOCATION.--Lat 34°05'43", long 78°32'56", Brunswick County, on left bank 150 ft (46 m) downstream from New Britton Bridge on State Highway 130, 1 mi (2 km) southwest of Freeland, 7 mi (11 km) downstream from Juniper Creek, and 117 mi (188 km) upstream from mouth in Winyah Bay.

DRAINAGE AREA.--706 mi^2 (1,829 km^2).

PERIOD OF RECORD.--July 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 15.52 ft (4.730 m) above mean sea level. Prior to July 15, 1943, nonrecording gage 150 ft (46 m) upstream at same datum. Auxiliary nonrecording gage 3.3 mi (5.3 km) downstream from base gage Oct. 7, 1949 to July 14, 1952. Since July 15, 1952 auxiliary water-stage recorder at same site and datum.

AVERAGE DISCHARGE.--36 years, 703 ft^3/s (19.91 m^3/s), 13.52 in/yr (343 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,160 ft^3/s (89.5 m^3/s) Feb. 27 (gage height, 14.22 ft or 4.334 m); minimum, 62 ft^3/s (1.76 m^3/s) Aug. 31, Sept. 1; minimum gage height, 2.40 ft or 0.732 m Sept. 1.
Period of record: Maximum discharge, 10,200 ft^3/s (289 m^3/s) Sept. 25, 1955; maximum gage height, 16.63 ft (5.069 m) Sept. 26, 1955; minimum discharge, 0.1 ft^3/s (0.003 m^3/s) Aug. 30, Sept. 9, 10, 28, Oct. 4-14, 1954.

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

REVISIONS.--WSP 1172: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	580	152	130	1,360	2,420	2,790	1,600	700	253	279	803	68
2	560	146	145	1,360	2,270	2,550	1,500	740	245	356	707	129
3	540	140	165	1,310	2,130	2,310	1,500	800	230	418	623	172
4	520	136	200	1,220	2,050	2,100	1,600	900	216	431	549	160
5	479	132	240	1,200	2,090	1,910	1,650	920	201	413	494	137
6	443	133	280	1,190	2,190	1,740	1,700	942	186	388	457	116
7	409	130	340	1,200	2,350	1,580	1,750	932	170	342	419	96
8	377	128	430	1,190	2,460	1,460	1,700	935	151	309	374	83
9	351	122	550	1,180	2,490	1,320	1,650	931	131	283	352	172
10	323	122	700	1,150	2,490	1,180	1,600	911	111	252	391	216
11	300	122	800	1,150	2,420	1,090	1,500	862	98	223	389	228
12	277	126	860	1,180	2,320	1,030	1,450	804	90	249	386	243
13	253	120	900	1,330	2,200	967	1,400	735	108	397	367	240
14	235	114	870	1,610	2,080	935	1,350	666	125	494	326	225
15	218	105	850	1,930	1,950	905	1,300	602	128	670	270	204
16	218	101	820	2,150	1,860	883	1,250	557	130	948	216	189
17	245	99	790	2,200	1,850	884	1,200	526	138	1,320	171	184
18	265	107	750	2,180	1,880	892	1,150	510	139	1,790	132	186
19	262	154	653	2,120	2,070	972	1,100	554	136	2,240	123	245
20	263	180	641	2,120	2,380	1,070	1,070	607	129	2,640	199	270
21	258	197	671	2,150	2,690	1,170	1,000	611	118	2,600	254	273
22	258	200	754	2,180	2,860	1,280	960	571	107	2,330	280	290
23	249	196	828	2,180	2,910	1,380	920	510	98	2,020	258	424
24	238	184	886	2,290	2,900	1,440	880	452	91	1,760	214	684
25	233	172	932	2,420	2,980	1,530	840	406	92	1,570	177	990
26	221	162	964	2,590	3,100	1,590	800	366	95	1,470	144	1,560
27	207	150	1,010	2,690	3,130	1,700	760	334	93	1,390	118	2,280
28	194	140	1,080	2,700	3,010	1,750	770	311	175	1,280	101	2,640
29	179	129	1,150	2,680	------	1,800	670	290	211	1,160	89	2,640
30	166	120	1,220	2,630	------	1,750	660	277	231	1,030	76	2,490
31	161	------	1,310	2,550	------	1,700	------	265	------	891	66	------
TOTAL	9,482	4,219	21,919	57,390	67,530	45,658	37,280	19,527	4,426	31,943	9,525	17,834
MEAN	306	141	707	1,851	2,412	1,473	1,243	630	148	1,030	307	594
MAX	580	200	1,310	2,700	3,130	2,790	1,750	942	253	2,640	803	2,640
MIN	161	99	130	1,150	1,850	883	660	265	90	223	66	68
CFSM	.43	.20	1.00	2.62	3.42	2.09	1.76	.89	.21	1.46	.43	.84
IN.	.50	.22	1.15	3.02	3.56	2.41	1.96	1.03	.23	1.68	.50	.94

CAL YR 1974 TOTAL 338,546 MEAN 928 MAX 5,000 MIN 99 CFSM 1.31 IN 17.84
WTR YR 1975 TOTAL 326,733 MEAN 895 MAX 3,130 MIN 66 CFSM 1.27 IN 17.22

Note.--No gage-height record March 27 to May 5.

02111000 Yadkin River at Patterson, N. C.

LOCATION.--Lat 35°59'29", long 81°33'30", Caldwell County, on left bank 200 ft (61 m) upstream from bridge on State Highway 268, 0.4 mi (0.6 km) upstream from Warrior Creek, 0.5 mi (0.8 km) south of Patterson, 2 mi (3 km) downstream from Walnut Branch, and at mile 416 (670 km).

DRAINAGE AREA.--29.0 mi^2 (75.1 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,211.47 ft (369.256 m) above mean sea level. Prior to Feb. 9, 1940 nonrecording gage at present site, at datum 1.00 ft (0.305 m) higher. Prior to Oct. 20, 1970 at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--36 years, 49.3 ft^3/s (1.396 m^3/s), 23.09 in/yr (586 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,390 ft^3/s (39.4 m^3/s) Mar. 14 (gage height, 5.31 ft or 1.618 m); minimum, 25 ft^3/s (0.71 m^3/s) Nov. 13, 14, 16, 17, 18, Sept. 4, 5, 14, 15, 16; minimum gage height, 1.10 ft (0.335 m) part of each day Nov. 7-11, 13, 14, 16-18, Sept. 4, 5, 14-16.
Period of record: Maximum discharge, 16,200 ft^3/s (459 m^3/s) Aug. 13, 1940 (gage height, 12.70 ft or 3.871 m, datum then in use), from rating curve extended above 1,400 ft^3/s (39.6 m^3/s) on basis of computation of peak flow over dam 1 mi (1.6 km) upstream at gage heights 4.58 ft (1.396 m), 6.60 ft (2.012 m), 7.70 ft (2.347 m), 12.70 ft (3.871 m); minimum observed, 3.0 ft^3/s (0.085 m^3/s) May 15, 1940.

REMARKS.--Records good.

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	29	50	35	46	61	130	49	491	50	41	33
2	32	29	37	33	48	57	110	49	210	49	39	28
3	32	29	35	34	45	52	103	53	188	48	38	28
4	32	28	33	39	53	49	88	58	130	48	36	26
5	32	30	33	34	71	47	81	47	109	52	50	26
6	31	28	32	34	80	45	76	44	104	52	56	27
7	31	28	34	34	90	48	73	44	86	52	42	48
8	31	27	56	35	73	47	70	43	76	49	40	34
9	31	27	54	35	66	42	67	46	71	45	37	29
10	30	27	43	37	59	46	66	57	98	43	36	28
11	29	27	39	95	57	47	65	53	135	55	36	34
12	29	32	38	79	62	67	62	54	382	51	33	32
13	29	26	37	121	57	204	59	49	197	44	33	29
14	29	27	37	84	53	742	58	45	132	86	37	26
15	31	27	40	66	49	264	59	73	107	62	40	25
16	59	25	64	58	61	161	56	160	95	51	46	25
17	36	25	52	52	67	126	55	244	87	47	33	34
18	32	38	46	49	67	105	54	324	86	44	32	134
19	32	35	42	47	65	196	54	181	80	47	37	62
20	31	64	40	52	59	140	51	116	74	63	40	46
21	30	40	39	46	55	112	50	91	70	52	35	37
22	30	32	37	43	52	100	49	80	68	43	32	40
23	30	30	35	41	59	89	49	76	64	61	31	105
24	30	29	36	42	176	178	49	67	61	195	36	226
25	30	29	38	95	132	164	53	62	60	87	31	89
26	29	28	34	79	92	116	49	59	58	71	29	63
27	30	27	33	64	76	99	46	57	62	57	30	52
28	29	27	41	58	67	90	46	64	56	51	45	45
29	29	26	38	54	------	90	45	57	54	46	31	42
30	29	34	36	51	------	379	46	173	52	43	29	39
31	29	------	36	48	------	182	------	192	------	44	31	------
TOTAL	978	910	1,245	1,674	1,937	4,145	1,919	2,767	3,543	1,788	1,142	1,492
MEAN	31.5	30.3	40.2	54.0	69.2	134	64.0	89.3	118	57.7	36.8	49.7
MAX	59	64	64	121	176	742	130	324	491	195	56	226
MIN	29	25	32	33	45	42	45	43	52	43	29	25
CFSM	1.09	1.04	1.39	1.86	2.39	4.62	2.21	3.08	4.07	1.99	1.27	1.71
IN.	1.25	1.17	1.60	2.15	2.48	5.32	2.46	3.55	4.54	2.29	1.46	1.91

CAL YR 1974 TOTAL 22,966 MEAN 62.9 MAX 524 MIN 25 CFSM 2.17 IN 29.46
WTR YR 1975 TOTAL 23,540 MEAN 64.5 MAX 742 MIN 25 CFSM 2.22 IN 30.20

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0830	5.31	1,390	5-31	2300	3.75	625
3-30	0300	3.88	672	6-12	0530	4.08	752
5-18	0800	3.20	460	7-23	2400		
5-28	2330	3.39	517				

02111180 Elk Creek at Elkville, N. C.

LOCATION.--Lat 36°04'16", long 81°24'13", Wilkes County, on left bank 700 ft (213 m) upstream from bridge on State Highway 268, in community of Elkville, and 3,400 ft (1,040 m) upstream from mouth.

DRAINAGE AREA.--50.9 mi^2 (131.8 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 1,082.40 ft (329.916 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 105 ft^3/s (2.974 m^3/s), 28.01 in/yr (711 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,790 ft^3/s (107 m^3/s) Mar. 14 (gage height, 5.65 ft or 1.722 m); minimum, 40 ft^3/s (1.13 m^3/s) Sept. 5 (gage height, 1.01 ft or 0.308 m).
Period of record: Maximum discharge, 8,660 ft^3/s (245 m^3/s) June 15, 1969 (gage height, 8.33 ft or 2.539 m), from rating curve extended above 2,400 ft^3/s (68.0 m^3/s) on basis of contracted-opening measurement at gage height, 7.28 ft (2.219 m); minimum, 16 ft^3/s (0.45 m^3/s) Oct. 3, 1968 (gage height, 0.83 ft or 0.253 m).
The flood of Aug. 13, 1940 reached a stage of about 22 ft or 6.7 m (discharge, about 70,000 ft^3/s or 1,980 m^3/s, on basis of several contracted-opening and slope-area measurements). A discharge of 6.0 ft^3/s (0.17 m^3/s) was measured Sept. 19, 1956.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	45	95	70	87	115	234	83	913	82	62	68
2	66	45	76	67	90	106	197	96	320	82	61	51
3	62	45	71	65	85	97	181	92	286	80	58	47
4	62	44	69	73	95	92	157	116	196	79	59	45
5	60	46	67	67	137	90	147	94	190	79	79	42
6	60	46	65	64	170	86	139	86	203	82	100	44
7	58	43	67	64	222	91	133	82	153	85	78	95
8	58	42	111	64	181	102	129	81	132	79	70	69
9	58	42	121	66	166	85	124	83	121	80	68	56
10	58	42	95	67	136	91	118	97	159	71	66	52
11	56	42	83	223	115	93	115	105	259	75	66	69
12	60	64	80	184	126	125	110	99	957	84	62	59
13	58	54	80	325	116	363	104	94	389	73	62	58
14	57	54	80	202	108	1,920	102	89	243	155	60	51
15	62	56	83	159	103	540	106	120	190	117	65	49
16	116	52	143	139	121	287	100	219	169	90	74	49
17	68	51	127	116	133	234	99	367	151	83	61	59
18	60	73	107	100	133	193	96	574	155	74	58	310
19	59	69	94	96	124	500	96	324	142	79	58	154
20	56	117	85	106	107	327	93	208	127	111	58	103
21	51	81	80	95	100	234	87	163	119	99	57	85
22	51	68	76	88	96	201	85	135	117	76	56	79
23	51	60	73	85	104	174	85	127	112	72	60	249
24	51	58	71	87	304	365	85	114	102	327	59	665
25	51	57	75	170	256	357	94	105	95	152	58	207
26	51	56	75	156	179	238	89	99	95	108	57	136
27	49	53	71	128	146	198	82	96	98	87	50	107
28	49	51	81	115	126	177	82	91	93	75	71	92
29	46	51	76	101	------	174	83	107	91	69	52	82
30	45	60	74	95	------	695	85	228	88	64	47	78
31	45	------	73	91	------	324	------	219	------	81	48	------
TOTAL	1,803	1,667	2,624	3,528	3,866	8,674	3,437	4,593	6,465	2,950	1,940	3,310
MEAN	58.2	55.6	84.6	114	138	280	115	148	216	95.2	62.6	110
MAX	116	117	143	325	304	1,920	234	574	957	327	100	665
MIN	45	42	65	64	85	85	82	81	88	64	47	42
CFSM	1.14	1.09	1.66	2.24	2.71	5.50	2.26	2.91	4.24	1.87	1.23	2.16
IN.	1.32	1.22	1.92	2.58	2.83	6.34	2.51	3.36	4.72	2.16	1.42	2.42

CAL YR 1974 TOTAL 47,123 MEAN 129 MAX 1,870 MIN 42 CFSM 2.53 IN 34.44
WTR YR 1975 TOTAL 44,857 MEAN 123 MAX 1,920 MIN 42 CFSM 2.42 IN 32.78

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0930	5.65	3,790	6- 1	0730	3.63	1,600
3-24	1730	2.54	738	6-12	0630	3.76	1,710
3-30	0615	3.00	1,090	7-24	0215	3.05	1,130
5-18	0945	2.65	815	9-24	0430	3.33	1,350
5-31	2345	3.68	1,640				

02111500 Reddies River at North Wilkesboro, N. C.

LOCATION.--Lat 36°10'29", long 81°10'09", Wilkes County, on left bank 400 ft (122 m) upstream from bridge on Secondary Road 1517, 1.2 mi (1.9 km) northwest of North Wilkesboro, 1.4 mi (2.3 km) upstream from North Wilkesboro municipal dam, and 2.3 mi (3.7 km) upstream from mouth.

DRAINAGE AREA.--93.9 mi^2 (243.2 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 978.62 ft (298.283 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 142 ft^3/s (4.021 m^3/s), 20.54 in/yr (522 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,120 ft^3/s (145 m^3/s) Mar. 14 (gage height, 10.67 ft or 3.252 m); minimum, 92 ft^3/s (2.61 m^3/s) Aug. 27, Sept. 5, 6; minimum gage height, 1.27 ft or 0.387 m Aug. 27.
Period of record: Maximum discharge, 27,000 ft^3/s (765 m^3/s) Aug. 14, 1940 (gage height, 22.02 ft or 6.712 m), from rating curve extended above 2,200 ft^3/s (62.3 m^3/s) on basis of computation of peak flow over dam; minimum, 22 ft^3/s (0.62 m^3/s) Aug. 17, 1954 (gage height, 0.63 ft or 0.192 m).

REMARKS.--Records good. Slight diurnal fluctuation at low flow during growing season.

REVISIONS (WATER YEARS).--WSP 1433: 1944.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	105	199	113	136	164	335	174	1,900	174	138	138
2	121	105	157	104	142	156	297	182	540	170	135	116
3	119	104	138	104	135	147	286	219	415	167	129	103
4	120	103	134	118	148	144	255	263	323	170	128	97
5	120	106	128	106	216	142	242	193	289	168	161	94
6	118	104	123	105	237	139	236	176	355	167	174	96
7	117	101	127	105	267	145	230	174	268	170	152	130
8	114	100	185	106	204	155	224	176	240	167	140	125
9	114	100	179	110	180	137	219	174	226	159	133	105
10	113	100	146	109	164	145	217	193	293	165	131	99
11	111	100	135	342	158	145	213	203	406	161	129	143
12	110	117	130	221	165	182	210	169	790	159	123	135
13	110	104	127	434	155	464	201	168	453	154	119	117
14	109	103	126	240	147	2,610	199	161	339	280	118	99
15	111	112	127	182	143	601	209	222	293	201	118	96
16	186	102	213	161	157	374	197	320	271	183	119	96
17	135	100	164	147	163	391	194	281	247	167	113	103
18	121	136	144	140	158	303	193	400	268	163	113	458
19	121	126	135	138	155	983	191	318	296	165	113	260
20	115	170	129	159	146	492	185	244	242	206	111	151
21	113	135	124	145	141	376	179	212	227	172	118	253
22	111	117	119	136	138	324	177	195	220	156	108	152
23	111	110	115	132	152	286	176	215	210	150	103	404
24	111	107	114	131	476	568	178	188	201	238	106	545
25	111	106	118	307	296	434	185	172	195	206	102	239
26	109	104	113	248	214	327	178	190	199	170	99	179
27	108	102	110	186	188	286	170	194	229	156	114	150
28	107	101	126	165	172	266	172	168	195	148	195	137
29	109	99	121	154	------	276	182	423	189	141	114	130
30	107	113	117	145	------	993	173	922	180	138	103	125
31	106	------	114	140	------	409	------	505	------	161	101	------
TOTAL	3,613	3,292	4,237	5,133	5,153	12,564	6,303	7,794	10,499	5,352	3,860	5,075
MEAN	117	110	137	166	184	405	210	251	350	173	125	169
MAX	186	170	213	434	476	2,610	335	922	1,900	280	195	545
MIN	106	99	110	104	135	137	170	161	180	138	99	94
CFSM	1.25	1.17	1.46	1.77	1.96	4.31	2.24	2.67	3.73	1.84	1.33	1.80
IN.	1.43	1.30	1.68	2.03	2.04	4.98	2.50	3.09	4.16	2.12	1.53	2.01

CAL YR 1974 TOTAL 71,035 MEAN 195 MAX 2,610 MIN 99 CFSM 2.08 IN 28.14
WTR YR 1975 TOTAL 72,875 MEAN 200 MAX 2,610 MIN 94 CFSM 2.13 IN 28.87

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	1030	10.67	5,120	6- 1	0430	8.53	3,370
3-30	0300	6.68	2,300				

02112000 Yadkin River at Wilkesboro, N. C.

LOCATION.--Lat 36°09'09", long 81°08'45", Wilkes County, on right bank 150 ft (46 m) upstream from bridge on U. S. Highway 421A between North Wilkesboro and Wilkesboro, 150 ft (46 m) downstream from Reddies River, 0.5 mi (0.8 km) northeast of Wilkesboro, and 382 mi (615 km) upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--493 mi^2 (1,277 km^2).

PERIOD OF RECORD.--April 1903 to June 1909, October 1920 to current year. Prior to October 1928, published as "at North Wilkesboro".

GAGE.--Water-stage recorder. Datum of gage is 942.35 ft (287.228 m) above mean sea level. Apr. 10, 1903 to June 30, 1909 and Oct. 17, 1920 to Apr. 10, 1929, nonrecording gage at site 1.2 mi (1.9 km) downstream at different datum. Apr. 11, 1929 to Jan. 9, 1930, nonrecording gage at present site and datum. Datum used 1920-29 was about 1.2 ft (0.366 m) lower than that used 1903-09.

AVERAGE DISCHARGE.--60 years (1903-8, 1920-75), 816 ft^3/s (23.11 m^3/s), 22.48 in/yr (571 mm/yr), adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 7,660 ft^3/s (217 m^3/s) Mar. 14 (gage height, 11.94 ft or 3.639 m); minimum, 380 ft^3/s (10.8 m^3/s) Mar. 24 (gage height, 2.16 ft or 0.658 m); minimum daily, 464 ft^3/s (13.1 m^3/s) Mar. 21.

Period of record: Maximum discharge, 160,000 ft^3/s (4,530 m^3/s) Aug. 14, 1940 (gage height, 37.6 ft or 11.46 m, from floodmarks), from rating curve extended above 20,000 ft^3/s (566 m^3/s) on basis of slope-area measurement of peak flow; minimum, 86 ft^3/s (2.44 m^3/s) Dec. 4, 1965; minimum daily, 110 ft^3/s (3.12 m^3/s) Sept. 18, 19, 1956.

Flood in July 1916 reached a stage of 34.5 ft or 10.52 m (present site and datum), from floodmark (discharge, 116,000 ft^3/s or 3,290 m^3/s from rating curve extended as explained above).

REMARKS.--Records good. Flow regulated by W. Kerr Scott Reservoir 5.5 mi (8.8 km) upstream since 1962 (see p. 152).

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	679	551	1,120	639	771	961	5,980	947	3,920	979	753	595
2	631	552	1,280	611	812	960	3,140	1,050	5,240	948	747	561
3	599	553	889	596	803	872	1,830	1,160	3,810	935	725	542
4	598	535	750	683	904	840	1,540	1,530	1,850	946	689	533
5	611	544	696	666	1,230	828	1,330	1,190	1,620	970	712	528
6	658	539	662	637	1,360	846	1,390	950	2,050	922	1,250	536
7	648	532	693	605	1,650	832	1,300	920	1,610	907	1,030	614
8	608	529	1,020	586	1,390	910	1,280	967	1,320	927	688	616
9	561	530	1,090	650	1,160	830	1,260	956	1,750	964	678	664
10	581	528	905	662	980	837	1,240	958	851	912	673	564
11	583	520	808	1,670	988	896	1,180	1,050	2,140	951	677	811
12	585	563	764	1,640	1,030	1,020	1,260	1,020	4,230	1,020	666	783
13	588	572	719	2,310	1,030	1,890	1,150	985	6,020	898	657	720
14	574	567	681	1,710	891	4,820	1,100	859	2,070	1,100	640	581
15	605	577	711	1,150	840	3,320	1,170	1,060	1,710	1,390	637	534
16	903	555	1,290	999	950	5,990	1,110	1,920	1,550	1,040	662	533
17	941	545	1,160	869	1,140	6,230	1,090	2,960	1,390	824	647	553
18	656	701	858	823	1,070	5,930	1,050	3,960	1,260	880	636	1,610
19	615	747	845	840	1,060	3,450	1,110	3,910	1,780	881	619	2,180
20	599	1,140	751	944	963	917	1,030	1,690	1,590	1,040	553	1,110
21	590	969	757	926	927	464	999	1,400	1,320	1,130	556	813
22	588	712	714	755	771	3,290	983	1,260	1,690	829	583	664
23	585	613	605	735	998	4,900	928	1,180	715	816	596	1,510
24	585	565	628	761	1,470	1,170	996	1,140	1,340	1,830	552	2,940
25	580	559	729	1,250	2,340	1,590	1,050	1,170	769	1,610	539	2,110
26	579	554	703	1,490	2,380	1,810	1,070	1,010	989	1,200	532	913
27	577	545	626	1,380	1,280	1,800	932	1,120	1,140	1,040	543	760
28	552	548	718	1,040	862	4,280	890	1,020	1,110	772	730	776
29	557	538	803	930	------	4,060	948	1,280	1,030	735	587	680
30	557	628	663	870	------	3,040	1,060	3,250	1,020	802	559	776
31	554	------	603	828	------	3,000	------	1,970	------	826	545	------
TOTAL	19,127	18,111	25,241	30,255	32,050	72,583	41,396	46,042	58,884	31,074	20,661	27,110
MEAN	617	604	814	976	1,145	2,341	1,380	1,485	1,963	1,002	666	904
MAX	941	1,140	1,290	2,310	2,380	6,230	5,980	3,960	6,020	1,830	1,250	2,940
MIN	552	520	603	586	771	464	890	859	715	735	532	528
(†)	-4	+7	-3	0	0	+161	-167	+16	-17	0	-2	+2
MEAN‡	613	611	811	976	1,145	2,502	1,213	1,501	1,946	1,002	664	906
CFSM‡	1.24	1.24	1.65	1.98	2.32	5.08	2.46	3.04	3.95	2.03	1.35	1.84
IN‡	1.43	1.38	1.90	2.28	2.42	5.86	2.74	3.50	4.41	2.34	1.56	2.05

CAL YR 1974 TOTAL 405,075 MEAN 1,110 MAX 6,680 MIN 520 MEAN‡ 1,108 CFSM‡ 2.25 IN‡ 30.50
WTR YR 1975 TOTAL 422,534 MEAN 1,158 MAX 6,230 MIN 464 MEAN‡ 1,158 CFSM‡ 2.35 IN‡ 31.87

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir; furnished by Corps of Engineers.

‡ Adjusted for change in W. Kerr Scott Reservoir.

02112120 Roaring River near Roaring River, N. C.

LOCATION.--Lat 36°14'59", long 81°02'41", Wilkes County, on left bank at downstream end of old bridge pier, 800 ft (244 m) upstream from bridge on Secondary Road 1990, 3.8 mi (6.1 km) northwest of village of Roaring River, and 4.1 mi (6.6 km) upstream from mouth.

DRAINAGE AREA.--122 mi^2 (316 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements water years, 1925, 1947, 1949-56, 1963. April 1964 to current year.

GAGE.--Water stage recorder. Datum of gage is 964.85 ft (294.086 m) above mean sea level. Prior to May 1, 1964, nonrecording gage on downstream side of bridge at same site and datum.

AVERAGE DISCHARGE.--11 years, 191 ft^3/s (5.409 m^3/s), 21.26 in/yr (540 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,610 ft^3/s (216 m^3/s) Sept. 21 (gage height, 12.57 ft or 3.831 m); minimum, 102 ft^3/s (2.89 m^3/s) Sept. 5 (gage height, 1.51 ft or 0.460 m).
Period of record: Maximum discharge, 13,200 ft^3/s (374 m^3/s) Sept. 21, 1971 (gage height, 17.32 ft or 5.279 m), from rating curve extended as explained below; minimum, 53 ft^3/s (1.50 m^3/s) July 7, 8, 1964.
Flood of 1916 reached a stage of about 28 ft or 8.5 m (estimated discharge, 37,000 ft^3/s or 1,050 m^3/s) and the flood of August 1940 about 24 ft or 7.3 m (estimated discharge, 26,000 ft^3/s or 736 m^3/s), from stage information by local residents and rating curve extended above 2,400 ft^3/s (68.0 m^3/s) on basis of slope-area measurements at gage heights 10.83 ft (3.301 m), 14.40 ft (4.389 m), the Aug. 14, 1940 peak (discharge, 29,200 ft^3/s or 827 m^3/s) at the Gordon Cotton Mill dam 2.4 mi (3.9 km) downstream, and step-backwater profile study. A discharge of 24.2 ft^3/s (0.69 m^3/s) was measured Sept. 18, 1956.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	119	310	137	171	204	421	184	2,300	232	153	239
2	131	117	211	128	177	195	369	193	613	215	147	128
3	129	117	166	129	168	182	365	256	476	209	143	117
4	130	117	159	148	185	176	316	427	369	211	141	110
5	131	118	147	134	272	173	296	252	341	205	161	106
6	129	116	140	133	295	170	283	216	495	205	216	110
7	127	113	146	132	322	176	274	207	326	213	180	153
8	124	112	236	133	254	185	265	203	281	222	157	149
9	125	112	210	139	229	164	256	206	258	197	148	122
10	124	112	169	136	209	176	250	273	301	186	145	116
11	122	112	155	405	201	179	243	249	440	184	143	158
12	121	123	149	270	210	224	240	209	1,220	185	135	165
13	122	116	145	482	195	540	227	199	586	182	130	140
14	121	117	142	291	184	3,850	224	183	418	305	129	117
15	122	128	143	231	178	806	235	265	355	235	143	113
16	174	115	254	205	193	500	218	448	318	214	135	114
17	140	114	193	186	202	584	213	308	293	199	125	119
18	128	154	168	176	196	426	209	387	310	209	121	439
19	132	144	158	171	190	1,280	206	333	328	237	125	406
20	124	192	151	208	177	606	199	275	273	229	132	198
21	123	155	146	191	171	462	190	241	260	229	120	1,850
22	122	130	141	176	165	407	185	221	252	192	117	255
23	122	123	138	169	182	361	185	391	244	190	119	390
24	122	121	138	166	471	672	185	267	232	197	131	449
25	122	121	140	382	353	555	195	210	225	194	117	277
26	120	119	134	314	267	416	200	197	225	188	112	215
27	119	116	132	241	236	361	190	193	436	171	110	181
28	119	116	155	214	214	332	190	180	271	164	166	161
29	128	114	147	199	------	349	190	283	250	158	115	152
30	121	134	141	185	------	1,460	190	686	277	153	110	148
31	119	------	137	176	------	531	------	421	------	169	115	------
TOTAL	3,912	3,717	5,101	6,387	6,267	16,702	7,209	8,563	12,973	6,279	4,241	7,397
MEAN	126	124	165	206	224	539	240	276	432	203	137	247
MAX	174	192	310	482	471	3,850	421	686	2,300	305	216	1,850
MIN	119	112	132	128	165	164	185	180	225	153	110	106
CFSM	1.03	1.02	1.35	1.69	1.84	4.42	1.97	2.26	3.54	1.66	1.12	2.02
IN.	1.19	1.13	1.56	1.95	1.91	5.09	2.20	2.61	3.96	1.91	1.29	2.26

CAL YR 1974 TOTAL 85,532 MEAN 234 MAX 3,670 MIN 112 CFSM 1.92 IN 26.08
WTR YR 1975 TOTAL 88,748 MEAN 243 MAX 3,850 MIN 106 CFSM 1.99 IN 27.06

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	1200	11.85	6,960	6- 1	0700	9.09	4,600
3-19	0700	5.93	2,350	6-12	0330	5.90	2,330
3-30	0400	7.53	3,430	9-21	0400	12.57	7,610

02112250 Yadkin River at Elkin, N. C.

LOCATION.--Lat 36°14'40", long 80°50'42", Yadkin County, on right bank at downstream side of bridge on U. S. Highway 21 at Elkin, 0.3 mi (0.5 km) downstream from Elkin River and 362 mi (582 km) upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--854 mi^2 (2,212 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 866.03 ft (263.966 m) above mean sea level. Prior to Aug. 28, 1964, nonrecording gage on upstream side of bridge at same datum.

AVERAGE DISCHARGE.--11 years, 1,423 ft^3/s (40.30 m^3/s), 22.63 in/yr (575 mm/yr) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 19,500 ft^3/s (552 m^3/s) Mar. 14 (gage height, 19.56 ft or 5.962 m); minimum daily, 780 ft^3/s (22.1 m^3/s) Nov. 11.
Period of record: Maximum discharge, 24,700 ft^3/s (700 m^3/s) Aug. 10, 1970 (gage height, 23.52 ft or 7.169 m); minimum, 338 ft^3/s (9.57 m^3/s) July 28, 29, 1966.
Flood of July 1916 reached a stage of 36.0 ft (10.97 m), from information by North Carolina State Highway Commission. Flood of August 1940 reached a stage of 37.5 ft (11.43 m). A discharge of 172 ft^3/s (4.87 m^3/s) was measured on Sept. 19,1956.

REMARKS.--Records good. Considerable regulation by W. Kerr Scott Reservoir. (See p. 152).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,040	820	1,730	930	1,170	1,370	6,840	1,480	7,610	1,550	1,140	1,040
2	950	830	1,840	910	1,170	1,400	5,130	1,420	6,480	1,370	1,060	972
3	915	830	1,390	885	1,200	1,340	2,650	1,600	5,500	1,330	1,080	850
4	905	800	1,160	955	1,200	1,230	2,560	2,750	2,900	1,350	1,030	817
5	915	810	1,060	980	1,740	1,250	2,060	1,980	2,350	1,340	1,070	796
6	930	810	995	930	2,150	1,230	2,090	1,500	3,270	1,350	1,580	820
7	965	800	990	925	2,480	1,240	2,050	1,420	2,610	1,340	1,720	922
8	925	800	1,440	890	2,170	1,310	1,930	1,470	2,080	1,350	1,120	1,030
9	880	800	1,630	955	1,670	1,250	1,930	1,450	1,880	1,310	1,050	922
10	880	800	1,270	955	1,520	1,210	1,860	1,450	2,060	1,280	1,030	918
11	895	780	1,150	2,470	1,320	1,300	1,800	1,610	2,580	1,310	1,030	1,020
12	895	810	1,090	2,470	1,440	1,380	1,820	1,530	6,870	1,410	1,010	1,270
13	895	830	1,040	3,550	1,460	3,380	1,760	1,460	7,020	1,260	985	1,170
14	880	830	995	2,720	1,350	16,400	1,630	1,390	4,010	1,440	962	964
15	885	830	970	1,860	1,220	5,550	1,710	1,420	2,650	1,720	960	837
16	1,020	830	1,750	1,440	1,280	7,140	1,650	3,050	2,290	1,660	969	820
17	1,370	830	1,680	1,340	1,550	7,690	1,590	3,510	2,130	1,230	948	825
18	1,030	1,090	1,270	1,220	1,500	6,940	1,530	4,720	1,940	1,230	928	1,650
19	930	1,140	1,160	1,220	1,490	9,480	1,580	5,180	2,400	1,310	1,000	3,580
20	900	1,670	1,090	1,330	1,350	2,900	1,540	3,110	2,260	1,270	945	1,920
21	885	1,400	1,050	1,460	1,340	1,840	1,470	2,100	2,070	1,720	877	3,320
22	875	1,010	1,040	1,200	1,170	2,620	1,420	1,870	1,790	1,240	860	1,270
23	875	950	940	1,130	1,270	6,700	1,430	2,040	1,910	1,200	892	1,740
24	865	820	910	1,120	2,740	3,080	1,410	1,870	1,600	1,580	881	3,340
25	865	820	960	1,740	3,110	3,420	1,500	1,830	1,800	2,420	843	3,360
26	860	837	1,020	2,210	3,190	2,740	1,550	1,550	1,500	1,550	819	1,630
27	846	814	925	2,040	2,150	2,590	1,460	1,630	1,600	1,530	812	1,170
28	837	810	1,000	1,540	1,380	3,570	1,330	1,600	1,700	1,210	1,060	1,220
29	841	801	1,110	1,340	------	5,870	1,380	1,900	1,700	1,100	917	1,070
30	832	828	1,040	1,270	------	9,720	1,510	5,610	1,700	1,120	845	1,120
31	832	------	925	1,230	------	3,300	------	3,310	------	1,250	826	------
TOTAL	28,418	26,830	36,620	45,215	46,780	120,440	60,170	68,810	88,260	43,330	31,249	42,383
MEAN	917	894	1,181	1,459	1,671	3,885	2,006	2,220	2,942	1,398	1,008	1,413
MAX	1,370	1,670	1,840	3,550	3,190	16,400	6,840	5,610	7,610	2,420	1,720	3,580
MIN	832	780	910	885	1,170	1,210	1,330	1,390	1,500	1,100	812	796
(†)	-4	+7	-3	0	0	+161	-167	+16	-17	0	-2	+2
MEAN‡	913	901	1,178	1,459	1,671	4,046	1,839	2,236	2,925	1,398	1,006	1,415
CFSM‡	1.07	1.06	1.38	1.71	1.96	4.74	2.15	2.62	3.42	1.64	1.18	1.66
IN‡	1.23	1.18	1.59	1.97	2.04	5.46	2.40	3.02	3.82	1.89	1.36	1.85

CAL YR 1974 TOTAL 607,200 MEAN 1,664 MAX 10,000 MIN 780 MEAN‡ 1,662 CFSM‡ 1.95 IN‡ 26.41
WTR YR 1975 TOTAL 638,505 MEAN 1,749 MAX 16,400 MIN 780 MEAN‡ 1,749 CFSM‡ 2.05 IN‡ 27.81

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir; furnished by Corps of Engineers.

‡ Adjusted for change in W. Kerr Scott Reservoir.

02112360 Mitchell River near State Road, N. C.

LOCATION.--Lat 36°18'58", long 80°48'36", Surry County, on right bank 18 ft (5 m) upstream from bridge on Secondary Road 1001, 1.8 mi (2.9 km) upstream from Grass Creek, and 3.3 mi (5.3 km) east of State Road.

DRAINAGE AREA.--80.4 mi^2 (208.2 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1952-58, 1963. April 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 927.12 ft (282.586 m) above mean sea level. Prior to Aug. 29, 1964, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--11 years, 129 ft^3/s (3.653 m^3/s), 21.79 in/yr (553 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,800 ft^3/s (108 m^3/s) Mar. 14 (gage height, 9.15 ft or 2.789 m); minimum, 68 ft^3/s (1.93 m^3/s) Nov. 5, 29 (gage height, 2.06 ft or 0.628 m).
Period of record: Maximum discharge, 6,450 ft^3/s (183 m^3/s) Aug. 30, 1964 (gage height, 14.85 ft or 4.526 m); minimum, 35 ft^3/s (0.99 m^3/s) Aug. 17, 19, 1967; minimum gage height, 1.73 ft (0.527 m) July 28, 29, 1966.
Maximum stage known since at least 1900, about 18 ft (5.49 m) in August 1940, from information by local resident (estimated discharge, 9,000 ft^3/s or 255 m^3/s). A discharge of 16.5 ft^3/s (0.47 m^3/s) was measured on Sept. 19, 1956.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	75	155	85	101	114	253	124	700	152	106	236
2	82	76	117	81	104	109	225	130	325	137	106	177
3	78	76	98	78	100	104	226	160	269	134	106	105
4	80	74	96	89	108	101	197	278	216	142	104	94
5	80	75	89	84	145	100	184	164	199	138	193	88
6	79	76	86	81	162	99	177	144	301	140	193	99
7	78	72	89	82	175	101	171	135	196	184	154	136
8	75	71	164	81	140	106	165	132	173	214	134	126
9	76	71	138	86	129	96	163	138	161	154	122	104
10	76	73	108	84	119	102	162	137	166	142	118	93
11	75	73	97	270	114	105	159	143	225	135	117	131
12	75	77	94	160	119	118	161	129	918	136	107	137
13	75	74	92	250	116	263	151	125	300	131	103	128
14	77	73	91	160	108	2,180	148	118	210	129	98	100
15	76	85	89	130	105	499	157	161	190	136	93	95
16	93	76	142	120	107	295	148	281	175	127	92	91
17	90	72	116	110	114	372	145	178	170	120	89	91
18	82	91	102	100	110	249	143	206	160	117	88	429
19	81	90	95	100	109	946	142	185	180	128	144	555
20	76	107	91	115	105	408	138	155	175	190	107	195
21	79	94	90	120	100	266	133	145	165	142	92	1,060
22	76	82	85	110	97	245	131	125	160	124	88	261
23	76	78	84	100	102	221	132	145	153	118	86	285
24	76	77	83	96	295	329	133	180	148	130	93	336
25	75	77	85	160	177	293	140	140	144	128	85	228
26	75	76	85	155	138	224	145	135	141	122	83	187
27	75	74	83	130	126	202	130	135	153	113	79	159
28	75	73	96	115	117	189	130	130	150	108	86	145
29	75	71	94	105	------	201	130	280	147	105	78	135
30	75	76	89	99	------	968	130	530	224	102	74	130
31	75	------	84	103	------	323	------	270	------	140	107	------
TOTAL	2,419	2,335	3,107	3,639	3,542	9,948	4,749	5,438	6,994	4,218	3,325	6,136
MEAN	78.0	77.8	100	117	127	321	158	175	233	136	107	205
MAX	93	107	164	270	295	2,180	253	530	918	214	193	1,060
MIN	75	71	83	78	97	96	130	118	141	102	74	88
CFSM	.97	.97	1.24	1.46	1.58	3.99	1.97	2.18	2.90	1.69	1.33	2.55
IN.	1.12	1.08	1.44	1.68	1.64	4.60	2.20	2.52	3.24	1.95	1.54	2.84

CAL YR 1974 TOTAL 53,483 MEAN 147 MAX 1,770 MIN 71 CFSM 1.83 IN 24.75
WTR YR 1975 TOTAL 55,850 MEAN 153 MAX 2,180 MIN 71 CFSM 1.90 IN 25.84

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0500	9.15	3,800	6-12	0300	6.25	2,220
3-19	0830	5.47	1,810	9-18	2330	6.19	2,200
3-30	0400	6.96	2,580	9-21	0700	7.75	3,050

GPO 904.961

02113000 Fisher River near Copeland, N. C.

LOCATION.--Lat 36°20'27", long 80°40'20", Surry County, on left bank 500 ft (152 m) upstream from bridge on State Highway 268, 1 mi (2 km) upstream from Cody Creek, and 2 mi (3 km) northwest of Copeland.

DRAINAGE AREA.--121 mi^2 (313 km^2).

PERIOD OF RECORD.--October 1931 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 913 ft or 278 m (by barometer). Prior to Sept. 5, 1936, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 181 ft^3/s (5.126 m^3/s), 20.31 in/yr (516 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,550 ft^3/s (185 m^3/s) Mar. 14 (gage height, 11.25 ft or 3.429 m); minimum, 74 ft^3/s (2.10 m^3/s) Aug. 31 (gage height, 2.19 ft or 0.668 m).
Period of record: Maximum discharge, 27,300 ft^3/s (773 m^3/s) Aug. 14, 1940 (gage height, 18.4 ft or 5.61 m, from floodmarks) from rating curve extended above 6,200 ft^3/s (176 m^3/s) on basis of slope-area measurement of peak flow; minimum, 14 ft^3/s (0.40 m^3/s) Aug. 28, 1956.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 822: Drainage area. WSP 1303: 1933(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	94	215	116	141	159	365	167	1,350	175	121	362
2	95	94	185	110	148	151	315	179	526	155	116	150
3	94	94	141	108	148	143	315	179	419	148	111	111
4	95	92	138	118	151	141	271	470	312	170	108	101
5	97	94	122	114	241	138	256	234	275	178	110	95
6	95	94	116	110	307	136	245	199	491	151	157	99
7	94	90	120	110	338	138	237	185	273	172	137	151
8	92	90	303	110	230	146	230	180	232	243	124	143
9	92	90	207	116	197	132	222	183	210	203	115	111
10	94	90	154	112	176	138	219	191	209	194	110	102
11	92	90	136	414	167	143	211	185	251	179	118	127
12	92	97	129	267	170	157	233	170	1,470	256	108	272
13	92	95	122	578	162	428	204	170	433	161	103	211
14	92	94	118	279	154	4,390	200	160	299	160	99	124
15	92	110	118	204	146	792	215	178	254	174	97	111
16	106	97	211	176	148	428	197	406	233	169	97	107
17	118	94	165	159	159	726	194	234	213	152	93	107
18	98	114	141	148	157	392	191	246	202	146	90	339
19	98	125	129	143	154	1,910	188	236	212	158	104	1,630
20	97	138	125	173	143	622	185	207	190	195	127	280
21	95	127	120	179	138	410	176	186	181	190	98	570
22	95	104	116	151	134	347	173	171	186	144	94	290
23	95	98	114	143	141	303	173	196	177	136	89	528
24	95	97	112	138	589	578	173	254	167	155	92	513
25	95	97	114	267	311	485	182	177	160	320	89	334
26	95	97	112	260	207	320	188	170	165	259	84	247
27	94	94	110	185	182	283	167	168	180	152	82	208
28	94	94	132	167	167	260	170	157	157	139	83	178
29	94	92	129	157	------	271	170	458	179	130	79	163
30	95	95	120	148	------	1,940	170	887	289	124	77	156
31	95	------	116	143	------	470	------	395	------	129	76	------
TOTAL	2,965	2,971	4,390	5,603	5,506	17,077	6,435	7,578	9,895	5,417	3,188	7,920
MEAN	95.6	99.0	142	181	197	551	215	244	330	175	103	264
MAX	118	138	303	578	589	4,390	365	887	1,470	320	157	1,630
MIN	92	90	110	108	134	132	167	157	157	124	76	95
CFSM	.79	.82	1.17	1.50	1.63	4.55	1.78	2.02	2.73	1.45	.85	2.18
IN.	.91	.91	1.35	1.72	1.69	5.25	1.98	2.33	3.04	1.67	.98	2.43

CAL YR 1974 TOTAL 75,249 MEAN 206 MAX 3,650 MIN 90 CFSM 1.70 IN 23.13
WTR YR 1975 TOTAL 78,945 MEAN 216 MAX 4,390 MIN 76 CFSM 1.79 IN 24.27

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	1100	11.25	6,550	6- 1	1230	6.26	2,300
3-19	1130	7.82	3,550	6-12	0700	8.20	3,850
3-30	0630	9.58	4,970	9-19	0300	9.26	4,700

02113850 Ararat River at Ararat, N. C.

LOCATION.--Lat 36°24'16", long 80°33'43", Surry County, on right bank at upstream side of bridge pier on Secondary Road 2019, at Ararat, and 300 ft (91 m) downstream from Flat Shoal Creek.

DRAINAGE AREA.--231 mi^2 (598 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 880.97 ft (268.520 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 303 ft^3/s (8.581 m^3/s), 17.81 in/yr (452 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,520 ft^3/s (185 m^3/s) Sept. 19 (gage height, 10.95 ft or 3.338 m); minimum, 126 ft^3/s (3.57 m^3/s) Aug. 31 (gage height, 1.06 ft or 0.323 m); minimum daily, 137 ft^3/s (3.88 m^3/s) Aug. 31.
Period of record: Maximum discharge, 10,800 ft^3/s (306 m^3/s) June 21, 1972 (gage height, 14.72 ft or 4.487 m); minimum, 20 ft^3/s (0.57 m^3/s) Aug. 17, 18, Oct. 7, 8, 1966 (gage height, 0.65 ft or 0.198 m); minimum daily, 56 ft^3/s (1.59 m^3/s) July 28, 1966.
Maximum stage known since at least 1904, 21.4 ft (6.52 m) June 14, 1947 (result of failure of dams upstream, discharge about 31,000 ft^3/s (878 m^3/s), from information by local residents.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	163	161	440	220	259	282	697	311	2,190	292	220	394
2	164	160	380	210	286	264	594	333	839	258	207	220
3	158	160	290	210	276	249	625	331	618	246	198	174
4	162	161	280	240	278	243	523	1,080	485	342	195	158
5	167	161	250	210	486	234	491	494	433	330	216	150
6	164	162	240	200	563	233	462	403	828	266	327	151
7	163	156	240	195	599	242	448	367	453	323	224	295
8	159	155	640	190	403	256	432	358	375	452	210	218
9	160	155	440	200	340	225	417	359	351	328	193	178
10	160	154	310	192	301	243	410	444	352	620	188	163
11	158	156	270	611	295	246	401	426	401	451	221	242
12	157	181	260	456	304	279	418	345	2,030	625	204	475
13	156	173	250	845	283	701	378	350	822	323	201	343
14	158	170	240	458	268	4,760	369	314	554	310	182	198
15	160	190	240	326	258	1,350	402	350	475	370	177	175
16	180	170	430	284	264	711	367	686	468	352	213	172
17	200	170	340	265	280	1,360	354	434	400	296	175	174
18	170	200	290	246	274	712	352	427	372	276	164	662
19	170	230	250	238	271	2,430	349	405	375	445	167	3,550
20	160	280	230	327	252	1,060	338	358	337	329	196	569
21	160	225	220	324	241	711	325	326	330	292	179	1,120
22	160	180	210	271	236	606	318	306	355	258	167	557
23	160	170	210	256	248	530	317	312	322	312	167	959
24	160	170	205	252	1,000	1,020	320	364	302	491	215	773
25	160	170	200	523	563	882	368	373	291	787	187	464
26	160	170	200	507	372	575	359	463	280	339	158	362
27	160	165	200	361	318	505	306	694	281	265	150	304
28	155	160	260	316	294	472	340	349	269	246	148	268
29	160	160	260	295	------	513	325	401	265	231	140	250
30	160	180	240	279	------	3,500	312	897	374	219	138	240
31	163	------	225	262	------	979	------	550	------	227	137	------
TOTAL	5,047	5,255	8,740	9,769	9,812	26,373	12,117	13,610	16,227	10,901	5,864	13,958
MEAN	163	175	282	315	350	851	404	439	541	352	189	465
MAX	200	280	640	845	1,000	4,760	697	1,080	2,190	787	327	3,550
MIN	155	154	200	190	236	225	306	306	265	219	137	150
CFSM	.71	.76	1.22	1.36	1.52	3.68	1.75	1.90	2.34	1.52	.82	2.01
IN.	.81	.85	1.41	1.57	1.58	4.25	1.95	2.19	2.61	1.76	.94	2.25

CAL YR 1974 TOTAL 134,998 MEAN 370 MAX 5,800 MIN 149 CFSM 1.60 IN 21.74
WTR YR 1975 TOTAL 137,673 MEAN 377 MAX 4,760 MIN 137 CFSM 1.63 IN 22.17

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	1500	10.84	6,420	6- 1	1000	6.78	3,560
3-19	1200	7.08	3,760	6-12	1000	7.37	3,960
3-30	0600	10.37	6,060	9-19	0700	10.95	6,520

NOTE.--No gage-height record Oct. 15-30, Nov. 14 to Jan. 6.

02114450 Little Yadkin River at Dalton, N. C.

LOCATION.--Lat 36°17'56", long 80°24'53", Stokes County, on left bank 1,200 ft (370 m) downstream from bridge on U. S. Highway 52, 1.0 mi (1.6 km) southwest of Dalton, 1.3 mi (2.1 km) downstream from Southern Railway bridge, and 2.0 mi (3.2 km) downstream from Danbury Creek.

DRAINAGE AREA.--42.8 mi^2 (110.9 km^2).

PERIOD OF RECORD.--August 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 813.7 ft (248.02 m) above mean sea level (North Carolina State Highway Commission bench mark).

AVERAGE DISCHARGE.--15 years, 47.7 ft^3/s (1.351 m^3/s), 15.13 in/yr (384 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,880 ft^3/s (251 m^3/s) Mar. 30 (gage height, 19.60 ft or 5.974 m); minimum, 12 ft^3/s (0.34 m^3/s) Aug. 29, 30, 31 (gage height, 0.52 ft or 0.158 m).
Period of record: Maximum discharge, 8,290 ft^3/s (235 m^3/s) June 21, 1972 (gage height, 18.81 or 5.733 m), from rating curve extended above 2,700 ft^3/s (76.5 m^3/s) on basis of slope-area measurement at gage height, 17.86 ft (5.444 m); minimum, 1.4 ft^3/s (0.40 m^3/s) July 29, 1966.

REMARKS.--Records good.

REVISIONS.--WSP 2104: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	23	207	37	42	42	100	39	553	23	20	17
2	23	22	78	34	44	40	79	40	79	22	19	19
3	23	22	44	33	41	37	66	40	51	21	18	15
4	24	22	37	42	47	37	64	79	42	24	17	14
5	24	23	32	36	91	36	59	47	39	25	19	13
6	24	23	30	38	165	36	55	40	52	23	31	42
7	23	22	43	39	190	37	53	39	37	24	25	96
8	22	22	309	41	83	37	51	38	33	163	22	35
9	23	22	72	55	66	34	49	39	32	34	21	23
10	23	22	48	45	56	38	48	37	32	30	20	20
11	22	22	40	542	52	39	47	36	35	28	20	23
12	22	26	37	166	56	45	47	35	61	31	21	83
13	22	24	34	422	50	575	45	34	43	31	23	45
14	22	23	32	102	46	1,540	44	32	34	35	19	25
15	23	31	32	65	44	171	51	38	31	186	19	22
16	28	24	65	53	46	96	45	55	31	118	21	21
17	26	23	47	46	48	226	43	38	29	51	18	21
18	23	30	39	43	47	92	43	38	28	40	17	45
19	24	29	36	41	46	467	44	36	29	33	19	68
20	24	52	34	71	43	125	42	34	29	28	18	35
21	23	36	34	69	41	82	40	32	27	26	17	26
22	23	26	32	51	40	71	39	31	27	24	16	50
23	23	24	31	45	43	62	39	44	27	49	17	187
24	23	23	31	42	114	149	39	36	26	61	16	139
25	23	24	32	249	79	113	41	80	25	62	15	49
26	23	24	30	108	54	72	40	84	25	30	14	36
27	23	23	32	63	47	63	37	56	30	28	14	30
28	23	23	61	52	44	58	41	37	26	23	13	27
29	23	22	54	47	------	66	39	34	25	20	12	25
30	23	25	43	44	------	3,100	40	105	24	20	12	25
31	23	------	38	42	------	170	------	48	------	20	13	------
TOTAL	721	757	1,714	2,763	1,765	7,756	1,470	1,401	1,562	1,333	566	1,276
MEAN	23.3	25.2	55.3	89.1	63.0	250	49.0	45.2	52.1	43.0	18.3	42.5
MAX	28	52	309	542	190	3,100	100	105	553	186	31	187
MIN	22	22	30	33	40	34	37	31	24	20	12	13
CFSM	.54	.59	1.29	2.08	1.47	5.84	1.14	1.06	1.22	1.00	.43	.99
IN.	.63	.66	1.49	2.40	1.53	6.74	1.28	1.22	1.36	1.16	.49	1.11

CAL YR 1974 TOTAL 23,912 MEAN 65.5 MAX 1,240 MIN 17 CFSM 1.53 IN 20.78
WTR YR 1975 TOTAL 23,084 MEAN 63.2 MAX 3,100 MIN 12 CFSM 1.48 IN 20.06

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0600	9.70	3,460	6- 1	0730	7.93	2,720
3-30	0730	19.60	8,880				

02115360 Yadkin River at Enon, N. C.

LOCATION.--Lat 36°07'55", long 80°26'39", Forsyth County, on left bank 100 ft (30 m) upstream from bridge on Secondary Road 1525, 1.5 mi (2.4 km) east of Enon, 4 mi (6.4 km) upstream from Forbush Creek, and 324 mi (521 km) upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--1,680 mi^2 (4,350 km^2), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 701.71 ft (213.881 m) above mean sea level, unadjusted. Prior to Nov. 6, 1968, nonrecording gage on downstream side of bridge at same site and datum.

AVERAGE DISCHARGE.--11 years, 2,573 ft^3/s (72.87 m^3/s), 20.80 in/yr (528 mm/yr) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 45,200 ft^3/s (1,280 m^3/s) Mar. 30 (gage height, 24.54 ft or 7.480 m); minimum, 1,460 ft^3/s (41.3 m^3/s) Nov. 11 (gage height, 3.75 ft or 1.143 m); minimum daily, 1,480 ft^3/s (41.9 m^3/s) Nov. 8-11.
Period of record: Maximum discharge, 73,300 ft^3/s (2,080 m^3/s) June 21, 1972 (gage height, 27.83 ft or 8.483 m); minimum observed 625 ft^3/s (17.7 m^3/s) Aug. 17, 1967; minimum gage height observed, 2.29 ft (0.698 m) July 28, 1966.
Flood of Aug. 15, 1940 reached a stage of 737.5 ft (224.79 m) msl (35.8 ft or 10.91 m, gage datum), from information by Corps of Engineers.

REMARKS.--Records good. Some regulation by W. Kerr Scott Reservoir. (See p. 152).

REVISIONS (WATER YEARS).--WRD N. C. 1972: 1970(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,790	1,540	3,300	1,800	2,270	2,600	7,990	2,660	12,300	2,810	2,180	2,030
2	1,690	1,550	3,710	1,770	2,200	2,570	8,440	2,580	9,910	2,460	2,010	2,200
3	1,630	1,540	2,620	1,700	2,280	2,470	5,390	2,650	8,170	2,370	1,930	1,780
4	1,620	1,540	2,240	1,780	2,270	2,280	4,440	4,980	5,770	2,310	1,900	1,600
5	1,630	1,520	2,060	1,870	3,060	2,220	3,750	4,020	3,900	2,600	1,890	1,550
6	1,630	1,550	1,890	1,790	4,580	2,210	3,510	3,080	5,150	2,400	2,830	1,580
7	1,640	1,510	1,830	1,800	6,050	2,230	3,490	2,700	4,440	2,440	2,910	2,210
8	1,620	1,480	4,110	1,760	4,360	2,320	3,350	2,650	3,450	3,040	2,400	2,250
9	1,600	1,480	3,430	1,910	3,430	2,260	3,290	2,660	3,050	2,590	1,980	1,860
10	1,560	1,480	2,710	1,890	3,000	2,180	3,230	2,720	3,420	2,810	1,900	1,730
11	1,570	1,480	2,310	5,780	2,680	2,330	3,190	2,900	2,970	2,670	1,890	1,790
12	1,570	1,530	2,130	5,260	2,680	2,440	3,170	2,740	10,100	3,060	1,950	2,470
13	1,560	1,580	2,020	8,850	2,690	7,000	3,130	2,630	9,490	2,670	1,900	3,640
14	1,570	1,550	1,900	6,020	2,600	31,900	2,950	2,520	7,760	2,500	1,820	2,030
15	1,550	1,650	1,850	3,840	2,370	21,400	2,990	2,410	4,290	3,550	1,780	1,730
16	1,600	1,630	2,570	2,920	2,330	9,110	3,030	4,560	3,800	3,840	1,790	1,650
17	1,990	1,550	3,300	2,580	2,640	12,200	2,880	4,880	3,500	2,780	1,780	1,630
18	1,920	1,580	2,560	2,320	2,790	10,100	2,840	5,550	3,170	2,390	1,710	1,950
19	1,680	1,960	2,170	2,220	2,710	19,800	2,830	6,950	3,390	2,300	1,710	11,600
20	1,630	2,070	2,090	2,440	2,590	9,690	2,840	5,590	3,630	2,500	2,080	5,090
21	1,580	2,620	1,960	3,040	2,420	4,830	2,700	3,550	3,350	3,100	1,740	6,570
22	1,580	2,050	1,970	2,520	2,330	3,670	2,620	3,100	2,990	2,850	1,680	3,870
23	1,590	1,730	1,870	2,240	2,230	7,440	2,610	2,990	3,330	2,400	1,640	4,300
24	1,590	1,630	1,760	2,160	3,730	6,750	2,580	3,570	2,330	3,000	1,710	6,400
25	1,590	1,590	1,850	3,420	6,400	7,820	2,680	2,930	2,910	4,900	1,650	6,050
26	1,590	1,580	1,910	4,890	4,900	4,830	2,840	3,310	2,320	3,500	1,590	3,890
27	1,580	1,550	1,850	3,610	4,190	4,440	2,660	3,020	2,740	2,600	1,550	2,660
28	1,570	1,520	1,990	3,100	3,000	4,220	2,510	2,770	2,860	2,280	1,530	2,260
29	1,560	1,510	2,200	2,640	------	8,010	2,510	2,760	2,660	2,120	1,720	2,190
30	1,650	1,520	2,140	2,470	------	32,400	2,610	7,190	2,860	2,050	1,540	2,040
31	1,590	------	1,910	2,340	------	9,560	------	6,660	------	2,020	1,490	------
TOTAL	50,520	49,070	72,210	92,730	88,780	243,280	103,050	113,280	140,010	84,910	58,180	92,600
MEAN	1,630	1,636	2,329	2,991	3,171	7,848	3,435	3,654	4,667	2,739	1,877	3,087
MAX	1,990	2,620	4,110	8,850	6,400	32,400	8,440	7,190	12,300	4,900	2,910	11,600
MIN	1,550	1,480	1,760	1,700	2,200	2,180	2,510	2,410	2,320	2,020	1,490	1,550
(†)	-4	+7	-3	0	0	+161	-167	+16	-17	0	-2	+2

CAL YR 1974 TOTAL 1,123,300 MEAN 3,078 MAX 32,800 MIN 1,480 MEAN‡ 3,076 CFSM‡ 1.83 IN‡ 24.85
*TR YR 1975 TOTAL 1,188,620 MEAN 3,256 MAX 32,400 MIN 1,480 MEAN‡ 3,256 CFSM‡ 1.94 IN‡ 26.31

† Change in contents, equivalent in cubic feet per second W. Kerr Scott Reservoir; furnished by Corps of Engineers.
‡ Adjusted for change in contents in W. Kerr Scott Reservoir.

02115856 Salem Creek near Atwood, N. C.

LOCATION.--Lat 36°02'16", long 80°18'18", Forsyth County, on left bank 5 ft (1.5 m) upstream from bridge at Winston-Salem Elledge Wastewater Treatment Plant, 2,700 ft (820 m) upstream from effluent outfall, 4,100 ft (1,250 m) upstream from bridge on Secondary Road 1120, 1.4 mi (2.3 km) southeast of Atwood, and 3.4 mi (5.5 km) upstream from mouth.

DRAINAGE AREA.--64.4 mi^2 (166.8 km^2).

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

GAGE.--Water-stage recorder and concrete control since Dec. 1, 1972. Datum of gage is 693.97 ft (211.522 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 3,290 ft^3/s (93.2 m^3/s) July 24 (gage height, 14.59 ft or 4.447 m); minimum, 19 ft^3/s (0.54 m^3/s) Aug. 31 (gage height, 1.83 ft or 0.558 m); minimum daily, 20 ft^3/s (0.57 m^3/s) Aug. 31.
Period of record: Maximum discharge, 3,620 ft^3/s (103 m^3/s) May 13, 1971 (gage height, 16.30 ft or 4.968 m); minimum, 14 ft^3/s (0.40 m^3/s) Aug. 21, Sept. 30, 1971; minimum daily, 16 ft^3/s (0.45 m^3/s) Sept. 26, 29, 30, 1971; minimum gage height, 0.59 ft (0.180 m) Oct. 15, 16, 1972.

REMARKS.--Records good. Flow regulated by Salem Lake in the headwaters. The city of Winston-Salem diverted an average of 24.3 ft^3/s (0.69 m^3/s) from Salem Lake for water supply. Diurnal fluctuation at low flow caused by filtration plant and industry. Creek channel improved by dredging in 1916, 1934-35, 1961, 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	30	440	36	55	47	117	52	1,170	28	39	21
2	29	28	59	34	79	43	108	52	404	27	36	52
3	29	29	40	38	54	41	139	109	105	26	33	27
4	29	29	36	76	210	40	77	103	68	36	33	24
5	28	28	34	40	408	41	66	57	80	26	33	23
6	27	28	33	68	305	41	59	48	120	29	34	31
7	29	29	154	49	233	76	59	44	52	48	41	162
8	29	28	583	78	111	52	57	42	41	51	34	40
9	28	27	186	62	81	41	55	54	38	33	30	28
10	28	28	76	70	69	61	55	43	37	32	30	26
11	28	28	60	949	61	50	59	40	44	108	46	27
12	28	35	51	473	77	121	67	44	57	60	127	160
13	27	28	45	624	58	1,230	49	43	41	358	39	38
14	28	32	41	228	52	2,660	50	38	37	356	30	26
15	29	53	48	93	48	693	109	266	69	919	46	24
16	47	28	131	70	52	308	60	138	55	831	33	25
17	31	27	54	60	57	682	53	82	41	146	27	26
18	28	41	43	54	51	242	51	97	37	72	29	76
19	75	42	39	50	49	1,240	50	60	35	53	29	42
20	30	105	42	248	44	582	48	49	38	71	29	28
21	28	40	44	125	43	272	44	42	41	55	27	25
22	29	31	36	79	41	166	45	39	31	44	30	217
23	29	28	35	67	77	120	43	78	31	194	29	785
24	29	29	35	62	173	384	42	48	32	931	25	133
25	30	42	51	446	89	241	46	224	30	1,180	25	61
26	30	32	34	204	63	117	42	118	52	222	25	48
27	28	29	41	92	57	112	40	51	38	86	24	39
28	28	28	91	72	52	110	47	43	30	60	24	34
29	29	29	50	65	------	151	45	116	27	49	24	34
30	29	74	43	59	------	770	113	293	28	45	23	34
31	30	------	39	55	------	290	------	114	------	42	20	------
TOTAL	960	1,065	2,694	4,726	2,749	11,024	1,895	2,627	2,909	6,218	1,054	2,316
MEAN	31.0	35.5	86.9	152	98.2	356	63.2	84.7	97.0	201	34.0	77.2
MAX	75	105	583	949	408	2,660	139	293	1,170	1,180	127	785
MIN	27	27	33	34	41	40	40	38	27	26	20	21

CAL YR 1974 TOTAL 28,058 MEAN 76.9 MAX 1,010 MIN 25
WTR YR 1975 TOTAL 40,237 MEAN 110 MAX 2,660 MIN 20

02115860 Muddy Creek near Muddy Creek, N. C.

LOCATION.--Lat 36°00'01", long 80°20'25", Forsyth County, on right bank 100 ft (30 m) upstream from bridge on Secondary Road 2995, 0.2 mi (0.3 km) downstream from Salem Creek, and 1.8 mi (2.9 km) east of community of Muddy Creek.

DRAINAGE AREA.--178 mi^2 (461 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 682.67 ft (208.078 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 233 ft^3/s (6.599 m^3/s), 17.78 in/yr (452 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,420 ft^3/s (210 m^3/s) Mar. 14 (gage height, 18.21 ft or 5.550 m); minimum, 92 ft^3/s (2.61 m^3/s) Nov. 10; minimum gage height, 2.33 ft (0.710 m) Sept. 1; minimum daily, 101 ft^3/s (2.86 m^3/s) Nov. 10.
Period of record: Maximum discharge, 14,500 ft^3/s (411 m^3/s) June 22, 1972 (gage height, 21.26 ft or 6.480 m); minimum, 21 ft^3/s (0.59 m^3/s) Oct. 6, 1968 (gage height, 1.26 ft or 0.384 m); minimum daily, 35 ft^3/s (0.99 m^3/s) Oct. 6, 1968.
Flood of June 1957 reached a stage of about 23 ft (7.01 m), from information by local resident.

REMARKS.--Records fair. Records on falling stages, following peaks above 14 ft (4.27 m), may be affected by backwater and are subject to error. Some regulation by Salem Lake and considerable diurnal fluctuation from sewage effluent and waste water. The city of Winston-Salem diverted an average of 22.5 ft^3/s (0.64 m^3/s) from Salem Lake in the basin and 24.3 ft^3/s (0.69 m^3/s) from the Yadkin River for water supply. An average of about 39.8 ft^3/s (1.13 m^3/s) sewage effluent was returned to Salem Creek 3.5 mi (5.6 km) above the station. The creek channel was dredged in 1935-36 by the Work Projects Administration.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	119	1,540	163	208	197	520	217	2,380	134	208	107
2	123	110	348	153	241	184	378	213	861	131	191	156
3	120	104	203	151	217	182	407	238	382	129	170	127
4	120	111	172	248	402	183	307	386	302	137	171	123
5	113	115	157	172	1,050	183	264	232	270	129	171	119
6	107	116	147	212	891	181	241	202	393	123	171	119
7	117	114	256	211	864	216	240	190	255	155	176	322
8	120	113	1,980	216	397	223	237	184	219	214	164	213
9	118	105	511	273	296	172	230	206	211	139	151	147
10	118	101	258	222	260	209	228	189	208	161	143	136
11	117	109	208	2,710	244	214	229	174	226	197	156	138
12	109	130	188	1,180	270	277	253	174	259	285	235	255
13	103	119	175	2,130	234	2,910	206	193	208	778	192	203
14	113	116	158	705	215	6,530	208	170	172	677	153	130
15	121	170	153	380	200	3,790	324	476	175	1,890	200	131
16	147	117	365	300	204	781	237	691	198	2,520	168	134
17	134	105	213	261	225	1,760	218	409	174	489	133	135
18	118	136	179	231	216	616	214	369	163	297	140	197
19	183	135	167	215	215	2,530	208	263	159	235	145	205
20	115	273	161	652	200	1,190	215	222	159	259	165	176
21	112	198	168	441	192	475	196	202	162	336	140	129
22	117	135	143	290	183	374	194	190	145	208	138	235
23	119	120	142	248	231	317	195	249	144	340	140	1,790
24	122	111	137	233	470	911	194	241	145	1,530	122	559
25	120	133	162	1,220	330	817	196	301	142	5,080	128	260
26	114	136	142	634	244	376	191	375	150	1,970	130	213
27	103	121	142	327	226	303	173	214	177	409	128	181
28	110	113	285	267	214	273	190	193	141	306	127	153
29	116	107	223	248	------	347	192	300	133	263	125	154
30	117	130	191	230	------	2,510	281	780	133	234	116	158
31	119	------	171	217	------	2,720	------	347	------	219	106	------
TOTAL	3,712	3,822	9,445	15,140	9,139	31,951	7,366	8,790	8,846	19,974	4,803	7,105
MEAN	120	127	305	488	326	1,031	246	284	295	644	155	237
MAX	183	273	1,980	2,710	1,050	6,530	520	780	2,380	5,080	235	1,790
MIN	103	101	137	151	183	172	173	170	133	123	106	107

CAL YR 1974 TOTAL 100,742 MEAN 276 MAX 3,010 MIN 100
WTR YR 1975 TOTAL 130,093 MEAN 356 MAX 6,530 MIN 101

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 1	0600	13.13	2,820	3-24	1830	11.53	2,260
12- 8	0400	13.34	2,920	3-31	0630	15.73	4,380
1-11	0800	14.31	3,440	6- 1	1100	15.12	3,930
1-13	0830	12.62	2,620	7-13	1930	12.41	2,540
3-14	1630	18.21	7,420	7-15	1930	15.69	4,350
3-17	0230	12.20	2,470	7-25	2000	16.68	5,230
3-19	0900	13.93	3,220	9-23	0200	13.13	2,820

02115900 South Fork Muddy Creek near Clemmons, N. C.

LOCATION.--Lat 36°00'22", long 80°18'07", Forsyth County, on right bank 5 ft (1.5 m) upstream from bridge on Secondary Road 2902, 1.9 mi (3.1 km) downstream from Leak Creek, and 4.2 mi (6.8 km) southeast of Clemmons.

DRAINAGE AREA.--42.2 mi^2 (109.3 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 684 ft or 208.5 m (from topographic map).

AVERAGE DISCHARGE.--11 years, 46.0 ft^3/s (1.303 m^3/s), 14.80 in/yr (376 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,860 ft^3/s (52.7 m^3/s) Mar. 14 (gage height, 14.24 ft or 4.340 m); minimum, 17 ft^3/s (0.48 m^3/s) Sept. 6 (gage height, 2.80 ft or 0.853 m).
Period of record: Maximum discharge, 2,980 ft^3/s (84.4 m^3/s) Aug. 10, 1970 (gage height, 16.30 ft or 4.968 m); minimum, 3.8 ft^3/s (0.11 m^3/s) Oct. 3, 1968.
In the period 1930-64, three floods equalled or exceeded 15 ft (4.57 m). The highest was about 16.3 ft (4.97 m) on Aug. 31, 1959 as a result of dam failure (from information by local resident).

REMARKS.--Records 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	23	307	30	45	47	81	50	323	24	37	19
2	24	23	74	28	54	44	68	46	107	23	34	21
3	23	22	45	35	48	42	84	53	71	22	31	20
4	23	23	35	54	96	40	61	84	56	23	30	19
5	24	22	31	36	315	39	54	50	49	23	29	18
6	23	22	29	34	210	38	50	43	64	22	30	19
7	23	22	51	40	140	43	48	41	46	68	32	40
8	22	22	447	41	87	49	47	40	39	126	29	32
9	22	22	99	57	73	38	45	42	38	32	27	24
10	22	22	61	44	64	44	44	42	38	29	26	22
11	22	22	50	808	61	47	47	40	41	36	26	23
12	22	25	45	202	66	55	55	37	43	49	100	33
13	22	23	39	466	57	679	44	39	38	427	62	41
14	22	22	35	134	52	1,530	42	34	34	305	32	23
15	22	30	34	82	49	390	72	77	36	479	29	22
16	25	23	80	67	52	140	49	143	51	600	28	23
17	25	22	48	56	55	503	45	112	34	119	26	23
18	22	26	38	51	52	135	46	112	31	79	27	37
19	37	26	34	48	53	764	45	78	29	59	26	51
20	25	64	34	160	48	200	44	60	28	215	26	26
21	23	40	36	101	45	109	41	51	44	308	25	23
22	23	27	31	68	42	93	40	45	38	76	27	43
23	23	25	29	57	75	81	40	55	29	62	28	456
24	24	23	28	53	134	212	40	74	26	314	24	137
25	24	27	34	279	86	164	41	52	25	447	23	64
26	23	28	28	124	61	87	40	74	51	97	22	48
27	23	24	36	74	55	73	37	51	51	66	21	39
28	23	23	62	62	51	66	40	45	29	55	20	34
29	23	23	43	56	------	79	39	55	26	48	20	31
30	23	27	36	51	------	334	69	117	25	43	19	30
31	23	------	32	47	------	119	------	76	------	39	19	------
TOTAL	730	773	2,011	3,445	2,226	6,284	1,498	1,918	1,540	4,315	935	1,441
MEAN	23.5	25.8	64.9	111	79.5	203	49.9	61.9	51.3	139	30.2	48.0
MAX	37	64	447	808	315	1,530	84	143	323	600	100	456
MIN	22	22	28	28	42	38	37	34	25	22	19	18
CFSM	.56	.61	1.53	2.62	1.88	4.80	1.18	1.46	1.21	3.29	.71	1.13
IN.	.64	.68	1.77	3.03	1.96	5.53	1.32	1.69	1.35	3.79	.82	1.27

CAL YR 1974 TOTAL 19,821 MEAN 54.3 MAX 621 MIN 19 CFSM 1.28 IN 17.43
WTR YR 1975 TOTAL 27,116 MEAN 74.3 MAX 1,530 MIN 18 CFSM 1.76 IN 23.85

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 8	0600	9.64	746	7-13	2400	10.03	785
1-11	1530	11.92	1,120	7-16	0100	12.09	1,150
3-14	1500	14.24	1,860	7-21	0130	9.78	754
3-17	0600	9.98	778	7-25	0030	10.76	909
3-19	1730	11.56	1,050	9-23	0400	9.36	703

02116500 Yadkin River at Yadkin College, N. C.

LOCATION.--Lat 35°51'24", long 80°23'10", Davidson County, near left bank on downstream end of pier of bridge on U. S. Highway 64, 1.5 mi (2.4 km) south of Yadkin College, 6.2 mi (10.0 km) downstream from Reedy Creek, and 295 mi (475 km) upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--2,280 mi^2 (5,900 km^2), approximately.

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

GAGE.--Water-stage recorder. Datum of gage is 638.65 ft (194.661 m) above mean sea level (levels by Corps of Engineers). Prior to July 26, 1957 at site on left bank 80 ft (24 m) downstream at same datum.

AVERAGE DISCHARGE.--47 years, 2,961 ft^3/s (83.86 m^3/s), 17.64 in/yr (448 mm/yr) unadjusted.

EXTREMES.--Current year: Maximum discharge, 47,000 ft^3/s (1,330 m^3/s) Mar. 15 (gage height, 26.51 ft or 8.080 m); minimum, 1,160 ft^3/s (32.9 m^3/s) Sept. 6 (gage height, 1.18 ft or 1.360 m); minimum daily, 1,460 ft^3/s (41.3 m^3/s) Sept. 6.
Period of record: Maximum discharge, 80,200 ft^3/s (2,270 m^3/s) Aug. 15, 1940 (gage height, 33.75 ft or 10.287 m); minimum observed 177 ft^3/s (5.01 m^3/s) Oct. 12, 1954 (gage height, -0.42 ft or -0.128 m); minimum daily, 330 ft^3/s (9.35 m^3/s) Oct. 9, 1954, Sept. 23, 1956.
Flood of July 1916, reached a stage of 36.3 ft (11.06 m), from floodmarks (discharge, 94,300 ft^3/s or 2,670 m^3/s).

REMARKS.--Records good. Diurnal fluctuation during low flow caused by small hydroelectric plant with little storage capacity 10 mi (16 km) upstream. Since August 1962, some regulation by W. Kerr Scott Reservoir. (See p. 152). Water quality records for the current year are published in Section 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,150	1,730	5,200	2,120	2,550	2,840	14,500	3,250	11,400	3,010	2,300	1,470
2	2,050	1,680	4,840	2,060	2,530	2,700	10,400	3,160	16,600	2,650	2,160	2,230
3	1,980	1,680	3,480	2,000	2,540	2,630	7,880	3,090	9,950	2,390	2,060	1,970
4	1,860	1,670	2,710	2,100	2,610	2,500	5,630	4,580	7,450	2,360	2,000	1,670
5	1,890	1,670	2,350	2,170	4,790	2,390	5,040	5,470	4,780	2,500	1,890	1,550
6	1,900	1,680	2,170	2,130	6,170	2,380	4,330	3,870	4,920	2,470	2,590	1,460
7	1,890	1,670	2,110	2,180	7,440	2,370	4,190	3,210	5,620	2,450	2,970	2,140
8	1,950	1,650	6,590	2,120	5,630	2,600	4,010	3,040	4,270	2,980	2,810	2,690
9	1,850	1,630	5,040	2,340	4,320	2,500	3,850	3,060	3,560	2,910	2,170	2,110
10	1,820	1,640	3,390	2,290	3,440	2,410	3,790	3,140	3,320	2,690	2,030	1,770
11	1,800	1,650	2,670	8,670	3,100	2,480	3,720	3,160	3,530	2,740	1,930	1,810
12	1,810	1,660	2,410	8,990	2,950	2,620	3,790	3,170	5,860	3,320	2,000	2,230
13	1,790	1,730	2,280	11,800	3,000	9,770	3,660	3,080	11,500	3,820	2,240	3,960
14	1,790	1,740	2,180	9,850	2,860	25,800	3,490	2,920	9,150	4,220	1,930	2,560
15	1,760	1,800	2,110	5,210	2,700	43,100	3,650	2,970	5,310	5,250	1,810	1,970
16	1,790	1,900	2,560	3,740	2,560	27,000	3,640	4,850	4,320	9,590	1,900	1,690
17	1,990	1,740	3,460	3,040	2,720	15,500	3,430	7,030	3,790	4,270	1,850	1,670
18	2,260	1,740	3,030	2,780	2,950	13,500	3,370	6,070	3,530	2,920	1,810	1,910
19	2,030	1,940	2,500	2,580	2,940	16,000	3,310	7,000	3,320	2,620	1,650	7,530
20	1,890	2,320	2,300	3,260	2,840	23,800	3,380	6,620	3,710	2,840	1,870	8,370
21	1,810	2,720	2,250	3,900	2,640	7,990	3,220	4,540	3,580	3,470	1,940	4,140
22	1,740	2,520	2,160	3,260	2,570	5,290	3,100	3,540	3,420	3,100	1,730	6,320
23	1,750	2,030	2,090	2,730	2,520	6,210	3,040	3,310	3,120	2,490	1,640	6,420
24	1,760	1,870	2,010	2,530	3,070	9,290	3,050	4,130	3,160	4,150	1,640	7,540
25	1,750	1,800	2,030	4,520	6,730	9,890	3,050	3,500	2,460	8,720	1,680	6,220
26	1,770	1,840	2,060	6,580	5,120	6,620	3,220	4,000	2,970	7,130	1,600	4,930
27	1,740	1,790	2,060	4,560	4,680	5,330	3,180	3,380	2,560	3,230	1,530	3,090
28	1,720	1,760	2,220	3,730	3,610	4,920	3,010	3,460	3,060	2,820	1,490	2,450
29	1,730	1,740	2,580	3,120	------	6,310	2,940	3,230	2,720	2,420	1,600	2,330
30	1,730	1,730	2,450	2,870	------	17,600	3,170	6,250	2,710	2,200	1,590	2,170
31	1,740	------	2,280	2,650	------	37,300	------	9,570	------	2,150	1,500	------
TOTAL	57,490	54,720	87,570	121,880	101,580	321,640	130,040	131,650	155,650	109,880	59,910	98,370
MEAN	1,855	1,824	2,825	3,932	3,628	10,380	4,335	4,247	5,188	3,545	1,933	3,279
MAX	2,260	2,720	6,590	11,800	7,440	43,100	14,500	9,570	16,600	9,590	2,970	8,370
MIN	1,720	1,630	2,010	2,000	2,520	2,370	2,940	2,920	2,460	2,150	1,490	1,460
(†)	-4	+7	-3	0	0	+161	-167	+16	-17	0	-2	+2

CAL YR 1974 TOTAL 1,347,000 MEAN 3,690 MAX 32,800 MIN 1,630 MEAN‡ 3,688 CFSM‡ 1.62 IN‡ 21.96
WTR YR 1975 TOTAL 1,430,380 MEAN 3,919 MAX 43,100 MIN 1,460 MEAN‡ 3,919 CFSM‡ 1.72 IN‡ 23.33

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir; furnished by Corps of Engineers.

‡ Adjusted for change in W. Kerr Scott Reservoir.

02117030 Humpy Creek near Fork, N. C.

LOCATION.--Lat 35°51'17", long 80°26'24", Davie County, on left bank 9 ft (3 m) upstream from culvert on Secondary Road 1813, 1.9 mi (3.1 km) south of Fork, and 2.3 mi (3.7 km) upstream from mouth.

DRAINAGE AREA.--1.05 mi^2 (2.72 km^2).

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

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Altitude of gage is 695 ft or 212 m (from topographic map).

AVERAGE DISCHARGE.--7 years, 1.21 ft^3/s (0.034 m^3/s), 15.65 in/yr (398 mm/yr).

EXTREMES.--Current year: Maximum discharge, 365 ft^3/s (10.3 m^3/s) May 30 (gage height, 6.65 ft or 2.027 m), from rating curve extended as explained below; minimum, 0.36 ft^3/s (0.010 m^3/s) Aug. 26, 27, 28, 30, 31, Sept. 4 (gage height, 0.57 ft or 0.174 m).
Period of record: Maximum discharge, 365 ft^3/s (10.3 m^3/s) May 30, 1975 (gage height, 6.65 ft or 2.027 m), from rating curve extended above 65 ft^3/s (1.84 m^3/s) on basis of computed culvert rating and computation of peak flow through culvert with flow-over-road; minmum daily, 0.12 ft^3/s (0.003 m^3/s) Oct. 1-6, 1968.
A discharge of 0.08 ft^3/s (0.002 m^3/s) was measured on Sept. 23, 1968.

REMARKS.--Records fair. Diurnal fluctuation at low flow during growing season.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.50	14	.87	1.1	1.1	1.9	1.1	17	.80	.68	.48
2	.48	.50	2.3	.79	1.2	1.1	1.6	.99	3.0	.70	.65	.64
3	.48	.50	1.3	.82	1.1	1.0	1.6	2.1	16	.64	.62	.49
4	.49	.49	1.0	1.0	4.7	.99	1.4	1.9	2.4	.60	.60	.46
5	.48	.48	.85	.85	8.3	.97	1.3	1.2	1.6	.60	.58	.47
6	.48	.46	.78	.99	5.3	.95	1.3	1.1	1.4	.57	.75	.53
7	.47	.49	3.1	.93	2.9	1.3	1.2	1.0	1.2	.54	.75	1.1
8	.45	.49	13	1.1	1.9	1.1	1.2	.96	1.0	.56	.65	.71
9	.46	.48	2.0	1.2	1.6	1.0	1.2	1.0	1.0	.56	.62	.59
10	.47	.47	1.3	1.1	1.4	1.1	1.2	.97	1.1	.54	.62	.57
11	.47	.50	1.1	24	1.3	1.1	1.3	.93	1.2	.77	.88	.69
12	.47	.55	.98	5.8	1.4	1.6	1.3	.95	1.1	.83	.82	1.1
13	.45	.50	.87	12	1.2	34	1.1	.92	.99	1.7	.70	.73
14	.44	.53	.80	2.6	1.1	36	1.1	.85	.92	1.1	.63	.59
15	.44	.62	.85	1.7	1.1	4.5	1.7	3.8	1.1	8.9	.60	.57
16	.53	.52	2.0	1.4	1.2	6.1	1.3	2.3	1.0	2.7	.58	.58
17	.49	.52	1.2	1.2	1.4	8.1	1.2	2.3	.91	1.3	.59	.59
18	.47	.68	.95	1.1	1.2	2.7	1.2	3.1	1.0	.99	.58	13
19	.65	.73	.88	1.0	1.2	13	1.2	1.8	1.1	.86	.62	2.3
20	.51	1.8	.87	3.7	1.1	3.1	1.1	1.3	1.1	.87	.59	.98
21	.49	.83	.88	1.9	1.1	2.1	1.0	1.1	1.0	.82	.55	.80
22	.50	.65	.79	1.4	1.0	1.9	1.0	1.0	.95	.72	.53	4.5
23	.50	.61	.74	1.3	1.4	1.6	1.0	1.0	.90	.76	.51	13
24	.50	.59	.75	1.3	2.1	2.7	.99	.93	.90	5.2	.52	3.6
25	.50	.66	.92	7.2	1.6	2.1	1.1	.86	.88	2.4	.54	1.6
26	.50	.62	.77	2.3	1.4	1.6	.99	.90	.84	1.2	.49	1.2
27	.50	.61	.80	1.6	1.3	1.5	.94	1.1	.82	.90	.45	.92
28	.50	.59	1.2	1.4	1.2	1.4	.95	.96	.80	.81	.44	.87
29	.50	.58	1.1	1.3	------	1.7	1.1	1.9	.80	.72	.46	.92
30	.50	1.2	1.0	1.2	------	8.3	1.1	44	1.0	.68	.46	.92
31	.50	------	.92	1.1	------	2.6	------	12	------	.69	.46	------
TOTAL	15.17	18.75	60.00	86.15	52.8	148.31	36.57	96.32	65.01	41.03	18.52	55.50
MEAN	.49	.63	1.94	2.78	1.89	4.78	1.22	3.11	2.17	1.32	.60	1.85
MAX	.65	1.8	14	24	8.3	36	1.9	44	17	8.9	.88	13
MIN	.44	.46	.74	.79	1.0	.95	.94	.85	.80	.54	.44	.46
CFSM	.47	.60	1.85	2.65	1.80	4.55	1.16	2.96	2.07	1.26	.57	1.76
IN.	.54	.66	2.13	3.05	1.87	5.25	1.30	3.41	2.30	1.45	.66	1.97

CAL YR 1974 TOTAL 491.15 MEAN 1.35 MAX 18 MIN .43 CFSM 1.29 IN 17.40
WTR YR 1975 TOTAL 694.13 MEAN 1.90 MAX 44 MIN .44 CFSM 1.81 IN 24.59

PEAK DISCHARGE (BASE, 40 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 1	0230	2.19	53	6- 3	0145	3.07	100
12- 8	0045	2.22	55	7-15	1415	1.98	41
1-11	0200	2.63	85	7-24	2015	2.15	51
3-13	2330	3.27	106	9-18	1715	3.27	106
5-30	2045	6.65	365	9-22	2245	2.06	46

02118000 South Yadkin River near Mocksville, N. C.

LOCATION.--Lat 35°50'39", long 80°39'38", Rowan County, on right bank at downstream side of bridge on Secondary Road 1972, 1 mi (2 km) upstream from Little Creek, 4 mi (6.4 km) downstream from Fifth Creek, 4.5 mi (7.2 km) upstream from Hunting Creek, and 6.5 mi (10.5 km) southwest of Mocksville.

DRAINAGE AREA.--313 mi^2 (811 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 663.6 ft (202.265 m) above mean sea level.

AVERAGE DISCHARGE.--37 years, 339 ft^3/s (9.600 m^3/s), 14.71 in/yr (374 mm/yr).

EXTREMES.--Current year: Maximum discharge, 10,900 ft^3/s (309 m^3/s) Mar. 15 (gage height, 17.69 ft or 5.392 m); minimum, 150 ft^3/s (4.25 m^3/s) Aug. 31, Sept. 1 (gage height, 2.10 ft or 0.640 m).
Period of record: Maximum discharge, 11,800 ft^3/s (334 m^3/s) Oct. 17, 1964 (gage height, 18.23 ft or 5.557 m); minimum, 30 ft^3/s (0.85 m^3/s) Aug. 14, 16, 1956.
The flood of Oct. 3, 1929 reached a stage of 22.6 ft (6.89 m), from floodmark established by local resident (discharge, about 22,000 ft^3/s or about 620 m^3/s).

REMARKS.--Records good. The city of Statesville diverted an average of 9.9 ft^3/s (0.28 m^3/s) for water supply and waste-treatment dilution. The Alexander Water Corporation withdraws an average of 1.1 ft^3/s (0.031 m^3/s) for water supply.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	204	178	956	269	331	385	2,720	505	2,260	330	223	151
2	188	178	710	256	329	361	843	427	2,030	286	218	383
3	180	179	424	243	338	338	746	474	886	269	212	236
4	177	179	329	272	377	333	650	1,400	663	263	208	179
5	181	176	288	281	932	321	570	963	524	269	200	164
6	183	179	265	267	1,090	311	525	545	478	264	201	179
7	182	179	278	295	935	309	498	455	448	309	227	314
8	177	174	521	279	699	359	477	420	398	286	224	356
9	174	173	405	327	547	338	463	395	367	265	211	276
10	175	174	321	316	472	313	451	385	358	301	202	214
11	174	174	282	1,340	428	332	444	414	479	280	201	204
12	172	180	268	1,110	414	356	447	381	678	417	204	220
13	172	189	258	1,790	413	2,180	428	441	1,120	368	191	289
14	170	180	245	1,340	378	6,000	406	388	624	318	185	235
15	167	194	240	640	357	9,520	440	426	477	526	179	196
16	174	203	396	497	358	3,940	423	763	432	535	192	188
17	187	189	408	426	452	1,460	396	1,540	397	342	195	189
18	196	192	329	380	445	1,030	388	2,650	369	304	221	275
19	189	211	290	355	424	1,810	384	1,650	389	284	193	316
20	190	269	272	497	394	2,710	389	763	379	273	238	325
21	182	331	270	537	365	1,380	366	581	371	363	217	241
22	178	249	258	418	349	750	356	492	355	285	189	235
23	179	211	245	370	371	652	352	446	336	296	184	521
24	180	198	231	347	507	884	351	464	322	391	191	432
25	180	195	242	821	755	1,000	354	410	308	305	190	332
26	180	202	256	943	555	693	364	407	300	278	171	264
27	180	194	239	559	453	578	342	405	293	255	162	234
28	179	188	281	452	414	528	327	454	286	247	160	216
29	178	187	322	404	------	516	347	438	283	238	169	207
30	178	194	307	375	------	1,560	918	1,300	292	230	158	203
31	178	------	282	349	------	4,790	------	2,040	------	228	153	------
TOTAL	5,584	5,899	10,418	16,755	13,882	46,037	16,165	22,822	16,902	9,605	6,869	7,774
MEAN	180	197	336	540	496	1,485	539	736	563	310	196	259
MAX	204	331	956	1,790	1,090	9,520	2,720	2,650	2,260	535	238	521
MIN	167	173	231	243	329	309	327	381	283	228	153	151
CFSM	.58	.63	1.07	1.73	1.58	4.74	1.72	2.35	1.80	.99	.63	.83
IN.	.66	.70	1.24	1.99	1.65	5.47	1.92	2.71	2.01	1.14	.72	.92

CAL YR 1974 TOTAL 141,306 MEAN 387 MAX 3,090 MIN 148 CFSM 1.24 IN 16.79
WTR YR 1975 TOTAL 177,912 MEAN 487 MAX 9,520 MIN 151 CFSM 1.56 IN 21.14

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-15	1100	17.69	10,900	3-31	1400	14.15	6,050
3-20	1530	9.41	2,900	5-18	1530	9.47	2,940

02118500 Hunting Creek near Harmony, N. C.

LOCATION.--Lat 36°00'01", long 80°44'45", Iredell County, on right bank at downstream side of bridge on Secondary Road 2115, 0.8 mi (1.3 km) downstream from Kennedy Creek, 1 mi (2 km) east of Houstonville, 2 mi (3 km) downstream from U. S. Highway 21, and 3.5 mi (5.6 km) northeast of Harmony.

DRAINAGE AREA.--153 mi^2 (396 km^2).

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1723.

GAGE.--Water-stage recorder. Datum of gage is 734.78 ft (223.961 m) above mean sea level, unadjusted. Prior to Apr. 5, 1951, nonrecording gage on upstream side of bridge at same datum.

AVERAGE DISCHARGE.--25 years, 204 ft^3/s (5.777 m^3/s), 18.11 in/yr (460 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,820 ft^3/s (250 m^3/s) Mar. 30 (gage height, 20.17 ft or 6.148 m); minimum, 82 ft^3/s (2.32 m^3/s) Nov. 30; minimum gage height, 1.04 ft (0.317 m) Sept. 5.
Period of record: Maximum discharge, 12,700 ft^3/s (360 m^3/s) June 21, 1972 (gage height, 24.30 ft or 7.407 m, from high-water mark in well); minimum, 18 ft^3/s (0.51 m^3/s) Oct. 8, 1954.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	112	500	143	182	219	616	271	822	218	189	125
2	129	110	311	133	187	209	496	279	452	198	161	154
3	124	109	214	131	187	197	473	276	580	193	154	126
4	124	106	185	152	198	193	413	795	345	191	147	115
5	126	106	165	144	333	192	387	409	294	199	144	110
6	125	105	153	141	396	191	370	315	351	200	443	139
7	122	100	153	151	526	197	357	281	279	225	233	273
8	120	98	332	148	337	225	345	270	249	198	184	243
9	119	97	250	182	277	193	335	260	235	188	165	161
10	120	96	193	164	243	201	330	258	262	183	155	143
11	119	94	167	668	228	213	323	257	355	268	155	184
12	118	104	154	477	239	251	350	296	901	405	148	201
13	119	101	144	1,040	232	2,310	308	303	515	222	146	254
14	116	95	137	447	213	6,920	299	240	341	212	140	150
15	117	126	135	291	203	1,820	319	257	295	316	141	133
16	127	106	284	236	216	645	297	720	277	267	198	128
17	140	96	234	209	254	778	286	608	256	216	142	131
18	123	106	182	194	237	512	282	543	242	204	145	193
19	129	125	161	187	232	2,450	284	478	270	193	144	577
20	124	161	150	230	215	816	275	375	250	213	214	233
21	117	153	146	249	204	499	263	307	254	365	149	173
22	117	111	135	208	197	408	259	276	238	208	138	187
23	118	100	129	195	218	365	257	284	230	196	131	309
24	119	95	129	189	383	513	258	297	219	208	124	320
25	119	96	135	408	446	646	260	253	213	197	120	209
26	119	97	132	358	297	415	268	243	213	179	114	171
27	118	89	128	261	253	359	245	249	236	169	111	153
28	115	87	158	227	232	335	242	270	214	164	145	139
29	116	84	174	210	------	343	242	251	210	157	133	132
30	115	89	156	198	------	6,000	311	948	235	154	123	129
31	114	------	146	187	------	1,110	------	471	------	262	119	------
TOTAL	3,764	3,154	5,772	8,158	7,365	29,725	9,750	11,340	9,833	6,768	4,955	5,695
MEAN	121	105	186	263	263	959	325	366	328	218	160	190
MAX	140	161	500	1,040	526	6,920	616	948	901	405	443	577
MIN	114	84	128	131	182	191	242	240	210	154	111	110
CFSM	.79	.69	1.22	1.72	1.72	6.27	2.12	2.39	2.14	1.42	1.05	1.24
IN.	.92	.77	1.40	1.98	1.79	7.23	2.37	2.76	2.39	1.65	1.20	1.38

CAL YR 1974 TOTAL 86,900 MEAN 238 MAX 2,690 MIN 84 CFSM 1.56 IN 21.13
WTR YR 1975 TOTAL 106,279 MEAN 291 MAX 6,920 MIN 84 CFSM 1.90 IN 25.84

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-13	1230	11.93	3,760	3-19	1230	12.96	4,330
3-14	1630	19.66	8,460	3-30	1400	20.17	8,820

02125000 Big Bear Creek near Richfield, N. C.

LOCATION.--Lat 35°20'02", long 80°20'09", Stanly County, on left bank 300 ft (91 m) downstream from Little Creek, 400 ft (122 m) upstream from bridge on Secondary Road 1134, and 10 mi (16 km) southwest of Richfield.

DRAINAGE AREA.--55.7 mi^2 (144 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 426.62 ft (130.034 m) above mean sea level, unadjusted.

AVERAGE DISCHARGE.--21 years, 57.5 ft^3/s (1.628 m^3/s), 14.02 in/yr (356 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,110 ft^3/s (173 m^3/s) May 18 (gage height, 12.28 ft or 3.743 m); minimum, 1.1 ft^3/s (0.031 m^3/s) Oct. 14, 15; minimum gage height, 0.88 ft (0.268 m) Oct. 14, 15, 16, Nov. 8, 9, 10, 11.
Period of record: Maximum discharge, 11,100 ft^3/s (314 m^3/s) Aug. 22, 1967 (gage height, 15.95 ft or 4.862 m); no flow at times 1954, 1961-64, 1966-69, 1972.
Flood of August 1921 reached a stage of about 19 ft (5.8 m), from information by North Carolina State Highway Commission.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1503: 1955, 1956(M). WSP 1553: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	1.6	441	51	45	51	112	75	1,110	4.6	8.6	2.8
2	2.4	1.5	93	38	45	53	85	73	216	4.3	8.0	77
3	1.8	1.5	45	31	49	40	141	1,010	102	4.1	7.4	13
4	1.8	1.6	28	76	270	35	82	784	61	3.9	6.8	7.4
5	1.8	1.6	20	85	698	32	62	154	43	4.0	6.2	4.4
6	1.7	1.6	16	80	298	29	51	76	34	3.9	8.9	4.4
7	1.7	1.5	52	100	151	32	44	50	37	67	17	196
8	1.4	1.4	506	175	96	56	39	38	23	14	9.3	93
9	1.5	1.4	119	305	76	36	35	31	19	7.7	7.5	29
10	1.4	1.5	60	142	59	35	33	28	17	14	6.7	15
11	1.3	1.4	42	2,080	53	45	43	29	20	15	6.3	12
12	1.3	1.5	38	395	58	51	115	23	21	12	5.7	13
13	1.3	1.6	33	562	50	1,700	66	23	23	68	5.1	35
14	1.2	1.5	26	235	40	2,390	47	18	15	262	4.8	14
15	1.2	2.1	23	136	35	342	194	120	22	943	4.4	9.4
16	1.4	1.9	205	97	50	181	109	268	35	326	4.1	7.4
17	1.7	1.7	96	72	76	260	68	104	17	114	4.1	7.2
18	1.5	2.6	55	60	81	144	53	1,890	12	72	14	103
19	2.1	3.2	40	53	143	558	43	255	9.7	42	94	301
20	2.2	12	36	313	94	213	35	110	8.8	29	42	97
21	1.8	17	80	228	66	123	29	64	8.2	25	12	41
22	1.6	12	54	121	52	103	25	43	7.7	18	7.8	266
23	1.5	7.0	38	86	75	95	23	85	7.2	15	6.2	1,570
24	1.5	5.6	32	83	216	234	22	110	6.7	14	5.4	267
25	1.5	5.0	34	1,490	171	268	21	43	6.3	63	4.8	113
26	1.5	4.7	34	320	93	122	19	30	6.0	43	4.2	67
27	1.4	4.3	26	150	68	83	17	27	5.9	21	3.7	43
28	1.5	4.0	101	102	58	67	16	84	5.7	15	4.0	30
29	1.3	3.8	116	80	------	101	82	79	5.3	12	3.6	24
30	1.4	4.3	78	64	------	298	240	1,300	4.9	10	3.2	21
31	1.6	------	58	53	------	156	------	236	------	9.1	2.8	------
TOTAL	50.5	112.4	2,625	7,863	3,266	7,933	1,951	7,260	1,909.4	2,255.6	328.6	3,483.0
MEAN	1.63	3.75	84.7	254	117	256	65.0	234	63.6	72.8	10.6	116
MAX	3.2	17	506	2,080	698	2,390	240	1,890	1,110	943	94	1,570
MIN	1.2	1.4	16	31	35	29	16	18	4.9	3.9	2.8	2.8
CFSM	.03	.07	1.52	4.56	2.10	4.60	1.17	4.20	1.14	1.31	.19	2.08
IN.	.03	.08	1.75	5.25	2.18	5.30	1.30	4.85	1.28	1.51	.22	2.33

CAL YR 1974 TOTAL 18,297.55 MEAN 50.1 MAX 768 MIN .77 CFSM .90 IN 12.22
WTR YR 1975 TOTAL 39,037.50 MEAN 107 MAX 2,390 MIN 1.2 CFSM 1.92 IN 26.07

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0630	11.14	4,940	5-18	0930	12.28	6,110
1-25	0830	8.40	2,740	5-30	1200	10.08	3,970
3-13	2230	9.54	3,530	6- 1	0400	8.06	2,540
3-14	1100	11.21	5,010	7-15	1800	8.50	2,800
5- 3	2100	8.50	2,800	9-23	0230	10.02	3,920

02126000 Rocky River near Norwood, N. C.

LOCATION.--Lat 35°08'50", long 80°10'26", Stanly County, on left bank 1,000 ft (300 m) downstream from Lanes Creek, 1.5 mi (2.4 km) upstream from bridge on Secondary Road 1935, 6 mi (10 km) southwest of Norwood, and 11.2 mi (18.0 km) upstream from mouth.

DRAINAGE AREA.--1,370 mi^2 (3,550 km^2).

PERIOD OF RECORD.--October 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 212.91 ft (64.895 m) above mean sea level, (levels by Corps of Engineers).

AVERAGE DISCHARGE.--46 years, 1,322 ft^3/s (37.44 m^3/s), 13.10 in/yr (333 mm/yr).

EXTREMES.--Current year: Maximum discharge, 48,100 ft^3/s (1,360 m^3/s) Mar. 14 (gage height, 28.07 ft or 8.556 m); minimum, 119 ft^3/s (3.37 m^3/s) Oct. 15 (gage height, 0.59 ft or 0.180 m); minimum daily, 121 ft^3/s (3.43 m^3/s) Oct. 15.
Period of record: Maximum discharge, 105,000 ft^3/s (2,970 m^3/s) Sept. 18, 1945 (gage height, 46.37 ft or 14.134 m, from floodmark); minimum, 17 ft^3/s (0.48 m^3/s) Oct. 8, 1954 (gage height, 0.00 ft or 0.000 m).
Flood in August 1908 reached a stage of 35 ft (10.7 m), from information by local residents (discharge, 67,600 ft^3/s or 1,910 m^3/s).

REMARKS.--Records good.

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	149	7,270	1,110	1,140	1,100	2,690	2,770	14,600	214	342	193
2	150	148	6,140	964	1,070	1,100	2,030	3,050	5,860	202	311	679
3	160	141	1,890	777	1,220	1,020	3,390	3,670	2,510	202	285	1,390
4	157	139	930	900	3,410	845	2,940	24,000	1,300	192	267	465
5	153	132	649	2,730	21,400	733	1,600	9,900	932	192	245	280
6	150	142	521	1,900	10,600	682	1,190	2,650	716	195	234	223
7	148	146	539	2,770	5,040	670	990	1,470	1,180	805	893	2,410
8	142	153	9,210	2,730	2,970	1,990	884	996	1,290	894	653	4,410
9	135	149	5,700	10,300	2,110	1,580	817	847	626	417	357	1,730
10	146	142	2,300	4,500	1,620	1,010	765	745	500	2,670	281	710
11	149	133	1,230	19,200	1,340	1,500	747	671	523	2,130	381	438
12	147	133	948	20,400	1,270	2,280	1,140	601	593	967	321	426
13	138	142	883	22,500	1,280	19,500	1,480	613	844	1,510	270	1,640
14	127	152	754	11,300	1,090	41,000	965	649	670	10,500	282	987
15	121	162	633	4,540	928	33,200	2,440	541	486	19,900	233	458
16	128	160	4,450	3,020	945	12,300	3,200	4,810	925	17,600	207	331
17	131	161	4,640	2,050	1,650	6,430	1,450	5,390	812	8,100	196	292
18	152	174	2,150	1,560	1,610	4,720	1,040	13,200	500	4,430	390	1,480
19	171	182	1,230	1,350	4,500	11,300	867	16,300	4,180	4,720	378	5,330
20	161	435	958	3,070	3,860	8,360	743	5,120	1,840	1,430	539	3,890
21	160	1,100	2,020	6,080	2,030	3,820	627	1,770	861	964	327	967
22	152	721	1,990	3,080	1,400	2,570	570	1,120	558	738	232	749
23	144	400	1,160	2,050	1,270	2,670	534	840	398	597	200	14,000
24	145	281	873	1,790	2,510	2,300	508	1,620	339	724	179	15,000
25	148	234	789	19,500	4,480	6,530	485	961	307	999	176	8,370
26	152	225	806	17,000	2,430	3,520	466	670	302	1,320	162	2,040
27	143	234	735	4,620	1,550	1,990	427	613	346	682	162	1,170
28	134	225	873	2,800	1,240	1,460	392	765	306	495	295	814
29	133	202	2,710	2,110	------	1,340	418	1,230	259	420	1,250	641
30	140	189	1,910	1,670	------	4,580	4,040	5,450	237	401	480	565
31	145	------	1,340	1,340	------	5,550	------	10,900	------	363	245	------
TOTAL	4,522	7,086	68,231	179,711	85,963	187,650	39,835	123,932	44,800	84,973	10,773	72,078
MEAN	146	236	2,201	5,797	3,070	6,053	1,328	3,998	1,493	2,741	348	2,403
MAX	171	1,100	9,210	22,500	21,400	41,000	4,040	24,000	14,600	19,900	1,250	15,000
MIN	121	132	521	777	928	670	392	541	237	192	162	193
CFSM	.11	.17	1.61	4.23	2.24	4.42	.97	2.92	1.09	2.00	.25	1.75
IN.	.12	.19	1.85	4.88	2.33	5.10	1.08	3.37	1.22	2.31	.29	1.96

CAL YR 1974 TOTAL 497,170 MEAN 1,362 MAX 13,500 MIN 121 CFSM .99 IN 13.50
WTR YR 1975 TOTAL 909,554 MEAN 2,492 MAX 41,000 MIN 121 CFSM 1.82 IN 24.70

PEAK DISCHARGE (BASE, 16,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	1700	20.77	30,700	5- 4	0800	19.90	28,800
1-25	2000	19.76	28,500	5-18	2000	17.44	23,900
2- 5	0800	18.05	25,100	6- 1	1400	15.08	19,400
3-14	2000	28.07	48,100	7-16	0100	18.06	25,100
3-19	1600	13.47	16,400	9-23	1200	14.28	17,900

02128000 Little River near Star, N. C.

LOCATION.--Lat 35°23'11", long 79°49'56", Montgomery County, on left bank 9 ft (3 m) downstream from bridge on Secondary Road 1340, 50 ft (15 m) upstream from Black Rock Branch, 0.2 mi (0.3 km) upstream from Norfolk Southern Railway bridge, 0.3 mi (0.5 km) downstream from West Fork Little River, and 3 mi (5 km) west of Star.

DRAINAGE AREA.--105 mi^2 (272 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-54. April 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 409.00 ft (124.663 m) above mean sea level.

AVERAGE DISCHARGE.--21 years, 111 ft^3/s (3.144 m^3/s), 14.36 in/yr (365 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,700 ft^3/s (133 m^3/s) July 16 (gage height, 10.63 ft or 3.240 m); minimum, 17 ft^3/s (0.48 m^3/s) Oct. 14, 15, 16.
Period of record: Maximum discharge, 10,400 ft^3/s (295 m^3/s) Oct. 15, 1954 (gage height, 16.46 ft or 5.017 m); minimum, 0.24 ft^3/s (0.007 m^3/s) Oct. 4, 5, 1968 (gage height, 0.68 ft or 0.207 m), may be affected by upstream storage releases for water supply.
Flood in September 1945 reached a stage of about 20 ft (6.0 m), from information by local resident.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	23	449	99	116	119	193	100	737	34	122	41
2	25	23	178	90	120	127	184	99	335	32	87	44
3	23	23	85	81	174	119	253	95	147	30	76	41
4	22	24	62	117	277	105	205	148	110	29	70	38
5	26	24	52	193	1,250	101	154	116	90	35	66	36
6	25	24	47	125	487	99	138	90	80	39	70	32
7	22	24	54	201	236	104	131	83	74	52	1,110	296
8	20	24	1,710	191	168	149	125	80	67	52	233	319
9	19	24	298	594	145	118	121	77	63	865	114	84
10	19	23	130	204	131	106	118	78	62	128	93	57
11	19	24	96	1,620	123	117	119	98	73	78	85	80
12	21	26	86	563	124	113	141	85	72	862	107	377
13	20	27	82	2,580	128	1,420	131	77	69	777	85	440
14	17	27	75	709	113	3,220	115	73	62	3,290	72	104
15	17	27	69	251	106	1,370	295	86	65	2,650	67	67
16	19	27	191	176	116	298	213	484	97	2,600	63	57
17	21	26	162	143	150	534	141	198	79	298	63	53
18	22	34	101	126	153	276	127	1,510	61	301	84	53
19	34	53	85	119	174	1,340	120	599	55	180	78	72
20	52	90	80	424	158	538	123	181	51	137	221	75
21	37	118	123	454	121	257	108	128	53	208	82	59
22	27	64	117	190	109	211	103	109	51	127	66	126
23	24	44	88	148	110	257	102	110	49	98	60	1,870
24	23	37	79	139	354	220	100	148	44	197	57	890
25	23	36	79	1,440	427	528	98	96	41	322	55	448
26	23	36	89	632	174	216	96	190	41	141	52	184
27	23	35	81	241	136	166	92	110	39	96	49	127
28	23	35	152	173	124	150	91	98	39	84	45	99
29	24	33	279	150	------	159	92	111	37	77	43	86
30	23	33	148	136	------	418	100	328	36	133	42	83
31	23	------	117	123	------	282	------	241	------	474	41	------
TOTAL	746	1,068	5,444	12,432	6,004	13,237	4,129	6,026	2,879	14,426	3,558	6,338
MEAN	24.1	35.6	176	401	214	427	138	194	96.0	465	115	211
MAX	52	118	1,710	2,580	1,250	3,220	295	1,510	737	3,290	1,110	1,870
MIN	17	23	47	81	106	99	91	73	36	29	41	32
CFSM	.23	.34	1.68	3.82	2.04	4.07	1.31	1.85	.91	4.43	1.10	2.01
IN.	.26	.38	1.93	4.40	2.13	4.69	1.46	2.13	1.02	5.11	1.26	2.25

CAL YR 1974 TOTAL 40,210 MEAN 110 MAX 1,710 MIN 17 CFSM 1.05 IN 14.25
WTR YR 1975 TOTAL 76,287 MEAN 209 MAX 3,290 MIN 17 CFSM 1.99 IN 27.03

PEAK DISCHARGE (BASE, 2,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 8	1130	8.66	3,170	5-18	1900	9.00	3,400
1-11	1100	8.08	2,770	7-12	2230	8.07	2,770
1-13	1430	9.44	3,750	7-14	2300	10.27	4,420
3-13	1800	8.33	2,940	7-16	0830	10.63	4,700
3-14	2400	10.41	4,530	9-23	1700	8.73	3,190
3-19	1400	7.54	2,430				

02129000 Pee Dee River near Rockingham, N. C.

LOCATION.--34°56'46", long 79°52'11", Richmond County, on left bank at bridge on U. S. Highway 74, 2.5 mi (4.0 km) upstream from Falling Creek, 3.3 mi (5.3 km) downstream from Blewett Falls hydroelectric plant, 6 mi (10 km) west of Rockingham, and 192 mi (309 km) upstream from mouth in Winyah Bay.

DRAINAGE AREA.--6,870 mi^2 (17,790 km^2), approximately.

PERIOD OF RECORD.--August 1906 to January 1912, October 1927 to current year. Published as Yadkin River near Pee Dee, N. C., August 1906 to January 1912.

GAGE.--Water-stage recorder. Datum of gage is 120.68 ft (36.783 m) above mean sea level (levels by Corps of Engineers). August 1906 to January 1912 nonrecording gage at site 3.3 mi (5.3 km) upstream at different datum. September 1927 to Sept. 30, 1931, water-stage recorder at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--53 years (1906-11, 1927-75), 7,964 ft^3/s (225.5 m^3/s), 15.74 in/yr (400 mm/yr) unadjusted.

EXTREMES.--Current year: Maximum discharge, 128,000 ft^3/s (3,620 m^3/s) Mar. 15 (gage height, 18.08 ft or 5.511 m); minimum, 226 ft^3/s (6.40 m^3/s) Oct. 19 (gage height, 0.81 ft or 0.247 m); minimum daily, 289 ft^3/s (8.18 m^3/s) Oct. 19.
Period of record: Maximum discharge, 276,000 ft^3/s (7,820 m^3/s) Aug. 27, 1908 (gage height, 31.28 ft or 9.534 m, present site and datum, from records of State Highway Commission); minimum, 50 ft^3/s (1.42 m^3/s) Dec. 2, 3, 1951; minimum daily, 58 ft^3/s (1.64 m^3/s) Dec. 2, 1951, result of abnormally low shutdown of Blewett Falls hydroelectric plant to produce steady flow for current-meter measurements at this gaging station; minimum discharge from normal regulations, 96 ft^3/s (2.72 m^3/s) Oct. 25, 1943; minimum daily, 120 ft^3/s (3.40 m^3/s) Oct. 8, 1961.

REMARKS.--Records good. Flow regulated since 1928 by Blewett Falls Lake and five other reservoirs upstream. (See p. 153). Water quality records for the current year are published in Section 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,850	3,140	6,160	9,900	12,600	10,800	52,000	8,080	37,000	5,260	9,200	1,140
2	5,060	905	15,700	6,030	12,200	11,800	34,300	10,400	41,400	7,220	9,090	4,010
3	5,540	1,350	14,700	6,660	12,400	10,200	24,900	10,200	30,900	6,210	6,500	4,460
4	6,110	3,910	12,100	8,460	12,900	9,800	19,500	26,000	23,000	569	6,850	6,560
5	3,550	5,840	11,300	2,670	36,700	9,090	13,400	28,900	15,200	4,600	7,270	4,000
6	475	5,200	10,700	9,070	39,600	6,780	12,200	17,800	12,100	824	5,580	533
7	3,300	5,260	10,400	10,200	21,800	8,630	11,000	13,900	10,900	5,490	5,400	833
8	4,300	5,750	19,100	11,500	17,400	9,600	12,000	12,500	10,600	8,790	6,990	9,890
9	6,600	3,040	27,800	20,300	16,100	4,200	13,700	11,600	10,200	8,780	8,720	10,300
10	6,440	514	18,200	17,600	13,200	8,150	10,600	9,550	9,690	9,560	1,690	9,900
11	6,570	4,370	14,300	23,500	13,300	9,500	10,800	3,050	9,680	8,800	5,420	6,160
12	710	435	12,900	49,500	12,100	10,200	11,600	5,470	10,700	9,220	7,170	6,770
13	690	709	11,600	51,100	12,500	23,700	12,200	4,190	10,300	12,200	4,950	5,690
14	5,230	5,100	10,200	51,800	12,300	73,600	12,600	5,000	9,750	44,800	4,110	3,720
15	5,780	3,410	10,200	24,100	12,000	115,000	13,100	7,280	9,840	71,400	2,310	5,430
16	5,970	1,460	10,400	15,300	12,000	118,000	15,500	11,700	9,980	78,300	3,920	6,220
17	7,510	316	16,200	15,500	12,700	80,200	13,700	19,900	9,930	51,000	2,820	6,150
18	3,840	4,470	14,600	13,800	12,600	46,400	12,100	25,700	9,850	31,200	4,250	7,090
19	289	4,550	12,300	12,900	16,200	45,200	12,700	46,900	9,700	22,800	5,660	10,300
20	858	5,770	10,700	13,600	17,700	58,300	11,400	28,900	9,850	13,900	3,900	14,200
21	5,660	8,920	11,100	20,300	15,200	45,000	4,730	15,400	9,870	12,200	4,470	10,600
22	5,150	4,980	10,900	17,900	12,200	26,200	3,980	11,500	9,770	11,200	4,570	10,200
23	3,410	1,070	6,210	15,400	10,700	18,400	9,560	10,100	7,790	10,500	3,540	28,500
24	5,870	392	7,720	14,600	12,100	21,400	9,570	9,980	6,030	9,800	540	43,700
25	5,690	4,740	4,920	31,500	16,300	26,700	8,140	10,300	4,330	10,200	4,270	34,800
26	531	6,560	5,300	55,600	15,700	25,800	1,230	9,990	5,430	15,800	5,180	18,400
27	1,130	5,030	9,250	25,600	12,900	12,300	358	9,720	4,900	11,700	5,020	13,500
28	5,210	712	9,850	17,500	11,600	11,800	4,990	9,580	5,510	10,000	3,280	11,600
29	5,010	2,550	5,660	15,600	------	12,900	6,430	9,520	989	9,800	2,520	9,230
30	6,950	1,130	6,520	14,300	------	17,600	8,880	9,950	4,490	9,320	1,250	8,870
31	7,450	------	9,060	12,700	------	40,400	------	31,100	------	8,980	557	------
TOTAL	139,733	101,583	356,050	614,490	435,000	927,650	387,168	444,160	359,679	520,423	146,997	312,756
MEAN	4,508	3,386	11,490	19,820	15,540	29,920	12,910	14,330	11,990	16,790	4,742	10,430
MAX	8,850	8,920	27,800	55,600	39,600	118,000	52,000	46,900	41,400	78,300	9,200	43,700
MIN	289	316	4,920	2,670	10,700	4,200	358	3,050	989	569	540	533
(†)	-1386	+263	-487	+2,162	-651	+1,593	-1,057	+950	-666	+30	-291	+151

CAL YR 1974 TOTAL 3,576,153 MEAN 9,798 MAX 51,800 MIN 289 MEAN‡ 9,555 CFSM‡ 1.39 IN‡ 18.88
WTR YR 1975 TOTAL 4,745,689 MEAN 13,000 MAX 118,000 MIN 289 MEAN‡ 13,061 CFSM‡ 1.90 IN‡ 25.69

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir, furnished by Corps of Engineers; High Rock Lake, Tuckertown Reservoir, and Badin Lake, furnished by Yadkin, Inc.; and Lake Tillery and Blewett Falls Lake, furnished by Carolina Power and Light Co.
‡ Adjusted for change in contents.

02133500 Drowning Creek near Hoffman, N. C.

LOCATION.--Lat 35°03'38", long 79°29'39", Richmond County, on right bank 10 ft (3 m) downstream from bridge on U. S. Highway 1, 0.8 mi (1.3 km) downstream from Deep Creek, 1 mi (2 km) upstream from Seaboard Coast Line Railroad bridge, and 4 mi (6 km) northeast of Hoffman.

DRAINAGE AREA.--178 mi^2 (461 km^2).

PERIOD OF RECORD.--October 1939 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 270 ft or 82 m (from topographic map).

AVERAGE DISCHARGE.--36 years, 263 ft^3/s (7.448 m^3/s) 20.06 in/yr (510 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,990 ft^3/s (56.4 m^3/s) July 16 (gage height, 7.24 ft or 2.207 m); minimum, 83 ft^3/s (2.35 m^3/s) July 4 (gage height, 2.30 ft or 0.701 m).
Period of record: Maximum discharge, 10,900 ft^3/s (309 m^3/s) Sept. 18, 1945 (gage height, 10.29 ft or 3.136 m); minimum, 22 ft^3/s (0.62 m^3/s) Oct. 5, 1968.

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

REVISIONS (WATER YEARS).--WSP 972: 1941(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110	119	228	272	395	332	450	305	750	101	305	126
2	106	118	308	226	374	326	470	425	720	94	470	142
3	105	117	329	205	382	335	440	485	600	88	455	137
4	104	114	293	208	435	332	400	430	400	85	320	128
5	108	115	223	257	576	310	380	335	200	87	237	119
6	110	118	178	289	723	287	450	308	170	95	207	114
7	110	119	173	295	849	281	430	254	152	94	298	110
8	106	118	254	285	681	310	380	242	139	119	354	124
9	104	117	358	308	530	347	350	222	130	124	400	135
10	104	118	435	329	445	370	330	202	132	240	344	126
11	105	117	445	326	395	386	310	194	143	239	257	124
12	106	122	386	341	370	386	290	184	156	167	218	157
13	102	125	277	460	354	455	270	174	158	211	193	208
14	102	126	245	570	338	564	260	166	158	485	171	238
15	102	123	229	630	326	730	300	157	136	1,250	157	208
16	110	125	251	636	386	990	340	204	186	1,940	147	156
17	128	124	293	515	470	878	360	315	217	1,680	142	154
18	132	145	300	410	505	695	350	612	172	1,180	164	161
19	125	202	281	344	576	716	320	758	164	1,430	238	220
20	148	289	245	335	570	723	300	758	182	1,400	558	359
21	156	400	254	374	546	737	280	636	141	886	341	407
22	136	430	277	390	515	709	260	450	125	654	206	364
23	129	410	273	386	430	588	250	298	117	530	165	366
24	127	320	246	374	382	530	243	226	110	480	150	530
25	123	205	213	520	395	558	238	199	106	564	149	636
26	121	186	205	765	420	520	230	194	100	606	150	686
27	120	186	197	1,070	420	520	222	210	98	535	141	619
28	121	172	202	886	382	500	210	240	110	430	134	476
29	119	159	246	636	------	450	205	300	120	335	128	338
30	119	153	285	505	------	400	223	350	114	279	122	274
31	119	------	291	445	------	420	------	450	------	273	120	------
TOTAL	3,617	5,292	8,420	13,592	13,170	15,685	9,541	10,283	6,206	16,681	7,441	7,942
MEAN	117	176	272	438	470	506	318	332	207	538	240	265
MAX	156	430	445	1,070	849	990	470	758	750	1,940	558	686
MIN	102	114	173	205	326	281	205	157	98	85	120	110
CFSM	.66	.99	1.53	2.46	2.64	2.84	1.79	1.87	1.16	3.02	1.35	1.49
IN.	.76	1.11	1.76	2.84	2.75	3.28	1.99	2.15	1.30	3.49	1.56	1.66

CAL YR 1974 TOTAL 79,204 MEAN 217 MAX 557 MIN 60 CFSM 1.22 IN 16.55
WTR YR 1975 TOTAL 117,870 MEAN 323 MAX 1,940 MIN 85 CFSM 1.81 IN 24.63

PEE DEE RIVER BASIN

02134500 Lumber River at Boardman, N. C.

LOCATION.--Lat 34°26'32", long 78°57'38", Robeson County, on right bank 50 ft (15 m) downstream from bridge on U. S. Highway 74, 1 mi (2 km) downstream from Seaboard Coast Line Railroad bridge at Boardman, 1.5 mi (2.4 km) downstream from Big Swamp, and 40.5 mi (65.2 km) upstream from mouth.

DRAINAGE AREA.--1,220 mi^2 (3,160 km^2), approximately.

PERIOD OF RECORD.--September 1929 to current year.

GAGE.--Water-stage recorder. Datum of gage is 72.05 ft (21.961 m) above mean sea level (levels by Corps of Engineers). Prior to Sept. 30, 1936, nonrecording gage at site 100 ft (30 m) downstream at same datum. Sept. 30, 1936, to June 8, 1943, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--46 years, 1,338 ft^3/s (37.89 m^3/s), 14.89 in/yr (378 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,410 ft^3/s (153 m^3/s) Mar. 24 (gage height, 8.52 ft or 2.597 m); minimum, 367 ft^3/s (10.4 m^3/s) July 8 (gage height, 2.47 ft or 0.753 m).
Period of record: Maximum discharge, 13,400 ft^3/s (379 m^3/s) Sept. 24, 1945 (gage height, 10.64 ft or 3.243 m); minimum, 66 ft^3/s (1.87 m^3/s) Oct. 9, 1968.
Flood of August 1928 reached a stage of 11.8 ft (3.60 m), from floodmark witnessed by local resident (discharge 25,000 ft^3/s or 708 m^3/s).
Flood of July 22, 1901, the highest during the period 1896-1913, reached a stage of 10.8 ft or 3.29 m, from observations by Butters Lumber Co. (discharge, 14,800 ft^3/s or 419 m^3/s).

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

REVISIONS (WATER YEARS).--WSP 892: Drainage area. WSP 1303: 1932(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,190	559	1,390	2,010	3,550	4,090	3,300	1,200	1,580	535	1,910	741
2	1,090	543	1,490	1,960	3,500	3,700	3,160	1,200	1,520	505	1,740	628
3	1,010	541	1,510	1,920	3,470	3,350	3,420	1,160	1,490	479	1,630	583
4	918	543	1,470	1,840	3,430	3,070	3,630	1,120	1,430	451	1,500	531
5	830	517	1,420	1,810	3,510	2,880	3,770	1,100	1,480	427	1,360	506
6	779	504	1,390	1,780	3,430	2,750	3,800	1,080	1,610	413	1,210	485
7	736	508	1,380	1,780	3,360	2,620	3,700	1,030	1,660	399	1,060	506
8	674	512	1,450	1,760	3,240	2,530	3,490	1,010	1,580	373	935	672
9	620	521	1,540	1,810	3,090	2,390	3,260	1,020	1,410	386	834	685
10	588	499	1,690	1,830	2,980	2,250	3,050	1,040	1,250	407	791	684
11	570	497	1,810	1,850	2,870	2,180	2,890	1,030	1,090	454	798	695
12	545	504	1,870	1,900	2,840	2,160	2,710	993	982	503	787	669
13	522	504	1,870	2,130	2,850	2,160	2,500	947	983	615	748	642
14	526	501	1,830	2,360	2,810	2,180	2,330	866	889	717	725	681
15	527	499	1,780	2,660	2,720	2,240	2,300	817	847	748	733	719
16	525	495	1,790	3,120	2,580	2,380	2,230	817	880	860	738	738
17	602	492	1,810	3,450	2,440	2,620	2,170	790	877	1,250	720	738
18	637	517	1,820	3,590	2,290	2,770	2,160	853	810	1,860	687	728
19	616	581	1,820	3,670	2,930	3,190	2,130	1,050	785	2,310	640	711
20	620	622	1,880	3,840	3,700	3,680	2,150	1,350	756	2,550	610	687
21	629	688	2,060	4,070	4,530	4,630	2,160	1,530	777	2,690	570	669
22	650	738	2,160	4,020	4,810	4,990	2,150	1,690	743	2,900	580	672
23	654	781	2,260	3,880	5,000	5,290	2,130	1,700	753	3,130	620	726
24	672	823	2,280	3,820	5,100	5,300	2,070	1,740	756	3,440	700	862
25	681	867	2,230	3,700	5,160	5,370	1,960	1,860	732	3,570	800	1,070
26	674	922	2,200	3,700	5,050	5,230	1,800	1,990	711	3,530	870	1,240
27	668	981	2,130	3,700	4,840	4,980	1,640	2,050	696	3,690	980	1,380
28	659	1,050	2,070	3,670	4,520	4,630	1,510	1,990	696	3,680	1,120	1,530
29	645	1,100	2,060	3,630	------	4,230	1,450	1,900	685	3,110	1,080	1,880
30	595	1,160	2,060	3,600	------	3,870	1,300	1,730	660	2,550	1,010	2,340
31	575	------	2,070	3,600	------	3,540	------	1,680	------	2,110	909	------
TOTAL	21,227	19,569	56,590	88,460	100,600	107,250	76,320	40,333	31,118	50,642	29,395	25,398
MEAN	685	652	1,825	2,854	3,593	3,460	2,544	1,301	1,037	1,634	948	847
MAX	1,190	1,160	2,280	4,070	5,160	5,370	3,800	2,050	1,660	3,690	1,910	2,340
MIN	522	492	1,380	1,760	2,290	2,160	1,300	790	660	373	570	485
CFSM	.56	.53	1.50	2.34	2.95	2.84	2.09	1.07	.85	1.34	.78	.69
IN.	.65	.60	1.73	2.70	3.07	3.27	2.33	1.23	.95	1.54	.90	.77

CAL YR 1974 TOTAL 576,456 MEAN 1,579 MAX 8,750 MIN 472 CFSM 1.29 IN 17.58
WTR YR 1975 TOTAL 646,902 MEAN 1,772 MAX 5,370 MIN 373 CFSM 1.45 IN 19.73

02137000 Mill Creek at Old Fort, N. C.

LOCATION.--Lat 35°37'59", long 82°11'14", McDowell County, on right bank at downstream side of bridge on Secondary Road 1119, 2,200 ft (670 m) downstream from Jarrett Creek, 0.5 mi (0.8 km) northwest of Old Fort, and 1 mi (2 km) upstream from mouth.

DRAINAGE AREA.--20.7 mi^2 (53.6 km^2).

PERIOD OF RECORD.--May to December 1907, (gage heights and discharge measurements only), August 1930 to July 1931, April 1960 to September 1975 (discontinued). Records of discharge for 1907, published in WSP 242, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 1,445.92 ft (440.716 m) above mean sea level. May to September 1907, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datum. August 1930 to July 1931, nonrecording gage at present site at datum 1.00 ft (0.305 m) lower.

AVERAGE DISCHARGE.--15 years (1960-75), 42.4 ft^3/s (1.201 m^3/s), 27.82 in/yr (707 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,900 ft^3/s (53.8 m^3/s) Sept. 23 (gage height, 7.28 ft or 2.219 m); minimum, 13 ft^3/s (0.37 m^3/s) Aug. 26, 30, 31 (gage height, 1.29 ft or 0.393).
Period of record: Maximum discharge, 2,420 ft^3/s (68.5 m^3/s) May 28, 1973 (gage height, 8.03 ft or 2.448 m); minimum, 4.7 ft^3/s (0.13 m^3/s) Sept. 3, 4, 1930.
Flood of Aug. 13, 1940 reached a stage of 11.1 ft (3.38 m), from floodmarks (discharge, 7,880 ft^3/s or 223 m^3/s). Flood in July 1916 reached a stage about 4 ft (1.2 m) higher than that of Aug. 13, 1940, from information by local residents.
A discharge of 3.02 ft^3/s (0.086 m^3/s) was measured on Oct. 10, 1954.

REMARKS.--Records good. Some regulation at times during periods of low flow caused by reservoirs in the headwaters. Town of Old Fort diverted an average of about 1 ft^3/s (0.028 m^3/s) for municipal water supply.

REVISIONS (WATER YEARS).--WSP 1503: 1931. See PERIOD OF RECORD.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	17	28	33	35	50	128	37	211	34	25	29
2	22	17	23	30	42	46	109	38	120	33	24	19
3	22	17	22	30	41	44	103	41	91	32	23	17
4	22	16	22	35	47	42	87	40	76	31	23	16
5	22	18	22	31	71	39	80	36	68	30	28	15
6	21	16	22	30	87	39	74	34	62	35	29	16
7	21	15	25	28	81	47	69	35	56	33	24	22
8	21	15	38	28	66	45	65	35	51	31	23	20
9	21	15	35	27	58	41	62	46	48	29	22	18
10	20	15	29	31	52	44	60	39	58	27	22	17
11	20	15	27	66	49	44	57	37	69	27	22	20
12	20	18	27	64	51	55	54	39	101	35	20	17
13	20	15	27	92	45	161	51	37	70	28	19	17
14	19	17	27	66	42	475	50	35	59	30	18	17
15	21	17	28	53	40	195	50	64	54	38	20	17
16	41	15	33	47	49	131	47	96	50	29	23	16
17	25	16	29	42	53	106	46	60	52	28	18	28
18	22	23	27	39	57	92	45	500	56	26	18	207
19	22	32	26	38	58	141	44	200	50	28	21	63
20	21	54	25	40	53	108	41	120	45	30	18	44
21	20	33	25	36	49	92	40	90	43	27	17	33
22	20	26	23	34	47	89	39	70	41	26	17	33
23	20	23	23	33	51	82	39	60	40	24	17	220
24	20	22	25	33	130	164	39	50	38	35	16	364
25	19	21	40	64	91	145	40	47	37	31	16	105
26	19	20	33	53	73	113	37	44	37	28	15	71
27	18	19	32	46	65	96	36	41	36	25	15	55
28	18	19	44	42	58	85	36	38	36	24	18	47
29	18	18	41	40	------	86	36	65	37	23	15	42
30	17	24	37	38	------	298	36	136	34	29	14	38
31	17	------	35	36	------	163	------	111	------	34	63	------
TOTAL	652	608	900	1,305	1,641	3,358	1,700	2,321	1,826	920	663	1,643
MEAN	21.0	20.3	29.0	42.1	58.6	108	56.7	74.9	60.9	29.7	21.4	54.8
MAX	41	54	44	92	130	475	128	500	211	38	63	364
MIN	17	15	22	27	35	39	36	34	34	23	14	15
CFSM	1.01	.98	1.40	2.03	2.83	5.22	2.74	3.62	2.94	1.43	1.03	2.65
IN.	1.17	1.09	1.62	2.35	2.95	6.03	3.06	4.17	3.28	1.65	1.19	2.95

CAL YR 1974 TOTAL 17,248 MEAN 47.3 MAX 258 MIN 15 CFSM 2.29 IN 31.00
WTR YR 1975 TOTAL 17,537 MEAN 48.0 MAX 500 MIN 14 CFSM 2.32 IN 31.52

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0300	5.03	762	9-23	2330	7.28	1,900
5-18	Unknown	5.10	790				

02138000 Catawba River near Marion, N. C.

LOCATION.--Lat 35°42'26", long 82°02'00", McDowell County, on right bank 15 ft (5 m) downstream from bridge on U. S. Highway 221, 0.2 mi (0.3 km) downstream from Tom Creek, 2.2 mi (3.5 km) northwest of Marion, and at mile 294 (473 km). Records include flow of small tributary on right bank 250 ft (76 m) downstream.

DRAINAGE AREA.--171 mi^2 or 443 km^2 (including area of small downstream tributary).

PERIOD OF RECORD.--October 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,208 ft (368.2 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 340 ft^3/s (9.629 m^3/s), 27.00 in/yr (686 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,820 ft^3/s (250 m^3/s) Sept. 24 (gage height, 11.90 ft or 3.627 m); minimum, 128 ft^3/s (3.62 m^3/s) Sept. 15 (gage height, 1.39 ft or 0.424 m); minimum daily, 137 ft^3/s (3.88 m^3/s) Sept. 14.
Period of record: Maximum discharge, 19,700 ft^3/s (558 m^3/s) Aug. 28, 1949 (gage height, 15.02 ft or 4.578 m); from rating curve extended as explained below; minimum, 28 ft^3/s (0.79 m^3/s) Sept. 30, Oct. 1, 5, 1954 (gage height, 0.50 ft or 0.152 m).
Flood of Aug. 13, 1940 reached a stage of 19.34 ft or 5.895 m (discharge, 71,400 ft^3/s or 2,020 m^3/s, from rating curve extended above 10,000 ft^3/s or 283 m^3/s on basis of contracted opening measurements at gage height, 15.02 or 4.578 m and 19.34 ft or 5.895 m).

REMARKS.--Records good. Some diurnal fluctuation and regulation for short periods of low flow caused by Lake Tahoma hydroelectric plant above station. About 4 ft^3/s (0.11 m^3/s) is diverted by the town of Marion for water supply.

REVISIONS (WATER YEARS).--WSP 1032: 1942, 1943(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279	223	408	298	274	453	970	351	2,040	324	229	287
2	257	189	324	280	309	432	826	439	1,070	303	204	191
3	244	187	286	271	372	390	802	372	784	293	216	184
4	237	190	295	264	466	369	680	439	643	291	209	168
5	221	222	313	234	660	360	630	372	567	287	396	155
6	229	219	275	241	685	349	590	355	529	312	441	151
7	248	210	250	263	685	372	570	325	486	331	304	172
8	242	206	381	276	555	398	546	346	424	272	276	210
9	240	183	383	276	489	338	522	416	410	253	204	187
10	241	180	328	331	444	360	508	329	495	248	199	177
11	226	190	330	841	422	368	490	355	623	275	225	236
12	202	236	289	712	440	432	471	434	1,230	294	234	188
13	201	210	247	1,100	399	1,350	443	452	706	260	215	144
14	204	217	242	645	362	5,150	439	372	566	298	204	137
15	253	243	277	498	291	1,650	448	675	498	347	189	141
16	427	183	382	435	431	1,070	425	1,250	465	288	185	155
17	295	180	340	390	521	875	416	711	438	273	166	275
18	263	256	314	305	529	772	412	2,700	519	258	186	4,070
19	224	322	294	337	523	1,470	394	1,280	609	223	207	876
20	220	578	261	376	468	989	325	826	464	278	237	476
21	236	337	227	350	432	826	368	655	418	286	206	340
22	249	279	219	329	405	738	372	556	402	272	187	297
23	249	228	213	321	483	670	355	503	418	254	152	1,060
24	247	224	225	294	1,370	1,130	368	430	395	276	150	4,550
25	235	240	340	560	872	1,100	386	412	371	305	151	997
26	199	260	297	502	634	838	363	462	392	238	164	636
27	196	249	275	435	546	722	284	434	393	219	171	476
28	194	192	364	408	489	660	325	394	353	237	262	376
29	199	188	340	376	------	660	355	704	357	232	208	337
30	233	249	328	345	------	2,300	363	1,820	358	196	148	329
31	248	------	319	325	------	1,240	------	1,010	------	330	274	------
TOTAL	7,438	7,070	9,366	12,618	14,556	28,831	14,446	20,179	17,423	8,553	6,799	17,978
MEAN	240	236	302	407	520	930	482	651	581	276	219	599
MAX	427	578	408	1,100	1,370	5,150	970	2,700	2,040	347	441	4,550
MIN	194	180	213	234	274	338	284	325	353	196	148	137
CFSM	1.40	1.38	1.77	2.38	3.04	5.44	2.82	3.81	3.40	1.61	1.28	3.50
IN.	1.62	1.54	2.04	2.74	3.17	6.27	3.14	4.39	3.79	1.86	1.48	3.91

CAL YR 1974 TOTAL 165,831 MEAN 454 MAX 2,470 MIN 180 CFSM 2.66 IN 36.08
WTR YR 1975 TOTAL 165,257 MEAN 453 MAX 5,150 MIN 137 CFSM 2.65 IN 35.95

PEAK DISCHARGE (BASE, 3,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0930	11.27	7,780	9-18	1300	10.98	7,380
3-30	0800	6.51	3,500	9-24	0600	11.90	8,820
5-18	1030	8.26	4,900				

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 370 ft (113 m) (revised) upstream from bridge on State Highway 126, 0.2 mi (0.3 km) downstream from Shooks Creek, 0.5 mi (0.8 km) upstream from Lake James, 2.0 mi (3.2 km) northeast of Longtown, and 6.0 mi (9.7 km) northeast of Nebo.

DRAINAGE AREA.--67.2 mi^2 (174.0 km^2).

PERIOD OF RECORD.--May 1907 to August 1908 (fragmentary). June 1922 to current year. Published as "at Fonta Flora" prior to 1908 and as "at Branch" 1923-70. Records for October to December 1908, "at Fonta Flora", published in WSP 242 have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,204.87 ft (367.244 m) above mean sea level. May 1907 to August 1908 nonrecording gage about 1.2 mi (1.9 km) downstream at different datum. June 1922 to Aug. 27, 1937, nonrecording gage, and Aug. 28, 1937 to Sept. 30, 1970, water-stage recorder at site 300 ft (91 m) downstream at datum 1.00 ft (0.305 m) higher. Oct. 1, 1970 to Sept. 30, 1973 at present site at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--53 years (1922-75), 146 ft^3/s (4.135 m^3/s), 29.50 in/yr (749 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,320 ft^3/s (94.0 m^3/s) Mar. 14 (gage height, 5.35 ft or 1.631 m); minimum, 34 ft^3/s (0.96 m^3/s) Sept. 16 (gage height, 0.86 ft or 0.262 m).
Period of record: Maximum discharge, 39,500 ft^3/s (1,120 m^3/s) Aug. 13, 1940 (gage height, 11.4 ft or 3.47 m, site and datum then in use), from rating curve extended above 6,400 ft^3/s (181 m^3/s) on basis of slope-area measurement of peak flow; minimum, 2 ft^3/s (0.057 m^3/s) Jan. 9, 1956 (result of freezeup); minimum daily, 8 ft^3/s (0.23 m^3/s) Sept. 7-9, 1925.
Flood of July 1916 reached a stage of about 11 ft (3.4 m) former site and datum (discharge, 34,600 ft^3/s (980 m^3/s).

REMARKS.--Records good.

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	66	108	189	145	234	391	86	1,140	103	53	53
2	87	64	119	169	151	211	319	91	538	93	48	49
3	84	63	100	152	160	187	285	94	415	86	52	44
4	80	60	89	162	158	173	239	120	291	83	50	41
5	79	61	79	154	232	167	210	106	233	88	49	38
6	78	67	82	138	362	157	193	89	216	85	68	41
7	75	60	97	132	338	157	179	84	189	89	89	42
8	74	56	137	127	261	212	169	84	163	84	62	45
9	72	56	174	127	224	165	160	91	147	74	54	43
10	71	54	126	124	199	162	153	113	164	67	50	41
11	69	54	124	337	185	164	145	105	258	65	50	40
12	67	63	115	277	196	214	137	119	771	70	49	40
13	65	68	120	460	207	862	130	121	406	63	46	42
14	65	63	121	313	180	2,240	124	107	268	66	43	37
15	67	62	123	239	168	850	125	117	217	71	43	35
16	225	58	174	207	183	515	122	231	209	75	56	34
17	191	54	187	185	236	407	115	266	176	73	46	39
18	116	80	154	169	226	327	111	826	183	65	46	1,020
19	99	123	138	163	234	588	106	524	192	68	46	457
20	90	231	129	175	206	485	103	333	160	68	43	178
21	83	223	122	167	187	373	100	242	143	96	41	125
22	80	143	117	147	173	321	97	199	134	70	39	103
23	77	117	113	139	184	299	95	172	127	61	40	259
24	77	107	112	134	1,780	488	95	152	117	111	45	1,810
25	75	100	191	221	765	560	99	136	110	147	41	447
26	74	96	288	270	442	364	105	125	106	97	37	257
27	72	89	197	202	330	299	94	123	102	73	38	192
28	70	84	280	183	270	262	89	114	102	63	240	158
29	69	81	294	170	------	254	87	279	115	57	90	136
30	67	89	238	162	------	985	85	873	101	52	60	122
31	67	------	216	151	------	553	------	450	------	56	52	------
TOTAL	2,657	2,592	4,664	5,945	8,382	13,235	4,462	6,572	7,493	2,419	1,766	5,968
MEAN	85.7	86.4	150	192	299	427	149	212	250	78.0	57.0	199
MAX	225	231	294	460	1,780	2,240	391	873	1,140	147	240	1,810
MIN	65	54	79	124	145	157	85	84	101	52	37	34
CFSM	1.28	1.29	2.23	2.86	4.45	6.35	2.22	3.15	3.72	1.16	.85	2.96
IN.	1.47	1.43	2.58	3.29	4.64	7.33	2.47	3.64	4.15	1.34	.98	3.30

CAL YR 1974 TOTAL 65,483 MEAN 179 MAX 2,010 MIN 54 CFSM 2.66 IN 36.25
WTR YR 1975 TOTAL 66,155 MEAN 181 MAX 2,240 MIN 34 CFSM 2.69 IN 36.62

PEAK DISCHARGE (BASE, 1,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-24	1030	5.21	3,120	9-18	1600	4.25	1,880
3-14	1000	5.35	3,320	9-24	0900	5.12	2,980
6- 1	0730	4.01	1,610				

02141150 Lower Creek at Mulberry Street at Lenoir, N. C.

LOCATION.--Lat 35°54'20", long 81°31'59", Caldwell County, on left bank at upstream side of bridge on Mulberry Street, 1,100 ft (335 m) downstream from Zacks Fork Creek, and 0.8 mi (1.3 km) southeast of courthouse, Lenoir.

DRAINAGE AREA.--31.8 mi^2 (82.4 km^2).

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,071.45 ft (326.578 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 42.0 ft^3/s (1.189 m^3/s), 17.94 in/yr (456 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,780 ft^3/s (50.4 m^3/s) Mar. 14 (gage height, 10.07 ft or 3.069 m); minimum, 17 ft^3/s (0.48 m^3/s) Nov. 4 (gage height, 0.88 ft or 0.268 m); minimum daily, 20 ft^3/s (0.57 m^3/s) Nov. 1, 7-11, 13.
Period of record: Maximum discharge, 3,430 ft^3/s (97.1 m^3/s) Aug. 10, 1970 (gage height, 11.03 ft or 3.362 m in gage well, 11.50 ft or 3.505 m, from outside gage); minimum, 5.8 ft^3/s (0.16 m^3/s) July 17, 1970; minimum daily, 7.7 ft^3/s (0.22 m^3/s) July 17, 20, 1970; minimum gage height, 0.55 ft (0.168 m) Oct. 1, 1968, July 17, 1970.
The flood of Aug. 13, 1940 reached a stage of 1,087.0 ft (331.32 m) above mean sea level (discharge, 20,000 ft^3/s or 566 m^3/s) at mouth of Zacks Fork Creek 1,100 ft (335 m) upstream.

REMARKS.--Records good except those above 200 ft^3/s, which are fair. At times slight fluctuation and diversions by industrial and recreational development. The City of Lenoir diverted an average of about 0.5 ft^3/s (0.014 m^3/s) for water supply from Zacks Fork Creek. Since 1940 various creek channel improvements and changes related to highway and industrial development. A significant channel change occurred in 1969 as a result of construction.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	20	87	27	30	41	92	41	227	30	27	28
2	25	21	51	25	33	38	75	45	78	29	27	23
3	24	21	46	26	31	34	74	61	60	29	27	22
4	23	21	40	34	39	33	60	52	49	29	26	22
5	24	21	35	28	70	32	56	38	47	29	36	22
6	24	21	32	27	100	32	54	34	47	35	85	24
7	23	20	35	27	97	42	51	33	42	31	41	35
8	23	20	50	31	63	37	51	33	39	30	34	27
9	22	20	44	30	54	33	49	33	38	29	31	23
10	22	20	35	33	46	39	48	42	102	28	31	23
11	22	20	31	131	42	45	50	47	125	27	30	78
12	22	25	30	82	47	88	48	40	420	28	28	91
13	23	20	28	109	42	548	46	38	137	35	27	45
14	21	25	26	58	38	1,200	45	35	76	30	26	31
15	24	27	34	44	36	197	45	140	58	34	25	27
16	42	21	58	38	58	112	45	400	61	30	25	26
17	25	22	38	33	59	108	44	450	54	28	29	41
18	23	34	32	32	55	81	43	650	63	27	27	112
19	23	34	30	31	51	362	42	143	54	27	28	73
20	23	60	28	43	44	125	41	84	57	32	26	42
21	22	35	29	33	40	86	40	64	45	35	26	35
22	22	26	27	31	37	75	40	54	42	26	23	40
23	22	24	26	31	47	64	39	50	40	37	24	123
24	21	24	27	31	195	178	38	47	37	95	23	107
25	21	23	31	111	87	116	38	43	36	60	23	53
26	21	22	27	64	58	76	34	42	33	139	22	42
27	21	21	26	47	49	63	32	40	34	40	28	36
28	21	22	37	40	44	59	33	38	33	35	66	33
29	21	21	32	37	------	68	32	48	32	31	26	31
30	21	48	29	34	------	833	32	164	31	28	24	31
31	21	------	28	32	------	145	------	62	------	27	25	------
TOTAL	718	759	1,109	1,380	1,592	4,990	1,417	3,091	2,197	1,150	946	1,346
MEAN	23.2	25.3	35.8	44.5	56.9	161	47.2	99.7	73.2	37.1	30.5	44.9
MAX	42	60	87	131	195	1,200	92	650	420	139	85	123
MIN	21	20	26	25	30	32	32	33	31	26	22	22
CFSM	.73	.80	1.13	1.40	1.79	5.06	1.48	3.14	2.30	1.17	.96	1.41
IN.	.84	.89	1.30	1.61	1.86	5.84	1.66	3.62	2.57	1.35	1.11	1.57

CAL YR 1974 TOTAL 17,840 MEAN 48.9 MAX 794 MIN 20 CFSM 1.54 IN 20.87
WTR YR 1975 TOTAL 20,695 MEAN 56.7 MAX 1,200 MIN 20 CFSM 1.78 IN 24.21

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-13	0730	5.42	826	5-17	Unknown	Unknown	Unknown
3-14	1145	10.07	1,780	5-18	Unknown	8.31	1,260
3-19	0600	4.70	696	6-12	1615	5.25	795
3-30	0745	9.42	1,520	7-26	0130	4.21	602

02142000 Lower Little River near All Healing Springs, N. C.

LOCATION.--Lat 35°56'50", long 81°13'57", Alexander County, on left bank at upstream side of bridge on Secondary Road 1313, 0.3 mi (0.5 km) downstream from Grassy Creek, 0.4 mi (0.6 km) upstream from Lambert Creek, 2.2 mi (3.5 km) northeast of All Healing Springs, and 4 mi (6.4 km) northwest of Taylorsville.

DRAINAGE AREA.--31.2 mi^2 (80.8 km^2).

PERIOD OF RECORD.--October to December 1952 (monthly discharge only), January 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,070 ft or 326 m (by barometer). Prior to June 13, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 37.3 ft^3/s (1.056 m^3/s), 16.24 in/yr (412 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,890 ft^3/s (81.8 m^3/s) June 12 (gage height, 13.49 ft or 4.112 m); minimum, 15 ft^3/s (0.42 m^3/s) Sept. 4, 5 (gage height, 1.20 ft or 0.366 m).
Period of record: Maximum discharge, 4,850 ft^3/s (137 m^3/s) Aug. 10, 1970 (gage height, 15.68 ft or 4.779 m); minimum, 2.9 ft^3/s (0.082 m^3/s) Sept. 20, 21, 1955.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	18	82	23	28	44	106	38	128	48	28	21
2	21	18	45	22	29	40	88	41	83	44	33	20
3	20	18	34	22	28	36	86	66	80	42	32	18
4	20	17	31	25	33	34	72	75	62	44	28	17
5	20	18	28	22	52	33	66	51	55	42	30	17
6	19	18	26	23	59	32	62	43	59	44	38	18
7	19	17	27	22	74	38	59	40	49	44	33	25
8	18	17	35	24	58	37	56	38	45	42	30	25
9	19	17	31	26	50	32	54	37	43	39	28	21
10	19	17	28	25	43	35	52	61	101	37	28	20
11	18	17	26	134	39	37	52	53	184	49	28	43
12	18	20	25	85	42	57	51	66	1,000	43	26	28
13	18	17	23	127	37	527	47	57	173	47	24	24
14	18	19	22	72	34	1,220	46	45	113	46	24	21
15	18	24	24	52	32	190	48	98	91	47	23	20
16	24	19	48	43	40	119	45	574	79	43	22	21
17	21	18	34	36	46	115	44	487	71	40	22	23
18	19	24	29	34	45	91	43	207	67	38	22	52
19	20	23	27	31	42	279	42	139	66	37	31	73
20	19	35	26	38	37	130	40	100	89	36	24	31
21	18	27	24	35	34	96	39	79	72	35	23	27
22	19	23	23	32	32	83	38	67	61	33	23	26
23	19	21	22	31	39	72	38	62	56	33	22	42
24	18	20	22	30	221	112	38	57	52	36	22	40
25	18	20	23	60	115	101	39	52	50	33	21	30
26	18	20	22	53	72	79	38	50	48	37	20	26
27	18	19	21	42	57	69	35	50	47	32	20	24
28	18	19	28	37	49	63	35	47	46	30	23	23
29	18	18	27	34	------	66	36	53	45	29	20	22
30	18	25	25	40	------	723	39	143	72	29	19	22
31	18	------	24	33	------	152	------	77	------	29	19	------
TOTAL	589	603	912	1,313	1,467	4,742	1,534	3,053	3,187	1,208	786	820
MEAN	19.0	20.1	29.4	42.4	52.4	153	51.1	98.5	106	39.0	25.4	27.3
MAX	24	35	82	134	221	1,220	106	574	1,000	49	38	73
MIN	18	17	21	22	28	32	35	37	43	29	19	17
CFSM	.61	.64	.94	1.36	1.68	4.90	1.64	3.16	3.40	1.25	.81	.88
IN.	.70	.72	1.09	1.57	1.75	5.65	1.83	3.64	3.80	1.44	.94	.98

CAL YR 1974 TOTAL 14,990 MEAN 41.1 MAX 575 MIN 17 CFSM 1.32 IN 17.87
WTR YR 1975 TOTAL 20,214 MEAN 55.4 MAX 1,220 MIN 17 CFSM 1.78 IN 24.10

PEAK DISCHARGE (BASE, 550 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-24	1030	6.21	574	3-30	0700	11.61	1,920
3-13	0600	7.95	871	5-16	2330	11.59	1,920
3-14	1000	12.47	2,340	6-12	0500	13.49	2,890

02142900 Long Creek near Paw Creek, N. C.

LOCATION.--Lat 35°19'42", long 80°54'35", Mecklenburg County, on left bank at upstream side of bridge on Secondary Road 2042, 600 ft (183 m) downstream from McIntyre Creek, 1.2 mi (1.9 km) upstream from Gutter Branch, and 3.6 mi (5.8 km) north of community of Paw Creek.

DRAINAGE AREA.--16.1 mi^2 (41.7 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 648.7 ft (197.72 m) above mean sea level.

AVERAGE DISCHARGE.-10 years, 17.5 ft^3/s (0.496 m^3/s), 14.79 in/yr (376 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,720 ft^3/s (105 m^3/s) May 30 (gage height, 11.46 ft or 3.493 m); minimum, 2.2 ft^3/s (0.062 m^3/s) Aug. 14, 15, 23, 25 (gage height, 1.02 ft or 0.311 m); minimum daily, 2.4 ft^3/s (0.068 m^3/s) Aug. 25, 26.
Period of record: Maximum discharge, 3,720 ft^3/s (105 m^3/s) May 30, 1975 (gage height, 11.46 ft or 3.493 m); minimum, 0.65 ft^3/s (0.018 m^3/s) July 28, 29, 1966; minimum gage height, 0.93 ft (0.283 m) Sept. 15, 1972,

REMARKS.--Records good except those for periods of indefinite stage-discharge relation or no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	3.2	192	12	14	16	24	41	88	5.7	3.7	3.8
2	4.1	3.2	21	11	20	17	19	27	34	5.2	3.7	380
3	3.8	3.5	12	10	22	14	33	297	23	5.2	3.4	28
4	3.7	3.4	8.7	48	136	13	18	274	17	5.3	3.2	16
5	3.7	3.5	7.2	14	208	13	15	34	14	5.7	3.1	14
6	3.6	3.6	6.6	30	91	13	14	20	15	14	3.8	15
7	3.6	3.4	20	15	41	18	13	15	17	15	6.0	184
8	3.5	3.3	179	61	27	21	12	13	12	7.9	3.5	63
9	3.6	3.4	24	56	23	14	12	12	11	6.4	3.4	20
10	3.6	3.5	15	28	19	17	12	12	12	9.8	3.2	13
11	3.5	3.6	12	635	18	21	25	11	16	10	3.3	11
12	3.4	4.1	11	155	24	31	37	21	42	6.9	2.8	20
13	3.5	3.7	9.6	100	19	700	17	25	24	14	2.9	20
14	3.4	3.7	8.4	70	16	588	14	11	13	15	2.6	9.7
15	3.4	5.6	35	26	15	78	21	103	20	146	2.6	8.1
16	5.6	3.9	80	21	19	46	15	108	22	43	2.6	7.7
17	4.8	3.8	16	20	30	88	13	117	13	16	9.1	7.6
18	3.8	8.2	11	18	28	34	12	379	10	11	12	11
19	4.1	6.5	10	17	43	165	12	49	10	8.3	3.6	9.5
20	4.2	44	11	80	24	44	11	24	9.8	7.1	3.4	7.6
21	3.5	11	16	30	19	27	9.7	17	10	6.3	3.1	7.0
22	3.0	6.2	11	22	16	28	9.2	13	8.4	5.3	2.8	85
23	3.1	5.2	9.5	20	39	24	8.9	17	7.8	6.9	2.6	887
24	3.1	4.8	9.5	27	65	90	8.7	16	7.2	7.4	2.6	74
25	3.0	5.1	16	200	32	55	8.9	10	7.2	20	2.4	26
26	3.0	5.7	9.2	45	22	25	8.5	9.1	7.2	8.7	2.4	17
27	3.2	4.8	8.5	27	19	20	7.4	25	7.0	5.9	12	13
28	3.0	4.6	54	23	17	17	7.4	21	7.1	5.1	121	10
29	3.0	4.3	20	20	------	31	9.1	12	6.4	4.4	7.9	8.8
30	3.2	27	14	18	------	50	29	1,330	6.0	3.9	4.9	8.2
31	3.2	------	17	15	------	25	------	73	------	3.8	3.9	------
TOTAL	112.0	199.8	874.2	1,874	1,066	2,343	455.8	3,136.1	497.1	435.2	247.5	1,985.0
MEAN	3.61	6.66	28.2	60.5	38.1	75.6	15.2	101	16.6	14.0	7.98	66.2
MAX	5.6	44	192	635	208	700	37	1,330	88	146	121	887
MIN	3.0	3.2	6.6	10	14	13	7.4	9.1	6.0	3.8	2.4	3.8
CFSM	.22	.41	1.75	3.76	2.37	4.70	.94	6.27	1.03	.87	.50	4.11
IN.	.26	.46	2.02	4.33	2.46	5.41	1.05	7.25	1.15	1.01	.57	4.59

CAL YR 1974 TOTAL 7,246.0 MEAN 19.9 MAX 377 MIN 2.0 CFSM 1.24 IN 16.74
WTR YR 1975 TOTAL 13,225.7 MEAN 36.2 MAX 1,330 MIN 2.4 CFSM 2.25 IN 30.56

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0845	9.27	1,560	5-30	1015	11.46	3,720
2- 4	2230	5.68	502	8-28	0230	5.91	536
3-13	1330	8.11	1,030	9- 2	0245	9.04	1,420
5- 3	2400	7.72	920	9- 7	1945	6.26	602
5-18	0745	8.19	1,060	9-23	0400	10.50	2,580

02143000 Henry Fork near Henry River, N. C.

LOCATION.--Lat 35°41'06", long 81°24'03", Catawba County, on left bank 325 ft (99 m) downstream from bridge (relocated) on Secondary Road 1124, at site of Old Link Ford, 1.2 mi (1.9 km) downstream from Burke-Catawba County line, and 2 mi (3 km) southeast of village of Henry River.

DRAINAGE AREA.--80 mi^2 (207 km^2), approximately.

PERIOD OF RECORD.--July 1925 to November 1931, December 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 891.0 ft (271.6 m) above mean sea level. July 1925 to November 1931, at site 450 ft (137 m) upstream at same datum.

AVERAGE DISCHARGE.--39 years (1925-31, 1942-75), 131 ft^3/s (3.710 m^3/s), 22.24 in/yr (565 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,600 ft^3/s (244 m^3/s) Mar. 14 (gage height, 14.60 ft or 4.450 m); minimum, 23 ft^3/s (0.65 m^3/s) Sept. 22 (gage height, 0.86 ft or 0.262 m); minimum daily, 58 ft^3/s (1.64 m^3/s) Sept. 4, 5.

Period of record: Maximum discharge, 15,300 ft^3/s (433 m^3/s) Oct. 2, 1929 (gage height, 18.40 ft or 5.608 m, site then in use), from rating curve extended above 2,300 ft^3/s (65.1 m^3/s) on basis of computation of peak flow over dam at Henry River, at gage height 29.2 ft (8.90 m); minimum, 3 ft^3/s (0.085 m^3/s) Dec. 20, 1942; minimum daily, 4 ft^3/s (0.11 m^3/s) Nov. 15, Dec. 20, 1942.

Maximum stage known, 29.2 ft (8.90 m) Aug. 13, 1940 at former site, from floodmarks (discharge, 31,300 ft^3/s or 586 m^3/s). The flood of July 16, 1916 reached a stage of about 23 ft (7.0 m) at former site (discharge, 20,700 ft^3/s or 586 m^3/s).

REMARKS.--Records good. The mill above the station which in previous years has caused diurnal fluctuation and some regulation was inactive except Sept. 22, 1975. An average of about 2.0 ft^3/s (0.057 m^3/s) was diverted for water supply by town of Morganton and wasted into Catawba River.

REVISIONS (WATER YEARS).--WSP 952: 1928, 1930.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	70	346	98	117	163	368	152	748	124	92	63
2	85	68	194	91	123	154	311	157	347	120	90	62
3	79	68	140	88	120	142	300	210	238	117	95	60
4	78	68	126	104	154	136	262	224	199	127	85	58
5	78	68	116	95	286	132	247	168	185	126	88	58
6	77	70	108	94	299	130	235	152	184	183	93	77
7	76	66	107	94	350	132	227	146	165	135	94	91
8	75	66	162	95	241	139	220	142	152	125	89	93
9	75	66	164	107	194	124	213	143	145	119	84	74
10	75	66	132	104	170	125	211	188	201	121	83	67
11	73	66	113	431	157	125	206	167	238	126	83	181
12	71	84	105	376	165	143	200	147	496	141	79	116
13	72	71	100	680	161	2,040	190	149	392	116	76	92
14	71	71	97	309	146	5,370	188	135	235	119	74	73
15	71	93	104	198	136	877	196	353	192	129	73	68
16	92	73	214	160	168	457	183	611	177	129	70	67
17	91	68	169	138	202	435	180	274	164	115	68	80
18	76	84	131	126	195	353	176	596	153	113	106	260
19	79	93	114	122	183	1,210	175	391	191	109	80	179
20	75	169	106	143	161	547	169	250	178	120	77	118
21	73	133	100	141	146	367	163	200	176	120	72	104
22	73	95	94	126	136	319	161	177	154	104	73	77
23	73	83	88	120	176	285	159	179	146	105	70	257
24	73	77	86	117	643	465	161	161	140	204	84	521
25	73	77	103	319	429	504	167	150	135	149	69	196
26	72	75	98	319	245	333	162	163	134	112	66	130
27	71	71	90	194	198	276	153	177	131	104	63	107
28	70	70	111	156	176	257	152	148	128	101	72	95
29	70	68	116	141	------	256	151	144	130	96	70	89
30	70	109	110	130	------	1,520	154	1,060	137	95	64	86
31	70	------	103	122	------	544	------	290	------	93	62	------
TOTAL	2,346	2,406	3,947	5,538	5,877	18,062	6,040	7,604	6,391	3,797	2,444	3,599
MEAN	75.7	80.2	127	179	210	583	201	245	213	122	78.8	120
MAX	92	169	346	680	643	5,370	368	1,060	748	204	106	521
MIN	70	66	86	88	117	124	151	135	128	93	62	58
CFSM	.95	1.00	1.59	2.24	2.63	7.29	2.51	3.06	2.66	1.53	.99	1.50
IN.	1.09	1.12	1.84	2.58	2.73	8.40	2.81	3.54	2.97	1.77	1.14	1.67

CAL YR 1974 TOTAL 55,373 MEAN 152 MAX 1,130 MIN 66 CFSM 1.90 IN 25.75
WTR YR 1975 TOTAL 68,051 MEAN 186 MAX 5,370 MIN 58 CFSM 2.33 IN 31.64

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-13	1130	7.98	3,340	3-14	1230	14.60	8,600

02143040 Jacob Fork at Ramsey, N. C.

LOCATION.--Lat 35°35'26", long 81°34'02", Burke County, on left bank 16 ft (5 m) downstream from bridge on Secondary Road 1924, 0.6 mi (1.0 km) downstream from Queens Creek, and 0.6 mi (1.0 km) north of Ramsey.

DRAINAGE AREA.--25.4 mi^2 (65.8 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1960-61. October 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,103.00 ft (336.194 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 50.0 ft^3/s (1.416 m^3/s), 26.73 in/yr (679 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,830 ft^3/s (80.1 m^3/s) Mar. 14 (gage height, 12.70 ft or 3.871 m); minimum, 13 ft^3/s (0.37 m^3/s) Sept. 5 (gage height, 1.87 ft or 0.570 m)
Period of record: Maximum discharge, 4,520 ft^3/s (128 m^3/s) Aug. 9, 1970 (gage height, 16.92 ft or 5.157 m); minimum, 7.3 ft^3/s (0.21 m^3/s) July 28, 29, 1966 (gage height, 1.67 ft or 0.509 m).
Flood of August 1940 reached a stage of about 39 ft (11.9 m), from information by local resident. Flood of July 1916 reached a stage of about 19 ft (5.8 m), from information by North Carolina State Highway Commission.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	17	98	31	38	53	126	46	269	36	24	18
2	25	18	53	28	40	50	107	46	101	35	23	17
3	23	17	39	28	39	45	108	79	70	33	23	16
4	24	17	35	35	51	42	94	87	57	35	22	15
5	24	20	32	31	75	41	89	58	57	35	22	15
6	23	19	30	31	100	40	85	49	57	40	23	17
7	23	18	32	30	120	44	79	47	50	37	26	23
8	22	18	51	31	78	45	76	45	46	34	23	23
9	22	18	54	34	63	40	73	47	43	33	22	19
10	22	18	38	35	55	41	73	64	64	32	22	18
11	22	18	32	162	52	40	71	56	75	42	22	59
12	21	25	30	129	66	52	67	51	192	37	21	33
13	22	19	29	240	62	620	64	54	142	32	20	25
14	22	20	27	98	51	1,350	64	48	77	35	19	20
15	23	25	33	64	45	232	66	211	61	40	19	18
16	29	20	71	51	63	125	62	290	56	36	19	18
17	24	19	52	43	90	124	59	97	50	32	21	26
18	20	27	39	39	84	107	57	187	49	30	23	120
19	22	31	33	38	71	355	54	121	68	29	20	54
20	20	65	31	48	59	147	52	82	53	34	19	31
21	19	42	29	45	51	101	50	67	74	30	18	24
22	19	29	27	41	47	91	49	57	52	28	17	27
23	19	25	25	40	68	82	49	52	46	28	18	116
24	19	24	25	39	293	173	49	48	43	29	17	235
25	19	24	32	173	137	168	50	45	41	29	17	56
26	19	23	28	123	79	108	47	44	40	27	16	37
27	19	22	27	69	64	83	45	47	39	27	18	30
28	18	21	39	54	57	76	44	42	38	26	29	26
29	18	21	41	48	------	80	45	44	38	25	19	24
30	18	41	37	43	------	726	46	255	43	24	18	23
31	18	------	33	39	------	203	------	81	------	24	17	------
TOTAL	666	721	1,182	1,940	2,098	5,476	2,000	2,547	2,091	994	637	1,183
MEAN	21.5	24.0	38.1	62.6	74.9	177	66.7	82.2	69.7	32.1	20.5	39.4
MAX	29	65	98	240	293	1,350	126	290	269	42	29	235
MIN	18	17	25	28	38	40	44	42	38	24	16	15
CFSM	.85	.94	1.50	2.46	2.95	6.97	2.63	3.24	2.74	1.26	.81	1.55
IN.	.98	1.06	1.73	2.84	3.07	8.02	2.93	3.73	3.06	1.46	.93	1.73

CAL YR 1974 TOTAL 18,513 MEAN 50.7 MAX 360 MIN 17 CFSM 2.00 IN 27.11
WTR YR 1975 TOTAL 21,535 MEAN 59.0 MAX 1,350 MIN 15 CFSM 2.32 IN 31.54

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-13	1200	6.77	1,060	3-30	0700	8.69	1,560
3-14	1030	12.70	2,830	5-15	2130	5.38	715

02143500 Indian Creek near Laboratory, N. C.

LOCATION.--Lat 35°25'20", long 81°15'52", Lincoln County, on left bank 250 ft (76 m) upstream from remains of Rudisill Mill dam, 0.5 mi (0.8 km) upstream from bridge on Secondary Road 1252, 1.5 mi (2.4 km) upstream from mouth, 1.5 mi (2.4 km) south of Laboratory, and 3.5 mi (5.6 km) south of Lincolnton.

DRAINAGE AREA.--68.4 mi^2 (177.2 km^2).

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

GAGE.--Water-stage recorder. Altitude of gage is 736 ft or 224 m (by barometer).

AVERAGE DISCHARGE.--24 years, 92.4 ft^3/s (2.617 m^3/s), 18.34 in/yr (466 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,640 ft^3/s (74.8 m^3/s) Mar. 14 (gage height, 6.04 ft or 1.841 m); minimum, 31 ft^3/s (0.88 m^3/s) Oct. 12 (gage height, 0.91 ft or 0.277 m).
Period of record: Maximum discharge, 8,450 ft^3/s (239 m^3/s) Aug. 10, 1970 (gage height, 10.61 ft or 3.234 m); minimum, 4.6 ft^3/s (0.13 m^3/s) Oct. 8, 1954.
Peak discharge of flood in October 1929 was 9,920 ft^3/s (281 m^3/s); flood in July 1916, 7,840 ft^3/s (222 m^3/s); flood in August 1940, 6,000 ft^3/s (170 m^3/s). Discharge based on computation of peak flow over dam 1 mi (2 km) downstream, using floodmarks and information by local resident.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WRD N. C. 1971: 1970(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	36	594	77	79	93	170	185	992	61	58	40
2	36	36	171	67	84	94	144	156	273	59	56	39
3	34	36	104	65	88	82	163	404	175	57	53	36
4	35	36	81	88	124	79	129	394	140	70	52	35
5	36	37	70	74	347	77	118	172	120	91	50	37
6	36	37	64	85	293	74	111	130	108	109	67	56
7	34	36	64	91	195	77	107	112	96	146	60	63
8	34	35	86	89	137	85	103	102	87	88	54	45
9	35	35	66	109	116	72	100	96	82	76	52	43
10	34	35	60	90	102	73	101	222	104	221	49	49
11	34	35	58	839	95	74	97	155	158	98	50	54
12	33	43	58	319	108	87	101	118	245	247	56	70
13	33	39	56	552	94	1,150	90	167	211	94	65	45
14	33	37	54	222	86	2,520	89	105	125	113	46	42
15	33	47	65	152	83	881	104	214	104	143	44	41
16	38	39	164	122	105	244	92	458	107	112	42	47
17	39	38	98	102	146	254	88	167	94	86	42	74
18	35	50	78	92	119	189	87	247	86	77	53	74
19	36	54	70	87	116	686	87	169	100	70	45	54
20	36	134	68	132	98	263	83	130	108	66	43	48
21	35	87	68	123	90	181	80	109	112	66	40	51
22	35	55	62	98	85	152	80	97	86	61	39	89
23	36	48	59	90	155	137	78	148	78	59	39	78
24	36	46	58	87	392	306	77	132	72	73	38	60
25	35	46	74	303	231	293	78	94	69	234	36	54
26	35	45	68	208	142	163	77	86	68	118	38	48
27	35	42	61	131	114	137	72	91	67	77	71	46
28	36	42	129	108	102	125	72	97	65	71	45	46
29	36	41	108	96	------	136	121	113	63	63	41	46
30	35	82	90	89	------	567	705	1,210	62	59	39	46
31	36	------	82	83	------	238	------	686	------	68	40	------
TOTAL	1,091	1,409	2,988	4,870	3,926	9,589	3,604	6,766	4,257	3,033	1,503	1,556
MEAN	35.2	47.0	96.4	157	140	309	120	218	142	97.8	48.5	51.9
MAX	39	134	594	839	392	2,520	705	1,210	992	247	71	89
MIN	33	35	54	65	79	72	72	86	62	57	36	35
CFSM	.51	.69	1.41	2.30	2.05	4.52	1.75	3.19	2.08	1.43	.71	.76
IN.	.59	.77	1.63	2.65	2.14	5.22	1.96	3.68	2.32	1.65	.82	.85

CAL YR 1974 TOTAL 36,765 MEAN 101 MAX 1,520 MIN 32 CFSM 1.48 IN 20.00
WTR YR 1975 TOTAL 44,592 MEAN 122 MAX 2,520 MIN 33 CFSM 1.78 IN 24.25

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	1600	6.04	2,640	5-30	2300	5.44	2,050

02144000 Long Creek near Bessemer City, N. C.

LOCATION.--Lat 35°18'23", long 81°14'03", Gaston County, on right bank 700 ft (213 m) upstream from bridge on Secondary Road 1456, 2 mi (3 km) northeast of Bessemer City limits, and 8.2 mi (13.2 km) upstream from mouth.

DRAINAGE AREA.--31.4 mi^2 (81.3 km^2).

PERIOD OF RECORD.--October 1952 to current year. Monthly discharge only for some periods, published in WSP 1723.

GAGE.--Water-stage recorder. Datum of gage is 706.1 ft (215.22 m) above mean sea level.

AVERAGE DISCHARGE.--23 years, 35.8 ft^3/s (1.014 m^3/s), 15.48 in/yr (393 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,390 ft^3/s (39.4 m^3/s) May 30 (gage height, 6.04 ft or 1.841 m); minimum, 10 ft^3/s (0.28 m^3/s) Nov. 7 (gage height, 1.32 ft or 0.402 m).
Period of record: Maximum discharge, 6,500 ft^3/s (184 m^3/s) Oct. 16, 1971 (gage height, 9.10 ft or 2.774 m), from rating curve extended above 2,100 ft^3/s (59.5 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 0.4 ft^3/s (0.011 m^3/s) Oct. 7, 1954; minimum daily, 0.8 ft^3/s (0.023 m^3/s) Oct. 7, 1954.
Flood of July 1916 reached a stage of 26 ft (7.92 m) at site on left bank 1,500 ft (460 m) upstream, from information by local resident.

REMARKS.--Records good. Bessemer City diverts water supply from above gaging station and returns waste waters to South Fork Catawba River below mouth of Long Creek, causing some diurnal fluctuation; an average of 2.8 ft^3/s (0.079 m^3/s) was diverted during the year.

REVISIONS (WATER YEARS).--WSP 1723: 1959-60(M). WSP 1904: 1959-60.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	319	32	37	42	55	58	513	21	26	21
2	13	12	55	29	38	42	50	60	87	20	25	20
3	12	11	36	27	41	38	65	257	56	20	23	19
4	12	11	28	43	108	37	48	208	46	24	22	18
5	12	12	25	36	214	36	45	64	39	29	22	16
6	12	12	24	37	112	35	43	49	35	34	23	21
7	12	11	24	37	66	40	42	41	35	56	29	65
8	12	11	55	42	52	46	41	38	31	177	23	42
9	12	11	34	53	46	36	40	36	29	40	22	26
10	12	11	29	42	42	38	40	65	53	51	22	23
11	11	11	25	942	41	38	42	54	67	77	22	49
12	11	13	24	259	46	44	41	58	115	89	20	37
13	12	12	24	271	40	726	37	70	74	39	20	35
14	12	12	22	92	36	863	37	42	44	44	20	24
15	11	15	36	62	35	122	41	143	38	145	18	22
16	14	12	94	51	54	85	37	113	38	73	17	21
17	14	12	44	43	54	125	36	56	33	46	18	34
18	13	15	34	40	46	73	35	70	30	37	24	58
19	12	17	30	38	63	210	35	61	30	32	19	39
20	12	63	29	79	47	84	33	48	30	32	18	31
21	12	28	31	57	41	61	32	40	27	35	17	27
22	12	19	27	45	38	59	32	37	26	29	16	120
23	12	16	26	41	80	54	31	38	25	31	15	145
24	12	15	24	40	189	109	31	37	24	74	15	67
25	12	15	28	176	77	80	31	31	23	543	14	40
26	12	14	26	72	54	55	30	29	27	70	15	33
27	12	14	24	51	48	49	28	29	27	45	174	29
28	12	14	54	45	45	47	29	29	23	38	263	26
29	12	13	44	43	------	61	31	37	22	35	36	25
30	12	73	38	41	------	93	52	769	22	29	26	24
31	12	------	34	38	------	59	------	99	------	28	22	------
TOTAL	376	517	1,347	2,904	1,790	3,487	1,170	2,766	1,669	2,043	1,046	1,157
MEAN	12.1	17.2	43.5	93.7	63.9	112	39.0	89.2	55.6	65.9	33.7	38.6
MAX	14	73	319	942	214	863	65	769	513	543	263	145
MIN	11	11	22	27	35	35	28	29	22	20	14	16
CFSM	.39	.55	1.39	2.98	2.04	3.57	1.24	2.84	1.77	2.10	1.07	1.23
IN.	.45	.61	1.60	3.44	2.12	4.13	1.39	3.28	1.98	2.42	1.24	1.37

CAL YR 1974 TOTAL 14,979 MEAN 41.0 MAX 703 MIN 11 CFSM 1.31 IN 17.75
WTR YR 1975 TOTAL 20,272 MEAN 55.5 MAX 942 MIN 11 CFSM 1.77 IN 24.02

PEAK DISCHARGE (BASE, 800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0700	6.01	1,380	6- 1	0700	5.47	1,080
3-14	0130	5.74	1,230	7-25	0200	5.82	1,270
5-30	0730	6.04	1,390	8-27	2300	5.77	1,240

02146300 Irwin Creek near Charlotte, N. C.

LOCATION.--Lat 35°11'51", long 80°54'10", Mecklenburg County, on left bank at sewage-disposal plant of city of Charlotte, 2,200 ft (671 m) upstream from Southern Railway bridge, 0.7 mi (1.1 km) upstream from Taggart Creek, 4.2 mi (6.8 km) southwest of city hall, Charlotte.

DRAINAGE AREA.--30.5 mi^2 (79.0 km^2).

PERIOD OF RECORD.--May 1962 to current year. Prior to October 1963, published as Sugar (Irwin) Creek at Charlotte.

GAGE.--Water-stage recorder. Datum of gage is 591.53 ft (180.298 m) above mean sea level (city of Charlotte bench mark).

AVERAGE DISCHARGE.--13 years, 43.4 ft^3/s (1.23 m^3/s), 19.31 in/yr (490 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,880 ft^3/s (251 m^3/s) May 30 (gage height, 18.04 ft or 5.499 m); minimum daily, 6.8 ft^3/s (0.193 m^3/s) Aug. 25.
Period of record: Maximum discharge, 8,880 ft^3/s (251 m^3/s) May 30, 1975 (gage height, 18.04 ft or 5.499 m); minimum, 3.9 ft^3/s (0.110 m^3/s) Aug. 7, 8, 1966.

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	12	387	25	24	27	46	62	105	14	23	16
2	14	11	43	21	42	25	33	38	50	14	15	276
3	11	11	25	20	54	22	85	603	37	13	12	22
4	11	13	23	102	414	22	34	500	30	22	12	18
5	10	13	25	30	215	22	29	58	26	13	10	14
6	9.6	11	28	64	88	23	27	40	25	29	129	154
7	9.9	11	111	34	47	161	27	31	57	24	28	508
8	10	10	174	172	34	51	26	28	26	14	13	62
9	12	9.7	36	81	31	33	26	37	24	18	11	22
10	12	11	26	52	25	35	25	31	37	135	11	16
11	13	10	23	1,000	27	83	107	26	48	35	11	21
12	12	17	29	295	46	146	67	43	71	122	10	22
13	11	12	22	247	26	1,300	28	29	24	87	9.0	14
14	12	16	19	72	24	636	28	22	18	140	8.6	14
15	12	26	106	46	22	94	49	277	106	713	8.0	14
16	43	11	197	37	38	119	26	208	44	77	8.0	15
17	13	10	33	31	44	101	25	65	24	36	9.3	15
18	11	47	27	28	58	54	24	795	22	24	60	29
19	15	61	23	27	94	250	22	74	24	16	20	14
20	10	22	37	176	34	83	21	46	22	12	9.4	10
21	11	29	31	49	27	44	21	36	18	14	9.0	12
22	11	20	20	33	24	51	20	28	16	12	7.7	965
23	11	19	20	29	47	37	20	34	16	11	7.4	1,480
24	11	17	20	41	104	171	22	23	16	26	7.2	103
25	11	26	34	388	37	69	20	20	22	650	6.8	52
26	11	18	17	69	29	40	19	114	20	30	8.1	40
27	9.6	16	16	43	26	33	18	67	16	25	566	32
28	11	14	120	35	25	29	19	52	14	22	615	28
29	13	14	35	32	------	36	18	31	14	18	30	25
30	13	201	26	29	------	173	27	2,600	16	18	20	26
31	13	------	33	26	------	46	------	94	------	23	14	------
TOTAL	390.1	925.7	1,805	3,334	1,709	4,099	959	6,312	988	2,407	1,709.0	4,042
MEAN	12.6	30.9	58.2	108	61.0	132	32.0	204	32.9	77.6	55.1	135
MAX	43	229	387	1,000	414	1,300	107	2,600	106	713	615	1,480
MIN	9.6	9.7	16	20	22	22	18	20	14	11	6.8	10
CFSM	.41	1.01	1.91	3.54	2.00	4.33	1.05	6.69	1.08	2.54	1.81	4.43
IN.	.48	1.13	2.20	4.07	2.08	5.00	1.17	7.70	1.21	2.94	2.08	4.93

CAL YR 1974 TOTAL 18,973.8 MEAN 52.0 MAX 1,330 MIN 8.2 CFSM 1.70 IN 23.14
WTR YR 1975 TOTAL 28,679.8 MEAN 78.6 MAX 2,600 MIN 6.8 CFSM 2.58 IN 34.98

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 1	0115	9.38	1,830	5-30	1045	18.04	8,880
1-11	0530	12.98	3,520	7-15	1515	12.68	3,310
2- 4	1945	7.89	1,350	7-25	0230	13.63	3,980
3-13	0945	11.01	2,480	8-27	2400	14.95	5,130
5- 3	2400	12.64	3,280	9- 2	0230	9.47	1,870
5-15	1945	7.84	1,330	9- 6	2400	9.29	1,800
5-18	0700	13.11	3,610	9-23	0045	16.29	6,630

02146500 Little Sugar Creek near Charlotte, N. C.

LOCATION.--Lat 35°09'13", long 80°51'18", Mecklenburg County, on right bank 10 ft (3 m) upstream from bridge on Tyvola Road at sewage-disposal plant of city of Charlotte, 1,500 ft (457 m) downstream from Briar Creek, and 4.8 mi (7.7 km) south of city hall, Charlotte.

DRAINAGE AREA.--41.0 mi^2 (106 km^2).

PERIOD OF RECORD.--July 1924 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 568.58 ft (173.303 m) above mean sea level (city of Charlotte bench mark). Prior to Apr. 26, 1927, nonrecording gage and Apr. 26, 1927 to Sept. 30, 1958, water-stage recorder at site 1,000 ft (305 m) upstream at datum 2.7 ft (0.82 m) higher.

AVERAGE DISCHARGE.--51 years, 47.1 ft^3/s (1.334 m^3/s), 15.61 in/yr (396 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,800 ft^3/s (221 m^3/s) Sept. 23 (gage height, 17.3 ft or 5.273 m from floodmarks); minimum daily, 6.7 ft^3/s or 0.190 m^3/s Nov. 8
Period of record: Maximum discharge, 8,440 ft^3/s (239 m^3/s) June 15, 1973 (gage height, 17.6 ft or 5.36 m in gage well, 18.2 ft or 5.55 m from floodmarks), from rating curve extended above 3,400 ft^3/s (96.3 m^3/s) on basis of slope-area measurement at gage height, 13.10 ft or 3.993 m and step backwater method at gage heights 17.52 ft or 5.340 m, 19.02 ft or 5.797 m, and 21.52 ft or 6.559 m; minimum, 1.2 ft^3/s (0.034 m^3/s) Sept. 27, 1954.

REMARKS.--Records good. At times small amounts of cooling and wash water, diverted into the basin from Catawba River through city of Charlotte storm sewers. Since 1911 the creek channel has been dredged and improved.

REVISIONS (WATER YEARS).--WSP 1052: 1939-44. WSP 1503: 1924-27(M), 1928-30, 1931(M), 1932-34. WSP 1723: Drainage area. WSP 1904: 1959-61.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	7.2	484	26	25	28	55	127	174	9.8	16	17
2	10	7.2	34	20	56	36	35	54	47	9.4	16	366
3	9.1	6.9	21	18	67	21	136	1,180	29	9.1	14	19
4	9.3	6.9	18	140	566	21	33	506	24	14	13	14
5	9.2	7.6	15	32	257	21	29	54	22	13	13	12
6	9.0	7.7	14	76	83	20	26	36	23	91	133	246
7	8.7	6.9	154	33	47	222	25	28	88	84	65	775
8	8.2	6.7	218	244	36	69	25	25	20	16	17	73
9	8.1	7.0	31	87	31	34	24	37	18	93	15	27
10	8.2	7.0	23	62	28	67	23	35	38	165	19	20
11	7.9	6.8	20	1,530	27	79	109	30	69	64	18	26
12	7.6	12	26	396	63	159	78	44	136	45	13	48
13	7.4	7.7	19	258	30	1,570	26	31	39	30	12	29
14	7.2	10	17	60	26	797	30	19	21	241	11	15
15	7.2	33	122	41	24	87	78	442	50	570	10	14
16	53	8.3	205	33	48	114	26	132	32	60	10	13
17	12	7.9	33	29	45	126	23	150	18	40	41	14
18	8.0	54	23	27	73	60	22	1,330	17	30	66	46
19	14	78	21	25	119	283	21	68	31	20	28	25
20	8.3	295	47	275	35	56	20	41	20	25	12	14
21	7.2	27	43	53	30	41	19	33	18	20	11	13
22	7.5	14	22	34	26	83	19	28	13	15	9.7	773
23	7.5	11	19	30	57	42	18	94	14	12	9.5	1,800
24	7.4	9.5	19	73	105	195	18	35	12	27	9.3	83
25	7.2	16	46	753	36	65	18	24	13	600	8.9	35
26	7.4	16	22	70	27	36	18	78	14	34	8.6	27
27	7.8	9.5	19	40	24	31	16	44	12	26	471	22
28	7.0	9.0	163	36	24	29	17	222	11	24	631	19
29	7.1	8.6	40	36	------	123	24	47	11	21	20	17
30	7.1	167	27	30	------	256	30	1,170	10	17	14	17
31	7.2	------	31	27	------	46	------	53	------	18	12	------
TOTAL	303.8	871.4	1,996	4,594	2,015	4,817	1,041	6,197	1,044	2,443.3	1,747.0	4,619
MEAN	9.80	29.0	64.4	148	72.0	155	34.7	200	34.8	78.8	56.4	154
MAX	53	295	484	1,530	566	1,570	136	1,330	174	600	631	1,800
MIN	7.0	6.7	14	18	24	20	16	19	10	9.1	8.6	12
CFSM	.24	.71	1.57	3.61	1.76	3.78	.85	4.88	.85	1.92	1.38	3.76
IN.	.28	.79	1.81	4.17	1.83	4.37	.94	5.62	.95	2.22	1.59	4.19

CAL YR 1974 TOTAL 19,029.5 MEAN 52.1 MAX 713 MIN 6.2 CFSM 1.27 IN 17.27
WTR YR 1975 TOTAL 31,688.5 MEAN 86.8 MAX 1,800 MIN 6.7 CFSM 2.12 IN 28.75

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 1	0200	9.10	2,200	7-15	1515	10.45	3,040
1-11	0515	14.45	5,640	7-25	0230	11.95	4,020
3-13	1000	10.76	3,240	8-27	2200	11.74	3,880
5- 3	2300	11.65	3,820	9- 2	0215	9.22	2,270
5-18	0615	13.77	5,200	9-23	0015	17.3	7,800
5-30	0745	11.60	3,790				

02146600 McAlpine Creek at Sardis Road near Charlotte, N. C.

LOCATION.--Lat 35°08'13", long 80°46'06", Mecklenburg County, near left bank on downstream end of bridge pier at Sardis Road (Secondary Road 3356), 1.7 mi (2.7 km) downstream from Irvins Creek, and 7 mi (11 km) southeast of city hall, Charlotte.

DRAINAGE AREA.--38.3 mi^2 (99.2 km^2).

PERIOD OF RECORD.--April 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 553.39 ft (168.673 m) above mean sea level (city of Charlotte bench mark).

AVERAGE DISCHARGE.--13 years, 38.1 ft^3/s (1.08 m^3/s), 13.52 in/yr (343 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,190 ft^3/s (119 m^3/s) May 18 (gage height, 14.17 ft or 4.319 m); minimum, 3.5 ft^3/s (0.099 m^3/s) Aug. 27 (gage height, 1.02 ft or 0.311 m).
Period of record: Maximum discharge, 4,190 ft^3/s (119 m^3/s) May 18, 1975 (gage height, 14.17 ft or 4.319 m); minimum, no flow Nov. 15, 1972, result of upstream construction.

REMARKS.--Records good. Diurnal fluctuation at low flow probably caused by two small sewage treatment plants diverting water into the basin from the Catawba River (city water supply). Creek channel improved by dredging in 1917 and maintained by the Mecklenburg County Drainage Commission to present time. This drainage basin is adjacent to the city of Charlotte. The drainage basin is urban and has an impervious area of about 10 percent, expected development by 1995 is 22 percent.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	5.2	663	22	23	24	53	157	391	7.8	8.0	6.4
2	7.8	5.5	45	18	33	32	41	70	64	7.2	8.2	84
3	7.0	5.1	23	16	46	22	137	1,020	34	7.3	7.3	13
4	7.0	5.1	17	103	471	20	44	757	25	7.5	6.8	8.7
5	5.8	4.8	14	44	410	20	33	73	21	7.4	6.2	7.2
6	5.8	4.6	12	56	138	20	29	40	19	22	18	21
7	5.8	4.5	88	40	59	89	27	30	24	29	56	290
8	5.7	4.3	314	260	40	79	26	26	16	11	12	54
9	5.7	4.5	49	150	36	33	25	25	15	29	8.8	20
10	5.8	4.5	26	63	30	44	25	25	15	25	109	14
11	5.5	4.4	20	1,220	28	73	36	23	27	13	44	13
12	4.9	6.2	24	307	40	103	43	24	40	15	14	64
13	5.0	5.2	19	292	29	1,730	26	24	27	26	11	53
14	4.9	4.8	16	84	25	1,120	25	19	17	86	8.6	16
15	5.6	9.3	43	47	23	130	93	322	39	432	8.0	11
16	9.7	5.3	219	36	34	91	35	217	27	143	7.2	10
17	7.2	5.0	43	29	41	135	27	107	16	44	6.8	9.7
18	5.8	17	25	24	54	65	24	1,570	66	27	7.4	26
19	5.7	22	20	24	124	232	22	108	41	19	8.3	40
20	5.1	212	28	259	44	72	20	49	17	16	6.8	15
21	5.0	26	44	87	31	46	18	34	15	15	6.1	12
22	4.8	13	23	41	26	61	18	26	12	13	5.7	81
23	5.3	9.7	18	32	76	47	17	118	12	12	5.3	1,470
24	4.9	8.6	17	42	93	99	17	60	10	20	5.2	202
25	4.9	10	27	1,230	47	74	17	29	10	67	5.2	46
26	4.9	9.8	19	129	31	38	16	35	20	16	5.0	29
27	5.0	8.4	16	54	26	32	15	36	12	12	20	22
28	4.9	7.8	92	40	24	30	15	60	10	11	39	18
29	4.9	7.4	43	34	------	83	35	42	8.9	10	8.0	16
30	5.0	66	29	28	------	287	39	187	8.3	9.4	6.1	15
31	5.2	------	24	25	------	76	------	53	------	8.3	5.5	------
TOTAL	179.7	506.0	2,060	4,836	2,082	5,007	998	5,366	1,059.2	1,167.9	473.5	2,687.0
MEAN	5.80	16.9	66.5	156	74.4	162	33.3	173	35.3	37.7	15.3	89.6
MAX	9.7	212	663	1,230	471	1,730	137	1,570	391	432	109	1,470
MIN	4.8	4.3	12	16	23	20	15	19	8.3	7.2	5.0	6.4
CFSM	.15	.44	1.74	4.07	1.94	4.23	.87	4.52	.92	.98	.40	2.34
IN.	.17	.49	2.00	4.70	2.02	4.86	.97	5.21	1.03	1.13	.46	2.61

CAL YR 1974 TOTAL 14,451.7 MEAN 39.6 MAX 663 MIN 3.9 CFSM 1.03 IN 14.04
WTR YR 1975 TOTAL 26,422.3 MEAN 72.4 MAX 1,730 MIN 4.3 CFSM 1.89 IN 25.66

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 1	0315	11.09	2,040	5- 3	2145	12.15	2,580
1-11	0745	13.23	3,190	5-15	2015	9.94	1,580
1-25	0845	11.36	2,180	5-18	1130	14.17	4,190
2- 4	2200	10.49	1,800	7-15	1700	10.01	1,600
3-13	1430	12.93	3,010	9-23	2015	12.45	2,720

02146700 McMullen Creek at Sharon View Road near Charlotte, N. C.

LOCATION.--Lat 35°08'26", long 80°49'12", Mecklenburg County, on left downstream side of culvert wingwall at Sharon View Road (Secondary Road 3673), 3.3 mi (5.3 km) south of Queens College, Charlotte, and 6.9 mi 11.1 km) upstream from mouth. Prior to Dec. 30, 1971, at site 154 ft (47 m) downstream.

DRAINAGE AREA.--6.98 mi^2 (18.08 km^2).

PERIOD OF RECORD.--April 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 592.91 ft (180.719 m) above mean sea level (city of Charlotte bench mark). Prior to Oct. 13, 1970, at site 73 ft (22.2 m) upstream at same datum. Oct. 13, 1970 to Dec. 30, 1971 at site 154 ft (47 m) downstream at datum 2.00 ft (0.610 m) lower.

AVERAGE DISCHARGE.--13 years, 7.25 ft^3/s (0.205 m^3/s), 14.11 in/yr (358 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,630 ft^3/s (46.2 m^3/s) Sept. 23 (gage height, 9.19 ft or 2.801 m); minimum, 0.17 ft^3/s (0.005 m^3/s) Aug. 25, 26 (gage height, 0.72 ft or 0.219 m).
Period of record: Maximum discharge, 1,630 ft^3/s (46.16 m^3/s) Sept. 23, 1975 (gage height, 9.19 ft or 2.801 m); no flow Aug. 31, Sept. 1, 2, 1962, Sept. 19-23, 1963, Sept. 3, 4, Oct. 5, 1968, Oct. 8, 27, 28, 1970, Mar. 28, 1973.
Flood of Jan. 6, 1962 reached a stage of 7.5 ft (2.29 m), former site and datum, from floodmarks (discharge, 1,040 ft^3/s or 29.5 m^3/s).

REMARKS.--Records good. Occasional temporary and slight fluctuation during low flow from city of Charlotte sewage pump station and a small sewage treatment plant diverting water into the basin from Catawba River (city water supply). Creek channel improved by dredging in 1928. This drainage basin drains the eastern part of the city of Charlotte. In 1962 it had an impervious area of 6.3 percent and has increased somewhat since then.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	.52	114	3.2	2.5	3.9	8.2	62	32	.98	1.2	1.1
2	1.3	.35	6.8	2.4	5.7	5.2	7.8	13	2.9	.95	1.2	23
3	.56	.42	3.8	2.2	10	2.3	30	344	2.0	1.2	1.1	1.1
4	.47	.62	2.3	32	127	2.2	4.8	108	1.8	.97	1.0	.68
5	.46	.51	2.0	5.2	48	2.2	3.6	4.7	1.6	.96	.99	.52
6	.44	.52	1.9	13	14	2.2	3.2	3.0	1.5	16	6.0	7.5
7	.37	.52	36	4.9	5.7	37	2.9	2.6	1.8	5.8	2.0	75
8	.36	.54	45	71	3.9	9.3	2.8	1.9	1.1	1.2	1.0	4.7
9	.34	.50	4.1	18	3.4	3.4	2.6	4.0	1.1	47	.86	1.4
10	.35	.55	2.5	16	2.9	13	2.6	2.8	6.0	8.3	3.1	1.0
11	.38	.50	2.2	273	2.8	16	9.1	2.5	3.6	3.0	1.2	2.6
12	.34	1.1	4.8	67	8.0	41	8.6	4.5	15	2.0	1.0	3.0
13	.33	.62	2.3	49	2.9	352	2.7	3.0	2.5	1.9	.82	3.3
14	.32	.65	1.9	8.6	2.5	133	4.0	2.5	1.7	35	.76	.96
15	.31	2.9	27	4.8	2.4	12	16	45	9.0	145	.72	.72
16	4.8	.37	38	3.7	8.5	26	3.2	25	2.5	10	.66	.78
17	.81	.27	4.7	3.0	5.3	21	2.6	50	2.0	6.0	.74	.82
18	.38	7.1	3.1	2.8	15	10	2.4	190	1.4	2.5	1.4	5.5
19	.69	14	2.5	2.9	21	57	2.2	15	19	2.0	4.5	6.3
20	.46	73	9.9	61	4.4	7.8	2.2	3.6	1.5	3.1	1.4	1.1
21	.29	2.9	6.9	8.4	3.2	4.9	2.1	3.0	1.2	1.6	.79	.76
22	.32	1.3	3.0	4.4	2.8	13	2.0	2.4	1.1	1.3	.66	137
23	.38	.93	2.6	3.5	11	5.3	1.8	11	1.2	1.4	.60	300
24	.42	.81	2.6	17	17	43	1.8	3.3	1.0	42	.57	10
25	.42	1.6	7.4	221	4.6	11	1.8	2.2	.98	2.2	.82	2.7
26	.39	1.3	2.7	13	3.1	4.4	1.7	6.1	9.4	1.7	.48	1.8
27	.35	.72	2.2	5.7	2.8	3.5	1.6	1.9	1.5	1.5	2.0	1.3
28	.33	.70	32	4.1	2.6	3.2	1.6	21	1.1	1.4	12	1.0
29	.28	.60	6.9	3.5	------	26	17	5.0	1.0	1.2	.94	.85
30	.28	37	4.3	3.0	------	72	5.5	23	.96	1.4	.62	.84
31	.30	------	4.4	2.7	------	7.3	------	3.0	------	1.8	.52	------
TOTAL	18.11	153.42	389.8	930.0	343.0	950.1	158.4	969.0	129.44	351.36	51.65	597.33
MEAN	.58	5.11	12.6	30.0	12.3	30.6	5.28	31.3	4.31	11.3	1.67	19.9
MAX	4.8	73	114	273	127	352	30	344	32	145	12	300
MIN	.28	.27	1.9	2.2	2.4	2.2	1.6	1.9	.96	.95	.48	.52
CFSM	.08	.73	1.81	4.30	1.76	4.38	.76	4.48	.62	1.62	.24	2.85
IN.	.10	.82	2.08	4.96	1.83	5.06	.84	5.16	.69	1.87	.28	3.18

CAL YR 1974 TOTAL 3,190.33 MEAN 8.74 MAX 165 MIN .26 CFSM 1.25 IN 17.00
WTR YR 1975 TOTAL 5,041.61 MEAN 13.8 MAX 352 MIN .26 CFSM 1.98 IN 26.87

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 1	0115	5.12	642	5- 3	1700	6.69	923
1-11	0445	7.29	1,080	5-18	Unknown	6.60	902
1-25	0630	4.49	528	7-15	1030	5.23	661
3-13	1215	6.10	817	9-23	0115	9.19	1,630

02146750 McAlpine Creek below McMullen Creek near Pineville, N. C.

LOCATION.--Lat 35°03'59", long 80°52'12", Mecklenburg County, on right bank at waste treatment plant of Charlotte, 150 ft (46 m) downstream from McMullen Creek, and 2.1 mi (3.4 km) south of Pineville.

DRAINAGE AREA.--92.4 mi^2 (239.3 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 517.29 ft (157.670 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 5,960 ft^3/s (169 m^3/s) May 4 (gage height, 10.68 ft or 3.255 m); minimum, 10 ft^3/s (0.283 m^3/s) Aug. 27 (gage height, 1.10 ft or 0.335 m).
Period of record: Maximum discharge, 5,960 ft^3/s (169 m^3/s) May 4, 1975 (gage height, 10.68 ft or 3.255 m); minimum, 5.7 ft^3/s (0.161 m^3/s) Aug. 1, 2, 1974 (gage height, 0.93 ft or 0.284 m).
Maximum stage known since at least 1964, about 12.9 ft or 3.93 m (discharge, 9,010 ft^3/s or 255 m^3/s, on basis of step backwater rating) Apr. 1, 1973, from information by plant operator.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	12	1,420	60	55	57	134	296	887	16	24	15
2	18	12	228	50	63	76	94	260	300	15	21	218
3	16	12	71	44	97	54	471	1,000	78	14	19	44
4	15	12	48	225	509	49	131	4,170	56	14	18	25
5	15	11	38	150	1,550	47	82	383	46	14	17	22
6	14	11	34	122	582	46	69	103	40	30	17	27
7	14	11	71	122	164	78	62	70	41	50	167	541
8	13	11	861	286	99	216	58	59	31	30	36	236
9	13	11	152	835	82	71	55	56	27	50	23	51
10	13	11	70	168	72	75	53	56	27	70	30	34
11	13	11	53	2,650	64	144	71	59	40	28	151	31
12	12	12	64	1,020	79	193	89	53	48	28	31	49
13	11	14	54	1,110	66	2,600	57	63	50	37	22	137
14	11	12	44	313	56	3,690	51	43	30	128	18	36
15	11	21	61	129	51	1,010	194	177	46	636	16	25
16	18	14	677	92	68	198	86	930	43	1,030	14	22
17	22	12	140	72	90	430	62	232	32	118	13	22
18	14	32	73	63	93	156	55	1,810	55	74	16	41
19	12	80	59	59	398	656	50	1,110	191	49	25	75
20	13	200	56	500	129	221	45	123	38	40	26	38
21	11	497	128	469	81	116	41	73	33	40	14	28
22	11	252	68	119	65	116	39	56	25	30	13	107
23	11	87	52	84	128	126	39	75	23	26	12	3,330
24	12	45	46	89	203	155	37	177	21	29	12	1,630
25	11	34	56	2,010	135	259	37	55	19	1,290	12	123
26	11	26	50	981	77	91	35	115	53	84	11	69
27	12	19	40	160	64	70	32	55	42	46	25	52
28	12	26	203	101	59	64	31	90	22	36	176	41
29	12	25	127	80	------	129	32	120	18	37	25	36
30	12	63	82	68	------	731	107	310	17	39	17	34
31	12	------	65	60	------	390	------	141	------	25	14	------
TOTAL	416	1,596	5,191	12,291	5,179	12,314	2,399	12,320	2,379	4,153	1,035	7,139
MEAN	13.4	53.2	167	396	185	397	80.0	397	79.3	134	33.4	238
MAX	22	497	1,420	2,650	1,550	3,690	471	4,170	887	1,290	176	3,330
MIN	11	11	34	44	51	46	31	43	17	14	11	15
CFSM	.15	.58	1.81	4.29	2.00	4.30	.87	4.30	.86	1.45	.36	2.58
IN.	.17	.64	2.09	4.95	2.09	4.96	.97	4.96	.96	1.67	.42	2.87

WTR YR 1975 TOTAL 66,412 MEAN 182 MAX 4,170 MIN 11 CFSM 1.97 IN 26.74

PEAK DISCHARGE (BASE, 1,380 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 1	1415	6.26	1,790	5-18	2130	9.00	3,700
1-11	1745	9.15	3,880	6- 1	1700	5.54	1,470
1-25	1730	8.16	3,030	7-16	0245	6.36	1,880
2- 5	0800	6.64	2,020	7-25	0430	8.05	2,940
3-14	0015	10.31	5,410	9-23	0700	9.87	4,950
5- 4	0700	10.68	5,960				

02146800 Sugar Creek near Ft. Mill, S. C.

LOCATION.--Lat 35°00'21", long 80°54'09", York County, on right bank at downstream side of bridge on State Highway 160, 3,500 ft (1,070 m) downstream from Clems Branch, and 2.6 mi (4.2 km) east of Ft. Mill, S. C.

DRAINAGE AREA.--262 mi^2 (679 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 484.98 ft (147.822 m) above mean sea level.

EXTREMES.--Current year: Maximum discharge, 16,400 ft^3/s (464 m^3/s) Sept. 23 (gage height, 23.44 ft or 7.145 m); minimum, 90 ft^3/s (2.55 m^3/s) Nov. 10, 11 (gage height, 2.73 ft or 0.832 m); minimum daily, 94 ft^3/s (2.66 m^3/s) July 3.
Period of record: Maximum discharge, 16,400 ft^3/s (464 m^3/s) Sept. 23, 1975 (gage height, 23.44 ft or 7.145 m); minimum, 77 ft^3/s (2.18 m^3/s) Aug. 1, 1974 (gage height, 2.56 ft or 0.780 m); minimum daily, 84 ft^3/s (2.38 m^3/s) Aug. 1, 1974.

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

DISCHARGE, IN CUBIC FEET PER SECOND , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	179	108	3670	299	240	211	469	442	1420	105	184	111
2	154	108	1400	228	243	267	375	769	1020	101	170	931
3	140	104	389	202	340	200	915	1780	382	94	154	243
4	132	98	266	569	941	186	491	10000	265	96	143	139
5	129	106	220	648	4130	181	336	2150	238	109	145	156
6	123	110	200	392	1600	176	284	530	215	94	147	126
7	116	104	198	544	655	191	256	382	327	343	668	2690
8	119	103	1950	552	426	952	248	321	196	192	198	1540
9	117	102	701	2180	353	286	238	296	170	121	152	321
10	115	100	330	645	300	246	227	315	170	557	139	206
11	114	97	251	6530	272	451	334	309	340	316	269	179
12	112	106	261	4520	324	580	519	304	333	199	153	212
13	107	119	241	3400	297	5130	267	404	403	368	136	372
14	103	104	206	1290	231	10500	221	245	189	395	130	155
15	110	162	197	600	214	3530	467	493	158	1320	125	121
16	135	125	2020	446	227	773	327	2770	403	3870	120	116
17	219	102	705	367	365	1200	243	820	183	530	113	117
18	119	154	360	315	301	615	225	3330	189	335	297	169
19	111	219	272	288	1020	1670	210	4050	435	234	180	229
20	117	1240	245	1020	491	820	197	592	188	174	165	156
21	101	809	478	1280	310	460	183	389	169	165	120	115
22	106	226	295	471	249	402	182	310	139	145	114	258
23	107	173	228	352	324	509	178	274	125	141	111	11200
24	108	149	208	361	576	441	175	552	129	212	106	4960
25	107	139	227	3560	530	971	175	256	123	7260	103	748
26	107	169	251	3060	287	397	168	658	132	1590	107	402
27	104	136	187	630	239	309	157	279	195	326	103	306
28	100	129	715	420	222	274	151	361	122	232	2630	244
29	106	117	605	351	---	314	156	544	110	231	392	214
30	108	132	374	311	---	1500	264	1900	97	439	160	206
31	108	---	294	269	---	1040	---	3460	---	193	123	---
TOTAL	3733	5650	17944	36100	15707	34782	8638	39285	8585	20487	7857	26942
MEAN	120	188	579	1165	561	1122	288	1267	286	661	253	898
MAX	219	1240	3670	6530	4130	10500	915	10000	1420	7260	2630	11200
MIN	100	97	187	202	214	176	151	245	97	94	103	111
CFSM	.46	.72	2.21	4.45	2.14	4.28	1.10	4.84	1.09	2.52	.97	3.43
IN.	.53	.80	2.55	5.13	2.23	4.94	1.23	5.58	1.22	2.91	1.12	3.83

CAL YR 1974 TOTAL 142297 MEAN 390 MAX 4630 MIN 84 CFSM 1.49 IN 20.20
WTR YR 1975 TOTAL 225710 MEAN 618 MAX 11200 MIN 94 CFSM 2.36 IN 32.05

PEAK DISCHARGE (BASE, 4,750 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12- 1	1645	15.89	5,100	5- 4	1130	21.06	13,000
1-11	1945	20.93	12,900	5-18	2315	18.48	7,920
1-25	2145	16.84	6,040	5-31	0430	16.72	5,920
2- 5	1000	15.85	5,060	7-25	1430	19.67	9,910
3-14	0300	20.98	13,000	9-23	1400	23.44	16,400

02146900 Twelve Mile Creek near Waxhaw, N. C.

LOCATION.--Lat 34°57'06", long 80°45'23", Union County, on left bank 90 ft (27 m) upstream from bridge on State Highway 16, 680 ft (207 m) downstream from West Fork Twelve Mile Creek, and 2.5 mi (4.0 km) north of Waxhaw.

DRAINAGE AREA.--72.4 mi^2 (187.5 km^2).

PERIOD OF RECORD.--Occasional low flow measurements, water years 1949-60, October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 489.04 ft (149.059 m) above mean sea level. Prior to Mar. 13, 1962, water-stage recorder at site 70 ft (21 m) downstream at same datum.

AVERAGE DISCHARGE.--15 years, 67.7 ft^3/s (1.917 m^3/s), 12.70 in/yr (323 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,540 ft^3/s (100 m^3/s) Jan. 21 (gage height, 15.90 ft or 4.846 m); minimum, 1.9 ft^3/s or 0.054 m^3/s Aug. 2 (gage height, 1.40 ft or 0.427 m).
Period of record: Maximum discharge, 7,700 ft^3/s (218 m^3/s) Apr. 1, 1973 (gage height, 19.92 ft or 6.072 m); no flow Oct. 6, 1968, Oct. 7-15, 1970.
Maximum stage known since at least 1900, 23.6 ft or 7.19 m Sept. 7, 1949, from floodmarks. No flow observed on Oct. 6, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.7	2.5	413	41	47	51	111	50	683	9.6	19	7.1
2	4.8	2.5	70	34	45	63	88	77	174	15	17	100
3	4.5	2.7	31	27	56	50	354	457	71	10	15	25
4	4.0	2.6	21	91	461	42	130	868	46	10	14	14
5	3.9	2.6	17	120	1,340	40	82	134	36	9.9	13	11
6	4.0	2.8	15	60	385	38	65	66	31	9.6	13	9.3
7	3.2	2.9	18	98	151	59	58	49	27	19	24	15
8	3.2	3.0	304	264	93	213	54	43	25	95	18	20
9	3.3	3.1	73	612	73	67	50	40	23	42	15	14
10	3.1	3.4	36	128	61	57	48	40	21	19	14	11
11	3.1	3.8	26	1,160	55	117	49	37	26	15	14	11
12	2.9	3.6	23	586	54	236	77	38	28	90	13	38
13	2.7	3.7	23	959	51	2,370	56	72	40	354	12	95
14	2.5	3.6	21	267	44	2,640	47	38	25	621	10	23
15	2.2	4.0	19	119	40	804	295	137	22	745	9.4	14
16	2.1	5.0	370	86	45	192	115	252	33	107	8.8	12
17	2.1	4.5	89	64	73	284	68	155	23	138	8.5	11
18	2.6	5.5	45	56	72	136	55	801	19	119	16	39
19	2.7	9.6	31	51	488	402	48	310	20	37	21	73
20	2.2	51	28	332	159	171	43	95	20	34	12	42
21	2.3	49	107	234	82	99	39	59	18	28	9.8	18
22	2.3	18	53	92	62	87	37	44	16	23	8.8	26
23	2.5	11	33	68	84	111	35	39	15	35	8.0	714
24	2.6	8.5	27	73	253	315	34	60	14	251	7.3	399
25	2.6	7.8	27	1,600	197	433	33	36	14	67	6.8	67
26	2.5	7.7	27	598	79	124	32	71	15	35	6.3	36
27	2.4	6.5	22	135	61	81	30	40	14	26	6.3	26
28	2.5	6.8	103	89	54	70	28	50	13	23	24	21
29	2.6	6.1	96	71	------	78	28	83	12	24	15	18
30	2.4	6.6	55	61	------	550	26	202	10	22	9.5	19
31	2.5	------	41	52	------	240	------	109	------	20	7.9	------
TOTAL	91.0	250.4	2,264	8,228	4,665	10,220	2,215	4,552	1,534	3,053.1	396.4	1,928.4
MEAN	2.94	8.35	73.0	265	167	330	73.8	147	51.1	98.5	12.8	64.3
MAX	4.8	51	413	1,600	1,340	2,640	354	868	683	745	24	714
MIN	2.1	2.5	15	27	40	38	26	36	10	9.6	6.3	7.1
CFSM	.04	.12	1.01	3.66	2.31	4.56	1.02	2.03	.71	1.36	.18	.89
IN.	.05	.13	1.16	4.23	2.40	5.25	1.14	2.34	.79	1.57	.20	.99

CAL YR 1974 TOTAL 19,380.4 MEAN 53.1 MAX 850 MIN 1.6 CFSM .73 IN 9.96
WTR YR 1975 TOTAL 39,397.3 MEAN 108 MAX 2,640 MIN 2.1 CFSM 1.49 IN 20.24

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	1800	12.11	1,600	3-13	2400	15.90	3,540
1-25	1730	13.32	2,160	9-23	1700	12.04	1,570
2- 5	0800	12.42	1,740				

02149000 Cove Creek near Lake Lure, N. C.

LOCATION.--Lat 35°25'24", long 82°06'42", Rutherford County, on left bank 40 ft (12 m) upstream from bridge on U. S. Highways 64 and 74, 1 mi (2 km) upstream from mouth, and 5 mi (8 km) east of town of Lake Lure.

DRAINAGE AREA.--77.0 mi^2 (199.4 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-50. October 1950 to current year. Monthly discharge only for some periods, published in WSP 1723.

GAGE.--Water-stage recorder. Datum of gage is 815.4 ft (248.53 m) above mean sea level. Prior to Dec. 20, 1954, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 130 ft^3/s (3.682 m^3/s), 22.93 in/yr (582 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,040 ft^3/s (171 m^3/s) Mar. 14 (gage height, 17.73 ft or 5.404 m); minimum, 80 ft^3/s (2.27 m^3/s) Sept. 6 (gage height, 2.26 ft or 0.689 m).
Period of record: Maximum discharge, 7,050 ft^3/s (200 m^3/s) June 5, 1957 (gage height, 18.53 ft or 5.65 m); minimum, 21 ft^3/s (0.59 m^3/s) Sept. 8, 9, 28, 30, Oct. 1-3, 5-7, 11-13, 1954.
Flood of 1916 reached a stage of about 23 ft (7.0 m), from records of North Carolina State Highway Commission.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	121	357	137	143	181	352	172	648	152	130	98
2	139	121	216	131	152	171	300	209	381	149	124	93
3	136	121	173	130	160	161	292	185	294	145	118	90
4	137	121	161	142	250	156	258	191	258	142	114	87
5	137	126	151	129	362	153	245	167	235	142	122	85
6	135	122	145	129	290	150	237	161	228	193	168	85
7	133	119	147	127	253	165	228	158	213	174	135	103
8	132	119	196	128	209	168	223	158	201	151	125	111
9	132	118	176	132	188	150	218	166	194	143	119	94
10	131	117	155	143	171	152	214	163	222	140	118	91
11	129	117	147	452	164	153	209	165	258	138	117	157
12	128	126	143	289	168	165	202	210	407	145	114	114
13	128	118	138	342	155	876	196	253	280	137	108	103
14	127	119	134	239	149	3,150	195	175	229	150	105	93
15	133	126	140	197	144	704	200	440	209	153	104	91
16	193	117	179	175	184	423	191	619	199	141	101	90
17	145	117	151	159	206	339	188	390	189	138	100	139
18	135	147	143	152	200	277	186	3,170	185	143	103	1,430
19	135	138	138	146	194	706	184	689	201	136	104	368
20	131	260	134	161	176	423	178	417	206	204	105	208
21	129	168	131	147	164	320	174	314	191	147	97	165
22	129	142	127	141	156	286	173	268	177	132	95	157
23	129	134	125	138	189	259	172	245	172	133	95	372
24	129	130	125	137	557	379	173	228	165	141	92	1,230
25	127	129	154	348	338	342	177	216	163	191	90	350
26	127	125	136	265	242	277	171	213	172	169	88	238
27	125	122	131	200	213	251	165	228	163	137	117	195
28	125	121	169	176	194	239	165	213	157	131	143	172
29	123	119	158	163	------	240	164	271	155	125	115	159
30	123	173	149	154	------	917	175	1,050	158	140	100	151
31	123	------	142	148	------	482	------	394	------	174	95	------
TOTAL	4,127	3,953	4,871	5,659	5,971	12,817	6,205	11,898	6,910	4,636	3,461	6,919
MEAN	133	132	157	183	213	413	207	384	230	150	112	231
MAX	193	260	357	452	557	3,150	352	3,170	648	204	168	1,430
MIN	123	117	125	127	143	150	164	158	155	125	88	85
CFSM	1.73	1.71	2.04	2.38	2.77	5.36	2.69	4.99	2.99	1.95	1.45	3.00
IN.	1.99	1.91	2.35	2.73	2.88	6.19	3.00	5.75	3.34	2.24	1.67	3.34

CAL YR 1974 TOTAL 75,887 MEAN 208 MAX 1,410 MIN 117 CFSM 2.70 IN 36.66
WTR YR 1975 TOTAL 77,427 MEAN 212 MAX 3,170 MIN 85 CFSM 2.75 IN 37.41

PEAK DISCHARGE (BASE, 1,400 CFS REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-13	1100	7.30	1,480	5-30	0200	10.69	2,600
3-14	1000	17.73	6,040	9-18	0800	10.65	2,580
3-30	0800	7.64	1,580	9-24	0300	11.51	2,920
5-18	0700	16.11	5,070				

02149702 Green River near Saluda, N. C.

LOCATION.--Lat 35°18'20", long 82°16'31", Polk County, on left bank 90 ft (27 m) upstream from bridge on Secondary Road 1151, 2,100 ft (640 m) downstream from Laurel Branch, and 6.5 mi (10.5 km) northeast of Saluda.

DRAINAGE AREA.--104 mi^2 (269 km^2).

GAGE.--Water-stage recorder. Altitude of gage is 945 ft or 288 m (from topographic map).

PERIOD OF RECORD.--August 1972 to September 1975 (discontinued).

EXTREMES.--Current year: Maximum discharge, 9,080 ft^3/s (257 m^3/s) Mar. 14 (gage height, 10.99 ft or 3.350 m); minimum, 64 ft^3/s (1.81 m^3/s) Nov. 11 (gage height, 1.97 ft or 0.600 m); minimum daily, 66 ft^3/s (1.87 m^3/s) Nov. 3.
Period of record: Maximum discharge, 9,080 ft^3/s (257 m^3/s) Mar. 14, 1975 (gage height, 10.99 ft or 3.350 m); minimum, 64 ft^3/s (1.81 m^3/s) Nov. 11, 1974 (gage height, 1.97 ft or 0.600 m); minimum daily, 66 ft^3/s (1.87 m^3/s) Nov. 3, 1974.

REMARKS.--Records good. Flow regulated since 1920 by Lake Summit (capacity, 13,200 acre-ft or 16.3 hm^3) 11 mi (18 km) upstream in Henderson County. Lake is used for power development and recreation. Water quality records for the current year are published in Section 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	120	447	132	204	434	720	247	678	260	255	127
2	111	72	283	181	209	355	628	249	513	270	247	124
3	120	66	148	180	229	343	647	310	475	270	151	123
4	118	170	139	170	364	271	567	430	436	260	146	121
5	118	135	134	137	397	235	540	340	345	230	154	120
6	97	121	132	157	392	231	529	322	340	400	270	120
7	158	118	213	131	373	256	522	248	321	300	244	136
8	161	119	277	134	307	347	516	321	229	230	147	134
9	118	118	157	176	235	318	495	197	226	230	142	138
10	116	118	195	247	238	249	477	263	306	230	142	175
11	118	117	192	566	301	365	399	354	416	240	190	319
12	118	131	282	389	248	441	392	378	550	210	186	350
13	87	119	181	555	304	1,490	390	345	436	230	185	288
14	130	124	182	485	203	4,450	390	322	341	250	185	131
15	168	132	203	424	210	1,460	396	603	336	250	175	153
16	249	120	224	329	264	896	382	839	333	230	140	177
17	283	118	199	309	368	763	375	571	262	200	154	301
18	212	203	192	211	307	664	374	605	168	200	193	1,600
19	122	207	188	157	358	1,350	372	525	209	230	187	546
20	92	343	181	235	343	867	276	470	335	250	184	455
21	165	380	185	277	320	690	258	426	389	260	133	434
22	175	142	130	202	232	626	268	351	400	263	130	433
23	146	131	128	199	342	572	353	283	310	247	115	864
24	146	128	129	200	971	752	345	286	206	192	105	1,470
25	143	178	151	378	692	742	261	349	205	226	125	703
26	121	172	138	434	511	591	253	356	311	267	125	503
27	120	172	185	232	485	543	248	399	241	260	149	465
28	119	115	197	235	467	533	260	204	300	256	215	448
29	122	117	192	307	------	557	347	335	250	239	185	437
30	122	191	189	210	------	1,680	336	492	210	189	158	430
31	120	------	188	207	------	944	------	583	------	278	128	------
TOTAL	4,320	4,497	5,961	8,186	9,874	24,015	12,316	12,003	10,077	7,647	5,245	11,825
MEAN	139	150	192	264	353	775	411	387	336	247	169	394
MAX	283	380	447	566	971	4,450	720	839	678	400	270	1,600
MIN	87	66	128	131	203	231	248	197	168	189	105	120

CAL YR 1974 TOTAL 110,348 MEAN 302 MAX 1,730 MIN 66
WTR YR 1975 TOTAL 115,966 MEAN 318 MAX 4,450 MIN 66

02151000 Second Broad River at Cliffside, N. C.

LOCATION.--Lat 35°14'08", long 81°45'57", Rutherford County, on left bank 0.2 mi (0.3 km) downstream from dam at Cliffside Mills, at Cliffside, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--211 mi^2 (546 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 670.5 ft (204.37 m) above mean sea level (levels by Soil Conservation Service).

AVERAGE DISCHARGE.--50 years, 309 ft^3/s (8.751 m^3/s), 19.89 in/yr (505 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,400 ft^3/s (323 m^3/s) Mar. 15 (gage height, 13.91 ft or 4.240 m); minimum, 16 ft^3/s (0.45 m^3/s) June 7 (gage height, 0.69 ft or 0.210 m); minimum daily, 161 ft^3/s (4.56 m^3/s) Nov. 9.
Period of record: Maximum discharge, 15,000 ft^3/s (425 m^3/s) Aug. 14, 1940 (gage height, 17.93 ft or 5.465 m); minimum, 4 ft^3/s (0.11 m^3/s) Sept. 27, 1935, Aug. 3, 1937, July 24, 1943; minimum daily, 6 ft^3/s (0.17 m^3/s) June 9, 1940.

REMARKS.--Records good. Considerable diurnal fluctuation and some low-flow regulation by mills above station. Water quality records for the current year are published in Section 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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	229	171	1,480	294	314	420	838	383	2,420	344	249	214
2	211	174	722	278	314	396	683	436	1,520	334	243	221
3	200	173	448	264	326	360	697	453	783	318	237	212
4	199	173	356	302	409	338	590	576	621	304	230	202
5	198	172	306	296	962	327	542	427	540	313	226	198
6	196	179	284	282	801	316	509	381	494	370	238	274
7	190	170	260	281	646	324	475	360	458	577	274	279
8	187	165	288	276	526	366	459	356	418	370	243	286
9	187	161	296	306	452	323	446	353	390	334	230	243
10	187	164	266	292	405	314	442	368	425	323	219	227
11	186	164	250	809	372	322	432	452	538	323	227	379
12	181	184	251	809	373	349	421	414	741	349	224	404
13	183	176	243	1,450	360	2,290	405	1,330	1,170	313	218	377
14	180	169	233	790	322	6,570	397	582	616	365	204	271
15	176	200	246	549	308	9,070	421	833	510	354	209	239
16	196	183	382	452	355	1,630	405	2,650	472	349	202	229
17	240	177	332	391	501	1,020	396	1,080	439	313	202	270
18	194	200	293	356	475	790	388	1,930	416	299	201	925
19	187	241	268	323	466	1,850	386	6,340	416	289	220	712
20	189	427	254	358	425	1,220	373	1,160	401	289	230	403
21	182	439	249	413	384	813	361	745	510	323	204	321
22	177	269	239	342	357	681	356	613	424	289	194	310
23	178	231	233	323	471	613	359	538	392	266	194	476
24	179	210	232	308	1,100	798	367	506	373	280	191	1,760
25	180	211	259	719	1,100	1,210	366	440	355	397	187	917
26	175	206	284	904	639	742	370	413	387	313	180	509
27	171	192	249	556	521	619	352	428	366	275	196	394
28	174	191	311	453	467	557	345	418	354	266	411	343
29	172	190	375	403	------	553	339	428	343	274	261	309
30	172	229	331	366	------	1,620	435	2,450	346	241	223	298
31	173	------	308	330	------	1,690	------	1,600	------	248	218	------
TOTAL	5,829	6,191	10,528	14,275	14,151	38,491	13,355	29,443	17,638	10,002	6,985	12,202
MEAN	188	206	340	460	505	1,242	445	950	588	323	225	407
MAX	240	439	1,480	1,450	1,100	9,070	838	6,340	2,420	577	411	1,760
MIN	171	161	232	264	308	314	339	353	343	241	180	198
CFSM	.89	.98	1.61	2.18	2.39	5.89	2.11	4.50	2.79	1.53	1.07	1.93
IN.	1.03	1.09	1.86	2.52	2.49	6.79	2.35	5.19	3.11	1.76	1.23	2.15

CAL YR 1974 TOTAL 140,087 MEAN 384 MAX 3,830 MIN 161 CFSM 1.82 IN 24.70
WTR YR 1975 TOTAL 179,090 MEAN 491 MAX 9,070 MIN 161 CFSM 2.33 IN 31.57

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-15	0800	13.91	11,400	5-30	2330	5.42	3,180
5-19	0730	10.85	8,450	6- 1	0900	5.28	3,050

02151500 Broad River near Boiling Springs, N. C.

LOCATION.--Lat 35°12'39", long 81°41'52", Cleveland County, on right bank 0.5 mi (0.8 km) upstream from Sandy Run Creek and bridge on Secondary Road 1186, 3 mi (5 km) downstream from Second Broad River, and 3.5 mi (5.6 km) southwest of Boiling Springs.

DRAINAGE AREA.--864 mi^2 (2,238 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 639.92 ft (195.048 m) above mean sea level (Duke Power Co. bench mark). Prior to July 20, 1934, at site 500 ft (152 m) upstream at datum 1 ft (0.305 m) higher.

AVERAGE DISCHARGE.--50 years, 1,489 ft^3/s (42.17 m^3/s), 23.40 in/yr (594 mm/yr).

EXTREMES.--Current year: Maximum discharge, 31,800 ft^3/s (901 m^3/s) Mar. 15 (gage height, 16.15 ft or 4.923 m); minimum, 622 ft^3/s (17.6 m^3/s) Aug. 26 (gage height, 1.91 ft or 0.582 m); minimum daily, 655 ft^3/s (18.5 m^3/s) Nov. 4.
Period of record: Maximum discharge, 73,300 ft^3/s (2,080 m^3/s) Aug. 16, 1928 (gage height, 24.3 ft or 7.4 m former site, present datum); minimum, 40 ft^3/s (1.13 m^3/s) Oct. 17, 1954 (gage height, 1.02 ft or 0.311 m); minimum daily, 105 ft^3/s (2.97 m^3/s) Oct. 10, 1954.

REMARKS.--Records good. Considerable diurnal fluctuation and some regulation caused by powerplants above station.

REVISIONS (WATER YEARS).--WSP 892: 1928, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,240	855	5,140	1,510	1,510	1,860	4,280	1,830	8,060	1,600	1,340	972
2	1,100	883	3,020	1,280	1,420	2,200	3,820	1,900	5,320	1,370	1,450	1,000
3	989	655	2,120	1,190	1,550	1,640	3,730	2,000	3,280	1,590	1,160	976
4	985	713	1,670	1,320	1,940	1,750	3,270	2,650	2,360	1,330	1,420	973
5	905	856	1,510	1,310	4,030	1,640	2,980	1,850	2,360	1,700	1,110	774
6	960	835	1,390	1,220	3,090	1,610	2,610	1,780	2,500	1,850	1,190	1,100
7	895	718	1,260	1,350	2,350	1,640	2,420	1,680	2,130	2,640	1,560	1,120
8	1,140	791	1,370	1,260	2,180	1,750	2,420	1,950	1,830	1,960	1,270	1,150
9	991	785	1,390	1,340	1,830	1,790	2,500	1,630	1,980	1,690	1,250	1,070
10	963	699	1,300	1,300	1,850	1,490	2,260	1,660	1,940	1,420	1,180	1,000
11	881	751	1,360	3,520	1,780	1,650	2,180	1,820	2,830	1,700	1,060	1,650
12	1,020	820	1,410	3,450	1,640	2,020	2,260	1,840	3,430	1,560	1,210	2,350
13	966	813	1,320	4,990	1,700	10,800	1,920	3,370	3,700	1,660	1,100	1,670
14	840	793	1,360	3,200	1,600	21,200	2,020	2,600	2,520	1,840	1,120	1,270
15	991	902	1,220	2,510	1,550	25,700	2,180	3,290	2,030	1,660	1,050	1,260
16	1,030	834	1,630	2,230	1,470	6,590	2,130	7,590	1,990	1,790	1,040	964
17	1,250	798	1,600	1,780	1,960	5,060	1,720	4,430	2,540	1,620	1,020	1,090
18	1,280	860	1,620	1,740	2,040	4,290	2,180	7,650	1,910	1,620	1,040	6,110
19	1,060	1,050	1,450	1,790	1,950	7,450	1,870	13,400	1,990	1,520	1,170	6,750
20	1,050	1,470	1,380	1,670	1,860	5,610	1,770	4,090	2,160	1,290	1,220	3,380
21	949	2,330	1,250	2,000	1,760	4,280	1,720	3,450	2,140	1,490	1,090	2,290
22	1,050	1,600	1,220	1,620	1,690	3,820	1,650	2,860	2,270	1,520	1,090	1,770
23	1,010	1,180	1,200	1,520	2,030	3,160	1,700	2,510	1,900	1,530	1,050	2,580
24	1,030	1,040	1,190	1,490	4,270	3,450	2,080	2,300	1,740	1,440	827	9,990
25	1,010	1,040	1,260	2,250	4,780	4,870	1,820	2,180	1,790	1,760	873	5,630
26	901	1,210	1,340	3,350	3,120	3,590	1,590	2,080	1,940	1,700	906	3,680
27	822	1,030	1,240	2,280	2,680	3,160	1,800	2,380	1,750	1,530	972	2,890
28	859	1,010	1,380	1,900	2,360	2,900	1,670	2,070	1,640	1,530	1,570	2,140
29	867	1,030	1,550	1,870	------	2,900	1,660	2,170	1,510	1,180	1,210	2,010
30	874	1,160	1,430	1,730	------	4,590	1,870	9,960	1,810	1,370	1,130	1,800
31	860	------	1,360	1,650	------	6,450	------	5,430	------	1,540	1,070	------
TOTAL	30,768	29,511	48,940	61,620	61,990	150,910	68,080	106,400	75,350	50,000	35,748	71,409
MEAN	993	984	1,579	1,988	2,214	4,868	2,269	3,432	2,512	1,613	1,153	2,380
MAX	1,280	2,330	5,140	4,990	4,780	25,700	4,280	13,400	8,060	2,640	1,570	9,990
MIN	822	655	1,190	1,190	1,420	1,490	1,590	1,630	1,510	1,180	827	774
CFSM	1.15	1.14	1.83	2.30	2.56	5.63	2.63	3.97	2.91	1.87	1.33	2.75
IN.	1.32	1.27	2.11	2.65	2.67	6.50	2.93	4.58	3.24	2.15	1.54	3.07

CAL YR 1974 TOTAL 730,640 MEAN 2,002 MAX 15,000 MIN 655 CFSM 2.32 IN 31.46
WTR YR 1975 TOTAL 790,726 MEAN 2,166 MAX 25,700 MIN 655 CFSM 2.51 IN 34.05

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-15	0830	16.15	31,800	6- 1	0930	7.76	10,700
5-19	0600	10.90	17,500	9-19	0100	7.94	11,100
5-30	0830	9.70	14,800	9-24	1730	8.42	12,100

02152100 First Broad River near Casar, N. C.

LOCATION.--Lat 35°29'35", long 81°40'56", Cleveland County, on right bank 570 ft (174 m) upstream from bridge on Secondary Road 1530, 0.5 mi (0.8 km) upstream from No Business Creek, and 4.0 mi (6.4 km) southwest of Casar.

DRAINAGE AREA.--59.5 mi^2 (154.1 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-56, March 1959 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 890 ft or 271 m (from topographic map).

AVERAGE DISCHARGE.--16 years, 94.9 ft^3/s (2.688 m^3/s), 21.66 in/yr (550 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,170 ft^3/s (146 m^3/s) Mar. 14 (gage height, 13.38 ft or 4.078 m); minimum, 49 ft^3/s (1.39 m^3/s) Nov. 5, 7, 8, 9, 10, 11, 14 (gage height, 1.10 ft or 0.335 m).
Period of record: Maximum discharge, 6,580 ft^3/s (186 m^3/s) Aug. 10, 1970 (gage height, 15.22 ft or 4.639 m); minimum, 17 ft^3/s (0.48 m^3/s) July 20, 1970 (gage height, 0.97 ft or 0.0296 m).
Flood of 1916 and August 1940 reached a stage of about 25 ft (7.6 m), from information by local resident.
A discharge of 14.5 ft^3/s (0.41 m^3/s) was measured on Sept. 21, 1955.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	50	381	70	82	113	280	124	550	106	69	53
2	65	50	143	66	84	104	225	135	246	105	69	53
3	61	50	98	63	86	95	223	194	182	103	66	53
4	58	50	83	79	117	91	187	196	158	98	65	51
5	57	52	76	70	220	89	173	140	146	100	64	51
6	56	52	71	70	203	86	164	125	147	120	67	52
7	56	50	72	68	195	91	159	120	134	125	75	61
8	54	50	85	69	146	97	155	116	127	127	66	63
9	54	50	76	76	122	85	151	119	122	103	64	57
10	54	49	70	73	106	88	148	120	156	99	62	57
11	53	49	68	245	100	89	147	127	167	102	62	197
12	53	56	62	208	106	102	143	131	370	105	60	123
13	53	51	60	359	95	1,150	138	157	298	96	58	89
14	52	51	63	178	90	3,130	138	122	181	101	56	63
15	51	63	87	125	87	636	142	555	155	100	56	60
16	65	52	110	104	118	367	135	621	148	101	55	59
17	58	51	100	91	141	334	133	258	135	92	54	71
18	54	62	71	85	134	270	132	1,370	136	90	54	225
19	55	65	68	81	129	623	130	396	137	87	54	112
20	53	139	65	95	114	373	127	244	141	98	56	79
21	52	87	61	89	104	272	124	194	153	91	53	70
22	52	66	59	82	97	242	123	172	130	82	53	77
23	53	62	58	82	130	213	122	160	123	85	53	137
24	53	60	60	82	448	391	123	152	117	84	52	494
25	52	59	69	311	269	384	123	145	115	83	51	135
26	52	57	63	226	165	256	120	140	114	79	50	95
27	52	56	60	142	139	214	116	145	112	77	53	79
28	51	55	84	116	123	197	116	140	111	75	81	71
29	51	54	93	105	------	199	129	154	110	73	57	69
30	51	91	84	95	------	1,150	147	930	111	70	54	67
31	51	------	76	86	------	423	------	185	------	70	53	------
TOTAL	1,701	1,789	2,676	3,691	3,950	11,954	4,473	7,887	5,032	2,927	1,842	2,923
MEAN	54.9	59.6	86.3	119	141	386	149	254	168	94.4	59.4	97.4
MAX	69	139	381	359	448	3,130	280	1,370	550	127	81	494
MIN	51	49	58	63	82	85	116	116	110	70	50	51
CFSM	.92	1.00	1.45	2.00	2.37	6.49	2.50	4.27	2.82	1.59	1.00	1.64
IN.	1.06	1.12	1.67	2.31	2.47	7.47	2.80	4.93	3.15	1.83	1.15	1.83

CAL YR 1974 TOTAL 37,957 MEAN 104 MAX 618 MIN 49 CFSM 1.75 IN 23.73
WTR YR 1975 TOTAL 50,845 MEAN 139 MAX 3,130 MIN 49 CFSM 2.34 IN 31.79

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-13	1200	7.73	1,990	5-15	2000	6.61	1,550
3-14	1630	13.38	5,170	5-18	1130	11.88	4,130
3-30	1000	8.04	2,120				

02152610 Sugar Branch near Boiling Springs, N. C.

LOCATION.--Lat 35°15'00", long 81°37'20", Cleveland County, on left downstream wingwall of culvert on State Highway 150, 0.5 mi (0.8 km) upstream from mouth, and 2.8 mi (4.5 km) east of Boiling Springs.

DRAINAGE AREA.--1.49 mi^2 (3.86 km^2).

PERIOD OF RECORD.--Annual maximum, water years 1954-68, June 1968 to current year.

GAGE.--Water-stage recorder and V-notch sharp-crested weir. Datum of gage is 696.83 ft (212.394 m) above mean sea level. June 10, 1953 to May 31, 1968, crest-stage gage on left bank 31 ft (9 m) upstream from culvert entrance at datum 16.37 ft (4.990 m) higher.

AVERAGE DISCHARGE.--7 years, 2.46 ft^3/s (0.0697 m^3/s), 22.42 in/yr (569 mm/yr).

EXTREMES.--Current year: Maximum discharge, 265 ft^3/s (7.50 m^3/s) May 30 (gage height, 3.73 ft or 1.137 m), from rating curve extended as explained below; minimum, 0.43 ft^3/s (0.012 m^3/s) Oct. 7, 8, part of each day Oct. 10-16, Aug. 25 (gage height, 1.10 ft or 0.335 m).
Period of record: Maximum discharge, 1,110 ft^3/s (31.4 m^3/s) Oct. 16, 1971 (gage height, 6.58 ft or 2.01 m), from rating curve extended above 120 ft^3/s (3.40 m^3/s) on basis of computation of peak flow through culvert; minimum, 0.19 ft^3/s (0.005 m^3/s) Sept. 7, 1968 (gage height, 0.95 ft or 0.290 m).

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WRD N. C. 1970: 1968(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	.47	12	1.3	1.7	2.1	2.7	1.6	23	1.4	.82	.82
2	.48	.47	2.1	1.2	1.8	2.0	2.5	1.6	3.3	1.2	.77	.80
3	.48	.47	1.5	1.2	2.0	1.8	2.5	5.8	2.5	1.1	.74	.77
4	.51	.47	1.3	1.6	10	1.8	2.2	2.6	2.2	1.3	.74	.72
5	.51	.49	1.2	1.3	7.6	1.8	2.2	1.8	2.1	1.2	.73	.69
6	.50	.49	1.1	1.6	3.3	1.7	2.1	1.7	1.9	9.6	2.0	.72
7	.48	.50	1.1	1.4	2.5	2.0	2.1	1.6	1.8	1.9	.94	1.2
8	.47	.50	1.1	1.7	2.3	1.8	2.0	1.5	1.6	1.5	.85	.95
9	.49	.50	.92	1.7	2.1	1.7	2.0	1.6	1.5	1.4	.81	.80
10	.48	.50	.89	4.5	2.0	1.8	1.9	1.6	3.0	1.3	.82	.78
11	.47	.51	.88	32	1.9	1.9	1.9	1.5	9.1	1.3	.80	1.0
12	.47	.59	.88	19	2.2	2.2	1.8	4.4	16	1.3	.75	1.5
13	.47	.50	.85	11	1.9	82	1.8	2.8	3.8	1.2	.71	.99
14	.46	.55	.85	2.9	1.8	37	1.8	1.6	2.5	1.5	.69	.83
15	.46	.58	1.7	2.4	1.8	4.1	1.9	8.3	3.9	1.6	.68	.81
16	.59	.53	2.7	2.2	2.3	3.6	1.7	2.8	2.6	1.3	.64	.80
17	.50	.53	1.5	1.9	2.3	3.2	1.7	2.2	2.4	1.3	.79	.99
18	.49	.71	1.3	1.9	2.1	3.3	1.7	6.6	2.9	1.2	.72	1.4
19	.49	1.1	1.2	1.8	2.2	23	1.7	2.6	2.4	1.2	.73	1.0
20	.49	2.5	1.2	2.9	1.9	3.5	1.6	2.2	1.9	1.2	.70	.91
21	.49	.86	1.1	2.2	1.9	2.8	1.6	1.9	1.8	1.1	.64	.86
22	.51	.72	1.0	2.0	1.9	2.7	1.5	1.7	1.7	1.1	1.7	.87
23	.52	.67	.97	1.9	3.2	2.5	1.5	1.6	1.6	1.0	4.4	2.7
24	.53	.65	.97	2.1	21	12	1.5	1.5	1.5	1.0	3.5	1.8
25	.53	.66	1.1	11	3.3	3.4	1.5	1.4	1.4	1.1	.57	1.3
26	.53	.63	.96	3.0	2.5	2.7	1.4	1.3	1.4	.99	.57	1.1
27	.52	.62	.95	2.4	2.3	2.5	1.4	1.3	1.4	.96	14	1.0
28	.51	.62	2.7	2.1	2.2	2.4	1.4	1.2	1.3	.93	2.7	.94
29	.50	.61	1.7	2.0	------	3.1	1.3	4.2	1.4	.89	1.0	.92
30	.53	19	1.5	1.9	------	7.2	1.4	41	1.6	.84	.89	.90
31	.48	------	1.4	1.8	------	2.8	------	6.3	------	.83	.84	------
TOTAL	15.44	38.00	50.62	127.9	94.0	226.4	54.3	119.8	105.5	45.74	47.24	30.87
MEAN	.50	1.27	1.63	4.13	3.36	7.30	1.81	3.86	3.52	1.48	1.52	1.03
MAX	.59	19	12	32	21	82	2.7	41	23	9.6	14	2.7
MIN	.46	.47	.85	1.2	1.7	1.7	1.3	1.2	1.3	.83	.57	.69
CFSM	.34	.85	1.09	2.77	2.26	4.90	1.21	2.59	2.36	.99	1.02	.69
IN.	.39	.95	1.26	3.19	2.35	5.65	1.36	2.99	2.63	1.14	1.18	.77

CAL YR 1974 TOTAL 719.44 MEAN 1.97 MAX 44 MIN .42 CFSM 1.32 IN 17.96
WTR YR 1975 TOTAL 955.81 MEAN 2.62 MAX 82 MIN .46 CFSM 1.76 IN 23.86

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0015	3.15	189	5-30	0500	3.73	265
2-24	0730	2.93	161	6- 1	0330	3.03	174
3-13	0800	3.31	210				

Lakes and Reservoirs in South Atlantic Slope basin

02067800; 02067820 TALBOTT AND TOWNES RESERVOIRS 1/.--On Dan River. The two reservoirs are operated as a unit for storage of water for Pinnacles hydroelectric plant. Talbott Dam (drainage area, 20.2 mi^2 or 52.3 km^2), lat 36°40'36", long 80°23'51", Patrick County, Va., 4.5 mi (7.2 km) northeast of Kibler. Townes Dam (drainage area, 32.9 mi^2 or 85.2 km^2), lat 36°41'11", long 80°25'49", Patrick County, Va., 4 mi (6.4 km) north of Kibler. Records available, February 1939 to December 1945 and January 1948 to September 1960 (combined month-end contents only published in WSP 1723), October 1960 to current year.

Total capacity of Talbott Reservoir, 350,000,000 ft^3 (9,900,000 m^3) and Townes Reservoir, 60,000,000 ft^3 (1,700,000 m^3). Storage was started in Talbott Reservoir on Feb. 13, 1939, and in Townes Reservoir several months earlier. Records furnished by City of Danville, Va. (See sta 02068500)

02077280 HYCO LAKE.--Lat 36°30'28", long 79°02'48", Person County, at outlet control structure 0.4 mi (0.6 km) northwest of dam on Hyco River, 1.1 mi (1.8 km) southwest of McGehees Mill and 8 mi (13 km) northwest of Roxboro. Drainage area 189 mi^2 (499 km^2). Records available October 1964 to current year. Prior to October 1970 published as "Roxboro Steam-Electric Generating Plant Lake". Gage, water-stage recorder and tape gage. Prior to Feb. 11, 1965 staff gage at upstream end of outlet control structure. Datum of gage is 399.79 ft (121.856 m) above mean sea level, unadjusted (levels by Carolina Power and Light Co).

Lake, used for cooling water at the Roxboro Steam-electric Generating Plant of Carolina Power and Light Co. first began to fill Sept. 19, 1964 and first reached spillway elevation (9.97 ft or 3.039 m gage height) Mar. 19, 1965. Total capacity at top of spillway is 3,288,000,000 ft^3 (93,120,000 m^3). Lake cannot be drawn below -0.03 ft or -0.009 m (bottom of gated flume).

02079964 LAKE GASTON.--Lat 36°30'04", long 77°48'43", Halifax County, at Gaston Dam on Roanoke River, 0.2 mi (0.3 km) upstream from Black Gut Creek, and 2.7 mi (4.3 km) northwest of Thelma. Drainage area, 8,339 mi^2 (21,598 km^2). Records available, October 1962 to current year. Gage, water-stage recorder and staff gage. Datum of gage is at mean sea level.

Lake, used mainly for hydroelectric power development, was first filled Oct. 13-15, 1962, and has a total capacity of 22,434,000,000 ft^3 (635,330,000 m^3). Usable capacity is 20,127,000,000 ft^3 (570,000,000 m^3) between elevations 165 ft or 50.3 m and 203 ft or 61.9 m (top of spillway gates) of which 2,788,000,000 ft^3 (78,960,000 m^3) between elevations 200 ft (61.0 m) and 203 ft (61.9 m) is reserved for flood control. Storage for power generation is 10,673,000,000 ft^3 (302,260,000 m^3) between elevations 185 ft (56.4 m) and 200 ft (61.0 m). Records furnished by Virginia Electric and Power Co. (See sta 02080500)

02080100 ROANOKE RAPIDS LAKE.--Lat 36°29'10", long 77°39'31", Halifax County, at Roanoke Rapids Dam on Roanoke River, 1.5 mi (2.4 km) upstream from bridge on State Highway 48, and 2.2 mi (3.5 km) north of Roanoke Rapids. Drainage area, 8,395 mi^2 (21,743 km^2). Records available, June 1955 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, water-stage recorder and staff gage. Datum of gage is at mean sea level.

Lake, used for hydroelectric power development, was put in operation June 25, 1955, and has a total capacity of 3,360,220,000 ft^3 (95,161,400 m^3) at normal highwater elevation of 132.0 ft (40.23 m) and 3,515,290,000 ft^3 (99,553,000 m^3) at elevation 132.75 ft or 40.462 m (top of gates). Records furnished by Virginia Electric and Power Co. (See sta 02080500)

02086490 LAKE MICHIE.--Lat 36°09'02", long 78°49'49", Durham County, at Durham municipal dam on Flat River, 3 mi (5 km) southeast of Bahama, and 5 mi (8 km) upstream from confluence with Eno River. Drainage area, 170 mi^2 (440 km^2) approximately. Records available, October 1962 to current year. Gage, water-stage recorder and wire-weight gage at dam. Datum of gage is 0.47 ft (0.143 m) below mean sea level.

Lake, used for municipal water supply, began filling in May 1926 and reached spillway elevation Dec. 26, 1926. Total capacity is 618,000,000 ft^3 (17,500,000 m^3) between elevations (gage datum) 300.0 ft (91.44 m) and 341 ft or 103.9 m (crest of spillway). (See sta 02087000)

02111391 W. KERR SCOTT RESERVOIR.--Lat 36°08'04", long 81°13'30", Wilkes County, at W. Kerr Scott Dam on Yadkin River, 0.1 mi (0.2 km) upstream from Fish Trap Creek, 2.0 mi (3.2 km) upstream from Millers Creek, and 4.0 mi (6.4 km) west of Wilkesboro. Drainage area, 350 mi^2 (910 km^2), approximately. Records available, August 1962 to current year. Gage, water-stage recorder and staff gage at dam. Datum of gage is at mean sea level.

Lake, used for flood control, low-flow augmentation and recreation. Some storage was affected during construction in July 1962, but gates were closed Aug. 22, 1962, and reservoir reached minimum pool elevation on Sept. 11, 1962. Total capacity is 6,664,680,000 ft^3 (188,744,000 m^3) of which 6,316,200,000 ft^3 (178,870,000 m^3) is controlled storage. Records furnished by Corps of Engineers. (See sta 02129000)

02122400 HIGH ROCK LAKE.--Lat 35°36'02", long 80°14'06", Davidson County, at High Rock Dam on Yadkin River, 0.8 mi (1.3 km) northwest of High Rock, 2 mi (3 km) upstream from Lick Creek, and 256 mi (412 km) upstream from mouth of Pee Dee River in Winyah Bay. Drainage area, 4,000 mi^2 (10,400 km^2), approximately. Records available, November 1927 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, water-stage recorder and staff gage at dam. Datum of gage is 30.9 ft (9.42 m) below mean sea level.

Lake, used for hydroelectric power development, was first put in operation Nov. 7, 1927. Total capacity is 11,090,000,000 ft^3 (314,100,000 m^3) and usable capacity is 10,230,000,000 ft^3 (289,700,000 m^3) between elevations 625 ft (190 m) and 655 ft (200 m) gage datum (top of gates). Records furnished by Yadkin, Inc. (See sta 02129000)

02122699 TUCKERTOWN RESERVOIR.--Lat 35°29'03", long 80°10'30", Stanly County, at Tuckertown Dam on Yadkin River, 2.5 mi (4.0 km) upstream from Garr Creek, 3.8 mi (6.1 km) northeast of New London, and 250 mi (400 km) upstream from mouth of Pee Dee River in Winyah Bay. Drainage area, 4,120 mi^2 (10,670 km^2), approximately. Records available April 1962 to current year. Gage, remote water-stage recorder in powerhouse. Datum of gage is 30.9 ft (9.42 m) below mean sea level.

Lake, used for hydroelectric power development, was first filled Apr. 6, 1962. Total capacity is 1,852,400,000 ft^3 (52,460,000 m^3) and usable capacity is 293,800,000 ft^3 (8,320,000 m^3) between elevations 593 ft (181 m) and 596 ft (182 m) gage datum. Records furnished by Yadkin, Inc. (See sta 02129000)

1/ Included in this report because they materially affect runoff at Dan River near Francisco.

Lakes and Reservoirs in South Atlantic Slope basin--Continued

02122844 BADIN LAKE.--Lat 35°25'10", long 80°05'34", Stanly County, at Badin Dam on Yadkin River, 1.5 mi (2.4 km) northeast of Badin, 2.5 mi (4.0 km) upstream from Falls Dam, and 242 mi (389 km) upstream from mouth of Pee Dee River in Winyah Bay. Drainage area, 4,180 mi^2 (10,800 km^2), approximately. Records available, December 1917 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, water-stage recorder and staff gage at dam. Datum of gage is 30.9 ft (9.42 m) below mean sea level.
Lake (generally known as Narrows Reservoir), used for hydroelectric power development, was first put in operation July 12, 1917. Total capacity is 10,497,960,000 ft^3 (297,302,200 m^3) and usable capacity is 5,616,584,000 ft^3 (159,061,600 m^3) between elevations 510.00 ft (155.448 m) and 541.10 ft (164.927 m). Records furnished by Yadkin, Inc. (See sta 02129000)

02123736 LAKE TILLERY.--Lat 35°12'24", long 80°03'57", Stanly County, at Norwood Dam on Pee Dee River, 700 ft (213 m) upstream from Norfolk Southern Railroad bridge, 3.5 mi (5.6 km) southeast of Norwood, 5 mi (8 km) upstream from Rocky River, and 224 mi (360 km) upstream from mouth in Winyah Bay. Drainage area, 4,600 mi^2 (12,000 km^2), approximately. Records available, February 1928 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, water-stage recorder and float-tape gage at dam. Datum of gage is 38.67 ft (11.787 m) above mean sea level (levels by Carolina Power and Light Co.).
Lake, used for hydroelectric power development, was first put in operation during January 1928. Total capacity is 7,274,520,000 ft^3 (206,014,000 m^3) and usable capacity is 5,927,040,000 ft^3 (167,854,000 m^3) between elevations 200.5 ft (61.11 m) and 239.5 ft (73.00 m) gage datum (top of gates). Records furnished by Carolina Power and Light Co. (See sta 02129000).

02128800 BLEWETT FALLS LAKE.--Lat 34°58'58", long 79°52'40", Richmond County, at Blewett Falls Dam on Pee Dee River, 1.2 mi (1.9 km) upstream from Cartledge Creek, 6.5 mi (10.5 km) northwest of Rockingham, and 195 mi (314 km) upstream from mouth in Winyah Bay. Drainage area, 6,830 mi^2 (18,000 km^2), approximately. Records available, December 1929 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, self-synchronous motor, dial indicator and staff gage at dam. Datum of gage is 39.08 ft (11.912 m) above mean sea level (levels by Carolina Power and Light Co.).
Lake, used for hydroelectric power development was first put in use during 1911. Total capacity is 4,225,320,000 ft^3 (119,661,000 m^3) and usable capacity is 1,850,000,000 ft^3 (52,400,000 m^3) between elevations 120.0 ft (36.58 m) and 139.0 ft (42.37 m) gage datum (top of 4-foot flashboards). Records furnished by Carolina Power and Light Co. (See sta 02129000).

02138519 LAKE JAMES.--Lat 35°44'36", long 81°50'22", Burke County, at Linville Dam at intake tower on Catawba River, 2.1 mi (3.4 km) northeast of Bridgewater and 279 mi (449 km) upstream from mouth of Wateree River. Drainage area, 380 mi^2 (980 km^2), approximately. Records available, March 1920 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, float gage with self-synchronous motor to indicator in power house. Staff gage at Catawba River Dam is also read when lake elevation drops below 1,160 ft or 353.6 m (60 ft or 18.3 m, gage datum) and lake becomes two separate reservoirs. Datum of gage is 1,100.00 ft (335.280 m) above mean sea level (levels by Duke Power Co.).
Lake (generally known as Bridgewater Reservoir), used for hydroelectric power development, was first put in operation May 5, 1919. The total capacity at elevation 100.0 ft (30.48 m) gage datum (crest of spillway) is 12,581,800,000 ft^3 (356,317,000 m^3) and usable capacity is 7,943,700,000 ft^3 (224,970,000 m^3) between elevations (gage datum) 65 ft (19.8 m) and 100 ft (30.5 m). Records furnished by Duke Power Co.

02141490 RHODHISS LAKE.--Lat 35°46'54", long 81°26'42", Caldwell County, at Rhodhiss Dam on Catawba River, 0.8 mi (1.3 km) west of Rhodhiss, 1.8 mi (2.9 km) south of Granite Falls, and 243 mi (391 km) upstream from mouth of Wateree River. Drainage area, 1,090 mi^2 (2,820 km^2), approximately. Records available, September 1935 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, float gage, indicator and reference point at dam. Datum of gage is 895.1 ft (272.83 m) above mean sea level (levels by Duke Power Co.).
Lake, used for hydroelectric power development, was first put in operation Feb. 18, 1925. Total capacity is 3,188,592,000 ft^3 (90,300,900 m^3) and usable capacity is 1,717,000,000 ft^3 (48,630,000 m^3) between elevations (gage datum) 85.0 ft (25.91 m) and 100.0 ft or 30.48 m (crest of spillway). Records furnished by Duke Power Co.

02141961 LAKE HICKORY.--Lat 35°49'28", long 81°11'28", Alexander County, at Oxford Dam on Catawba River, 2 mi (3 km) upstream from Lower Little River, 7 mi (11 km) south of Taylorsville, and 226 mi (364 km) upstream from mouth of Wateree River. Drainage area, 1,310 mi^2 (3,390 km^2), approximately. Records available, September 1935 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year Gage, float gage and indicator at dam. Datum of gage is 835.0 ft (254.51 m) above mean sea level (levels by Duke Power Co.).
Lake, (generally known as Oxford Reservoir used for hydroelectric power development, was first put in operation Apr. 5, 1928. Total capacity is 5,552,985,000 ft^3 (157,260,500 m^3). Sept. 30, 1935 to Sept. 30, 1957, the usable capacity considered as 2,277,970,200 ft^3 (64,512,120 m^3) between elevations (gage datum) 85.0 ft (25.91 m) and 100.0 ft (30.48 m) (top of flood gates). From Apr. 30, 1928, to Aug. 31, 1935, and Oct. 31, 1957, to Sept. 30, 1964, usable capacity considered as 3,378,400,000 ft^3 (95,676,300 m^3) between elevations 75.0 ft (22.86 m) and 100.0 ft or 30.48 m (top of flood gates) from Oct. 1, 1964 to present, usable capacity considered as 2,277,800,000 ft^3 (64,507,000 m^3) between elevations (gage datum) 85.0 ft (25.91 m) and 100.0 ft or 30.48 m (top of flood gates). Records furnished by Duke Power Co.

02142441 LOOKOUT SHOALS LAKE.--Lat 35°45'57"long 81°05'36", Catawba County, at Lookout Shoals Dam on Catawba River, 4 mi (6 km) upstream from bridge on U. S. Highways 64 and 70, 4.2 mi (6.8 km) north of Catawba, and 216 mi (348 km) upstream from mouth of Wateree River. Drainage area, 1,450 mi^2 (3,760 km^2), approximately. Records available, December 1915 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, float gage, indicator and staff gage at dam. Datum of gage is 738.1 ft (224.97 m) above mean sea level (levels by Duke Power Co.).
Lake, used for hydroelectric power development, was first put in operation Dec. 2, 1915. Total capacity was originally, 1,355,190,000 ft^3 (38,379,000 m^3). Capacity has been reduced by silting. Prior to October 1957 the usable capacity considered as 473,980,000 ft^3 (13,423,000 m^3) and October 1957 to Sept. 30, 1964, as 388,300,000 ft^3 (11,000,000 m^3) between elevations (gage datum) 90.0 ft (27.43 m) and 100.0 ft (30.48 m) (crest of spillway). From Oct. 1, 1964 to present, usable capacity considered as 208,200,000 ft^3 (5,896,000 m^3) between elevations (gage datum) 95.0 ft (28.96 m) and 100.0 ft or 30.48 m (crest of spillway). Flood of July 16, 1916, washed out an earth dike. Records furnished by Duke Power Co.

Lakes and Reservoirs in South Atlantic Slope basin--Continued

02142647 LAKE NORMAN.--Lat 35°26'05", long 80°57'28", Mecklenburg County, at Cowans Ford Dam on Catawba River, 0.8 mi (1.3 km) upstream from Derr Creek, 7.8 mi (12.6 km) southwest of Davidson, and 182 mi (293 km) upstream from mouth of Wateree River. Drainage area, 1,790 mi^2 (4,640 km^2), approximately. Records available, March 1962 to current year. Gage, float gage with transmitter to dial meter in control room. Datum of gage is 660 ft (201.2 m) above mean sea level (levels by Duke Power Co.).
Lake, used for hydroelectric power development began filling in March 1962. Total capacity is 47,586,200,000 ft^3 (1,347,640,000 m^3) and usable capacity is 26,910,400,000 ft^3 (762,102,500 m^3) between elevations (gage datum) 75.0 ft (22.86 m) and 100 ft or 30.5 m (top of flood gates). Records furnished by Duke Power Co.

02142676 MOUNTAIN ISLAND LAKE.--Lat 35°20'03", long 80°59'12", Gaston County, at Mountain Island Dam on Catawba River, 1.5 mi (2.4 km) downstream from bridge on State Highway 16, 3 mi (5 km) northeast of Mount Holly, and 167 mi (269 km) upstream from mouth of Wateree River. Drainage area, 1,860 mi^2 (4,820 km^2), approximately. Records available, December 1923 to September 1960 (month-end contents only, published in WSP 1723), October 1960 to current year. Gage, float gage, indicator and staff gage at dam. Datum of gage is 547.5 ft (166.88 m) above mean sea level (levels by Duke Power Co.).
Lake, used for hydroelectric power development, was first put in operation Dec. 16, 1923. Total capacity is 2,495,988,000 ft^3 (70,686,380 m^3). Prior to October 1964 usable capacity was considered 1,132,000,000 ft^3 (32,060,000 m^3) between elevations (gage datum) 90.0 ft (27.43 m) and 100.0 ft or 30.48 m (crest of spillway) October 1964 to present considered as 845,000,000 ft^3 (23,900,000 m^3) between elevations (gage datum), 93.0 ft (28.35 m) and 100.0 ft or 30.48 m (crest of spillway). Records furnished by Duke Power Co.

OTHER RESERVOIRS.--The following smaller reservoirs in the South Atlantic Slope basins are described below, but records of contents are not published herein:

02077303 ROXBORO STEAM-ELECTRIC GENERATING PLANT AFTERBAY RESERVOIR.--Lat 36°31'51", long 78°59'50", Person County, cooling water reservoir for Carolina Power and Light Company plant, on Hyco River near McGehees Mill. Drainage area, 196 m^2 (508 km^2). Total capacity is approximately 522,720,000 ft^3 (144,803,000 m^3) with a surface area of about 650 acres (260 ha) at a normal elevation of 385 ft (117 m), above mean sea level. Dam completed May 30, 1974, and storage began Apr. 26, 1974; water in reservoir first reached normal water level elevation of 385 ft (117 m) on Aug. 22, 1974.

02087339 LAKE JOHNSON.--Lat 35°45'44", long 78°42'17", Wake County, part of Raleigh's municipal water supply, on Walnut Creek near Raleigh. Drainage area, 7.05 mi^2 (18.26 km^2). Total capacity is 98,900,000 ft^3 (2,800,000 m^3). Dam was completed in 1923 and spillway raised to its present elevation in 1951. (See sta 02087500)

02087344 LAKE RALEIGH.--Lat 35°45'56", long 78°40'38", Wake County, part of Raleigh's municipal water supply, on Walnut Creek near Raleigh. Drainage area, 12.3 mi^2 (31.9 km^2). Total capacity is 13,400,000 ft^3 (379,000 m^3). Dam completed in 1914 and raised to its present elevation in 1919. (See sta 02087500)

02087588 LAKE WHEELER.--Lat 35°41'30", long 78°41'31", Wake County, part of Raleigh's municipal water supply, on Swift Creek near Raleigh. Drainage area is 38 mi^2 (98 m^2), approximately. Total capacity is 267,400,000 ft^3 (7,573,000 m^3). Dam completed and storage began in 1956. (See sta 02087500)

02087701 LAKE BENSON.--Lat 35°39'44", long 78°36'42", Wake County, part of Raleigh's municipal water supply, on Swift Creek near Garner. Drainage area, 67 mi^2 (170 km^2), approximately. Total capacity is 133,700,000 ft^3 (3,786,000 m^3). Lake, formerly known as Rand's Mill, acquired by city of Raleigh in 1927 and spillway raised to its present elevation in 1954. (See sta 02087500)

02093981 LAKE HIGGINS.--Lat 36°10'11", long 79°52'49", Guilford County, part of Greensboro's municipal water supply, on Brush Creek near Greensboro. Drainage area, 12 mi^2 (31 km^2), approximately. Total capacity is 107,000,000 ft^3 (3,030,000 m^3). Reservoir first filled Mar. 1, 1957. (See sta 02094500)

02094117 LAKE BRANDT.--Lat 36°10'20", long 79°50'20", Guilford County, part of Greensboro's municipal water supply, on Reedy Fork and Horsepen Creek near Greensboro. Drainage area, 70.0 mi^2 (181.3 km^2), approximately. Total capacity is 294,000,000 ft^3 (8,326,000 m^3). Dam completed February 1923 and raised to present level 1959-60. Reservoir first filled at present level on Oct. 8, 1960. (See sta 02094500)

02094305 LAKE TOWNSEND.--Lat 36°11'25", long 79°43'57", Guilford County, part of Greensboro's municipal water supply, on Reedy Fork near Greensboro. Drainage area, 105 mi^2 (272 km^2). Total capacity is 869,000,000 ft^3 (24,600,000 m^3). Dam completed Oct. 18, 1968, and reservoir first filled Aug. 17, 1969. (See sta 02094500)

02096003 LAKE BURLINGTON.--Lat 36°10'25", long 79°24'53", Alamance County, part of Burlington's municipal water supply, on Stony Creek near Burlington. Drainage area, 44 mi^2 (1 4 km^2), approximately. Prior to October 1971 published as "Stony Creek Reservoir". Total capacity is 427,800,000 ft^3 (12,120,000 m^3). Dam completed August 1960 and reservoir first filled Jan. 28, 1961. (See sta 02096500)

02096432 STONY CREEK RESERVOIR.--Lat 36°07'37", long 79°24'20", Alamance County, part of Burlington's water supply on Stony Creek near Burlington. Drainage area, 95.0 mi^2 (246.0 km^2), approximately. Prior to October 1971 published as "Lake Burlington". Total capacity is 64,900,000 ft^3 (1,840,000 m^3). Dam completed and reservoir filled in 1928. (See sta 02096500)

02098495 OAK HOLLOW RESERVOIR.--Lat 36°00'42", long 79°59'11". Guilford County, part of High Point's municipal water supply, on West Fork Deep River, 1.8 mi (2.9 km) southwest of Deep River. Drainage area, 32 mi^2 (83 km^2), approximately. Total capacity is 468,000,000 ft^3 (13,300,000 m^3). Dead storage (non-withdrawal) is minor. Total surface area, about 725 acres (293 ha). Dam completed and storage began in May 1970. Reservoir first filled Dec. 24, 1970. (See sta 02099500)

02099096 HIGH POINT MUNICIPAL LAKE.--Lat 35°59'43", long 79°56'42", Guilford County, High Point's municipal water supply, on Deep River near High Point. Drainage area, 61.4 mi^2 (159 km^2). Total capacity is 220,588,000 ft^3 (6,247,050 m^3). Dam completed in 1926 and reservoir first filled in 1927. (See sta 02099500)

Lakes and Reservoirs in South Atlantic Slope basin--Continued

02102178 BUCKHORN RESERVOIR.--Lat 35°31'35", long 78°59'22", Chatham County, on Cape Fear River near Corinth. Drainage area, 3,200 mi^2 (8,290 km^2), approximately. Usable capacity is 69,700,000 ft^3 (19,700,000 m^3). 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 mi^2 (182 km^2). Total capacity is 284,100,000 ft^3 (8,046,000 m^3) of which 281,400,000 ft^3 (7,969,000 m^3) is usable. Dam completed Aug. 8, 1957, and reservoir first filled Nov. 23, 1957.

02184122 LAKE TOXAWAY.--Lat 35°07'27", long 82°55'56", Translyvania County, recreation lake on Toxaway River at town of Lake Toxaway. Drainage area, 7.79 mi^2 (20.18 m^2). Total surface area, about 640 acres (359 ha). Lake reached spillway elevation September 1961.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	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.....		365.7	-	10.44	3,361	-	199.36	19,044	-	131.7	3,295	-
Oct. 31.....		295.6	-70.1	10.05	3,300	-61	199.43	19,105	+61	129.7	2,916	-379
Nov. 30.....		261.7	-33.9	10.11	3,310	+10	199.74	19,376	+271	130.1	2,990	+74
Dec. 31.....		334.6	+72.9	10.67	3,397	+87	199.30	18,992	-384	132.0	3,360	+370
CAL YR 1974		-	-59.9	-	-	+130	-	-	+316	-	-	+162
Jan. 31.....		372.2	+37.6	10.64	3,392	-5	199.21	18,914	-78	127.8	2,597	-763
Feb. 28.....		378.7	+6.5	10.65	3,394	+2	199.93	19,540	+626	130.6	3,082	+485
Mar. 31.....		399.6	+20.9	11.18	3,481	-13	201.96	21,351	+1,811	132.5	3,467	+385
Apr. 30.....		368.3	-31.3	10.56	3,380	-101	200.04	19,637	-1,714	132.1	3,382	-85
May 31.....		378.7	+10.4	10.50	3,370	-10	199.29	18,983	-654	128.2	2,663	-719
June 30.....		376.4	-2.3	9.96	3,287	-83	199.73	19,367	+384	128.4	2,697	+34
July 31.....		343.6	-32.8	10.50	3,370	+83	199.87	19,488	+121	129.1	2,808	+111
Aug. 31.....		384.3	+40.7	10.15	3,316	-54	199.85	19,471	-17	126.6	2,395	-413
Sept. 30.....		389.4	+5.1	10.65	3,394	+78	199.52	19,184	-287	129.6	2,898	+503
WTR YR 1975		-	+23.7	-	-	+33	-	-	+140	-	-	-397

Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height (feet)	Contents (million cubic feet)	Change in contents (million ccubic feet)	Gage height	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage height	Contents (million cubic feet)	Change in contents (million cubic feet)
	02111391 W. Kerr Scott Reservoir			02122400 High Rock Lake			02122699 Tuckertown Reservoir			02122844 Badin Lake		
Sept. 30.....	1030.0	1,786	-	649.65	7,880	-	595.17	1,766	-	539.76	10,194	-
Oct. 31.....	1029.85	1,776	-10	641.91	4,461	-3,419	595.40	1,790	+24	539.00	10,007	-187
Nov. 30.....	1030.1	1,795	+19	643.34	4,977	+516	595.45	1,795	+5	539.63	10,147	+140
Dec. 31.....	1030.0	1,786	-9	639.63	3,704	-1,273	595.37	1,787	-8	539.49	10,124	-23
CAL YR 1974	-	-	-61	-	-	-7,386	-	-	-8	-	-	-303
Jan. 31.....	1030.0	1,786	0	652.51	9,517	+5,813	594.84	1,732	-55	540.69	10,404	+280
Feb. 28.....	1030.0	1,786	0	649.97	8,094	-1,423	595.42	1,792	+60	539.74	10,171	-233
Mar. 31.....	1036.1	2,218	+432	655.00	11,090	+2,996	595.38	1,788	-4	540.73	10,404	+233
Apr. 30.....	1030.0	1,786	-432	651.67	9,038	-2,052	595.30	1,780	-8	540.86	10,451	+47
May 31.....	1030.5	1,830	+44	655.00	11,090	+2,052	595.38	1,788	+8	540.99	10,474	+23
June 30.....	1030.0	1,786	-44	653.83	10,303	-787	595.32	1,782	-6	540.35	10,334	-140
July 31.....	1030.0	1,786	0	654.06	10,490	+187	595.31	1,781	-1	539.69	10,171	-163
Aug. 31.....	1029.9	1,780	-6	652.38	9,456	-1,034	595.32	1,782	+1	539.53	10,124	-47
Sept. 30.....	1030.0	1,786	+6	653.63	10,182	+726	595.48	1,799	+17	540.49	10,357	+233
WTR Yr 1975	-	-	0	-	-	+2,302	-	-	+33	-	-	+163

Lakes and Reservoirs in South Atlantic Slope basin--Continued

MONTHEND ELEVATIONS AND CONTENTS AT 2400, WATER YEAR OCTOBER 1974 to SEPTEMBER 1975

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)
	02123736 Lake Tillery			02128800 Blewett Falls Lake			02138519 Lake James			02141490 Rhodhiss Lake		
Sept. 30.....	239.1	5,837	-	138.1	1,756	-	96.9	11,727	-	96.3	1,190	-
Oct. 31.....	239.4	5,903	+66	136.3	1,570	-186	91.2	10,269	-1,458	97.2	1,311	+121
Nov. 30.....	238.8	5,772	-131	137.6	1,703	+133	89.9	9,957	-312	95.7	1,111	-200
Dec. 31.....	238.4	5,686	-86	138.5	1,798	+95	91.2	10,269	+312	95.7	1,111	0
CAL YR 1974	-	-	+322	-	-	-232	-	-	-1,458	-	-	-173
Jan. 31.....	238.4	5,686	0	136.1	1,550	-248	93.4	10,814	+545	97.3	1,325	+214
Feb. 28.....	238.4	5,686	0	136.3	1,570	+20	97.2	11,808	+994	96.2	1,176	-149
Mar. 31.....	239.5	5,925	+239	139.9	1,940	+370	100.3	12,668	+860	100.2	1,748	+572
Apr. 30.....	239.1	5,837	-88	137.9	1,734	-206	97.5	11,889	-779	97.9	1,409	-339
May 31.....	239.2	5,859	+22	141.8	2,130	+396	100.1	12,611	+722	99.4	+217	
June 30.....	238.6	5,729	-130	135.7	1,510	-620	98.0	12,025	-586	97.5	1,353	-273
July 31.....	238.4	5,686	-43	136.7	1,610	+100	96.6	11,647	-378	96.4	1,203	-150
Aug. 31.....	239.0	5,815	+129	138.4	1,787	+177	94.5	11,095	-552	97.7	1,380	+178
Sept. 30.....	237.4	5,471	-344	136.0	1,540	-247	99.5	12,441	+1,346	98.6	1,509	+128
WTR YR 1975	-	-	-366	-	-	-216	-	-	+714	-	-	+319

	02141961 Lake Hickory			02142441 Lookout Shoals Lake			02142647 Lake Norman			02142676 Mountain Island Lake		
Sept. 30.....	96.2	1,625	-	97.9	117	-	97.9	44,680	-	96.7	414	-
Oct. 31.....	96.3	1,641	+16	97.7	109	-8	95.2	41,140	-3,540	95.5	272	-142
Nov. 30.....	98.5	2,014	+373	97.7	109	0	94.1	39,760	-1,380	96.0	330	+58
Dec. 31.....	96.9	1,741	-273		113	+4	95.8	41,900	+2,140	95.5	272	-58
CAL YR 1974	-	-	-395	-	-	-34	-	-	-780	-	-	-35
Jan. 31.....	96.5	1,674	-67	97.7	109	-4	97.6	44,280	+2,380	95.4	261	-11
Feb. 28.....	98.3	1,979	+305	98.3	138	+29	98.5	45,500	+1,220	95.4	261	0
Mar. 31.....	99.9	2,260	+281	101.3	267	+129	99.4	46,750	+1,250	98.7	666	+405
Apr. 30.....	96.9	1,741	-519	98.0	121	-146	98.1	44,960	-1,790	95.5	272	-394
May 31.....	99.1	2,118	+377	101.3	267	+146	99.7	47,170	+2,210	96.3	366	+94
June 30.....	97.8	1,893	-225	98.2	130	-137	97.9	44,680	-2,490	95.7	296	-70
July 31.....	97.8	1,893	0	98.7	151	+21	98.0	44,820	+140	95.7	296	0
Aug. 31.....	96.5	1,674	-219	96.4	55	-96	95.3	41,260	-3,560	95.8	307	+11
Sept. 30.....	99.7	2,224	+550	99.8	199	+144	96.6	42,950	+1,690	98.5	640	+333
WTR YR 1975	-	-	+599	-	-	+82	-	-	-1,730	-	-	+226

OHIO RIVER BASIN

KANAWHA RIVER BASIN

03161000 South Fork New River near Jefferson, N. C.

LOCATION.--Lat 36°23'40", long 81°24'27", Ashe County, on right bank 600 ft (183 m) upstream from bridge on State Highways 16 and 88, 0.2 mi (0.3 km) downstream from Bear Creek, and 4 mi (6.4 km) southeast of Jefferson.

DRAINAGE AREA.--207 mi^2 (536 km^2).

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 2,657.04 ft (809.866 m) above mean sea level, unadjusted. Prior to Oct. 14, 1934, nonrecording gage on bridge 400 ft (122 m) downstream at same datum. Oct. 14, 1934 to Mar. 25, 1935, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--51 years, 422 ft^3/s (11.95 m^3/s), 27.68 in/yr (703 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,700 ft^3/s (105 m^3/s) Mar. 14 (gage height, 6.23 ft or 1.899 m); minimum, 187 ft^3/s (5.30 m^3/s) Sept. 6 (gage height, 2.02 ft or 0.616 m).
Period of record: Maximum discharge, 52,800 ft^3/s (1,500 m^3/s) Aug. 14, 1940 (gage height, 22.50 ft or 6.858 m) from rating curve extended above 5,100 ft^3/s (144 m^3/s) on basis of slope-area measurement of peak flow; minimum, 52 ft^3/s (1.47 m^3/s) Dec. 24, 1943, result of freezeup; minimum daily, 65 ft^3/s (1.84 m^3/s) Sept. 9, 1925.
Flood of July 15, 1916 reached a stage of 18.0 ft (5.49 m), from floodmarks, witnessed by local resident (discharge, 35,200 ft^3/s (997 m^3/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1275: 1925-26(M), 1928-30(M), 1931-32, 1933-35(M), 1941-42(m), 1944(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	376	325	268	552	446	602	938	446	2,090	402	297	320
2	360	321	303	493	473	575	847	476	1,430	386	272	246
3	351	317	342	452	520	535	819	443	1,000	381	262	209
4	347	314	342	476	495	522	761	587	811	377	269	198
5	345	316	303	474	647	516	711	516	712	400	304	191
6	341	317	268	423	993	485	672	438	830	433	441	190
7	337	306	342	412	952	506	653	424	658	404	420	246
8	332	302	486	397	704	813	637	450	575	386	340	311
9	329	300	595	395	617	590	619	443	534	368	315	258
10	325	297	303	389	555	559	610	490	637	355	302	221
11	307	295	385	945	529	597	608	489	1,020	334	299	221
12	315	336	385	783	550	694	591	449	1,580	355	288	226
13	315	341	409	1,020	570	1,140	563	460	1,220	391	275	225
14	311	310	413	778	517	3,020	548	421	870	672	267	225
15	315	312	417	625	488	2,030	562	423	742	438	262	208
16	617	307	634	602	490	1,270	548	641	689	391	260	207
17	761	300	661	529	597	1,140	525	767	627	391	295	219
18	454	375	507	484	560	947	517	1,170	597	395	261	1,090
19	403	500	440	482	522	1,690	505	1,160	612	443	252	1,190
20	384	510	429	532	493	1,430	502	789	545	418	270	471
21	374	576	403	554	467	1,100	476	649	510	443	269	385
22	362	425	393	480	448	964	463	612	496	377	283	337
23	356	374	382	455	459	938	457	533	488	342	261	876
24	352	351	384	438	1,200	1,050	458	500	460	433	250	2,790
25	348	345	499	615	1,530	1,510	481	460	438	372	238	1,350
26	344	345	737	822	883	1,010	535	453	429	391	228	707
27	339	326	559	599	725	886	455	463	524	334	230	536
28	336	318	729	536	649	817	438	423	481	308	317	444
29	354	312	840	503	------	805	434	677	445	293	240	395
30	333	318	658	480	------	1,390	431	1,530	430	283	208	364
31	329	------	589	455	------	1,190	------	1,210	------	283	209	------
TOTAL	11,452	10,391	14,405	17,180	18,079	31,321	17,364	18,992	22,480	11,979	8,684	14,856
MEAN	369	346	465	554	646	1,010	579	613	749	386	280	495
MAX	761	576	840	1,020	1,530	3,020	938	1,530	2,090	672	441	2,790
MIN	307	295	268	389	446	485	431	421	429	283	208	190
CFSM	1.78	1.67	2.25	2.68	3.12	4.88	2.80	2.96	3.62	1.86	1.35	2.39
IN.	2.06	1.87	2.59	3.09	3.25	5.63	3.12	3.41	4.04	2.15	1.56	2.67

CAL YR 1974 TOTAL 210,431 MEAN 577 MAX 3,430 MIN 268 CFSM 2.79 IN 37.82
WTR YR 1975 TOTAL 197,183 MEAN 540 MAX 3,020 MIN 190 CFSM 2.61 IN 35.44

PEAK DISCHARGE (BASE, 2,600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	1800	6.23	3,700	9-24	1900	6.00	3,400

03439000 French Broad River at Rosman, N. C.

LOCATION.--Lat 35°08'32", long 82°49'28", Transylvania County, on left bank at upstream side of bridge on U. S. Highway 178 at Rosman, 1.0 mi (1.6 km) upstream from East Fork, and at mile 216.4 (348.2 km).

DRAINAGE AREA.--67.9 mi^2 (175.9 km^2).

PERIOD OF RECORD.--May 1907 to June 1909, October 1935 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,173.83 ft (662.583 m) above mean sea level. Prior to June 30, 1909, nonrecording gage at site 500 ft (152 m) downstream at different datum. Jan. 1, 1936, to July 6, 1937, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--41 years (1907-8, 1935-75), 238 ft^3/s (6.740 m^3/s), 47.60 in/yr (1,209 mm/yr).

EXTREMES.--Current year: Maximum discharge, 4,540 ft^3/s (129 m^3/s) Sept. 23 (gage height, 10.26 ft or 3.127 m); minimum, 102 ft^3/s (2.89 m^3/s) Nov. 10, 11 (gage height, 1.91 ft or 0.582 m).
Period of record: Maximum discharge, 13,500 ft^3/s (382 m^3/s) Oct. 4, 1964 (gage height, 14.95 ft or 4.557 m); minimum, 23 ft^3/s (0.65 m^3/s) Jan. 3, 1940 (gage height, 1.51 ft or 0.460 m), result of freezeup; minimum daily, 37 ft^3/s (1.05 m^3/s) Sept. 25-28, Oct. 5, 6, 25, 26, 1954.
Flood of July 1916 reached a stage of 13.9 ft (4.24 m), from floodmarks.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 1306: 1908(M). WSP 1910: 1936(M), 1938(M), 1939-40, 1942-43.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	109	227	174	205	379	582	218	888	200	218	133
2	131	109	168	161	240	355	527	226	494	187	224	125
3	129	107	153	163	257	326	514	254	401	184	209	120
4	130	105	147	196	368	312	455	246	353	172	202	116
5	129	135	144	169	488	301	425	215	323	165	427	119
6	127	114	140	163	407	290	404	205	304	194	688	121
7	124	108	227	158	333	309	385	203	285	175	371	158
8	123	106	402	155	296	302	370	203	270	161	291	160
9	122	105	278	155	276	276	357	203	259	164	254	132
10	120	104	226	214	257	284	347	209	346	155	236	125
11	120	105	205	645	257	307	334	196	385	151	227	201
12	118	128	199	538	275	354	320	241	434	149	213	147
13	118	109	192	600	242	775	308	228	320	142	197	130
14	117	110	180	384	230	1,740	311	198	286	139	186	121
15	129	117	199	316	221	749	311	505	274	153	193	117
16	380	106	230	286	329	591	291	653	261	151	188	116
17	176	106	196	262	337	522	283	510	245	142	171	369
18	147	144	180	247	328	513	276	1,430	240	145	166	822
19	136	157	176	236	325	699	270	644	231	158	205	393
20	130	333	169	242	289	539	261	467	224	208	184	266
21	124	209	164	218	269	479	252	387	220	171	158	221
22	122	165	156	209	270	467	247	343	211	142	154	374
23	122	149	152	202	517	428	242	315	206	136	153	1,510
24	120	139	157	203	1,620	735	240	303	199	146	158	1,630
25	118	134	216	460	692	602	242	315	194	170	144	694
26	116	128	188	316	522	500	231	325	196	153	136	510
27	114	125	175	270	455	451	222	294	186	622	178	418
28	112	122	214	249	405	422	219	280	206	212	159	363
29	111	120	205	236	------	546	214	338	248	183	144	329
30	111	233	193	222	------	1,180	215	342	202	412	134	304
31	109	------	182	214	------	686	------	767	------	293	139	------
TOTAL	4,119	4,041	6,040	8,263	10,710	16,419	9,655	11,263	8,891	5,935	6,707	10,344
MEAN	133	135	195	267	383	530	322	363	296	191	216	345
MAX	380	333	402	645	1,620	1,740	582	1,430	888	622	688	1,630
MIN	109	104	140	155	205	276	214	196	186	136	134	116
CFSM	1.96	1.99	2.87	3.93	5.64	7.81	4.74	5.35	4.36	2.81	3.18	5.08
IN.	2.26	2.21	3.31	4.53	5.87	9.00	5.29	6.17	4.87	3.25	3.67	5.67

CAL YR 1974 TOTAL 98,011 MEAN 269 MAX 1,620 MIN 104 CFSM 3.96 IN 53.70
WTR YR 1975 TOTAL 102,387 MEAN 281 MAX 1,740 MIN 104 CFSM 4.14 IN 56.09

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-24	0615	8.47	3,100	7-27	0445	6.95	2,220
3-14	0230	8.73	3,270	9-23	2300	10.26	4,540
5-18	0545	8.49	3,110				

03441000 Davidson River near Brevard, N. C.

LOCATION.--Lat 35°16'23", long 82°42'21", Transylvania County, on right bank 150 ft (46 m) upstream from bridge on State Highway 280, 2.1 mi (3.4 km) downstream from Avery Creek, 3.3 mi (5.3 km) northeast of Brevard, and at mile 2.2 (3.5 km).

DRAINAGE AREA.--40.4 mi^2 (104.6 km^2).

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,115.13 ft (644.692 m) above mean sea level (levels by Tennessee Valley Authority). Prior to May 17, 1934, nonrecording gage, at site 50 ft (15 m) downstream at same datum.

AVERAGE DISCHARGE.--55 years, 129 ft^3/s (3.653 m^3/s), 43.36 in/yr (1,101 mm/yr).

EXTREMES.--Current year: Maximum discharge, 3,830 ft^3/s (108 m^3/s) Sept. 23 (gage height, 7.34 ft or 2.237 m); minimum, 40 ft^3/s (1.13 m^3/s) Sept. 5, 6 (gage height, 0.56 ft or 0.171 m).
Period of record: Maximum discharge, 8,400 ft^3/s (238 m^3/s) Aug. 15, 1928 (gage height, 11.8 ft or 3.597 m); minimum, 13 ft^3/s (0.37 m^3/s) Oct. 11, 1954 (gage height, 0.31 ft or 0.094 m).
Studies by Tennessee Valley Authority indicate the flood of June 1876 is the highest known, since at least 1869.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 1336: 1921, 1922(M), 1923, 1924-25(M), 1926, 1927(M), 1929-32(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	48	84	85	110	205	363	106	389	80	81	48
2	55	48	68	77	137	169	318	114	215	81	70	45
3	54	46	64	76	155	172	298	193	183	78	67	43
4	54	46	62	97	224	163	262	148	164	72	69	42
5	54	61	62	81	333	157	243	119	151	70	92	41
6	53	50	61	79	274	150	230	110	141	80	204	42
7	52	46	115	76	211	177	218	109	131	74	135	63
8	51	46	238	74	181	157	207	109	123	68	100	83
9	50	45	147	75	164	147	199	139	118	67	87	64
10	50	45	110	109	150	156	192	122	149	65	83	71
11	49	46	97	364	142	166	184	143	185	69	79	128
12	49	58	96	327	159	201	174	170	205	66	72	67
13	49	46	93	411	137	541	167	148	147	62	71	56
14	49	47	89	232	129	1,260	165	124	131	64	70	50
15	55	53	97	133	122	501	165	349	123	70	65	47
16	178	46	119	159	175	379	154	488	118	67	61	47
17	77	47	98	140	187	322	149	367	111	67	61	172
18	64	73	87	129	195	312	143	744	119	82	59	531
19	60	86	84	122	206	413	139	424	107	74	66	204
20	57	205	80	131	174	315	133	303	101	67	64	129
21	55	110	78	112	156	275	129	247	101	66	56	101
22	54	82	73	106	153	268	125	220	95	60	55	217
23	53	72	71	101	288	242	123	198	92	57	62	923
24	52	66	73	103	902	491	121	185	88	73	54	936
25	52	64	116	314	399	389	123	203	87	74	51	363
26	50	60	90	200	292	307	117	193	91	70	56	249
27	50	58	85	161	251	272	112	167	92	128	64	196
28	49	56	114	144	222	251	110	155	83	73	65	167
29	49	54	102	132	------	333	107	158	81	65	60	147
30	49	82	94	123	------	817	107	164	78	117	51	132
31	48	------	90	115	------	444	------	170	------	134	49	------
TOTAL	1,779	1,892	2,939	4,640	6,228	10,182	5,277	6,589	3,999	2,340	2,279	5,404
MEAN	57.4	63.1	94.8	150	222	328	176	213	133	75.5	73.5	180
MAX	178	205	238	411	902	1,260	363	744	389	134	204	936
MIN	48	45	61	74	110	147	107	106	78	57	49	41
CFSM	1.42	1.56	2.35	3.71	5.50	8.12	4.36	5.27	3.29	1.87	1.82	4.46
IN.	1.64	1.74	2.71	4.27	5.73	9.38	4.86	6.07	3.68	2.15	2.10	4.98

CAL YR 1974 TOTAL 53,728 MEAN 147 MAX 1,080 MIN 45 CFSM 3.64 IN 49.47
WTR YR 1975 TOTAL 53,548 MEAN 147 MAX 1,260 MIN 41 CFSM 3.64 IN 49.31

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0030	3.49	1,070	3-30	0330	4.03	1,380
2-24	0545	4.55	1,710	5-18	0600	3.67	1,170
3-14	0145	6.29	2,990	9-23	2230	7.34	3,830
3-24	1315	3.47	1,060				

03441440 Little River above High Falls, near Cedar Mountain, N. C.

LOCATION.--Lat 35°11'32", long 82°36'49", Transylvania County, on left bank 100 ft (30.5 m) upstream from High Falls, 0.2 mi (0.3 km) upstream from Grassy Creek, 1.0 mi (1.6 km) downstream from Reasonover Creek, 3.8 mi (6.1 km) northeast of Cedar Mountain, and at mile 7.8 (12.6 km).

DRAINAGE AREA.--26.8 mi^2 (69.4 km^2).

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,513.27 ft (766.045 m) above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--13 years, 109 ft^3/s (3.087 m^3/s), 55.23 in/yr (1,403 mm/yr) unadjusted.

EXTREMES.--Current year: Maximum discharge, 1,550 ft^3/s (43.9 m^3/s) May 18 (gage height, 4.18 ft or 1.274 m); minimum, 37 ft^3/s (1.05 m^3/s) Sept. 4 (gage height, 1.40 ft or 0.427 m).
Period of record: Maximum discharge, 5,600 ft^3/s (159 m^3/s) Oct. 4, 1964 (gage height, 7.30 ft or 2.225 m); minimum 13 ft^3/s (0.37 m^3/s) Oct. 7, 1970 (gage height, 1.23 ft or 0.375 m).

REMARKS.--Records good. E. I. du Pont de Nemours and Company plant 0.5 mi (0.8 km) above gage diverted about 1.23 ft^3/s (0.035 m^3/s) for industrial use. Since 1969, more than 7.82 mi^2 (20.25 km^2) of total drainage affected by occasional filling and/or draining of recreational lakes on tributaries upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	43	147	73	91	151	263	106	391	63	119	55
2	55	42	107	69	95	142	224	105	250	68	95	45
3	49	42	96	69	99	131	236	117	195	86	84	40
4	48	42	94	81	118	126	203	91	170	68	81	39
5	46	50	88	75	177	120	187	60	147	57	79	44
6	45	53	84	72	171	117	177	53	137	132	112	41
7	44	55	97	68	145	119	170	52	123	117	89	45
8	44	54	170	68	128	123	163	52	113	85	74	60
9	43	54	132	72	118	110	158	70	109	86	69	62
10	42	54	112	85	111	111	156	52	146	80	64	81
11	41	54	101	219	107	115	150	56	155	71	65	139
12	40	65	97	200	116	143	144	118	277	70	72	105
13	40	57	92	294	107	474	139	85	192	63	68	75
14	39	55	87	183	100	972	139	73	167	77	57	58
15	62	62	93	146	96	434	143	179	153	68	52	52
16	166	56	124	130	121	307	135	246	127	65	52	50
17	96	54	108	117	138	260	132	142	116	61	49	105
18	71	76	97	109	136	236	129	1,020	114	61	54	516
19	63	74	92	104	147	418	129	411	113	71	50	342
20	57	152	90	111	130	293	127	259	105	116	53	288
21	54	113	87	101	120	240	124	200	106	89	46	267
22	51	87	82	93	115	215	121	170	94	77	44	250
23	50	77	80	89	210	197	119	157	93	68	44	351
24	49	72	80	88	478	229	119	148	86	70	44	1,020
25	48	71	84	171	295	223	120	131	81	69	43	445
26	47	71	80	144	211	195	111	125	78	71	43	318
27	47	69	77	122	184	181	108	116	75	151	52	239
28	46	68	82	113	164	173	110	109	70	99	59	151
29	44	63	81	106	------	204	106	119	66	79	51	146
30	45	95	81	100	------	555	106	201	65	191	45	126
31	43	------	75	95	------	338	------	360	------	169	50	------
TOTAL	1,676	1,980	2,997	3,567	4,228	7,652	4,448	5,183	4,114	2,698	1,959	5,555
MEAN	54.1	66.0	96.7	115	151	247	148	167	137	87.0	63.2	185
MAX	166	152	170	294	478	972	263	1,020	391	191	119	1,020
MIN	39	42	75	68	91	110	106	52	65	57	43	39
CFSM	2.02	2.46	3.61	4.29	5.63	9.22	5.52	6.23	5.11	3.25	2.36	6.90
IN.	2.33	2.75	4.16	4.95	5.87	10.62	6.17	7.19	5.71	3.74	2.72	7.71

CAL YR 1974 TOTAL 41,004 MEAN 112 MAX 610 MIN 39 CFSM 4.18 IN 56.92
WTR YR 1975 TOTAL 46,057 MEAN 126 MAX 1,020 MIN 39 CFSM 4.70 IN 63.93

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	1515	3.80	1,240	5-18	1245	4.18	1,550
3-30	1145	3.08	716	9-24	0815	3.95	1,360

03443000 French Broad River at Blantyre, N. C.

LOCATION.--Lat 35°17'56", long 82°37'27", Transylvania County, on left bank 40 ft (12 m) upstream from bridge on Secondary Road 1503, 700 ft (213 m) east of railroad at Blantyre, 3.5 mi (5.6 km) downstream from Little River, and at mile 183.7 (295.6 km).

DRAINAGE AREA.--296 mi^2 (767 km^2).

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,060.32 ft (627.986 m) above mean sea level (levels by Tennessee Valley Authority). Prior to July 5, 1930, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--55 years, 978 ft^3/s (27.70 m^3/s), 44.87 in/yr (1,140 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,710 ft^3/s (190 m^3/s) Sept. 25 (gage height, 19.24 ft or 5.864 m); minimum, 392 ft^3/s (11.1 m^3/s) Oct. 14; minimum gage height, 4.91 ft (1.497 m) Nov. 11.
Period of record: Maximum discharge, 30,000 ft^3/s (850 m^3/s) Oct. 5, 1964 (gage height, 25.50 ft or 7.772 m, from floodmarks); minimum, 119 ft^3/s (3.37 m^3/s) Oct. 11, 1954 (gage height, 2.36 ft or 0.719 m).
Maximum stage since at least 1791, 27.1 ft (8.26 m) July 16, 1916, from floodmarks (from studies by Tennessee Valley Authority).

REMARKS.--Records good. Considerable diurnal fluctuation at low flow caused by powerplant about 8 mi (13 km) above station.

REVISIONS (WATER YEARS).--WSP 923: 1921-23, 1929, 1933, 1935-36(M), 1938, 1940.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	652	430	1,640	793	975	1,540	3,470	949	3,700	857	1,020	524
2	615	425	1,080	692	1,010	1,460	2,540	1,000	3,170	868	894	484
3	584	422	895	672	1,150	1,320	2,420	1,140	2,080	938	885	538
4	529	416	844	800	1,430	1,240	2,140	1,170	1,710	832	827	477
5	496	465	794	760	2,370	1,200	1,950	996	1,530	796	739	463
6	479	529	762	710	2,200	1,150	1,830	926	1,430	770	1,730	467
7	459	451	813	736	1,730	1,150	1,750	898	1,330	1,010	1,380	523
8	451	436	1,680	764	1,470	1,300	1,670	913	1,240	817	1,070	685
9	445	429	1,460	783	1,330	1,120	1,610	904	1,170	788	944	610
10	432	427	1,120	803	1,220	1,110	1,560	943	1,410	791	820	600
11	407	446	980	2,100	1,160	1,180	1,510	994	1,530	756	787	909
12	402	607	928	2,030	1,240	1,450	1,430	1,260	2,190	759	764	809
13	400	580	904	3,330	1,190	3,410	1,360	1,240	1,710	730	710	686
14	397	590	861	2,240	1,090	5,340	1,330	1,030	1,410	711	684	550
15	416	777	858	1,600	1,040	5,880	1,390	1,420	1,270	750	652	507
16	1,040	577	1,080	1,360	1,250	4,200	1,300	3,370	1,220	830	653	496
17	998	484	960	1,210	1,690	3,020	1,240	2,540	1,140	773	612	714
18	714	585	875	1,110	1,570	2,350	1,210	5,150	1,090	740	654	2,930
19	648	718	838	1,060	1,660	3,430	1,180	5,390	1,080	773	642	2,680
20	613	1,380	821	1,100	1,460	3,120	1,140	3,920	1,070	848	701	1,360
21	532	1,120	798	1,060	1,310	2,390	1,100	2,390	1,040	929	598	1,030
22	502	728	771	977	1,230	2,120	1,080	1,820	988	794	568	1,020
23	495	633	686	943	2,060	1,990	1,060	1,640	959	751	645	2,830
24	496	681	669	923	4,080	2,460	1,060	1,520	928	688	547	5,450
25	481	676	782	1,860	4,750	3,240	1,050	1,430	902	714	554	6,470
26	472	610	887	1,900	3,280	2,370	1,030	1,590	890	935	524	4,260
27	467	639	814	1,370	2,000	2,020	980	1,440	820	1,520	523	2,170
28	460	562	860	1,210	1,710	1,860	959	1,330	787	1,350	668	1,550
29	456	545	894	1,130	------	1,960	943	1,410	888	902	604	1,360
30	464	739	875	1,070	------	3,880	934	1,710	895	1,320	538	1,250
31	435	------	835	1,010	------	4,310	------	2,660	------	1,290	520	------
TOTAL	16,437	18,107	29,064	38,106	48,655	74,570	44,226	55,093	41,577	27,330	23,457	44,402
MEAN	530	604	938	1,229	1,738	2,405	1,474	1,777	1,386	882	757	1,480
MAX	1,040	1,380	1,680	3,330	4,750	5,880	3,470	5,390	3,700	1,520	1,730	6,470
MIN	397	416	669	672	975	1,110	934	898	787	688	520	463
CFSM	1.79	2.04	3.17	4.15	5.87	8.13	4.98	6.00	4.68	2.98	2.56	5.00
IN.	2.07	2.28	3.65	4.79	6.11	9.37	5.56	6.92	5.23	3.43	2.95	5.58

CAL YR 1974 TOTAL 437,274 MEAN 1,198 MAX 5,480 MIN 397 CFSM 4.05 IN 54.95
WTR YR 1975 TOTAL 461,024 MEAN 1,263 MAX 6,470 MIN 397 CFSM 4.27 IN 57.94

PEAK DISCHARGE (BASE, 4,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-25	1415	16.66	4,350	5-18	1900	18.51	5,820
3-15	0530	18.84	6,210	9-25	0815	19.24	6,710
3-31	0115	16.76	4,360				

03446000 Mills River near Mills River, N. C.

LOCATION.--Lat 35°23'56", long 82°35'46", Henderson County, on right bank 1.5 mi (2.4 km) downstream from confluence of North and South Forks, 1.8 mi (2.9 km) northwest of Mills River, 4.2 mi (6.8 km) northwest of Horseshoe, and at mile 4.6 (7.4 km).

DRAINAGE AREA.--66.7 mi^2 (172.8 km^2).

PERIOD OF RECORD.--September 1924 to September 1926, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,088.47 ft (636.566 m) above mean sea level (levels by Tennessee Valley Authority). Prior to Oct. 1, 1926, nonrecording gage at site 500 ft (152 m) upstream at datum 2.97 ft (0.905 m) higher.

AVERAGE DISCHARGE.--44 years, 166 ft^3/s (4.701 m^3/s), 33.80 in/yr (859 mm/yr).unadjusted.

EXTREMES.--Current year: Maximum discharge, 3,550 ft^3/s (101 m^3/s) Sept. 24 (gage height, 8.61 ft or 2.624 m); minimum, 63 ft^3/s (1.78 m^3/s) Oct. 14 (gage height, 1.74 ft or 0.530 m); minimum daily, 68 ft^3/s (1.93 m^3/s) Nov. 10, 11.
Period of record: Maximum discharge, 13,400 ft^3/s (379 m^3/s) Aug. 30, 1940 (gage height, 13.62 ft or 4.151 m), from rating curve extended above 6,200 ft^3/s (176 m^3/s) on basis of slope-area measurement of peak flow; minimum, 16 ft^3/s (0.45 m^3/s) Dec. 24, 1943 (gage height, 1.33 ft or 0.405 m), result of freezeup; minimum daily, 18 ft^3/s (0.51 m^3/s) Sept. 30, 1954.
The greatest flood since 1876 is probably that of Aug. 30, 1940.

REMARKS.--Records good except those for period of no gage-height record, which are fair. City of Hendersonville diverted an average of 4.94 ft^3/s (0.14 m^3/s) from North Fork and Bradley Creek for municipal water supply.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 923: 1935, 1937, 1939. WSP 1003: 1938, 1940-42. WSP 1143: 1940(P). WSP 1276: 1926.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	73	133	126	153	265	494	178	400	110	91	89
2	85	72	107	114	165	248	440	192	310	110	104	80
3	84	72	98	113	185	227	413	184	250	105	102	77
4	82	71	93	127	224	216	370	191	230	100	87	71
5	82	75	89	114	288	209	345	168	210	100	126	70
6	82	78	90	113	299	201	327	160	190	120	228	71
7	81	74	111	111	255	241	311	165	180	110	185	93
8	80	72	240	107	225	254	298	176	170	100	138	108
9	78	70	189	109	209	214	285	202	160	101	121	86
10	77	68	151	132	192	218	276	178	200	99	114	97
11	75	68	135	393	184	217	266	175	240	97	108	126
12	74	86	131	354	193	256	254	200	280	106	97	93
13	74	74	132	542	178	603	243	180	200	93	89	80
14	71	73	127	335	169	2,020	238	170	190	102	86	75
15	75	82	131	261	163	806	238	400	170	104	163	71
16	188	73	160	225	210	592	225	520	160	93	160	71
17	119	72	141	202	224	501	220	450	155	93	145	158
18	95	93	128	186	228	456	214	1,000	160	117	130	690
19	89	103	124	177	247	564	210	450	150	99	117	304
20	85	208	120	189	220	469	201	400	140	135	112	203
21	83	152	116	168	202	416	195	310	140	130	97	163
22	81	117	111	158	194	392	190	280	135	97	89	235
23	80	104	109	152	286	362	188	250	130	87	87	996
24	79	97	113	150	844	717	187	230	125	106	97	1,770
25	78	95	166	281	496	645	187	260	120	110	99	608
26	78	90	148	236	373	497	182	250	130	133	86	415
27	77	87	132	202	323	433	175	220	130	117	91	328
28	75	83	150	187	288	397	173	200	120	102	108	277
29	75	82	142	176	------	419	173	200	115	89	110	244
30	75	109	135	167	------	899	174	210	110	114	89	225
31	73	------	132	159	------	584	------	220	------	112	89	------
TOTAL	2,619	2,673	4,084	6,066	7,217	14,538	7,692	8,369	5,400	3,291	3,545	7,974
MEAN	84.5	89.1	132	196	258	469	256	270	180	106	114	266
MAX	188	208	240	542	844	2,020	494	1,000	400	135	228	1,770
MIN	71	68	89	107	153	201	173	160	110	87	86	70
CFSM	1.27	1.34	1.98	2.94	3.87	7.03	3.84	4.05	2.70	1.59	1.71	3.99
IN.	1.46	1.49	2.28	3.38	4.03	8.11	4.29	4.67	3.01	1.84	1.98	4.45

CAL YR 1974 TOTAL 72,266 MEAN 198 MAX 1,140 MIN 68 CFSM 2.97 IN 40.30
WTR YR 1975 TOTAL 73,468 MEAN 201 MAX 2,020 MIN 68 CFSM 3.01 IN 40.97

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-24	0830	4.13	1,170	5-18	Unknown	4.59	1,470
3-14	0615	7.53	3,000	9-18	0845	3.90	1,010
3-24	1630	4.28	1,270	9-24	0245	8.61	3,550
3-30	0600	4.21	1,230				

NOTE.--No gage-height record May 12 to July 9.

03448000 French Broad River at Bent Creek, N. C.

LOCATION.--Lat 35°30'07", long 82°35'35", Buncombe County, on left bank 50 ft (15 m) downstream from Bent Creek, 6.2 mi (10 km) upstream from Hominy Creek, 6.7 mi (10.8 km) south of Asheville, and at mile 157.7 (253.7 km).

DRAINAGE AREA.--676 mi^2 (1,751 km^2).

PERIOD OF RECORD.--October 1933 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,995.91 ft (608.353 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--42 years, 1,679 ft^3/s (47.55 m^3/s), 33.73 in/yr (857 mm/yr).

EXTREMES.--Current year: Maximum discharge, 16,100 ft^3/s (456 m^3/s) Mar. 14 (gage height, 10.76 ft or 3.280 m); minimum, 772 ft^3/s (21.9 m^3/s) Nov. 11, Sept. 6, 7, 16 (gage height, 2.77 ft or 0.844 m).
Period of record: Maximum discharge, 30,600 ft^3/s (867 m^3/s) Oct. 5, 1964 (gage height, 15.80 ft or 4.816 m); minimum, 230 ft^3/s (6.5 m^3/s) Oct. 4, 5, 10, 11, 12, 1954 (gage height, 2.05 ft or 0.625 m).
Maximum stage since at least 1791, 27.3 ft (8.32 m) July 15, 1916 (from floodmarks and studies by Tennessee Valley Authority). Flood in August 1928 reached a stage of about 16.1 ft (4.91 m), from floodmarks.

REMARKS.--Records good. Some diurnal fluctuation at low flow caused by powerplant about 34 mi (55 km) above station.

REVISIONS.--WSP 823: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,100	816	2,600	1,330	1,480	2,520	5,820	1,520	4,840	1,520	1,550	889
2	1,030	816	1,970	1,230	1,490	2,380	4,750	1,580	4,520	1,540	1,410	857
3	996	816	1,500	1,140	1,680	2,160	3,810	1,640	3,610	1,530	1,440	811
4	960	806	1,400	1,220	2,150	2,020	3,440	1,800	2,610	1,480	1,310	810
5	918	827	1,300	1,300	3,550	1,930	3,060	1,580	2,300	1,450	1,250	788
6	896	912	1,240	1,200	3,420	1,850	2,870	1,490	2,110	1,440	1,900	772
7	889	854	1,250	1,160	2,700	2,000	2,710	1,480	1,960	1,610	2,220	776
8	891	806	2,100	1,190	2,240	2,390	2,570	1,490	1,830	1,500	1,600	953
9	882	794	2,230	1,220	2,010	1,970	2,470	1,530	1,720	1,450	1,440	1,010
10	872	786	1,720	1,260	1,840	1,870	2,410	1,540	1,760	1,530	1,350	931
11	841	784	1,490	2,920	1,730	1,940	2,350	1,510	2,250	1,440	1,250	1,130
12	818	919	1,430	3,400	1,760	2,290	2,250	2,010	2,940	1,550	1,180	1,370
13	814	969	1,410	5,050	1,770	5,790	2,130	2,150	2,620	1,390	1,130	1,110
14	812	895	1,360	4,070	1,610	13,700	2,070	1,740	2,110	1,370	1,070	952
15	823	1,120	1,320	2,620	1,530	11,700	2,150	2,000	1,900	1,410	1,080	815
16	1,470	1,040	1,570	2,150	1,730	9,030	2,060	4,690	1,800	1,410	1,260	778
17	1,780	865	1,500	1,890	2,360	6,580	1,960	4,510	1,710	1,410	1,470	853
18	1,250	988	1,420	1,710	2,320	4,410	1,900	7,270	1,630	1,350	1,350	3,630
19	1,130	1,170	1,340	1,610	2,420	5,050	1,850	7,900	1,620	1,300	1,110	4,140
20	1,060	2,180	1,300	1,680	2,180	5,110	1,790	7,310	1,700	1,390	1,110	2,570
21	1,020	2,050	1,270	1,660	1,940	4,230	1,720	5,410	1,850	1,530	1,080	1,650
22	941	1,380	1,220	1,510	1,790	3,430	1,660	3,060	1,610	1,410	963	1,480
23	922	1,140	1,170	1,460	2,520	3,220	1,630	2,540	1,550	1,270	956	3,730
24	906	1,070	1,110	1,450	5,520	4,200	1,620	2,370	1,520	1,220	981	8,010
25	892	1,110	1,400	2,710	5,690	5,110	1,630	2,170	1,500	1,250	938	7,120
26	879	1,030	1,460	3,190	5,330	4,290	1,620	2,340	1,530	1,440	918	6,900
27	868	1,000	1,380	2,210	4,000	3,400	1,540	2,270	1,480	1,500	886	5,760
28	851	1,020	1,430	1,880	2,840	3,060	1,520	2,000	1,470	2,120	1,110	2,790
29	848	939	1,450	1,760	------	3,000	1,510	1,970	1,470	1,450	1,110	2,100
30	846	1,140	1,440	1,650	------	6,590	1,510	2,610	1,500	1,520	960	1,880
31	837	------	1,390	1,550	------	6,280	------	2,770	------	1,880	870	------
TOTAL	30,042	31,042	46,170	60,380	71,600	133,550	70,400	86,250	63,020	45,660	38,252	67,365
MEAN	969	1,035	1,489	1,948	2,557	4,308	2,347	2,782	2,101	1,473	1,234	2,246
MAX	1,780	2,180	2,600	5,050	5,690	13,700	5,820	7,900	4,840	2,120	2,220	8,010
MIN	812	784	1,110	1,140	1,480	1,850	1,510	1,480	1,470	1,220	870	772
CFSM	1.43	1.53	2.20	2.88	3.78	6.37	3.47	4.12	3.11	2.18	1.83	3.32
IN.	1.65	1.71	2.54	3.32	3.94	7.35	3.87	4.75	3.47	2.51	2.10	3.71

CAL YR 1974 TOTAL 727,267 MEAN 1,993 MAX 9,570 MIN 784 CFSM 2.95 IN 40.02
WTR YR 1975 TOTAL 743,731 MEAN 2,038 MAX 13,700 MIN 772 CFSM 3.01 IN 40.93

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-24	1245	6.24	6,120	5-18	1500	7.50	8,550
3-14	1530	10.76	16,100	9-24	0100	7.47	8,490
3-30	1115	6.99	7,540				

03448500 Hominy Creek at Candler, N. C.

LOCATION.--Lat 35°32'28", long 82°40'35", Buncombe County, on left bank 0.1 mi (0.2 km) downstream from Pole Creek, 0.4 mi (0.6 km) downstream from bridge on State Highway 112, 1.0 mi (1.6 km) east of Candler, and at mile 10.3 (16.6 km).

DRAINAGE AREA.--79.8 mi^2 (206.7 km^2).

PERIOD OF RECORD.--October 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,065.83 ft (629.665 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--33 years, 95.1 ft^3/s (2.693 m^3/s), 16.18 in/yr (411 mm/yr).

EXTREMES.--Current year: Maximum discharge, 5,050 ft^3/s (143 m^3/s) Sept. 23 (gage height, 10.52 ft or 3.206m); minimum, 36 ft^3/s (1.02 m^3/s) Sept. 4, 5 (gage height, 1.13 ft or 0.344 m).
Period of record: Maximum discharge, 6,800 ft^3/s (193 m^3/s) June 16, 1949 (gage height, 13.25 ft or 4.039 m); minimum, 13 ft^3/s (0.37 m^3/s) Sept. 2, 1953 (gage height, 0.80 ft or 0.244 m).
Flood of Aug. 30, 1940, reached a stage of 18.0 ft (5.49 m), from floodmarks (discharge, 13,100 ft^3/s or 371 m^3/s by conveyance method). Maximum stage since at least 1840, that of Aug. 30, 1940, from studies by Tennessee Valley Authority.

REMARKS.--Records good. Numerous small diversions for irrigation above station.

REVISIONS.--WSP 1113. Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	48	92	94	97	157	308	119	228	70	51	56
2	48	47	83	86	120	149	271	126	126	68	50	45
3	47	47	76	82	165	133	260	123	113	66	53	42
4	48	47	73	91	206	126	230	120	105	65	65	39
5	48	55	68	79	243	122	213	110	100	66	64	39
6	48	50	66	76	214	116	199	106	98	75	139	43
7	47	47	77	73	178	214	191	108	92	75	78	62
8	47	47	152	72	153	176	185	113	88	68	63	60
9	47	45	127	70	140	147	178	153	85	69	58	46
10	47	46	105	119	126	150	175	117	100	78	61	44
11	47	46	90	351	120	143	169	110	105	71	59	45
12	47	54	83	265	133	171	160	119	113	124	53	44
13	47	48	79	274	114	683	153	113	92	71	51	41
14	46	49	77	190	108	1,240	153	103	86	67	51	39
15	47	58	75	152	103	463	155	165	83	68	63	38
16	133	49	79	131	134	340	146	182	83	66	53	39
17	70	49	78	115	133	284	145	151	79	68	52	74
18	56	82	76	107	175	256	141	373	134	86	57	243
19	54	97	73	104	166	298	137	214	97	70	53	84
20	51	173	72	139	146	243	131	171	83	79	53	63
21	50	119	68	109	132	222	126	147	82	84	46	55
22	50	86	66	101	123	227	125	136	76	64	45	131
23	50	72	64	96	146	204	123	131	75	63	45	979
24	50	66	62	95	455	574	123	117	73	70	48	916
25	50	63	149	238	263	376	135	111	72	64	44	228
26	50	62	117	165	207	287	122	138	72	62	43	156
27	48	58	101	137	186	249	116	114	70	58	51	123
28	49	57	133	123	165	228	115	108	74	56	63	105
29	48	55	117	114	------	237	114	113	70	54	50	95
30	47	61	109	107	------	780	115	107	70	59	44	89
31	48	------	101	101	------	379	------	110	------	56	63	------
TOTAL	1,613	1,883	2,788	4,056	4,651	9,376	4,914	4,228	2,824	2,160	1,769	4,063
MEAN	52.0	62.8	89.9	131	166	302	164	136	94.1	69.7	57.1	135
MAX	133	173	152	351	455	1,240	308	373	228	124	139	979
MIN	46	45	62	70	97	118	114	103	70	54	43	38
CFSM	.65	.79	1.13	1.64	2.08	3.78	2.06	1.70	1.18	.87	.72	1.69
IN.	.75	.88	1.30	1.89	2.17	4.37	2.29	1.97	1.32	1.01	.82	1.89

CAL YR 1974 TOTAL 42,420 MEAN 116 MAX 994 MIN 45 CFSM 1.45 IN 19.77
WTR YR 1975 TOTAL 44,325 MEAN 121 MAX 1,240 MIN 38 CFSM 1.52 IN 20.66

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0100	3.56	968	3-30	0430	4.61	1,560
3-14	0145	6.99	2,940	9-23	2300	10.52	5,050
3-24	1300	4.65	1,590				

03450000 Beetree Creek near Swannanoa, N. C.

LOCATION.--Lat 35°39'11", long 82°24'20", Buncombe County, on left bank 0.5 mi (0.8 km) downstream from Wolfe Branch, 0.8 mi (1.3 km) upstream from Beetree Reservoir dam, 3.8 mi (6.1 km) north of Swannanoa, and 4.8 mi (7.7 km) above mouth.

DRAINAGE AREA.--5.46 mi^2 (14.14 km^2).

PERIOD OF RECORD.--February 1926 to September 1975 (discontinued).

GAGE.--Water-stage recorder and sharp-crested weir set in masonry control. Datum of gage is 2,728.39 ft (831.613 m) above mean sea level.

AVERAGE DISCHARGE.--49 years, 10.6 ft^3/s (0.300 m^3/s), 26.36 in/yr (670 mm/yr).

EXTREMES.--Current year: Maximum discharge, 493 ft^3/s (14.0 m^3/s) Mar 24 (gage height, 4.37 ft or 1.332 m); minimum, 1.1 ft^3/s (0.031 m^3/s) Aug. 26, 27, Sept. 4, 5, 6 (gage height, 0.79 ft or 0.241 m).
Period of record: Maximum discharge, 1,370 ft^3/s (38.8 m^3/s) Aug. 13, 1940 (gage height, 6.20 ft or 1.890 m), from rating curve extended above 240 ft^3/s (6.80 m^3/s) on basis of computation of peak flow over weir; minimum, 0.3 ft^3/s (0.008 m^3/s) Sept. 29, 30, Oct. 1, 1954 (gage height, 0.26 ft or 0.079 m).

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

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	3.3	7.3	16	12	16	48	8.2	23	5.6	2.0	3.1
2	3.1	3.2	6.5	13	16	14	41	8.5	16	5.3	1.9	1.9
3	3.0	3.1	6.2	12	17	13	38	9.9	14	4.9	1.8	1.5
4	3.0	3.1	6.0	14	20	13	31	10	12	4.6	1.7	1.2
5	2.9	3.5	6.0	12	37	12	27	8.8	11	4.4	2.8	1.1
6	2.8	3.1	6.2	11	34	11	23	8.3	10	5.0	5.3	1.2
7	2.7	3.0	7.6	10	27	17	20	8.3	9.0	4.9	3.0	3.6
8	2.6	2.9	15	10	23	18	18	8.2	8.0	4.2	2.3	3.0
9	2.5	2.8	12	9.6	20	15	16	13	7.0	4.0	2.0	2.0
10	2.4	2.8	9.9	10	17	15	15	11	7.5	3.7	2.2	1.7
11	2.4	2.8	9.2	22	16	16	14	11	10	3.6	2.1	1.8
12	2.4	3.6	9.1	25	17	25	13	11	16	4.2	1.7	2.3
13	2.4	3.1	8.8	34	14	77	13	10	14	3.5	1.6	2.3
14	2.4	3.3	8.4	26	13	180	12	9.6	11	3.6	1.5	1.7
15	3.2	3.3	8.7	23	12	63	12	13	10	3.7	4.6	1.5
16	16	3.2	10	18	16	45	11	17	9.0	3.5	4.7	1.5
17	7.2	3.5	9.1	15	19	38	11	15	8.0	3.2	2.2	2.6
18	5.8	8.0	8.3	14	20	32	10	28	7.0	3.2	2.0	21
19	5.2	14	8.2	14	20	36	10	22	8.0	3.7	1.7	9.2
20	4.9	32	7.8	19	18	35	9.4	18	7.0	3.9	1.5	6.5
21	4.6	23	7.5	16	16	31	8.9	13	6.5	3.2	1.9	5.2
22	4.4	15	7.0	14	15	30	8.6	12	6.0	3.0	1.9	5.2
23	4.2	12	6.7	13	16	27	8.5	11	5.0	2.7	1.5	32
24	4.1	10	7.1	13	33	139	8.3	10	5.0	3.2	1.6	73
25	3.9	9.3	20	26	28	76	9.6	10	4.5	3.1	1.4	24
26	3.8	8.1	16	23	23	48	8.5	9.0	4.5	2.6	1.2	14
27	3.7	7.6	15	20	20	40	8.0	8.0	4.0	2.3	2.8	11
28	3.5	7.0	30	18	18	34	7.9	7.0	7.7	2.1	4.0	8.9
29	3.5	6.6	26	16	------	33	7.7	16	8.2	2.0	2.0	7.7
30	3.4	7.2	21	15	------	126	7.6	16	5.8	2.1	1.6	6.8
31	3.4	------	18	13	------	61	------	14	------	2.6	2.6	------
TOTAL	122.6	213.4	344.6	514.6	557	1,336	476.0	368.8	274.7	111.6	71.1	258.5
MEAN	3.95	7.11	11.1	16.6	19.9	43.1	15.9	11.9	9.16	3.60	2.29	8.62
MAX	16	32	30	34	37	180	48	28	23	5.6	5.3	73
MIN	2.4	2.8	6.0	9.6	12	11	7.6	7.0	4.0	2.0	1.2	1.1
CFSM	.72	1.30	2.03	3.04	3.64	7.89	2.91	2.18	1.68	.66	.42	1.58
IN.	.84	1.45	2.35	3.51	3.79	9.10	3.24	2.51	1.87	.76	.48	1.76

CAL YR 1974 TOTAL 4,623.3 MEAN 12.7 MAX 86 MIN 2.4 CFSM 2.33 IN 31.50
WTR YR 1975 TOTAL 4,648.9 MEAN 12.7 MAX 180 MIN 1.1 CFSM 2.33 IN 31.67

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0100	4.25	445	3-30	0345	3.62	219
3-24	1130	4.37	493	9-23	2245	3.88	303

NOTE.--No gage height record May 21 to June 27.

03451000 Swannanoa River at Biltmore, N. C.

LOCATION.--Lat 35°34'06", long 82°32'42", Buncombe County, on left bank at Biltmore, 100 ft (30.5 m) downstream from Biltmore Avenue Bridge, 200 ft (61 m) upstream from Southern Railway Bridge, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--130 mi^2 (337 km^2).

PERIOD OF RECORD.--October 1920 to September 1926, May 1934 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,976.58 ft (602.462 m) above mean sea level (levels by Tennessee Valley Authority). Dec. 1, 1920, to Sept. 30, 1926, nonrecording gage at site 100 ft (30.5 m) upstream at same datum.

AVERAGE DISCHARGE.--48 years (1920-26, 1933-75), 160 ft^3/s (4.531 m^3/s) unadjusted.

EXTREMES.--Current year: Maximum discharge, 4,780 ft^3/s (135 m^3/s) Mar. 14 (gage height, 10.75 ft or 3.277 m); minimum, 38 ft^3/s (1.08 m^3/s) Sept. 16 (gage height, 1.38 ft or 0.421 m); minimum daily, 48 ft^3/s (1.36 $m/^3/s$) Sept. 15, 16.

Period of record: Maximum discharge, 18,400 ft^3/s (521 m^3/s) Aug. 13, 1940 (gage height, 19.00 ft or 5.791 m), from rating curve extended above 8,400 ft^3/s (238 m^3/s) on basis of computation of peak flow over dam 3.6 mi (5.8 km) above station; minimum, 1.1 ft^3/s (0.031 m^3/s) Oct. 9, 14, 15, 1941; minimum daily, 1.2 ft^3/s (0.034 m^3/s) Oct. 14, 1941.

Maximum stage observed, 26 ft or 7.9 m (discharge, 40,000 ft^3/s or 1,130 m^3/s) in April 1791, from studies by Tennessee Valley Authority. Flood of July 1916 reached a stage of 20.7 ft or 6.31 m (discharge, 23,000 ft^3/s or 651 m^3/s), from flood profile by Tennessee Valley Authority. Flood of Aug. 16, 1928, reached a stage of 18.74 ft (5.712 m), from floodmarks (discharge, 17,800 ft^3/s or 504 m^3/s). High stages are subject to backwater from French Broad River.

REMARKS.--Records good. Considerable regulation by Lake Craig 3.6 mi (5.8 km) above station from 1925 to 1950 (reservoir silted). No diversion from Beetree Reservoir above station by city of Asheville for water supply since June 1963. City of Asheville diverted an average of 33.0 ft^3/s (0.93 m^3/s) for water supply from Burnett Lake on North Fork Swannanoa River 20 mi (32 km) above station (see p. 191); an average of 30.5 ft^3/s (0.86 m^3/s) was discharged as sewage effluent into the French Broad River below station. Textile mills, the town of Black Mountain, and recreational camps diverted about 8 ft^3/s (0.23 m^3/s) above station, of which about half was discharged into the French Broad River below station. Complete record of diversions and return water not available.

REVISIONS (WATER YEARS).--WSP 803: 1921(M), 1923(M), 1925(M). WSP 823: Drainage area. WSP 1306: 1921(M), 1924(M), 1926(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	67	187	204	174	264	797	180	597	103	79	141
2	65	69	133	184	203	251	631	210	375	108	70	65
3	64	69	126	160	254	214	567	186	289	96	75	57
4	64	67	111	191	303	196	473	200	237	101	66	54
5	69	72	105	168	452	186	423	171	206	91	85	51
6	69	70	102	152	492	178	381	157	189	100	120	50
7	64	67	115	146	395	242	348	152	171	114	84	84
8	63	65	170	133	323	282	325	160	163	96	76	82
9	61	70	158	135	284	233	311	255	144	89	70	66
10	62	70	132	154	251	225	299	190	151	81	77	60
11	62	65	122	323	227	229	276	184	182	88	75	64
12	73	84	117	448	234	262	262	210	308	103	66	61
13	67	73	111	560	213	1,230	242	237	289	87	70	56
14	63	76	110	405	195	3,800	228	186	233	82	82	55
15	64	84	113	309	184	1,560	236	297	193	101	159	48
16	210	72	126	260	248	874	224	431	168	85	143	48
17	112	73	115	221	283	640	204	359	149	78	150	72
18	82	125	107	201	338	516	196	719	139	73	86	349
19	87	151	102	188	317	595	190	488	156	104	70	136
20	84	324	101	229	274	515	180	367	131	118	67	90
21	71	187	101	202	246	470	175	299	121	84	73	81
22	69	130	97	185	229	438	170	258	116	87	75	103
23	72	116	89	172	249	413	170	227	108	85	62	453
24	71	106	98	164	643	1,980	170	203	102	147	69	1,170
25	72	102	220	358	521	1,420	190	189	97	131	61	270
26	69	95	163	336	386	840	180	178	96	85	57	181
27	72	88	143	282	324	636	175	159	94	80	51	139
28	70	90	268	245	285	524	170	149	101	70	70	116
29	74	83	224	220	------	486	165	176	133	66	58	103
30	70	143	199	206	------	2,080	160	297	102	129	52	92
31	68	------	214	184	------	1,170	------	229	------	155	68	------
TOTAL	2,329	2,953	4,279	7,325	8,527	22,949	8,518	7,703	5,540	3,017	2,467	4,397
MEAN	75.1	98.4	138	236	305	740	284	248	185	97.3	79.6	147
MAX	210	324	268	560	643	3,800	797	719	597	155	159	1,170
MIN	61	65	89	133	174	178	160	149	94	66	51	48

CAL YR 1974 TOTAL 76,767 MEAN 210 MAX 1,670 MIN 61
WTR YR 1975 TOTAL 80,004 MEAN 219 MAX 3,800 MIN 48

03451500 French Broad River at Asheville, N. C.

LOCATION.--Lat 35°36'32", long 82°34'41", Buncombe County, on right bank 27 ft (8.2 m) upstream from Pearson Bridge (Secondary Road 1348) at Asheville, 1.4 mi (2.3 km) downstream from bridge on U. S. Highways 19 and 23, 3.2 mi (5.1 km) downstream from Swannanoa River, and at mile 145.8 (234.6 km).

DRAINAGE AREA.--945 mi^2 (2,448 km^2).

PERIOD OF RECORD.--October 1895 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,950.28 ft (594.445 m) above mean sea level. Sept. 17, 1895, to Dec. 31, 1901, nonrecording gage at present site at different datum. Mar. 19, 1903 to July 15, 1916, and Jan. 1, 1917, to Sept. 30, 1922, nonrecording gage at Smith Bridge 1.5 mi (2.4 km) upstream at datum 11.52 ft (3.511 m) higher. Oct. 1, 1922, to Aug. 9, 1930, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--80 years, 2,084 ft^3/s (59.02 m^3/s), 29.95 in/yr (761 mm/yr).

EXTREMES.--Current year: Maximum discharge, 21,000 ft^3/s (595 m^3/s) Mar. 14 (gage height, 9.53 ft or 2.905 m); minimum, 866 ft^3/s (24.5 m^3/s) Sept. 6 (gage height, 1.42 ft or 0.433 m); minimum daily, 896 ft^3/s (25.4 m^3/s) Sept. 6.
Period of record: Maximum discharge, 110,000 ft^3/s (3,115 m^3/s) July 16, 1916 (gage height, 23.1 ft or 7.04 m, present site and datum, from floodmarks), from rating curve extended above 43,000 ft^3/s (1,218 m^3/s); minimum, 239 ft^3/s (6.77 m^3/s) at times in August and September 1925 (gage height, 0.16 ft or 0.049 m).
Maximum stage observed since at least 1791, that of July 16, 1916, and flood of June 17, 1876, reached a stage of 18 ft (5.5 m), from studies by Tennessee Valley Authority.

REMARKS.--Records good. Many small diversions from tributaries above station for water supply. Diversions by city of Asheville and others from upstream tributaries in the Swannanoa River basin totaled about 40 ft^3/s or 1.13 m^3/s (see sta 03451000) of which 30.5 ft^3/s (0.864 m^3/s) was discharged as sewage effluent 4 mi (6.4 km) below station. Slight diurnal fluctuation and occasional slight regulation at low flow caused by powerplant 46 mi (74 km) upstream and small reservoirs above station.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 1306: 1895-1909, 1901(M), 1914-15(M), 1917(M), 1920-22(M), 1927(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,330	1,030	3,020	1,760	1,950	3,120	7,450	2,000	5,950	1,630	1,800	1,220
2	1,250	1,020	2,520	1,640	1,990	2,950	6,210	2,130	5,310	1,720	1,530	1,040
3	1,210	1,020	1,910	1,520	2,270	2,690	4,950	2,100	4,350	1,640	1,600	968
4	1,180	1,010	1,720	1,630	2,710	2,510	4,380	2,300	3,080	1,600	1,470	967
5	1,130	1,040	1,610	1,670	4,590	2,410	3,910	2,080	2,720	1,500	1,490	903
6	1,120	1,110	1,540	1,550	4,530	2,320	3,610	1,900	2,520	1,490	2,050	896
7	1,100	1,090	1,550	1,520	3,580	2,530	3,400	1,850	2,370	1,750	2,590	1,040
8	1,090	1,010	2,440	1,520	2,930	3,160	3,260	1,920	2,210	1,640	1,910	1,280
9	1,080	1,000	2,770	1,550	2,640	2,580	3,140	2,160	2,090	1,500	1,650	1,240
10	1,070	1,000	2,210	1,620	2,430	2,410	3,030	2,030	2,090	1,640	1,540	1,080
11	1,040	992	1,910	3,710	2,290	2,480	2,920	1,920	2,600	1,510	1,450	1,310
12	1,020	1,130	1,790	4,290	2,310	2,790	2,800	2,350	3,340	1,780	1,360	1,550
13	1,010	1,210	1,730	6,540	2,310	7,950	2,680	2,700	3,170	1,500	1,310	1,280
14	1,010	1,140	1,680	5,290	2,120	19,500	2,590	2,240	2,590	1,430	1,250	1,130
15	1,000	1,330	1,640	3,420	2,020	15,100	2,670	2,410	2,290	1,500	1,450	979
16	1,780	1,310	1,920	2,780	2,230	11,100	2,590	5,590	2,160	1,500	1,640	943
17	2,220	1,130	1,950	2,460	2,950	8,270	2,470	5,390	2,050	1,490	1,810	1,060
18	1,540	1,300	1,780	2,240	3,060	5,720	2,400	8,630	2,000	1,470	1,690	4,090
19	1,380	1,550	1,680	2,130	3,140	6,170	2,360	9,240	2,050	1,430	1,320	4,570
20	1,310	2,730	1,640	2,250	2,830	6,270	2,290	8,510	1,970	1,530	1,310	3,090
21	1,260	2,650	1,600	2,210	2,540	5,380	2,210	6,510	2,160	1,740	1,300	2,000
22	1,170	1,780	1,540	2,010	2,350	4,430	2,140	3,800	1,890	1,570	1,180	1,850
23	1,150	1,470	1,480	1,920	2,920	4,100	2,110	3,060	1,790	1,420	1,150	4,730
24	1,130	1,360	1,410	1,870	6,920	7,350	2,100	2,830	1,730	1,400	1,190	11,700
25	1,110	1,390	1,940	3,250	7,100	7,580	2,140	2,600	1,690	1,430	1,130	8,160
26	1,120	1,340	1,960	4,120	6,460	5,940	2,130	2,700	1,720	1,570	1,070	7,650
27	1,090	1,270	1,770	2,910	5,130	4,630	2,020	2,780	1,650	1,550	1,040	6,560
28	1,080	1,300	2,020	2,490	3,530	4,070	1,960	2,450	1,600	2,270	1,340	3,410
29	1,070	1,220	2,010	2,310	------	3,900	1,970	2,410	1,630	1,640	1,310	2,470
30	1,070	1,390	1,890	2,190	------	10,000	1,950	3,080	1,650	1,640	1,150	2,220
31	1,050	------	1,830	2,070	------	8,470	------	3,110	------	2,160	1,090	------
TOTAL	37,170	39,322	58,460	78,440	91,830	177,880	89,840	104,780	74,420	49,640	45,170	81,386
MEAN	1,199	1,311	1,886	2,530	3,280	5,738	2,995	3,380	2,481	1,601	1,457	2,713
MAX	2,220	2,730	3,020	6,540	7,100	19,500	7,450	9,240	5,950	2,270	2,590	11,700
MIN	1,000	992	1,410	1,520	1,950	2,320	1,950	1,850	1,600	1,400	1,040	896
CFSM	1.27	1.39	2.00	2.68	3.47	6.07	3.17	3.58	2.63	1.69	1.54	2.87
IN.	1.46	1.55	2.30	3.09	3.61	7.00	3.54	4.12	2.93	1.95	1.78	3.20

CAL YR 1974 TOTAL 925,262 MEAN 2,535 MAX 12,700 MIN 992 CFSM 2.68 IN 36.42
WTR YR 1975 TOTAL 928,338 MEAN 2,543 MAX 19,500 MIN 896 CFSM 2.69 IN 36.54

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	1530	9.53	21,000	5-18	1715	6.08	10,200
3-24	1530	6.62	11,500	9-24	0445	7.99	15,500
3-30	0845	6.87	12,200				

03453500 French Broad River at Marshall, N. C.

LOCATION.--Lat 35°47'10", long 82°39'39", Madison County, on right bank 0.7 mi (1.1 km) upstream from Hayes Creek, 1.0 mi (1.6 km) downstream from Ivy River, 1.5 mi (2.4 km) southeast of Marshall, and at mile 126.7 (203.9 km).

DRAINAGE AREA.--1,332 mi^2 (3,450 km^2).

PERIOD OF RECORD.--October 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,646.79 ft (501.942 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--33 years, 2,454 ft^3/s (69.50 m^3/s), 25.02 in/yr (636 mm/yr).

EXTREMES.--Current year: Maximum discharge, 32,900 ft^3/s (932 m^3/s) Mar. 14 (gage height, 10.29 ft or 3.136 m); minimum, 1,050 ft^3/s (29.7 m^3/s) Sept. 5, 6 (gage height, 1.35 ft or 0.411 m); minimum daily, 1,080 ft^3/s (30.6 m^3/s) Sept. 6.
Period of record: Maximum discharge, 40,400 ft^3/s (1,144 m^3/s) Mar. 26, 1965 (gage height, 11.54 ft or 3.517 m); minimum, 193 ft^3/s (5.47 m^3/s) Sept. 13, 14, 1954 (gage height, 0.36 ft or 0.110 m); minimum daily, 292 ft^3/s (8.27 m^3/s) Sept. 27, 28, 1954.
Maximum stage observed since at least 1791, 22.0 ft (6.71 m) July 16, 1916 (discharge, 115,000 ft^3/s or 3,257 m^3/s), and flood of Aug. 30, 1940, reached a stage of 16.6 ft or 5.06 m (discharge, 70,000 ft^3/s or 1,982 m^3/s), from high-water marks, flood profiles, and studies by Tennessee Valley Authority.

REMARKS.--Records good. Small diversions from tributaries for water supply. Slight diurnal fluctuation and occasional slight regulation at low flow caused by small reservoirs above station. Prior to July 1963, some regulation by Weaverville plant of Carolina Power and Light Company 15 mi (24 km) upstream. Water quality records for the current year are published in Section 2 of this report.

REVISIONS (WATER YEARS).--WSP 1436: 1954(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,590	1,230	3,630	2,390	2,450	3,820	8,480	2,470	6,370	1,880	2,110	1,480
2	1,470	1,210	3,290	2,190	2,680	3,630	7,140	2,660	5,680	2,020	1,790	1,270
3	1,410	1,210	2,480	2,010	3,190	3,290	5,880	2,580	4,940	1,900	1,820	1,160
4	1,390	1,200	2,190	2,170	3,820	3,060	5,220	2,890	3,680	1,990	1,710	1,150
5	1,340	1,230	2,050	2,180	6,120	2,940	4,720	2,640	3,230	1,880	1,660	1,090
6	1,310	1,290	1,950	2,040	5,970	2,830	4,390	2,390	3,000	1,790	2,590	1,080
7	1,300	1,300	1,900	1,960	4,840	3,190	4,160	2,310	2,810	2,050	3,030	1,210
8	1,290	1,220	2,720	1,920	3,940	4,190	3,970	2,370	2,620	2,030	2,280	1,510
9	1,280	1,190	3,420	1,950	3,470	3,410	3,820	2,870	2,470	1,830	1,940	1,440
10	1,260	1,180	2,780	2,020	3,140	3,210	3,740	2,590	2,450	1,900	1,820	1,340
11	1,240	1,170	2,390	4,990	2,930	3,340	3,610	2,420	2,960	1,820	1,720	1,340
12	1,210	1,300	2,210	5,150	2,980	4,030	3,470	2,680	3,770	2,090	1,610	1,800
13	1,190	1,440	2,120	7,660	2,950	11,800	3,300	3,390	3,820	1,810	1,540	1,540
14	1,190	1,370	2,050	6,210	2,730	25,300	3,200	2,810	3,090	1,680	1,450	1,340
15	1,190	1,510	1,980	4,390	2,570	17,500	3,270	2,710	2,770	1,770	1,570	1,190
16	2,080	1,580	2,240	3,500	2,790	12,500	3,210	5,670	2,580	1,760	1,970	1,120
17	2,670	1,370	2,330	3,060	3,680	9,490	3,050	5,850	2,450	1,770	1,710	1,170
18	1,940	1,640	2,110	2,760	3,950	6,760	2,960	9,000	2,320	1,770	2,220	3,820
19	1,650	2,110	1,980	2,620	4,120	6,560	2,900	9,500	2,490	1,660	1,550	4,950
20	1,550	4,220	1,920	3,180	3,730	6,950	2,840	9,000	2,260	1,770	1,490	3,660
21	1,500	3,650	1,890	3,060	3,320	6,180	2,730	6,870	2,510	1,990	1,480	2,330
22	1,400	2,440	1,830	2,720	3,020	5,400	2,660	4,530	2,240	1,870	1,380	2,100
23	1,360	1,940	1,760	2,520	3,260	5,050	2,620	3,630	2,110	1,670	1,300	5,040
24	1,350	1,730	1,700	2,410	7,550	9,400	2,600	3,340	2,030	1,630	1,390	13,200
25	1,330	1,740	2,860	4,470	7,790	9,740	2,680	3,070	1,980	1,760	1,320	8,240
26	1,320	1,710	2,830	5,430	6,950	7,210	2,680	3,050	1,990	1,740	1,260	7,510
27	1,290	1,560	2,400	3,980	5,890	5,690	2,520	3,310	1,970	1,810	1,210	6,670
28	1,280	1,590	3,400	3,280	4,300	5,050	2,450	2,880	1,880	2,390	1,520	4,100
29	1,270	1,500	3,150	2,980	------	4,840	2,450	2,790	1,950	2,010	1,520	2,800
30	1,270	1,660	2,770	2,800	------	15,700	2,500	3,410	1,910	1,740	1,380	2,500
31	1,260	------	2,560	2,620	------	10,200	------	3,530	------	2,490	1,270	------
TOTAL	44,180	49,490	74,890	100,620	114,130	222,260	109,220	119,210	86,330	58,270	52,610	89,150
MEAN	1,425	1,650	2,416	3,246	4,076	7,170	3,641	3,845	2,878	1,880	1,697	2,972
MAX	2,670	4,220	3,630	7,660	7,790	25,300	8,480	9,500	6,370	2,490	3,030	13,200
MIN	1,190	1,170	1,700	1,920	2,450	2,830	2,450	2,310	1,880	1,630	1,210	1,080
CFSM	1.07	1.24	1.81	2.44	3.06	5.38	2.73	2.89	2.16	1.41	1.27	2.23
IN.	1.23	1.38	2.09	2.81	3.19	6.21	3.05	3.33	2.41	1.63	1.47	2.49

CAL YR 1974 TOTAL 1,117,330 MEAN 3,061 MAX 17,300 MIN 1,170 CFSM 2.30 IN 31.20
WTR YR 1975 TOTAL 1,120,360 MEAN 3,069 MAX 25,300 MIN 1,080 CFSM 2.30 IN 31.29

PEAK DISCHARGE (BASE, 10,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0345	10.29	32,900	5-18	2000	5.34	10,100
3-24	1645	7.44	18,400	9-24	0300	7.47	18,600
3-30	0800	8.11	21,400				

03455500 West Fork Pigeon River above Lake Logan, near Hazelwood, N. C.

LOCATION.--Lat 35°23'46", long 82°56'17", Haywood County, on right bank at upstream side of bridge on Secondary Road 1216, 600 ft (183 m) upstream from Big Creek, 1.1 mi (1.8 km) upstream from Lake Logan, 6.7 mi (10.8 km) southeast of Hazelwood, and at mile 9.3 (15.0 km).

DRAINAGE AREA.--27.6 mi^2 (71.5 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 2,976.00 ft (907.085 m) above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--21 years, 102 ft^3/s (2.889 m^3/s), 50.19 in/yr (1,275 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,200 ft^3/s (176 m^3/s) Sept. 23 (gage height, 7.66 ft or 2.335 m); minimum, 16 ft^3/s (0.45 m^3/s) Sept. 5, 6 (gage height, 0.95 ft or 0.290 m).
Period of record: Maximum discharge, 9,740 ft^3/s (276 m^3/s) Feb. 13, 1966 (gage height, 9.5 ft or 2.90 m, from floodmarks); minimum, 9.4 ft^3/s (0.27 m^3/s) Sept. 29, 30, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	28	61	122	109	176	314	67	299	35	35	22
2	25	27	50	106	199	156	268	85	91	33	31	19
3	25	27	48	118	163	147	249	127	78	36	30	17
4	26	26	60	151	284	141	207	88	71	31	37	16
5	25	70	73	108	596	129	186	68	66	30	43	16
6	25	35	67	101	285	124	170	63	63	44	99	16
7	25	29	118	93	216	197	156	62	58	36	46	32
8	24	28	224	92	185	160	145	61	54	32	39	35
9	24	27	101	95	167	126	137	86	52	31	35	32
10	24	26	92	322	151	136	130	66	60	28	36	21
11	24	27	74	378	150	166	119	61	83	28	36	25
12	24	43	81	313	207	261	110	65	106	31	35	23
13	24	30	74	266	147	758	103	64	65	26	30	23
14	23	34	68	171	134	1,030	101	57	55	25	30	19
15	42	37	81	151	125	338	107	201	51	26	29	17
16	302	31	97	137	202	277	92	189	50	27	35	17
17	59	43	72	123	214	248	87	99	47	35	27	162
18	44	90	73	118	253	223	81	304	55	41	28	510
19	40	162	65	123	237	315	80	142	49	43	25	88
20	38	289	62	148	177	206	76	108	66	43	24	54
21	37	104	61	111	157	179	72	95	58	31	22	45
22	36	76	56	104	149	188	69	99	47	27	43	98
23	34	66	54	98	404	162	68	90	44	27	36	1,390
24	34	59	84	106	892	906	66	80	42	31	27	572
25	33	58	367	532	291	348	73	87	41	27	22	177
26	32	51	124	195	237	263	64	82	41	25	40	130
27	31	48	189	159	213	226	59	70	38	28	48	110
28	30	45	379	143	189	201	57	65	37	25	32	95
29	29	44	181	135	------	450	56	68	37	57	30	85
30	29	64	162	124	------	1,060	58	73	35	117	23	80
31	29	------	138	115	------	386	------	83	------	67	22	------
TOTAL	1,223	1,724	3,436	5,058	6,733	9,683	3,560	2,955	1,939	1,123	1,075	3,946
MEAN	39.5	57.5	111	163	240	312	119	95.3	64.6	36.2	34.7	132
MAX	302	289	379	532	892	1,060	314	304	299	117	99	1,390
MIN	23	26	48	92	109	124	56	57	35	25	22	16
CFSM	1.43	2.08	4.02	5.91	8.70	11.3	4.31	3.45	2.34	1.31	1.26	4.78
IN.	1.65	2.32	4.63	6.82	9.07	13.05	4.80	3.98	2.61	1.51	1.45	5.32

CAL YR 1974 TOTAL 41,627 MEAN 114 MAX 1,060 MIN 23 CFSM 4.13 IN 56.11
WTR YR 1975 TOTAL 42,455 MEAN 116 MAX 1,390 MIN 16 CFSM 4.20 IN 57.22

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-10	2300	5.44	2,860	3-24	1145	6.34	4,130
2-24	0400	5.34	2,730	3-30	0145	5.79	3,340
3-14	0015	7.61	6,120	9-23	2030	7.66	6,200

03456000 West Fork Pigeon River below Lake Logan, near Waynesville, N. C.

LOCATION.--Lat 35°26'38", long 82°54'46", Haywood County, on right bank at downstream side of bridge on Secondary Road 1111 at Riverside Church, 2.6 mi (4.2 km) downstream from Little East Fork Pigeon River, 3.4 mi (5.5 km) downstream from Lake Logan, 3.8 mi (6.1 km) upstream from confluence with East Fork Pigeon River, and 5.3 mi (8.5 km) southeast of Waynesville.

DRAINAGE AREA.--55.3 mi^2 (143.2 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 2,725.08 ft (830.604 m) above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--21 years, 161 ft^3/s (4.560 m^3/s), 39.54 in/yr (1,004 mm/yr) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 5,440 ft^3/s (154 m^3/s) Mar. 14 (gage height, 7.85 ft or 2.393 m); minimum, 38 ft^3/s (1.08 m^3/s) Oct. 9, Sept. 12 (gage height, 0.55 ft or 0.168 m); minimum daily, 39 ft^3/s (1.10 m^3/s) Oct. 9-11.
Period of record: Maximum discharge, 8,930 ft^3/s (253 m^3/s) Feb. 13, 1966 (gage height, 9.62 ft or 2.932 m), from rating curve extended above 3,300 ft^3/s (93.5 m^3/s); minimum, 7.6 ft^3/s (0.22 m^3/s) Sept. 7, 1954, minimum gage height, 0.10 ft (0.030 m) Oct. 22, 23, 1963.

REMARKS.--Records good. Considerable regulation at times caused by Lake Logan (see p. 191).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	42	108	191	191	319	560	131	398	63	58	45
2	41	43	82	166	284	639	484	135	166	62	54	47
3	41	43	76	169	275	658	451	202	143	66	54	48
4	41	42	72	228	378	244	387	159	131	61	53	48
5	41	67	70	166	761	232	356	128	123	59	56	50
6	40	57	70	156	469	222	331	120	116	65	125	54
7	40	44	136	145	371	296	306	118	108	63	77	54
8	40	43	330	142	325	255	285	115	102	59	60	43
9	39	44	171	145	295	230	269	151	98	59	56	43
10	39	43	131	257	267	245	254	125	109	56	57	43
11	39	44	124	606	255	268	235	118	123	56	56	42
12	48	52	131	333	325	353	215	123	169	57	54	40
13	45	49	123	409	252	892	202	121	115	55	52	44
14	43	48	113	280	230	1,510	198	109	99	53	50	46
15	42	49	123	246	216	598	205	243	93	53	49	46
16	278	46	154	224	301	496	182	279	89	51	48	49
17	92	52	119	202	329	446	175	163	85	52	47	61
18	65	116	103	193	383	403	166	371	87	55	53	368
19	57	160	107	194	395	493	159	230	89	54	45	139
20	53	387	103	239	318	380	152	178	112	56	45	81
21	50	167	99	184	285	347	143	158	110	58	46	67
22	49	120	91	172	264	349	136	164	84	55	46	104
23	48	102	88	162	438	322	135	161	79	56	53	1,440
24	47	92	111	165	1,330	1,170	136	138	74	57	46	827
25	46	91	442	704	514	599	148	150	72	53	43	265
26	46	79	211	368	418	471	135	157	72	52	45	191
27	46	75	224	296	377	417	125	129	67	50	54	156
28	45	70	401	262	341	380	121	122	66	49	50	134
29	45	68	281	240	------	583	118	124	65	48	45	119
30	44	104	249	222	------	1,530	122	128	62	113	42	109
31	43	------	215	205	------	695	------	135	------	102	45	------
TOTAL	1,675	2,441	4,938	7,722	10,587	15,382	6,893	4,888	3,306	1,850	1,664	4,605
MEAN	54.0	81.4	159	249	378	496	230	158	110	59.7	53.7	160
MAX	278	387	481	704	1,330	1,530	560	371	398	113	125	1,440
MIN	39	42	70	142	191	222	118	109	62	48	42	40
(†)	+8	+21	+3	-1	+4	+6	-15	+5	-12	+2	-101	+106
MEAN‡	54.3	82.1	159	249	378	496	229	158	110	59.7	50.4	164
CFSM‡	0.98	1.48	2.87	4.50	6.84	8.97	4.14	2.86	1.99	1.08	0.91	2.97
IN.‡	1.13	1.66	3.32	5.19	7.12	10.35	4.63	3.29	2.22	1.25	1.05	3.30

CAL YR 1974 TOTAL 67,263 MEAN 184 MAX 1,560 MIN 39 MEAN‡ 184 CFSM‡ 3.33 IN.‡ 45.21
WTR YR 1975 TOTAL 66,151 MEAN 181 MAX 1,590 MIN 39 MEAN‡ 181 CFSM‡ 3.27 IN.‡ 44.51

† Change in contents, in cfs-days, in Lake Logan.

‡ Adjusted for change in lake contents.

03456500 East Fork Pigeon River near Canton, N. C.

LOCATION.--Lat 35°27'42", long 82°52'12", Haywood County, on right bank 800 ft (244 m) upstream from bridge on U. S. Highway 276, 0.3 mi (0.5 km) downstream from Dix Creek, 1.6 mi (2.6 km) upstream from confluence with West Fork Pigeon River, and 5.2 mi (8.4 km) southwest of Canton.

DRAINAGE AREA.--51.5 mi^2 (133.4 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 2,674.34 ft (815.139 m) above mean sea level (Tennessee Valley Authority bench mark).

AVERAGE DISCHARGE.--21 years, 142 ft^3/s (4.021 m^3/s), 37.44 in/yr (951 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,090 ft^3/s (229 m^3/s) Sept. 23 (gage height, 8.96 ft or 2.731 m); minimum, 24 ft^3/s (0.68 m^3/s) Sept. 5, 6 (gage height, 1.28 ft or 0.390 m).
Period of record: Maximum discharge, 12,000 ft^3/s (340 m^3/s) May 28, 1973 (gage height, 11.19 ft or 3.411 m), from rating curve extended above 4,600 ft^3/s (130 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 12 ft^3/s (0.34 m^3/s) Jan. 9, 1956, result of freezeup; minimum gage height, 0.81 ft (0.247 m) Dec. 15, 1958, result of freezeup.

REMARKS.--Records good.

REVISION (WATER YEARS).--WSP 2110: 1966(M). WRD N. C. 1973: 1972(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	38	76	129	158	294	464	103	311	59	47	35
2	36	37	60	115	182	270	406	101	162	53	43	30
3	35	37	57	111	198	243	371	106	141	54	45	28
4	35	36	54	126	243	227	324	110	126	49	47	26
5	35	57	54	105	434	214	296	92	115	48	45	25
6	34	45	55	101	358	201	273	87	109	58	83	27
7	34	38	100	96	293	245	253	86	100	58	59	37
8	33	36	254	92	259	247	238	86	94	50	49	46
9	33	36	145	94	235	211	224	107	89	47	46	33
10	33	35	112	163	213	214	213	90	101	46	46	30
11	32	35	101	667	201	217	199	84	116	47	46	53
12	32	49	106	427	227	250	182	86	139	59	41	37
13	32	39	104	513	191	673	172	85	99	45	38	31
14	32	39	97	349	177	1,700	166	80	89	42	36	28
15	39	44	102	288	166	678	168	250	83	44	36	27
16	236	38	128	251	218	523	152	272	81	42	34	27
17	76	41	108	220	235	442	146	174	77	54	33	96
18	58	69	97	201	262	401	136	355	74	71	32	504
19	53	75	95	187	278	506	132	243	74	49	32	154
20	50	213	90	201	241	411	126	192	71	58	31	97
21	48	114	88	168	220	366	121	163	76	64	29	78
22	46	87	82	156	206	351	116	147	67	44	29	152
23	45	77	78	148	300	316	113	139	65	49	43	1,300
24	43	70	89	144	1,290	830	111	124	61	53	38	1,240
25	43	69	262	413	566	604	116	130	59	47	30	412
26	42	63	175	283	434	470	110	146	59	41	30	292
27	41	60	146	242	370	405	104	115	57	59	58	231
28	40	57	228	217	323	359	100	115	55	45	52	191
29	40	55	174	200	------	417	98	121	55	40	44	164
30	40	68	155	183	------	1,020	100	114	53	51	34	146
31	39	------	140	169	------	559	------	119	------	85	35	------
TOTAL	1,451	1,757	3,612	6,759	8,478	13,864	5,730	4,222	2,858	1,611	1,291	5,577
MEAN	46.8	58.6	117	218	303	447	191	136	95.3	52.0	41.6	186
MAX	236	213	262	667	1,290	1,700	464	355	311	85	83	1,300
MIN	32	35	54	92	158	201	98	80	53	40	29	25
CFSM	.91	1.14	2.27	4.23	5.88	8.68	3.71	2.64	1.85	1.01	.81	3.61
IN.	1.05	1.27	2.61	4.88	6.12	10.01	4.14	3.05	2.06	1.16	.93	4.03

CAL YR 1974 TOTAL 52,800 MEAN 145 MAX 1,300 MIN 32 CFSM 2.82 IN 38.14
WTR YR 1975 TOTAL 57,210 MEAN 157 MAX 1,700 MIN 25 CFSM 3.05 IN 41.32

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0100	5.08	2,330	3-24	1400	4.98	2,220
2-24	0630	5.53	2,850	3-30	0245	4.86	2,090
3-14	0230	7.43	5,500	9-23	2245	8.96	8,090

03457000 Pigeon River at Canton, N. C.

LOCATION.--Lat 35°31'30", long 82°50'28", Haywood County, on left bank 100 ft (30 m) upstream from small tributary, 200 ft (61 m) downstream from Pigeon Street Bridge, 0.5 mi (0.8 km) from U. S. Highways 19 and 23 at Canton, and at mile 64.1 (103.1 km). Records include flow of small tributary.

DRAINAGE AREA.--133 mi^2 (344 km^2) includes that of small tributary below gage.

PERIOD OF RECORD.--May 1907 to June 1909, October 1928 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,572.22 ft (784.013 m) above mean sea level (levels by Tennessee Valley Authority). Prior to June 1909, nonrecording gage at bridge 0.4 mi (0.6 km) downstream at different datum. Dec. 6, 1928, to Jan. 3, 1929, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--48 years (1907-8, 1928-75), 319 ft^3/s (9.034 m^3/s), 32.57 in/yr (827 mm/yr) unadjusted.

EXTREMES.--Current year: Maximum discharge, 9,810 ft^3/s (278 m^3/s) Sept. 24 (gage height, 10.96 ft or 3.341 m); minimum, 82 ft^3/s (2.32 m^3/s) Sept. 4, 5, 14 (gage height, 0.83 ft or 0.253 m); minimum daily discharge, 84 ft^3/s (2.38 m^3/s) Sept. 4, 14.

Period of record: Maximum discharge, 31,600 ft^3/s (895 m^3/s) Aug. 30, 1940 (gage height, 20.75 ft or 6.325 m, from floodmarks in gage well); minimum, 15 ft^3/s (0.42 m^3/s) Jan. 8, 1956 (gage height, 0.04 ft or 0.012 m), result of freezeup; minimum daily, 27 ft^3/s (0.76 m^3/s) Sept. 7, 1954.

Flood of about 1810 is believed to have been approximately equal to that of Aug. 30, 1940, and flood of June 15, 1876, reached a stage of 18.3 ft or 5.58 m (discharge, 25,700 ft^3/s or 728 m^3/s), from studies by Tennessee Valley Authority.

REMARKS.--Records good. Occasional diurnal fluctuation and considerable regulation at low flow caused by Lake Logan on West Fork Pigeon River 12 mi (19 km) upstream (see p. 191). Town of Canton diverted above station an average of 1.05 ft^3/s (0.030 m^3/s) for municipal water supply.

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 853: 1929-37(M). WSP 1306: 1908(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	94	229	345	351	643	1,200	262	796	144	125	96
2	93	94	167	304	463	583	1,030	270	377	136	112	88
3	92	94	153	291	517	511	948	428	319	144	115	87
4	93	92	144	379	629	478	792	323	292	134	115	84
5	94	124	140	294	1,360	453	708	255	270	131	115	85
6	92	124	141	275	940	429	645	241	255	142	227	93
7	92	97	167	259	711	600	596	236	239	150	167	106
8	91	94	673	248	603	606	555	240	224	131	127	109
9	90	94	369	255	540	461	521	302	215	131	118	90
10	89	92	267	320	484	476	495	255	237	125	120	87
11	88	93	248	1,460	458	498	461	235	264	131	119	104
12	94	111	254	837	560	618	430	248	354	148	111	93
13	93	104	250	1,080	451	1,910	404	247	253	124	106	86
14	91	100	230	673	411	3,690	393	221	219	118	102	84
15	91	108	227	556	386	1,540	401	479	206	118	100	86
16	532	99	308	484	523	1,150	360	660	199	116	98	87
17	203	101	251	429	586	1,010	347	386	191	158	97	123
18	140	193	216	393	698	878	327	772	189	175	98	940
19	124	206	218	379	748	1,120	317	537	196	127	93	349
20	115	722	209	454	587	666	302	416	192	139	90	198
21	111	329	203	362	521	754	290	362	233	147	90	157
22	107	228	188	334	477	743	280	340	180	121	89	196
23	106	196	181	313	663	668	275	351	171	131	107	2,180
24	104	177	193	306	2,860	2,120	275	297	163	136	98	2,920
25	103	171	740	1,260	1,250	1,440	293	284	157	124	88	775
26	101	157	450	731	952	1,070	281	360	158	114	87	513
27	100	146	354	557	824	912	258	277	151	126	122	401
28	99	139	300	486	709	798	251	265	148	115	127	333
29	98	133	501	443	------	1,040	245	278	146	106	105	290
30	97	170	439	408	------	3,170	254	271	140	169	91	259
31	96	------	383	375	------	1,520	------	270	------	203	90	------
TOTAL	3,613	4,682	9,313	15,290	20,262	32,785	13,934	10,268	7,134	4,216	3,449	11,099
MEAN	117	156	300	493	724	1,058	464	331	238	136	111	370
MAX	532	722	800	1,460	2,860	3,690	1,200	772	796	203	227	2,920
MIN	88	92	140	248	351	429	245	221	140	106	87	84
(†)	+44.6	+49.9	+30.4	+31.3	+31.3	+37.5	+12.7	+37.2	+21.4	+41.7	-65.0	+136.7
MEAN‡	118	158	301	494	725	1,059	465	332	239	137	109	375
CFSM‡	0.89	1.19	2.26	3.71	5.45	7.96	3.50	2.50	1.80	1.03	0.82	2.82
IN.‡	1.02	1.32	2.61	4.28	5.67	9.18	3.90	2.88	2.00	1.19	0.95	3.14

CAL YR 1974 TOTAL 129,728 MEAN 355 MAX 3,100 MIN 86 MEAN‡ 356 CFSM‡ 2.68 IN.‡ 36.36
WTR YR 1975 TOTAL 136,045 MEAN 373 MAX 3,690 MIN 84 MEAN‡ 374 CFSM‡ 2.81 IN.‡ 38.14

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0245	6.78	4,180	3-24	1515	8.41	6,010
2-24	0730	7.89	5,390	3-30	0515	8.40	6,000
3-14	0415	10.35	8,760	9-24	0100	10.96	9,810

† Diversion by city of Canton, and change in contents in Lake Logan, equivalent in cfs-days. Records of diversion furnished by city of Canton.

‡ Adjusted for diversion and change in lake contents.

03459500 Pigeon River near Hepco, N. C.

LOCATION.--Lat 35°38'07", long 82°59'22", Haywood County, on left bank 95 ft (29 m) east of Interstate Highway 40, 0.8 mi (1.3 km) downstream from Jonathan Creek, 2.0 mi (3.2 km) south of Hepco, 2.4 mi (3.9 km) upstream from Fines Creek, and at mile 45.1 (72.6 km).

DRAINAGE AREA.--350 mi^2 (906 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 2,335.95 ft (711.998 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--48 years, 674 ft^3/s (19.09 m^3/s), 26.15 in/yr (664 mm/yr).

EXTREMES.--Current year: Maximum discharge, 14,200 ft^3/s (402 m^3/s) Mar. 30 (gage height, 10.55 ft or 3.216 m); minimum, 201 ft^3/s (5.69 m^3/s) Sept. 5 (gage height, 1.32 ft or 0.402 m).
Period of record: Maximum discharge, 32,700 ft^3/s (926 m^3/s) Aug. 30, 1940 (gage height, 15.82 ft or 4.822 m, from floodmark in gage house), from rating curve extended above 12,000 ft^3/s (340 m^3/s) on basis of slope-area measurements at gage heights 14.94 ft (4.554 m) and 15.82 ft (4.822 m); minimum, 81 ft^3/s (2.29 m^3/s) Sept. 30, 1941; minimum gage height, 0.81 ft (0.247 m) Sept. 8, 1954.
Floods of June 1876 and February 1902 reached a stage of about 18 ft (5.5 m), from flood profiles by Tennessee Valley Authority (discharge, about 42,000 ft^3/s or 1,190 m^3/s).

REMARKS.--Records good. Considerable regulation by Lake Junaluska on Richland Creek and Lake Logan on West Fork Pigeon River for periods of low flow (combined capacity of reservoirs, about 2,000 ft^3/s-day or about 4.894 hm^3). (see p. 191).

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	246	244	507	798	863	1,380	2,770	706	1,560	360	336	245
2	238	242	475	712	1,180	1,300	2,360	736	881	372	292	231
3	234	243	427	680	1,450	1,120	2,400	810	736	360	285	217
4	236	239	409	863	1,610	1,050	2,170	829	676	376	285	211
5	240	324	391	715	2,920	1,010	1,980	682	628	368	296	208
6	238	340	390	662	2,290	955	1,610	634	616	396	868	238
7	236	267	447	637	1,740	1,590	1,430	628	566	416	520	332
8	234	247	1,220	606	1,460	1,650	1,370	640	530	356	380	368
9	230	243	873	611	1,290	1,170	1,040	388	510	376	340	277
10	227	238	642	626	1,150	1,280	1,030	718	535	372	360	252
11	228	240	584	2,450	1,090	1,290	997	646	599	344	360	262
12	228	319	592	1,700	1,410	1,670	1,120	742	766	420	320	277
13	236	293	585	2,330	1,120	5,150	1,070	694	588	340	300	255
14	234	271	541	1,320	1,010	8,080	1,040	610	515	316	292	227
15	231	312	540	1,170	943	3,500	1,060	610	487	372	289	221
16	985	279	637	1,020	1,210	2,680	976	1,480	496	348	304	316
17	536	274	572	919	1,450	2,320	941	927	465	400	296	748
18	351	471	512	870	1,640	2,020	901	1,220	452	622	308	1,310
19	309	699	509	678	1,800	2,260	901	1,070	474	384	285	754
20	285	1,840	483	1,300	1,410	1,930	862	875	436	448	255	432
21	277	973	466	977	1,230	1,710	816	784	505	408	248	384
22	269	638	439	879	1,120	1,730	790	748	436	348	300	478
23	264	538	427	819	1,330	1,550	778	629	416	380	270	3,800
24	263	478	441	788	5,050	3,960	772	700	400	483	270	4,600
25	262	465	1,550	3,130	2,550	2,940	836	670	392	380	255	1,400
26	258	441	1,080	1,980	1,960	2,150	803	778	388	332	277	962
27	256	399	808	1,430	1,710	1,850	736	646	380	332	273	772
28	252	380	1,070	1,210	1,510	1,670	712	610	400	328	320	652
29	250	363	1,190	1,080	------	2,130	706	652	416	292	270	572
30	250	390	987	1,000	------	8,580	730	634	368	352	245	520
31	247	------	869	921	------	3,570	------	700	------	404	238	------
TOTAL	8,831	12,690	21,363	35,081	45,496	75,275	35,707	24,096	16,617	11,785	9,937	21,521
MEAN	285	423	689	1,132	1,625	2,428	1,190	777	554	380	321	717
MAX	985	1,840	1,670	3,130	5,050	8,580	2,770	1,480	1,560	622	868	4,600
MIN	227	238	390	606	863	965	706	610	368	292	238	208

CAL YR 1974 TOTAL 308,857 MEAN 846 MAX 7,550 MIN 227
WTR YR 1975 TOTAL 318,399 MEAN 872 MAX 8,580 MIN 208

PEAK DISCHARGE (BASE, 6,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-24	1115	8.28	8,510	3-30	0815	10.55	14,200
3-14	0800	10.46	14,000	9-24	0445	9.53	11,400
3-24	1900	8.54	9,070				

03460000 Cataloochee Creek near Cataloochee, N. C.
(Hydrologic bench-mark station)

LOCATION.--Lat 35°40'02", long 83°04'23", Haywood County, in Great Smoky Mountains National Park, on left bank 20 ft (6 m) downstream from bridge on State Highway 284, 500 ft (152 m) upstream from Little Cataloochee Creek, 2 mi (3 km) north of Cataloochee, and 3.7 mi (6.0 km) upstream from mouth.

DRAINAGE AREA.--49.2 mi^2 (127.4 km^2).

PERIOD OF RECORD.--October 1933 to September 1952, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,456.88 ft (748.857 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--32 years, 111 ft^3/s (3.144 m^3/s), 30.64 in/yr (778 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,790 ft^3/s (79.0 m^3/s) Mar. 30 (gage height, 6.45 ft or 1.966 m); minimum, 27 ft^3/s (0.76 m^3/s) Sept. 3, 4, 5, 6 (gage height, 2.06 ft or 0.628 m).
Period of record: Maximum discharge, 5,080 ft^3/s (144 m^3/s) Mar. 6, 1963 (gage height, 8.08 ft or 2.463 m); minimum, 9 ft^3/s (0.25 m^3/s) Jan. 2, 1940, Dec. 17, 24, 1943 (gage height, 1.87 ft or 0.57 m), result of freezeup.

REMARKS.--Records good. Water quality records for the current year are published in Section 2 of this report. Records for Class A evaporation station 2.4 mi (3.9 km) upstream published in reports of National Climatic Center, NOAA, U. S. Department of Commerce.

REVISIONS.--WSP 823: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	38	76	172	168	215	526	98	139	45	34	31
2	38	38	68	156	217	194	415	93	97	45	37	29
3	37	37	64	146	229	173	380	120	89	45	39	28
4	36	37	63	177	281	163	303	112	83	59	34	28
5	36	69	69	146	503	152	265	99	80	57	36	27
6	37	43	63	139	448	146	239	94	83	69	99	35
7	37	40	73	130	342	273	220	100	75	54	54	50
8	37	38	125	124	279	284	204	97	71	47	56	41
9	37	38	101	121	241	228	191	129	69	45	42	32
10	37	37	91	129	212	235	181	103	74	47	48	32
11	36	39	81	291	199	234	167	100	76	44	44	32
12	36	59	88	369	238	396	156	108	82	50	39	34
13	36	43	83	523	195	1,280	148	105	69	42	37	35
14	35	46	79	325	182	1,370	142	94	65	40	35	30
15	37	46	86	250	170	704	142	128	65	43	35	28
16	167	42	88	208	199	497	130	144	67	45	39	29
17	60	48	81	178	214	392	125	121	61	52	36	37
18	50	80	79	169	267	329	119	124	69	62	43	98
19	47	158	73	183	294	316	138	114	62	48	56	55
20	44	427	75	282	264	275	121	107	58	49	39	39
21	43	224	75	235	233	256	112	101	56	52	44	35
22	42	146	71	206	210	272	108	100	54	41	40	75
23	42	117	69	184	212	242	105	99	53	51	35	368
24	42	100	81	174	580	448	106	91	51	74	37	265
25	41	94	343	828	387	436	115	98	51	54	37	116
26	41	82	210	514	308	339	103	97	54	43	59	85
27	40	76	190	347	265	285	98	86	50	40	46	72
28	39	71	341	274	233	252	96	93	49	38	38	64
29	39	68	283	238	------	337	97	94	51	36	34	58
30	38	72	231	211	------	1,840	96	87	47	38	32	54
31	38	------	197	184	------	767	------	91	------	36	31	------
TOTAL	1,367	2,453	3,702	7,607	7,570	13,326	5,350	3,227	2,050	1,491	1,315	1,942
MEAN	44.1	81.8	119	245	270	430	178	104	68.3	48.1	42.4	64.7
MAX	167	427	343	828	580	1,840	528	144	139	74	99	368
MIN	35	37	63	121	168	146	96	86	47	36	31	27
CFSM	.90	1.66	2.42	4.98	5.49	8.74	3.62	2.11	1.39	.98	.86	1.32
IN.	1.03	1.85	2.80	5.75	5.72	10.08	4.05	2.44	1.55	1.13	.99	1.47

CAL YR 1974 TOTAL 55,640 MEAN 153 MAX 1,010 MIN 35 CFSM 3.11 IN 42.22
WTR YR 1975 TOTAL 51,400 MEAN 141 MAX 1,840 MIN 27 CFSM 2.87 IN 38.86

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-25	1045	5.36	1,620	3-14	0115	5.71	1,970
2-24	0515	4.82	1,140	3-30	0400	6.45	2,790

03463300 South Toe River near Celo, N. C.

LOCATION.--Lat 35°49'52", long 82°11'04", Yancey County, on right bank on Secondary Road 1168, 800 ft (244 m) upstream from bridge on Secondary Road 1167, 0.3 mi (0.5 km) downstream from Whiteoak Creek, 1.9 mi (3.1 km) southeast of Celo, and at mile 20.1 (32.3 km).

DRAINAGE AREA.--43.4 mi^2 (112.4 km^2).

PERIOD OF RECORD.--July 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,658 ft (810.16 m) above mean sea level.

AVERAGE DISCHARGE.--18 years, 145 ft^3/s (4.106 m^3/s), 45.37 in/yr (1,152 mm/yr).

EXTREMES.--Current year: Maximum discharge, 12,800 ft^3/s (362 m^3/s) Sept. 23 (gage height, 9.46 ft or 2.883 m); minimum, 36 ft^3/s (1.02 m^3/s) Aug. 23 (gage height, 0.67 ft or 0.204 m).
Period of record: Maximum discharge, 13,900 ft^3/s (394 m^3/s) June 20, 1972 (gage height, 9.87 ft or 3.008 m), from rating curve extended above 4,500 ft^3/s (127 m^3/s) on basis of slope-area measurement of peak flow; minimum, 14 ft^3/s (0.40 m^3/s) Dec. 26, 1958, result of freezeup.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1910: 1958-59.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	51	103	169	131	191	386	100	465	83	68	87
2	65	51	69	141	210	173	335	107	229	79	69	54
3	64	49	66	135	178	161	322	110	185	74	81	47
4	64	49	64	192	198	157	274	130	159	72	65	41
5	63	56	71	142	430	143	248	99	142	69	89	39
6	61	52	77	130	342	138	228	92	132	90	173	42
7	60	47	75	120	252	230	211	89	121	80	107	59
8	59	47	170	117	220	215	199	90	110	70	86	62
9	57	45	117	116	198	165	189	133	104	64	76	46
10	57	45	112	143	178	161	162	112	144	60	72	43
11	55	45	89	409	170	165	171	99	200	59	69	53
12	54	60	95	323	218	357	160	142	393	71	62	51
13	53	49	99	419	180	846	151	138	211	60	56	57
14	52	49	95	247	161	1,810	145	112	165	59	54	45
15	54	52	101	206	151	613	145	260	150	64	52	41
16	281	47	155	183	214	446	134	353	136	58	55	39
17	112	50	120	162	237	377	129	212	123	62	48	81
18	82	112	103	151	210	332	124	788	139	61	48	1,520
19	75	143	97	147	199	614	120	352	139	78	45	309
20	70	353	92	181	176	408	114	253	113	74	45	186
21	67	171	89	146	161	348	110	208	105	75	41	141
22	65	119	84	136	153	304	107	182	101	60	41	152
23	63	102	81	128	215	315	104	162	95	58	39	1,570
24	61	91	92	127	781	886	102	145	89	80	74	1,970
25	59	86	384	383	334	513	108	132	84	77	44	533
26	58	78	187	227	262	368	102	125	81	60	45	370
27	57	74	165	183	230	331	96	118	79	56	49	288
28	55	71	424	167	206	295	94	113	88	52	111	238
29	54	68	234	156	------	308	92	165	140	49	56	210
30	53	75	259	148	------	1,120	93	268	87	74	46	181
31	53	------	194	137	------	489	------	171	------	146	81	------
TOTAL	2,151	2,387	4,183	5,771	6,605	13,094	4,975	5,560	4,509	2,174	2,047	8,555
MEAN	69.4	79.6	135	186	236	422	166	179	150	70.1	66.0	285
MAX	281	353	424	419	781	1,810	386	788	465	146	173	1,970
MIN	52	45	64	116	131	138	92	89	79	49	39	39
CFSM	1.60	1.83	3.11	4.29	5.44	9.72	3.82	4.12	3.46	1.62	1.52	6.57
IN.	1.84	2.05	3.59	4.95	5.66	11.22	4.26	4.77	3.86	1.86	1.75	7.33

CAL YR 1974 TOTAL 59,690 MEAN 164 MAX 1,060 MIN 45 CFSM 3.78 IN 51.16
WTR YR 1975 TOTAL 62,011 MEAN 170 MAX 1,970 MIN 39 CFSM 3.92 IN 53.15

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0230	4.78	3,550	9-18	0715	5.07	3,890
3-24	1345	4.22	2,900	9-23	2345	9.46	12,800

03479000 Watauga River near Sugar Grove, N. C.

LOCATION.--Lat 36°14'18", long 81°49'22", Watauga County, on right bank 250 ft (76 m) upstream from bridge on Secondary Road 1121, 300 ft (91 m) downstream from Cove Creek, 2.3 mi (3.7 km) southwest of Sugar Grove, and at mile 64.4 (103.6 km).

DRAINAGE AREA.--90.8 mi^2 (235.2 km^2).

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,607.84 ft (794.870 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 170 ft^3/s (4.814 m^3/s), 25.43 in/yr (646 mm/yr).

EXTREMES.--Current year: Maximum discharge, 8,430 ft^3/s (239 m^3/s) Sept. 24 (gage height, 12.34 ft or 3.761 m); minimum, 36 ft^3/s (1.02 m^3/s) Sept. 6, 15, 16, 17 (gage height, 1.52 ft or 0.463 m).
Period of record: Maximum discharge, 50,800 ft^3/s (1,440 m^3/s) Aug. 13, 1940 (gage height, 29.6 ft or 9.02 m, from profile based on floodmarks), from rating curve extended above 4,900 ft^3/s (139 m^3/s) on basis of slope-area measurement of peak flow; minimum, 6.5 ft^3/s (0.18 m^3/s) Jan. 1, 1954 (gage height, 1.13 ft or 0.344 m), result of freezeup; minimum daily, 13 ft^3/s (0.37 m^3/s) Sept. 19, 30, 1954.
Flood of July 1916 reached a stage of 22.1 ft (6.736 m), from floodmarks on barn 0.25 mi (0.4 km) above station as witnessed by local resident (discharge, 28,000 ft^3/s or 793 m^3/s, from rating curve extended above 4,900 ft^3/s or 139 m^3/s on basis of slope-area measurement at gage height 29.6 ft or 9.022 m).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	78	781	277	191	302	466	111	1,100	124	64	62
2	100	77	861	237	227	273	368	115	589	116	60	47
3	96	76	767	220	215	250	336	112	408	109	82	42
4	95	76	446	248	231	230	283	157	317	120	101	40
5	93	76	168	212	443	198	252	119	281	116	315	38
6	91	73	163	198	662	188	230	107	291	113	491	38
7	89	70	156	183	493	326	213	111	224	111	178	51
8	87	69	356	171	357	375	199	109	195	111	129	56
9	84	68	311	163	298	290	189	137	176	101	105	44
10	83	67	224	178	256	287	186	159	225	93	97	41
11	80	66	189	618	238	307	175	133	281	89	91	45
12	79	87	168	434	267	399	169	132	495	110	80	47
13	79	76	187	550	240	948	155	130	320	92	73	54
14	77	86	206	411	219	2,340	149	114	252	112	70	40
15	79	90	214	321	205	1,010	155	130	231	100	66	37
16	423	75	376	271	242	638	144	231	209	89	74	37
17	197	77	317	231	249	533	140	516	184	90	65	44
18	136	165	240	212	235	429	137	752	187	85	62	1,140
19	119	148	209	212	229	978	139	495	184	93	57	382
20	110	326	190	263	209	735	132	336	159	138	56	165
21	103	259	180	226	196	552	121	263	149	157	55	128
22	99	183	170	209	183	485	117	220	144	111	55	109
23	95	150	158	198	204	411	115	193	137	92	52	506
24	94	135	172	191	2,270	755	114	172	131	124	52	3,070
25	92	134	413	448	880	739	160	155	126	174	48	508
26	90	121	365	429	534	506	129	145	129	105	46	341
27	86	112	300	309	407	398	111	141	238	87	48	248
28	85	107	640	258	341	340	108	136	148	77	67	199
29	83	101	504	232	------	346	107	428	186	71	51	170
30	82	129	377	214	------	1,080	108	1,510	136	69	44	149
31	80	------	307	195	------	647	------	585	------	71	79	------
TOTAL	3,290	3,357	10,115	8,519	10,721	17,295	5,407	8,154	7,832	3,250	2,913	7,878
MEAN	106	112	326	275	383	558	180	263	261	105	94.0	263
MAX	423	326	861	618	2,270	2,340	466	1,510	1,100	174	491	3,070
MIN	77	66	156	163	183	188	107	107	126	69	44	37
CFSM	1.17	1.23	3.59	3.03	4.22	6.15	1.98	2.90	2.87	1.16	1.04	2.90
IN.	1.35	1.38	4.14	3.49	4.39	7.09	2.22	3.34	3.21	1.33	1.19	3.23

CAL YR 1974 TOTAL 92,370 MEAN 253 MAX 3,180 MIN 66 CFSM 2.79 IN 37.84
WTR YR 1975 TOTAL 88,731 MEAN 243 MAX 3,070 MIN 37 CFSM 2.68 IN 36.35

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-24	0945	9.18	4,330	5-30	0315	7.93	3,140
3-14	0530	8.30	3,470	9-24	0445	12.34	8,430

03500000 Little Tennessee River near Prentiss, N. C.

LOCATION.--Lat 35°08'57", long 83°22'46", Macon County, on left bank 600 ft (183 m) upstream from Owenby Branch, 0.5 mi (0.8 km) upstream from Cartoogechaye Creek, 2 mi (3 km) north of Prentiss, and at mile 119.5 (192.3 km).

DRAINAGE AREA.--140 mi^2 (363 km^2).

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 2,008.39 ft (612.157 m) above mean sea level (levels by Tennessee Valley Authority). Since Oct. 1, 1954, auxiliary water-stage recorder 0.5 mi (0.8 km) downstream from base gage at same datum.

AVERAGE DISCHARGE.--32 years, 390 ft^3/s (11.04 m^3/s), 37.83 in/yr (961 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,880 ft^3/s (81.6 m^3/s) Mar. 14 (gage height, 7.80 ft or 2,377 m); maximum gage height, 8.16 ft or 2.487 m Mar. 30 (backwater from Cartoogechaye Creek); minimum, 95 ft^3/s (2.69 m^3/s) Sept. 5, 6 (gage height, 1.43 ft or 0.436 m).
Period of record: Maximum discharge, 12,200 ft^3/s (346 m^3/s) Oct. 4, 1964; maximum gage height, 17.30 ft (5.273 m) Oct. 4,1964; minimum discharge, 65 ft^3/s (1.84 m^3/s) Oct. 16, 17, 1954 (gage height, 1.21 ft or 0.369 m).
Flood in October 1898 reached a stage of about 15 ft (4.6 m), from profiles by Tennessee Valley Authority.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1236: 1949(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	249	197	800	392	463	758	1,210	427	726	231	174	115
2	241	197	459	357	605	721	1,060	430	478	229	156	105
3	233	197	376	348	688	662	1,020	426	404	221	147	101
4	229	195	334	454	905	631	907	454	369	210	148	98
5	228	258	302	394	1,530	608	849	398	344	210	184	97
6	225	244	287	365	1,090	584	804	381	333	204	310	97
7	221	208	327	343	822	605	763	387	317	210	240	131
8	216	201	689	329	713	620	732	399	298	199	181	257
9	215	193	502	331	653	553	707	387	288	194	168	142
10	213	188	416	376	601	565	694	386	287	188	191	135
11	209	187	375	1,170	569	648	663	363	313	187	220	138
12	206	240	360	860	662	764	634	363	462	230	175	129
13	204	201	334	1,130	580	1,470	607	385	338	192	158	122
14	200	191	313	751	541	2,610	603	347	298	180	152	115
15	219	208	322	629	517	1,670	613	545	291	198	147	109
16	483	191	391	561	724	1,140	572	653	290	207	163	107
17	321	199	330	513	877	1,010	554	480	272	185	144	144
18	256	285	305	484	905	904	537	809	263	178	139	682
19	237	313	302	465	904	1,080	526	596	289	189	131	383
20	225	822	298	480	746	927	509	487	262	199	130	222
21	221	538	289	439	663	839	490	434	259	237	128	178
22	217	373	278	417	620	831	480	404	248	180	123	206
23	216	315	270	401	910	786	470	397	241	171	120	1,350
24	214	288	277	393	2,240	1,530	464	368	233	174	131	2,220
25	211	270	424	1,200	1,510	1,290	467	351	229	181	119	838
26	208	251	382	894	1,040	954	453	340	272	174	120	550
27	207	240	344	669	897	850	434	389	239	164	113	421
28	203	234	428	586	813	790	424	380	245	153	127	349
29	200	224	440	541	------	1,050	415	355	304	145	112	305
30	200	352	461	510	------	2,450	419	407	269	144	109	278
31	200	------	416	483	------	1,680	------	399	------	226	108	------
TOTAL	7,127	8,000	11,831	17,265	23,788	31,580	19,080	13,327	9,461	5,990	4,768	10,124
MEAN	230	267	382	557	850	1,019	636	430	315	193	154	337
MAX	483	822	800	1,200	2,240	2,610	1,210	809	726	237	310	2,220
MIN	200	187	270	329	463	553	415	340	229	144	108	97
CFSM	1.64	1.91	2.73	3.98	6.07	7.28	4.54	3.07	2.25	1.38	1.10	2.41
IN.	1.89	2.13	3.14	4.59	6.32	8.39	5.07	3.54	2.51	1.59	1.27	2.69

CAL YR 1974 TOTAL 200,253 MEAN 549 MAX 3,070 MIN 187 CFSM 3.92 IN 53.21
WTR YR 1975 TOTAL 162,341 MEAN 445 MAX 2,610 MIN 97 CFSM 3.18 IN 43.14

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-25	1415	4.71	1,660	3-24	1600	6.35	-
2- 5	0800	4.75	1,680	3-24	1800	-	2,300
2-24	1145	7.39	-	3-30	1230	8.16	-
2-24	1400	-	2,510	3-30	1400	-	2,760
3-14	0915	7.80	-	9-24	0400	6.68	2,580
3-14	1600	-	2,880				

03500240 Cartoogechaye Creek near Franklin, N. C.

LOCATION.--Lat 35°09'31", long 83°23'39", Macon County, on downstream side of center pier of bridge on Secondary Road 1152, 0.1 mi (0.2 km) downstream from unnamed creek, 1.8 mi (2.9 km) south of Franklin, and 1.9 mi (3.1 km) upstream from mouth.

DRAINAGE AREA.--57.1 mi^2 (147.9 km^2).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1947, 1953-55, 1960. June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,017.18 ft (614.836 m) above mean sea level.

AVERAGE DISCHARGE.--14 years, 148 ft^3/s (4.191 m^3/s), 35.20 in/yr (894 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,310 ft^3/s (65.4 m^3/s) Mar. 30 (gage height, 10.10 ft or 3.078 m); minimum, 34 ft^3/s (0.96 m^3/s) Sept. 5 (gage height, 1.05 ft or 0.320 m).
Period of record: Maximum discharge, 4,720 ft^3/s (134 m^3/s) Oct. 4, 1964 (gage height, 12.96 ft or 3.950 m); minimum, 33 ft^3/s (0.93 m^3/s) Sept. 14, 1962, Aug. 30, 31, 1968.
Flood in June 1949 reached a stage of 15.6 ft (4.755 m), from studies by Tennessee Valley Authority (discharge about 7,000 ft^3/s or about 198 m^3/s).
A discharge of 30.8 ft^3/s (0.87 m^3/s) was measured on Oct. 16, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	51	222	142	147	275	551	165	193	83	55	45
2	51	50	130	125	251	258	453	156	131	99	55	41
3	53	50	105	133	284	235	418	160	114	77	55	40
4	50	50	94	175	463	222	363	156	106	74	68	38
5	50	82	86	143	829	212	333	143	103	84	59	38
6	50	59	82	131	522	202	312	137	103	73	162	38
7	49	54	106	121	371	227	293	141	95	74	80	60
8	49	52	161	117	301	221	279	137	90	68	64	71
9	49	51	117	115	265	199	266	133	86	67	61	46
10	49	51	101	188	238	214	256	127	89	70	70	43
11	49	54	94	488	221	246	245	123	94	67	70	43
12	48	82	96	400	278	296	235	121	117	76	61	47
13	48	60	88	413	225	877	226	123	95	66	59	46
14	48	58	84	285	209	1,190	226	115	86	64	57	41
15	53	62	93	229	196	582	226	174	88	63	57	40
16	174	56	94	199	265	432	210	216	97	65	56	40
17	77	63	85	177	300	378	204	158	84	62	62	56
18	64	89	81	168	462	346	200	144	81	63	61	164
19	59	149	84	165	469	401	198	131	79	61	54	65
20	57	421	81	181	342	345	189	122	80	63	52	52
21	56	183	76	156	284	311	182	116	93	64	49	47
22	56	117	72	141	254	331	177	149	78	61	47	117
23	55	94	71	134	331	295	173	161	76	59	47	540
24	54	84	75	135	1,140	680	171	119	73	68	50	482
25	54	77	167	662	532	536	187	126	72	62	46	146
26	53	71	131	377	389	403	170	123	90	59	56	98
27	53	68	123	256	334	344	161	111	76	58	61	80
28	52	66	230	212	293	314	157	105	77	57	50	71
29	52	65	209	188	------	557	154	106	94	56	46	66
30	52	219	184	171	------	1,660	176	126	75	55	44	62
31	51	------	160	156	------	762	------	117	------	57	45	------
TOTAL	1,767	2,688	3,582	6,683	10,195	13,551	7,391	4,241	2,815	2,075	1,859	2,763
MEAN	57.0	89.6	116	216	364	437	246	137	93.8	66.9	60.0	92.1
MAX	174	421	230	662	1,140	1,660	551	216	193	99	162	540
MIN	48	50	71	115	147	199	154	105	72	55	44	38
CFSM	1.00	1.57	2.03	3.78	6.37	7.65	4.31	2.40	1.64	1.17	1.05	1.61
IN.	1.15	1.75	2.33	4.35	6.64	8.83	4.82	2.76	1.83	1.35	1.21	1.80

CAL YR 1974 TOTAL 60,064 MEAN 165 MAX 1,030 MIN 48 CFSM 2.89 IN 39.13
WTR YR 1975 TOTAL 59,610 MEAN 163 MAX 1,660 MIN 38 CFSM 2.85 IN 38.84

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-11	0200	6.31	1,070	3-24	1545	7.31	1,310
1-25	1300	6.38	1,090	3-30	0900	10.10	2,310
2-24	0845	8.26	1,550	9-24	0115	7.21	1,290
3-14	0530	8.77	1,690				

03503000 Little Tennessee River at Needmore, N. C.

LOCATION.--Lat 35°20'11", long 83°31'39", Swain County, on left bank 0.8 mi (1.3 km) downstream from DeHart Creek, 0.8 mi (1.3 km) north of Needmore, 2.4 mi (3.9 km) downstream from Brush Creek, 6.3 mi (10.1 km) downstream from Tellico Creek, and at mile 92.9 (149.5 km).

DRAINAGE AREA.--436 mi^2 (1,129 km^2).

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,761.19 ft (36.811 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--32 years, 1,068 ft^3/s (30.25 m^3/s), 33.26 in/yr (845 mm/yr).

EXTREMES.--Current year: Maximum discharge, 11,000 ft^3/s (312 m^3/s) Mar. 30 (gage height, 8.24 ft or 2.512 m); minimum, 177 ft^3/s (5.01 m^3/s) Oct. 12 (gage height, 1.54 ft or 0.469 m); minimum daily, 319 ft^3/s (9.03 m^3/s) Sept. 5.
Period of record: Maximum discharge, 22,100 ft^3/s (626 m^3/s) Oct. 5, 1964 (gage height, 12.87 ft or 3.923 m in gage well, 13.06 ft or 3.981 m from outside gage); minimum, 52 ft^3/s (1.47 m^3/s) Nov. 7, 8, 1954 (gage height, 1.16 ft or 0.354 m); minimum daily, 71 ft^3/s (2.01 m^3/s) Nov. 7, 1954.
Floods of October 1898 and Aug. 30, 1940, reached stages of about 13 ft (4.0 m) and 11.5 ft (3.5 m), respectively, from flood profiles by Tennessee Valley Authority.

REMARKS.--Records good. Considerable diurnal fluctuation caused by Porters Bend powerplant at Lake Emory 20 mi (32 km) upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	528	454	2,230	1,080	1,120	2,000	3,980	1,060	1,740	605	487	377
2	509	426	1,120	973	1,380	1,910	3,310	1,100	1,190	653	438	359
3	506	428	876	928	1,920	1,690	3,130	1,060	964	586	446	337
4	497	478	807	1,180	2,560	1,590	2,700	1,120	883	584	457	326
5	497	524	751	1,060	4,940	1,520	2,420	1,010	829	577	523	319
6	492	603	705	982	3,760	1,440	2,220	965	816	562	1,030	336
7	487	511	707	910	2,670	1,550	2,100	951	772	569	858	387
8	490	475	1,490	870	2,120	1,800	2,020	986	725	543	555	571
9	475	444	1,260	854	1,840	1,480	1,920	935	701	512	508	498
10	485	427	993	886	1,650	1,510	1,870	930	698	522	518	391
11	473	438	898	3,460	1,610	1,730	1,780	897	740	509	558	394
12	325	551	864	2,610	1,830	2,240	1,680	869	1,030	560	537	410
13	452	551	815	3,690	1,650	5,010	1,610	935	901	532	483	412
14	440	466	752	2,340	1,460	8,760	1,610	867	728	487	452	363
15	456	488	746	1,790	1,350	5,500	1,650	1,060	714	471	449	343
16	1,150	490	886	1,540	1,750	3,510	1,720	1,940	778	529	481	333
17	842	495	805	1,360	2,430	2,840	1,420	1,240	680	515	459	370
18	588	597	735	1,250	2,890	2,580	1,250	1,490	657	478	476	1,380
19	508	779	721	1,210	3,320	2,940	1,360	1,380	653	485	427	1,160
20	486	2,080	719	1,280	2,470	2,500	1,300	1,110	621	554	413	662
21	520	1,510	687	1,150	2,040	2,110	1,250	1,000	644	568	403	535
22	484	912	662	1,060	1,810	1,990	1,210	958	624	528	393	534
23	473	760	645	1,010	2,180	1,960	1,180	970	601	464	407	3,280
24	492	669	655	991	6,950	4,010	1,170	896	587	493	396	5,540
25	466	669	1,250	3,220	4,710	4,650	1,210	864	575	492	397	2,400
26	473	605	1,200	2,810	2,970	3,070	1,180	869	684	475	399	1,280
27	461	582	973	1,790	2,520	2,580	1,100	864	650	468	430	968
28	463	571	1,620	1,480	2,180	2,290	1,070	848	647	461	448	813
29	445	533	1,510	1,330	------	3,040	1,070	831	711	435	416	754
30	453	687	1,380	1,250	------	9,560	1,100	936	635	432	373	658
31	456	------	1,180	1,170	------	6,000	------	895	------	444	367	------
TOTAL	15,872	19,203	30,642	47,514	70,080	95,360	52,590	31,836	23,178	16,093	14,984	26,490
MEAN	512	640	988	1,533	2,503	3,076	1,753	1,027	773	519	483	883
MAX	1,150	2,080	2,230	3,690	6,950	9,560	3,980	1,940	1,740	653	1,030	5,540
MIN	325	426	645	854	1,120	1,440	1,070	831	575	432	367	319
CFSM	1.17	1.47	2.27	3.52	5.74	7.06	4.02	2.36	1.77	1.19	1.11	2.03
IN.	1.35	1.64	2.61	4.05	5.98	8.14	4.49	2.72	1.98	1.37	1.28	2.26

CAL YR 1974 TOTAL 504,916 MEAN 1,383 MAX 8,350 MIN 325 CFSM 3.17 IN 43.08
WTR YR 1975 TOTAL 443,842 MEAN 1,216 MAX 9,560 MIN 319 CFSM 2.79 IN 37.87

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2- 5	1300	5.83	5,400	3-24	2015	6.49	6,830
2-24	1230	7.16	8,380	3-30	0715	8.24	11,000
3-14	0945	7.64	9,540	9-24	0830	6.26	6,310

03504000 Nantahala River near Rainbow Springs, N. C.

LOCATION.--Lat 35°07'35", long 83°37'11", Macon County, on right bank on Nantahala Forest Service Road 437, 300 ft (91 m) upstream from Roaring Fork, 0.2 mi (0.3 km) downstream from Buck Creek, 5 mi (8 km) downstream from town of Rainbow Springs, and at mile 34.3 (55.2 km).

DRAINAGE AREA.--51.9 mi^2 (134.4 km^2).

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

GAGE.--Water-stage recorder. Datum of gage is 3,072.97 ft (936.641 m) above mean sea level.

AVERAGE DISCHARGE.--35 years, 203 ft^3/s (5.749 m^3/s), 53.12 in/yr (1,349 mm/yr).

EXTREMES.--Current year: Maximum discharge, 2,540 ft^3/s (71.9 m^3/s) Mar. 30 (gage height, 5.39 ft or 1.643 m); minimum, 43 ft^3/s (1.22 m^3/s) Sept. 5 (gage height, 0.69 ft or 0.210 m).
Period of record: Maximum discharge, 6,300 ft^3/s (178 m^3/s) June 16, 1949 (gage height, 9.70 ft or 2.957 m), from rating curve extended above 3,000 ft^3/s (85.0 m^3/s) on basis of slope-area measurement of peak flow; minimum, 33 ft^3/s (0.93 m^3/s) Nov. 18, 19, 1953 (gage height, 0.60 ft or 0.183 m).

REMARKS.--Records good. Occasional slight diurnal fluctuation at low flow caused by small ponds on tributaries above station.

REVISIONS (WATER YEARS).--WSP 973: 1941(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	62	264	325	279	426	767	213	262	96	68	57
2	67	62	188	288	677	388	654	190	163	110	65	51
3	66	61	165	326	547	355	598	219	150	89	64	49
4	66	61	152	366	734	333	515	204	142	82	88	47
5	66	135	144	307	1,220	315	462	180	139	80	89	46
6	64	75	138	283	881	302	425	170	136	80	261	48
7	64	68	193	261	676	345	394	187	128	82	112	90
8	64	65	303	251	564	306	369	170	121	82	88	95
9	62	64	218	243	503	278	356	170	116	79	87	57
10	62	62	191	355	448	297	323	162	118	74	123	52
11	61	74	179	548	419	350	305	155	141	76	103	55
12	61	108	181	533	514	386	290	156	165	77	85	76
13	61	75	164	528	405	939	275	158	125	70	82	62
14	60	85	155	433	377	1,290	273	146	114	68	78	52
15	74	83	172	383	352	759	270	337	121	81	72	49
16	308	74	165	351	442	621	244	365	126	78	70	48
17	102	92	149	321	495	549	233	246	108	73	67	74
18	85	135	144	307	573	503	222	218	104	70	67	201
19	78	215	146	311	551	562	220	195	101	80	65	96
20	75	608	141	329	472	479	207	181	99	75	63	68
21	73	290	138	281	423	439	197	170	103	74	61	61
22	72	202	130	263	395	459	191	163	94	77	60	129
23	71	166	127	248	531	410	186	157	91	76	66	460
24	69	148	151	265	1,240	854	182	146	89	120	61	473
25	68	138	365	840	716	658	200	166	89	81	57	214
26	67	125	248	509	577	545	176	157	116	84	57	161
27	66	118	264	409	516	483	168	147	90	70	64	137
28	65	112	522	367	461	442	165	139	95	65	58	120
29	64	107	406	338	------	776	198	158	102	62	54	110
30	64	275	385	305	------	1,730	221	170	86	68	52	102
31	63	------	346	287	------	973	------	180	------	111	55	------
TOTAL	2,356	3,945	6,634	11,161	15,988	17,552	9,286	5,775	3,634	2,490	2,442	3,340
MEAN	76.0	132	214	360	571	566	310	186	121	80.3	78.8	111
MAX	308	608	522	840	1,240	1,730	767	365	262	120	261	473
MIN	60	61	127	243	279	278	165	139	86	62	52	46
CFSM	1.46	2.54	4.12	6.94	11.0	10.9	5.97	3.58	2.33	1.55	1.52	2.14
IN.	1.69	2.83	4.76	8.00	11.46	12.58	6.66	4.14	2.60	1.78	1.75	2.39

CAL YR 1974 TOTAL 94,371 MEAN 259 MAX 1,180 MIN 60 CFSM 4.99 IN 67.64
WTR YR 1975 TOTAL 84,603 MEAN 232 MAX 1,730 MIN 46 CFSM 4.47 IN 60.64

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-24	0400	4.75	2,080	3-30	0200	5.39	2,540
3-14	0015	4.80	2,110	9-23	2215	4.12	1,640
3-24	1245	4.49	1,890				

03505500 Nantahala River at Nantahala, N. C.

LOCATION.--Lat 35°17'55", long 83°39'22", Swain County, on left bank on U. S. Highway 19, 1.0 mi (1.6 km) northeast of Nantahala, 2.3 mi (3.7 km) downstream from Rowlin Creek, 2.8 mi (4.5 km) downstream from Nantahala Dam powerhouse, and at mile 10.8 (17.4 km).

DRAINAGE AREA.--144 mi^2 (373 km^2).

PERIOD OF RECORD.--May 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,894.68 ft (577.498 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--33 years, 498 ft^3/s (14.10 m^3/s), 46.96 in/yr (1,193 mm/yr) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 7,740 ft^3/s (219 m^3/s) Mar. 30 (gage height, 8.32 ft or 2.536 m); minimum, 13 ft^3/s (0.37 m^3/s) Sept. 6 (gage height, 1.31 ft or 0.399 m); minimum daily, 17 ft^3/s (0.48 m^3/s) Aug. 3.
Period of record: Maximum discharge, 7,740 ft^3/s (219 m^3/s) Mar. 30, 1975 (gage height, 8.32 ft or 2.536 m); minimum, 13 ft^3/s (0.45 m^3/s) Sept. 6, 1975; minimum gage height, 1.19 ft (0.363 m) Nov. 9, 1953; minimum daily discharge, 17 ft^3/s (0.48 m^3/s) Nov. 8, 16, 1952, Oct. 25, 1953, Aug. 3, 1975.

REMARKS.--Records good. Flow regulated by Nantahala Lake 12 mi (19 km) upstream (see p. 190) and Queens Creek Lake (capacity, about 300 ft^3/s-day or about 734,000 m^3).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	410	362	617	415	554	1,030	2,020	703	485	440	354	286
2	491	290	513	744	674	1,350	1,620	699	477	448	209	299
3	660	31	497	195	707	1,210	1,670	525	463	404	17	439
4	548	340	462	246	984	846	1,280	518	478	303	339	449
5	455	365	506	276	1,380	833	1,180	526	487	320	394	466
6	366	442	506	249	1,160	824	1,050	699	466	196	560	173
7	470	470	476	206	1,000	900	999	701	460	395	227	27
8	482	402	474	110	920	884	925	695	415	414	281	416
9	448	470	538	258	879	854	911	695	409	405	181	319
10	441	312	514	259	857	863	896	680	466	432	34	363
11	487	408	466	463	842	888	850	498	455	384	372	296
12	365	446	481	669	880	953	801	523	489	332	439	37
13	176	608	453	811	828	1,850	793	536	435	160	441	28
14	421	647	472	817	814	2,860	792	537	365	400	407	22
15	437	660	440	614	807	1,880	791	577	246	422	404	310
16	469	650	439	529	871	1,530	779	549	406	413	291	318
17	397	480	507	369	897	1,160	764	510	443	454	26	373
18	345	547	518	131	1,070	1,140	761	464	458	441	368	408
19	452	612	449	138	1,100	1,340	771	489	475	293	373	366
20	488	718	453	317	995	1,050	762	521	453	29	439	162
21	447	563	472	145	936	926	754	684	472	402	439	18
22	567	543	144	133	900	1,230	750	680	334	394	455	423
23	484	209	139	282	920	1,010	748	672	390	414	496	501
24	336	324	59	437	1,700	1,930	746	670	416	433	454	600
25	336	482	227	1,020	1,480	1,640	757	477	429	421	388	550
26	179	599	506	730	1,240	1,200	746	457	430	330	386	195
27	151	666	532	604	1,190	1,250	738	489	418	278	374	431
28	366	449	643	600	1,150	1,160	715	490	473	414	414	37
29	367	476	247	506	------	1,770	704	464	433	416	403	87
30	370	519	223	565	------	5,100	709	414	402	429	374	45
31	337	------	163	577	------	2,750	------	492	------	414	283	------
TOTAL	12,748	14,090	13,136	13,415	27,735	44,211	27,782	17,634	13,028	11,430	10,622	8,444
MEAN	411	470	424	433	991	1,426	926	569	434	369	343	281
MAX	660	718	643	1,020	1,700	5,100	2,020	703	489	454	560	600
MIN	151	31	59	110	554	824	704	414	246	29	17	18
(†)	-6,704.4	-4,493.4	+2,681.3	+12,445	+9,439.9	-41.9	-3,748.2	-4,169	-4,274.8	-5,161.1	-4,172.3	-1,624.2
MEAN‡	195	320	510	834	1,328	1,425	801	434	292	202	208	227
CFSM‡	1.35	2.22	3.54	5.79	9.22	9.90	5.56	3.01	2.03	1.40	1.44	1.58
IN.‡	1.56	2.48	4.09	6.68	9.60	11.41	6.21	3.48	2.26	1.62	1.67	1.76

CAL YR 1974 TOTAL 235,576 MEAN 645 MAX 2,160 MIN 31 MEAN‡ 602 CFSM‡ 4.18 IN.‡ 56.79
WTR YR 1975 TOTAL 214,275 MEAN 587 MAX 5,100 MIN 17 MEAN‡ 560 CFSM‡ 3.89 IN.‡ 52.82

† Change in contents, in cfs-days, in Nantahala and Queens Creek Lakes; furnished by Tennessee Valley Authority and Nantahala Power and Light Co.
‡ Adjusted for change in contents in Nantahala and Queens Creek Lakes.

03508000 Tuckasegee River at Tuckasegee, N. C.

LOCATION.--Lat 35°16'55", long 83°07'37", Jackson County, on right bank 0.9 mi (1.4 km) north of Tuckasegee, 1.1 mi (1.8 km) downstream from bridge on State Highway 107 and West Fork Tuckasegee River, 10.8 mi (17.4 km) downstream from Thorpe Dam, and at mile 48.5 (78.0 km).

DRAINAGE AREA.--143 mi^2 (370 km^2).

PERIOD OF RECORD.--June 1934 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,125.16 ft (647.749 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--41 years, 401 ft^3/s (11.36 m^3/s), 38.08 in/yr (967 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,160 ft^3/s (203 m^3/s) Sept. 23 (gage height, 9.51 ft or 2.899 m); minimum, 11 ft^3/s (0.31 m^3/s) Sept. 16 (gage height, 0.71 ft or 0.216 m); minimum daily, 32 ft^3/s (0.91 m^3/s) Nov. 3.
Period of record: Maximum discharge, 40,800 ft^3/s (1,160 m^3/s) Aug. 30, 1940 (gage height, 21.1 ft or 6.431 m, from floodmarks), from rating curve extended above 13,500 ft^3/s (382 m^3/s) on basis of slope-area measurements at gage heights 14.3 ft (4.36 m) and 21.1 ft (6.43 m); minimum, 5.2 ft^3/s (0.15 m^3/s) Sept. 3, 1956 (gage height, 0.54 ft or 0.165 m); minimum daily, 6.4 ft^3/s (0.18 m^3/s) Oct. 7, 1956.
Maximum stage observed since at least 1840, that of Aug. 30, 1940, from studies by Tennessee Valley Authority.

REMARKS.--Records good. Flow regulated by Thorpe Reservoir, Cedar Cliff Lake, Bear Creek Lake, and Tennessee Creek project lakes (see pp. 190,192).

REVISIONS (WATER YEARS).--WSP 823: Drainage area. WSP 1053: 1943.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	290	297	851	361	88	719	1,230	399	602	286	373	156
2	282	152	624	553	240	688	1,080	411	695	285	283	218
3	358	32	358	398	745	760	1,080	308	572	188	156	293
4	429	266	320	391	618	600	1,040	546	543	210	396	261
5	189	282	294	72	917	702	1,030	257	525	140	328	281
6	162	325	551	396	816	570	1,020	333	564	325	492	214
7	218	307	589	238	473	477	1,010	321	221	290	536	134
8	289	337	577	171	446	747	939	328	198	255	276	298
9	287	208	426	433	501	609	885	790	515	245	137	228
10	289	166	382	447	626	497	878	509	572	272	135	343
11	415	285	328	797	450	748	888	201	578	257	248	268
12	186	292	367	683	443	727	875	392	324	265	260	266
13	175	345	508	821	449	999	871	348	511	210	266	177
14	402	379	630	879	507	1,140	859	307	462	323	249	141
15	293	346	200	789	115	1,160	862	545	76	273	250	103
16	561	258	372	451	473	1,060	862	703	265	330	178	82
17	353	205	349	495	753	974	858	346	330	274	248	154
18	294	300	474	455	693	827	852	648	361	287	273	665
19	193	431	470	443	481	1,050	852	760	455	167	277	510
20	241	684	501	492	458	868	851	527	493	166	285	415
21	327	631	428	437	760	866	836	653	196	255	255	188
22	274	377	84	247	188	872	485	695	183	264	264	384
23	335	136	338	379	613	857	339	435	264	252	165	1,760
24	291	148	302	258	1,160	1,290	283	497	283	258	203	2,170
25	279	350	252	625	899	1,220	226	704	284	313	259	757
26	152	367	511	725	802	1,110	224	458	324	231	300	665
27	73	417	529	500	795	1,060	217	318	469	268	362	689
28	305	188	527	365	719	1,040	250	317	185	323	208	557
29	281	357	595	371	------	1,110	217	601	147	352	229	676
30	276	341	423	404	------	2,430	230	676	290	357	163	684
31	295	------	368	575	------	1,390	------	240	------	293	176	------
TOTAL	8,794	9,209	13,528	14,651	16,228	29,167	22,129	14,573	11,487	8,214	8,230	13,737
MEAN	284	307	436	473	580	941	738	470	383	265	265	458
MAX	561	684	851	879	1,160	2,430	1,230	790	695	357	536	2,170
MIN	73	32	84	72	88	477	217	201	76	140	135	82
(†)	-3,871	-2,829	-1,774	+3,036	+6,472	+6,268	-4,307	-1,024	-2,121	-2,422	-2,631	+2,296
MEAN‡	159	213	379	571	811	1,143	594	437	312	188	181	534
CFSM‡	1.11	1.49	2.65	3.99	5.67	7.99	4.15	3.06	2.18	1.31	1.27	3.73
IN.‡	1.28	1.66	3.06	4.60	5.90	9.22	4.63	3.52	2.43	1.51	1.46	4.17

CAL YR 1974 TOTAL 194,548 MEAN 533 MAX 1,510 MIN 32 MEAN‡ 510 CFSM‡ 3.57 IN.‡ 48.42
WTR YR 1975 TOTAL 169,947 MEAN 466 MAX 2,430 MIN 32 MEAN‡ 458 CFSM‡ 3.20 IN.‡ 43.44

† 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.

03508136 Caney Fork near Cowarts, N. C.

LOCATION.--Lat 35°18'41", long 83°05'23", Jackson County, on left bank 0.6 mi (1.0 km) upstream from mouth of Abbs Creek, 1.5 mi (2.4 km) northeast of Cowarts, and 7.2 mi (11.6 km) above mouth.

DRAINAGE AREA.--32 mi^2 (82.9 km^2), approximately.

PERIOD OF RECORD.--January to September 1975.

GAGE.--Water-stage recorder. Altitude of gage is 2,390 ft or 728 m (from topographic map).

Extremes.--January to September 1975: Maximum discharge during period, 2,160 ft^3/s (61.2 m^3/s) Mar. 24 (gage height, 5.77 ft or 1.759 m), from rating curve extended above 1,020 ft^3/s (28.9 m^3/s); minimum, 18 ft^3/s (0.51 m^3/s) Sept. 4 (gage height, 2.50 ft or 0.762 m).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1				104	100	160	302	81	185	45	34	25
2				93	153	147	274	110	97	47	33	23
3				101	149	138	249	147	85	46	32	21
4				110	209	132	220	104	77	44	33	20
5				94	336	126	199	91	73	42	40	20
6				90	248	122	182	85	71	56	69	23
7				85	206	154	171	85	66	48	41	40
8				83	179	137	165	81	62	44	36	32
9				81	163	124	155	96	60	43	34	60
10				117	150	133	147	82	63	42	36	27
11				183	144	142	140	78	70	43	35	27
12				170	138	174	132	79	79	43	33	28
13				172	136	396	126	75	63	40	30	26
14				144	128	592	122	71	59	39	29	23
15				131	121	332	122	97	57	39	36	22
16				120	147	272	113	102	57	39	38	22
17				111	154	239	109	86	53	39	30	72
18				106	186	217	104	115	61	46	32	225
19				107	165	215	102	91	54	40	33	66
20				118	164	189	96	85	81	44	30	48
21				101	149	172	92	80	67	41	27	41
22				97	141	176	89	78	55	38	30	55
23				93	182	158	88	75	53	36	29	843
24				96	352	502	86	71	51	39	27	346
25				220	236	266	91	68	51	36	25	154
26				154	201	218	83	66	53	35	28	109
27				136	183	195	79	65	49	43	40	88
28				125	165	177	78	63	48	34	29	75
29				118	------	276	77	74	48	38	26	67
30				111	------	710	79	67	46	60	24	62
31		------		105	------	355	------	92	------	44	26	------
TOTAL				3,676	5,025	7,346	4,072	2,640	1,994	1,313	1,025	2,690
MEAN				119	179	237	136	85.2	66.5	42.4	33.1	89.7
MAX				220	352	710	302	147	185	60	69	843
MIN				81	100	122	77	63	46	34	24	20
CFSM				3.72	5.59	7.41	4.25	2.66	2.08	1.33	1.03	2.80
IN.				4.27	5.84	8.54	4.73	3.07	2.32	1.53	1.19	3.13

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0045	5.38	1,590	3-30	0145	5.36	1,570
3-24	1030	5.77	2,160	9-23	0645	5.68	2,020

03509000 Scott Creek above Sylva, N. C.

LOCATION.--Lat 35°23'02", long 83°12'51", Jackson County, on right bank 100 ft (30.5 m) downstream from bridge on Secondary Road 1431, 800 ft (244 m) downstream from Allens Branch, 0.7 mi (1.1 km) upstream from Cope Creek, 0.8 mi (1.3 km) upstream from Sylva, and 3.3 mi (5.3 km) upstream from mouth.

DRAINAGE AREA.--50.7 mi^2 (131.3 km^2).

PERIOD OF RECORD.--June 1941 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 2,056.42 ft (626.797 m) above mean sea level (levels by Tennessee Valley Authority).

AVERAGE DISCHARGE.--34 years, 115 ft^3/s (3.257 m^3/s), 30.80 in/yr (782 mm/yr).

EXTREMES.--Current year: Maximum discharge, 1,600 ft^3/s (45.3 m^3/s) Mar. 14 (gage height, 6.93 ft or 2.112 m); minimum, 45 ft^3/s (1.27 m^3/s) Sept. 3, 4 (gage height, 2.27 ft or 0.692 m).
Period of record: Maximum discharge, 2,800 ft^3/s (79.3 m^3/s) May 28, 1973 (gage height, 8.78 ft or 2.676 m); minimum, 8.0 ft^3/s (0.23 m^3/s) Sept. 22, 23, 1941 (gage height, 1.30 ft or 0.396 m); minimum daily, 22 ft^3/s (0.62 m^3/s) Sept. 19, 29, 30, Oct. 4, 1954.
Flood of Aug. 30, 1940, reached a stage of 8.6 ft (2.621 m), from floodmarks (discharge, about 3,200 ft^3/s or about 90.6 m^3/s) from rating curve extended above 1,800 ft^3/s (51.0 m^3/s).

REMARKS.--Records good except those above 600 ft^3/s (17.0 m^3/s), which are fair.

REVISIONS (WATER YEARS).--WSP 1053: 1942-44(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	60	127	155	160	242	420	143	232	73	70	53
2	63	60	103	142	308	224	377	146	142	99	70	50
3	62	59	96	147	285	208	373	161	128	78	75	48
4	62	59	92	173	357	200	324	145	119	74	85	47
5	61	90	91	142	527	193	300	131	117	71	80	47
6	60	61	90	136	395	186	283	125	115	87	200	66
7	60	59	107	130	329	254	268	133	107	77	150	91
8	60	58	156	127	288	228	256	126	103	72	100	71
9	59	57	119	125	263	201	247	196	100	69	90	66
10	59	56	108	172	239	219	238	140	103	68	100	59
11	59	61	104	269	229	232	225	162	123	66	100	64
12	58	77	107	272	259	291	214	185	134	65	80	62
13	58	62	99	281	212	650	206	148	105	63	75	57
14	58	67	95	224	199	693	202	136	100	62	70	53
15	64	65	99	200	187	424	206	212	100	69	70	51
16	204	61	98	183	261	368	188	271	105	64	70	51
17	80	66	91	168	272	337	182	196	93	68	75	86
18	70	124	86	160	335	316	176	193	91	79	75	191
19	65	169	89	170	302	318	178	165	90	102	70	94
20	64	293	87	213	262	292	168	153	88	143	65	72
21	63	158	84	165	238	279	160	143	90	83	60	64
22	62	120	81	155	223	301	155	141	85	70	56	98
23	62	107	80	149	278	277	153	139	82	79	56	493
24	62	100	94	150	490	460	152	129	81	86	60	278
25	61	100	290	411	320	339	163	125	85	72	56	163
26	60	91	153	260	281	303	146	121	90	78	65	126
27	60	88	177	221	269	285	139	117	80	89	70	105
28	60	84	318	199	246	272	136	115	78	69	65	93
29	61	81	225	189	------	371	136	126	89	83	58	85
30	61	131	196	179	------	933	142	127	75	90	53	81
31	61	------	172	167	------	500	------	162	------	75	55	------
TOTAL	2,063	2,724	3,914	5,834	8,014	10,396	6,513	4,712	3,130	2,423	2,424	2,965
MEAN	66.5	90.8	126	188	286	335	217	152	104	78.2	78.2	98.8
MAX	204	293	318	411	527	933	420	271	232	143	200	493
MIN	58	56	80	125	160	186	136	115	75	62	53	47
CFSM	1.31	1.79	2.49	3.71	5.64	6.61	4.28	3.00	2.05	1.54	1.54	1.95
IN.	1.51	2.00	2.87	4.28	5.88	7.63	4.78	3.46	2.30	1.78	1.78	2.18

CAL YR 1974 TOTAL 58,427 MEAN 160 MAX 828 MIN 56 CFSM 3.16 IN 42.87
WTR YR 1975 TOTAL 55,112 MEAN 151 MAX 933 MIN 47 CFSM 2.98 IN 40.44

PEAK DISCHARGE (BASE, 900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0045	6.93	1,600	3-30	0415	6.90	1,580
3-24	1215	5.84	1,010				

03510500 Tuckasegee River at Dillsboro, N. C.

LOCATION.--Lat 35°21'59", long 83°15'38", Jackson County, on left bank on Secondary Road 1377, 0.4 mi (0.6 km) downstream from Scott Creek, 0.5 mi (0.8 km) downstream from bridge on U. S. Highway 23 at Dillsboro, and at mile 31.1 (50.0 km).

DRAINAGE AREA.--347 mi^2 (899 km^2).

PERIOD OF RECORD.--June 1928 to current year (prior to October 1933 monthly discharge only, published in WSP 1306; figures of daily discharge published in WSP 663, 683, 698, 713, 728, 743, are unreliable).

GAGE.--Water-stage recorder. Datum of gage is 1,950.15 ft (594.406 m) above mean sea level (levels by Tennessee Valley Authority). Prior to May 24, 1934, nonrecording gage at site below Scott Creek 0.4 mi (0.6 km) upstream at datum 7.27 ft (2.216 m) higher.

AVERAGE DISCHARGE.--47 years, 788 ft^3/s (22.32 m^3/s), 30.84 in/yr (783 mm/yr) unadjusted.

EXTREMES.--Current year: Maximum discharge, 9,210 ft^3/s (261 m^3/s) Mar. 30 (gage height, 9.80 ft or 2.987 m); minimum, 109 ft^3/s (3.09 m^3/s) Aug. 4 (gage height, 2.03 ft or 0.619 m); minimum daily, 232 ft^3/s (6.57 m^3/s) Sept. 16.
Period of record: Maximum discharge, 52,600 ft^3/s (1,490 m^3/s) Aug. 30, 1940 (gage height, 21.96 ft or 6.693 m, from floodmarks), from rating curve extended above 8,400 ft^3/s (238 m^3/s) on basis of slope-area measurement and computation of peak flow over dam; minimum, 35 ft^3/s (0.99 m^3/s) Sept. 17, 1953 (gage height, 1.60 ft or 0.488 m); minimum daily, 107 ft^3/s (3.03 m^3/s) Sept. 19, 1954.
Flood in May 1840 was approximately equal to that of Aug. 30, 1940, from studies by Tennessee Valley Authority.

REMARKS.--Records good. Considerable diurnal fluctuation caused by Dillsboro powerplant 0.7 mi (1.1 km) above station. Flow partly regulated by Thorpe Reservoir 28 mi (45 km) upstream (see p. 190), and by Cedar Cliff Lake, Bear Creek Lake, and Tennessee Creek project lakes (see p. 192).

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	490	479	1,470	987	753	1,600	2,870	912	1,430	535	557	331
2	481	337	1,050	953	900	1,550	2,540	913	1,150	576	475	387
3	549	310	836	871	1,570	1,530	2,470	1,130	1,030	448	484	439
4	617	350	680	1,080	1,750	1,330	2,250	1,220	939	453	499	410
5	401	560	597	590	2,790	1,450	2,140	770	941	380	652	384
6	351	525	695	741	2,270	1,240	2,060	832	925	549	1,100	401
7	401	491	908	768	1,640	1,330	1,990	819	721	625	976	451
8	478	514	1,240	576	1,400	1,530	1,890	802	559	499	579	486
9	473	388	825	730	1,350	1,320	1,790	1,260	734	479	444	513
10	474	363	774	881	1,380	1,330	1,750	1,110	923	498	392	449
11	595	452	667	1,870	1,250	1,510	1,710	695	1,080	471	424	538
12	375	541	718	1,600	1,410	1,770	1,660	921	789	502	483	454
13	357	544	719	1,860	1,050	3,310	1,620	831	766	425	473	389
14	580	588	997	1,680	1,170	4,430	1,600	757	920	497	458	333
15	491	561	588	1,510	878	2,830	1,620	1,060	497	471	449	286
16	1,040	449	713	1,220	1,170	2,470	1,560	1,530	542	535	435	232
17	738	405	644	948	1,610	2,210	1,530	968	646	508	379	313
18	513	661	729	1,030	1,880	1,990	1,510	1,160	611	565	524	1,320
19	396	864	728	965	1,730	2,120	1,510	1,250	786	426	479	867
20	437	1,560	765	1,110	1,320	1,880	1,480	1,130	744	563	482	757
21	521	1,260	824	989	1,560	1,800	1,450	977	671	455	450	411
22	470	800	441	882	1,120	1,860	1,160	1,150	484	495	452	566
23	553	448	464	713	1,410	1,740	905	1,000	553	491	359	2,940
24	462	417	587	824	3,030	3,230	854	785	562	550	384	3,930
25	470	602	1,160	1,900	2,230	2,840	819	1,130	566	556	427	1,380
26	348	654	819	1,690	1,890	2,340	773	916	614	469	427	1,070
27	314	640	1,180	1,380	1,810	2,140	744	756	664	698	542	1,010
28	432	451	1,540	973	1,660	2,040	762	701	542	557	486	913
29	467	536	1,480	998	------	2,550	722	891	439	522	398	906
30	461	675	1,240	952	------	6,370	767	1,110	539	736	332	945
31	481	------	823	1,150	------	3,560	------	822	------	549	332	------
TOTAL	15,216	17,425	26,901	34,421	43,981	69,200	46,506	30,308	22,367	16,083	15,333	23,811
MEAN	491	581	868	1,110	1,571	2,232	1,550	978	746	519	495	794
MAX	1,040	1,560	1,540	1,900	3,030	6,370	2,870	1,530	1,430	736	1,100	3,930
MIN	314	310	441	576	753	1,240	722	695	439	380	332	232

CAL YR 1974 TOTAL 390,631 MEAN 1,070 MAX 4,550 MIN 310
WTR YR 1975 TOTAL 361,552 MEAN 991 MAX 6,370 MIN 232

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
3-14	0130	8.50	6,690	3-30	0615	9.80	9,210
3-24	1515	7.67	5,340	9-24	0230	9.46	8,520

03512000 Oconaluftee River at Birdtown, N. C.

LOCATION.--Lat 35°27'42", long 83°21'13", Swain County, in Cherokee Indian Reservation, on left bank 200 ft (61 m) upstream from bridge on Secondary Road 1359, 0.5 mi (0.8 km) south of Birdtown, 0.6 mi (1.0 km) downstream from Adams Creek, 0.6 mi (1.0 km) upstream from Goose Creek, 2.2 mi (3.5 km) southwest of Cherokee, and at mile 3.1 (5.0 km).

DRAINAGE AREA.--184 mi^2 (477 km^2).

PERIOD OF RECORD.--July 1945 to September 1946, July 1948 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,843.30 ft (561.838 m) above mean sea level. Prior to Oct. 1, 1946, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--28 years, 520 ft^3/s (14.73 m^3/s), 38.38 in/yr (975 mm/yr).

EXTREMES.--Current year: Maximum discharge, 7,970 ft^3/s (226 m^3/s) Mar. 14 (gage height, 7.77 ft or 2.368 m); minimum, 137 ft^3/s (3.88 m^3/s) Sept. 6 (gage height, 1.04 ft or 0.317 m).
Period of record: Maximum discharge, 15,900 ft^3/s (450 m^3/s) Dec. 30, 1969 (gage height, 12.46 ft or 3.798 m, from floodmarks); minimum,80 ft^3/s (2.27 m^3/s) Oct. 19, 1954 (gage height, 0.66 ft or 0.201 m).
Floods of Nov. 19, 1906 and Mar. 27, 1913 reached stages of 18 ft (5.5 m) and 14.5 ft (4.42 m), respectively (discharge not determined), from studies by Tennessee Valley Authority.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	168	525	807	695	904	2,100	435	715	224	220	172
2	188	167	392	694	1,110	817	1,670	424	466	286	200	163
3	183	164	355	672	1,060	731	1,630	499	406	234	196	152
4	183	164	328	777	940	678	1,290	533	380	218	188	143
5	180	329	315	646	1,110	644	1,130	441	364	246	241	142
6	175	221	307	604	1,030	616	1,020	420	371	288	567	161
7	171	187	353	556	872	1,120	932	419	342	290	381	324
8	167	180	626	531	891	1,180	872	414	318	242	283	270
9	164	175	512	554	899	879	825	790	307	221	245	193
10	161	171	426	556	828	883	802	525	336	219	241	178
11	161	175	405	1,150	811	860	735	482	364	222	252	234
12	158	284	405	917	1,020	1,630	676	487	513	214	214	222
13	158	214	380	876	831	4,060	638	477	399	197	200	314
14	156	210	359	817	752	4,710	615	433	350	193	186	225
15	166	226	372	872	704	2,560	621	590	341	227	227	191
16	1,110	195	393	833	866	1,870	571	856	358	225	324	180
17	429	205	361	728	1,120	1,520	549	629	310	296	268	198
18	301	408	329	676	1,300	1,300	528	585	316	312	301	537
19	256	709	335	728	1,340	1,480	582	557	304	273	294	442
20	234	2,050	321	994	1,110	1,380	566	503	282	239	229	300
21	219	1,040	315	799	958	1,150	500	471	277	301	200	252
22	212	666	302	729	860	1,230	483	446	273	233	283	458
23	201	527	292	675	937	1,110	468	428	259	229	216	2,720
24	197	451	335	653	3,780	1,670	468	416	250	485	204	2,120
25	191	419	1,540	1,260	1,830	1,470	520	392	252	391	202	833
26	187	367	922	1,080	1,360	1,210	469	434	274	269	190	562
27	183	338	929	1,020	1,140	1,060	441	457	260	243	234	443
28	178	316	1,590	968	979	953	433	390	246	215	244	374
29	177	299	1,240	927	------	1,490	424	408	243	263	215	328
30	174	446	1,120	853	------	5,380	432	414	229	303	186	296
31	174	------	927	756	------	2,950	------	430	------	300	177	------
TOTAL	6,991	11,471	17,311	24,708	31,133	49,495	22,990	15,185	10,105	8,098	7,608	13,127
MEAN	226	382	558	797	1,112	1,597	766	490	337	261	245	438
MAX	1,110	2,050	1,590	1,260	3,780	5,380	2,100	856	715	485	567	2,720
MIN	156	164	292	531	695	616	424	390	229	193	177	142
CFSM	1.23	2.08	3.03	4.33	6.04	8.68	4.16	2.66	1.83	1.42	1.33	2.38
IN.	1.41	2.32	3.50	5.00	6.29	10.01	4.65	3.07	2.04	1.64	1.54	2.65

CAL YR 1974 TOTAL 237,814 MEAN 652 MAX 3,500 MIN 156 CFSM 3.54 IN 48.08
WTR YR 1975 TOTAL 218,222 MEAN 598 MAX 5,380 MIN 142 CFSM 3.25 IN 44.12

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
2-24	0615	7.52	7,570	3-30	0215	7.22	7,090
3-14	0245	7.77	7,970	9-23	1445	5.27	4,220

03513000 Tuckasegee River at Bryson City, N. C.

LOCATION.--Lat 35°25'40", long 83°26'50", Swain County, on left bank 400 ft (122 m) downstream from bridge on Secondary Road 1364, Everett Street, in Bryson City, 0.6 mi (1.0 km) downstream from Deep Creek, and at mile 12.6 (20.3 km).

DRAINAGE AREA.--655 mi^2 (1,696 km^2).

PERIOD OF RECORD.--October 1897 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,714.54 ft (522.592 m) above mean sea level (levels by Tennessee Valley Authority). Nov. 7, 1897, to Feb. 2, 1914, and May 18, 1920, to June 27, 1927, nonrecording gage at bridge 400 ft (122 m) upstream at datum 2.00 ft (0.610 m) higher. Feb. 3, 1914, to May 17, 1920, water-stage recorder at site 200 ft (61 m) upstream at datum 2.00 ft (0.610 m) higher. June 28, 1927, to Sept. 30, 1960, water-stage recorder at present site at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--78 years, 1,588 ft^3/s (44.97 m^3/s), 32.92 in/yr (836 mm/yr) unadjusted.

EXTREMES.--Current year: Maximum discharge, 25,900 ft^3/s (733 m^3/s) Mar. 30 (gage height, 12.22 ft or 3.725 m); minimum, 445 ft^3/s (12.6 m^3/s) Sept. 15 (gage height, 1.56 ft or 0.475 m); minimum daily, 492 ft^3/s (13.9 m^3/s) Nov. 4.

Period of record: Maximum discharge, 61,600 ft^3/s (1,740 m^3/s) Aug. 30, 1940 (gage height, 15.96 ft or 4.865 m, datum then in use), from rating curve extended above 28,000 ft^3/s (793 m^3/s) on basis of slope-area measurement of peak flow; minimum, 27 ft^3/s (0.76 m^3/s) Sept. 10, 1925, minimum gage height, 0.47 ft (0.143 m) Oct. 26, 1952, datum then in use; minimum daily discharge, 31 ft^3/s (0.88 m^3/s) Sept. 9, 10, 1925, caused by filling reservoir on Oconaluftee River; minimum daily during normal regulation, 186 ft^3/s (5.27 m^3/s) Oct. 13, 1925.

Floods of May 1840, Mar. 6, 1867, and June 1876 reached stages of 22 ft (6.7 m), 19 ft (5.8 m), and 19 ft (5.8 m), respectively, present site and datum (discharge not determined), from studies by Tennessee Valley Authority. The flood in May 1840 exceeded all other observed floods at this location.

REMARKS.--Records good. Considerable diurnal fluctuation caused by powerplants above station. Flow regulated by Thorpe Reservoir, Cedar Cliff Lake, Bear Creek Lake, Tennessee Creek project lakes (see pp. 190,192), and two small reservoirs with combined capacity of 250 ft^3/s-day (612,000 m^3).

REVISIONS (WATER YEARS).--WSP 523: 1916, 1918-20. WSP 823: Drainage area. WSP 1306: 1898-1913. WSP 1336: 1907, 1915(M), 1916-20, 1921-29(M), 1933-34(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	787	782	2,350	2,300	1,940	3,000	6,140	1,640	2,400	921	869	648
2	779	727	1,730	1,970	2,480	2,900	5,240	1,700	2,000	1,080	908	576
3	833	607	1,510	2,000	3,130	2,650	5,030	2,000	1,700	915	812	674
4	821	492	1,250	2,340	3,750	2,480	4,330	2,130	1,560	804	683	700
5	858	1,050	1,150	1,790	6,380	2,480	3,990	1,640	1,550	824	1,000	665
6	649	887	1,100	1,650	5,280	2,250	3,750	1,570	1,520	824	2,000	741
7	630	818	1,440	1,770	3,850	2,960	3,560	1,580	1,430	1,200	1,630	913
8	716	787	2,200	1,480	3,200	3,380	3,370	1,560	1,200	903	1,110	943
9	753	739	1,680	1,580	2,900	2,730	3,160	2,370	1,400	851	923	904
10	740	641	1,460	1,660	2,690	2,790	3,100	2,050	1,500	860	770	711
11	800	653	1,340	4,020	2,610	2,880	2,950	1,570	1,700	835	805	919
12	779	1,000	1,330	3,480	3,010	3,970	2,820	1,750	1,640	813	846	815
13	628	888	1,290	4,960	2,380	8,690	2,730	1,640	1,360	784	797	890
14	703	877	1,580	3,580	2,380	11,500	2,670	1,540	1,590	756	777	684
15	828	986	1,280	3,020	2,140	6,770	2,710	1,870	1,140	884	796	603
16	2,440	794	1,280	2,590	2,420	5,460	2,560	2,950	1,060	851	921	555
17	1,530	747	1,240	2,070	3,370	4,730	2,500	2,100	1,130	956	709	559
18	983	1,200	1,200	2,110	3,890	4,160	2,450	2,090	1,140	1,070	928	1,850
19	864	1,660	1,280	2,090	4,070	4,420	2,510	2,170	1,200	897	933	1,660
20	760	4,520	1,290	2,710	3,050	4,130	2,470	2,080	1,200	878	862	1,230
21	856	2,830	1,460	2,240	3,040	3,660	2,340	1,690	1,290	913	811	861
22	805	1,890	973	2,070	2,680	3,800	2,090	2,020	958	881	886	1,040
23	877	1,320	810	1,750	2,750	3,580	1,810	1,770	919	861	798	5,550
24	797	1,130	1,170	1,900	8,090	5,480	1,680	1,400	980	1,220	676	7,430
25	784	1,180	3,900	6,320	5,070	5,350	1,780	1,800	976	1,100	731	2,710
26	724	1,230	2,280	4,540	4,020	4,380	1,650	1,610	1,080	932	739	2,010
27	632	1,160	2,560	3,380	3,600	3,910	1,550	1,590	1,020	1,090	900	1,720
28	593	1,030	4,820	2,610	3,260	3,640	1,520	1,340	1,160	904	974	1,610
29	779	874	3,560	2,410	------	4,990	1,520	1,480	871	910	737	1,440
30	751	1,320	2,990	2,290	------	17,200	1,550	1,800	832	1,240	698	1,490
31	738	------	2,270	2,300	------	7,990	------	1,500	------	1,000	608	------
TOTAL	26,217	34,819	55,773	80,980	97,430	148,310	85,530	56,000	39,506	28,957	27,637	43,101
MEAN	846	1,161	1,799	2,612	3,480	4,784	2,851	1,806	1,317	934	892	1,437
MAX	2,440	4,520	4,820	6,320	8,090	17,200	6,140	2,950	2,400	1,240	2,000	7,430
MIN	593	492	810	1,480	1,940	2,250	1,520	1,340	832	756	608	555

CAL YR 1974 TOTAL 777,019 MEAN 2,129 MAX 8,430 MIN 492 CFSM 3.25 IN 44.12
WTR YR 1975 TOTAL 724,260 MEAN 1,984 MAX 17,200 MIN 492 CFSM 3.03 IN 41.12

PEAK DISCHARGE (BASE, 9,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
1-25	1330	7.88	12,100	3-30	0645	12.22	25,900
2-24	0800	8.32	13,300	9-24	0600	7.57	11,300
3-14	0415	9.55	16,800				

03548500 Hiwassee River above Murphy, N. C.

LOCATION.--Lat 35°04'50", long 84°00'10", Cherokee County, on right bank on U. S. Highway 64, 600 ft (183 m) upstream from Will Scott Creek, 2.0 mi (3.2 km) southeast of Murphy, and at mile 99.1 (159.5 km).

DRAINAGE AREA.--406 mi^2 (1,052 km^2).

PERIOD OF RECORD.--June 1896 to August 1897 (gage heights only), October 1897 to current year. Published as "at Murphy" 1897-1940. Records published for both sites August 1939 to April 1940. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,538.23 ft (468.853 m) above mean sea level (levels by Tennessee Valley Authority). Prior to Jan. 30, 1921, nonrecording gage at bridge 2.8 mi (4.5 km) downstream at datum 30.40 ft (9.266 m) lower. Jan. 30, 1921, to Nov. 8, 1926, nonrecording gage 2.8 mi (4.5 km) downstream at datum 28.40 ft (8.656 m) lower. Nov. 9, 1926, to Apr. 30, 1940, water-stage recorder 2.8 mi (4.5 km) downstream at datum 28.20 ft (8.595 m) lower.

AVERAGE DISCHARGE.--78 years (1897-1975), 919 ft^3/s (26.03 m^3/s), 30.74 in/yr (781 mm/yr) adjusted for storage.

EXTREMES.--Current year: Maximum discharge, 12,200 ft^3/s (346 m^3/s) Mar. 30 (gage height, 11.23 ft or 3.423 m); minimum, 89 ft^3/s (2.52 m^3/s) Oct. 3 (gage height, 2.09 ft or 0.637 m); minimum daily, 114 ft^3/s (3.23 m^3/s) Oct. 3, 4.

Period of record: Maximum discharge, 23,100 ft^3/s (654 m^3/s) Mar. 19, 1899 (gage height, 18.4 ft or 5.61 m), from graph based on gage readings, site and datum then in use, from rating curve extended above 5,000 ft^3/s (142 m^3/s); minimum daily, 10 ft^3/s (0.28 m^3/s) Dec. 3, 1924, result of freezeup and filling of Andrews Lake; minimum daily during normal regulation, 62 ft^3/s (1.76 m^3/s) Oct. 19, 1952.

Maximum stage observed is that of Mar. 19, 1899.

REMARKS.--Records good. Considerable diurnal fluctuation since 1924 caused by Mission powerplant at Andrews Dam 7 mi (11 km) upstream (normal regulated storage, about 75 ft^3/s-day or about 184,000 m^3). Flow regulated since 1942 by Chatuge Lake 22 mi (35 km) upstream (see p. 191).

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 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	1,050	1,090	980	981	1,620	2,380	802	1,340	970	954	452
2	194	441	1,190	1,530	2,800	1,380	1,800	988	1,150	1,120	464	803
3	114	380	821	790	2,640	1,390	1,990	516	1,250	1,180	216	1,020
4	114	425	972	994	3,280	1,240	1,610	549	1,250	892	568	1,020
5	120	1,180	719	791	6,460	1,340	1,440	901	1,280	617	962	1,030
6	268	808	795	658	4,150	1,600	1,240	1,370	1,360	244	1,140	625
7	648	998	311	704	3,150	1,150	1,600	1,690	935	605	1,110	218
8	850	832	593	505	2,740	1,460	1,850	1,450	684	797	1,220	808
9	856	986	1,080	480	2,550	1,430	1,840	1,540	791	956	512	1,140
10	921	901	1,030	535	2,400	1,330	1,570	1,370	841	1,180	346	1,020
11	1,090	485	577	1,490	2,310	1,380	1,590	770	1,330	635	531	963
12	427	880	456	2,130	2,540	1,660	1,560	1,000	1,260	696	964	917
13	148	1,310	717	2,480	2,360	3,510	1,460	1,320	930	264	991	580
14	396	1,130	392	2,110	2,320	4,250	1,180	1,240	649	326	1,290	155
15	801	1,190	290	1,590	2,210	2,400	1,210	1,630	537	1,140	719	463
16	1,190	1,160	691	1,230	2,070	2,040	1,130	1,440	723	1,130	1,040	880
17	647	284	833	1,210	2,140	2,040	1,110	803	1,260	1,250	470	822
18	779	455	947	1,480	3,220	1,640	1,230	634	1,200	1,020	715	875
19	415	1,250	623	539	2,990	1,320	993	560	1,320	991	823	881
20	174	2,120	515	922	2,640	1,360	734	1,020	1,260	574	1,180	549
21	852	1,190	792	1,400	2,550	1,330	518	1,400	1,130	612	1,200	156
22	1,390	1,650	438	815	2,430	1,260	500	1,220	960	734	1,100	431
23	1,340	919	567	1,020	2,420	1,160	490	1,350	638	843	1,090	849
24	1,010	1,290	376	929	3,190	2,930	488	1,220	983	1,170	1,040	741
25	845	1,220	795	2,980	2,730	2,410	535	771	1,070	1,000	983	525
26	444	1,470	1,170	2,000	2,210	1,720	499	490	1,150	839	1,040	789
27	292	1,630	826	1,950	2,080	1,350	467	598	862	390	1,060	626
28	543	1,280	1,870	1,390	2,050	1,250	1,140	977	1,030	906	1,090	385
29	756	593	1,390	1,220	------	2,250	674	945	1,050	1,040	1,070	497
30	838	412	1,130	1,310	------	7,980	609	1,240	975	1,120	1,050	708
31	820	------	986	1,140	------	3,240	------	1,180	------	1,270	501	------
TOTAL	19,469	29,919	24,982	39,302	75,611	62,420	35,437	32,984	31,198	26,511	27,439	20,928
MEAN	628	997	806	1,268	2,700	2,014	1,181	1,064	1,040	855	885	698
MAX	1,390	2,120	1,870	2,980	6,460	7,980	2,380	1,690	1,360	1,270	1,290	1,140
MIN	114	284	290	480	981	1,150	467	490	537	244	216	155

CAL YR 1974 TOTAL 452,228 MEAN 1,239 MAX 4,530 MIN 114 MEAN† 1,205 CFSM† 2.97 IN.† 40.30
WTR YR 1975 TOTAL 426,200 MEAN 1,168 MAX 7,980 MIN 114 MEAN† 1,136 CFSM† 2.80 IN.† 37.99

† Adjusted for change in contents in Chatuge Lake.

03550000 Valley River at Tomotla, N. C.

LOCATION.--Lat 35°08'20", long 83°58'50", Cherokee County, on right bank 15 ft (4.6 m) downstream from bridge on Secondary Road 1373 at Tomotla, 0.2 mi (0.3 km) upstream from Rogers Creek, 4.7 mi (7.6 km) northeast of Murphy, and at mile 6.6 (10.6 km).

DRAINAGE AREA.--104 mi^2 (269 km^2).

PERIOD OF RECORD.--June 1904 to December 1909, January 1914 to April 1917, October 1918 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,556.46 ft (474.409 m) above mean sea level (levels by Tennessee Valley Authority). Prior to May 11, 1934, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--63 years (1904-9, 1914-16, 1919-75), 256 ft^3/s (7,250 m^3/s), 33.43 in/yr (849 mm/yr).

EXTREMES.--Current year: Maximum discharge, 6,500 ft^3/s (184 m^3/s) Mar. 30 (gage height, 14.94 ft or 4.554 m); minimum, 40 ft^3/s (1.13 m^3/s) Sept. 5, 6 (gage height, 1.71 ft or 0.521 m).
Period of record: Maximum discharge, 18,000 ft^3/s (510 m^3/s) Nov. 19, 1906 (gage height, 20.5 ft or 6.25 m, from flood profile by Tennessee Valley Authority), from rating curve extended above 5,800 ft^3/s (164 m^3/s) on basis of slope-conveyance study; minimum, 12 ft^3/s (0.34 m^3/s) several times in August and September 1925 (gage height, 0.52 ft or 0.158 m).
Flood of September 1898 reached a stage of 21.2 ft (6.462 m), from floodmark by Tennessee Valley Authority (discharge, about 20,000 ft^3/s or about 566 m^3/s).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 503: 1905-9, 1915-17. WSP 823: Drainage area. WSP 1306: 1917(M), 1920(M), 1922(M), 1925(M), 1930(M), 1933(M). WSP 1626: 1907(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	62	431	470	316	515	1,160	228	320	95	67	54
2	61	61	274	392	754	476	898	216	186	156	63	50
3	60	61	213	446	889	420	876	219	160	115	67	46
4	60	60	181	618	1,200	389	681	222	148	96	79	45
5	61	122	163	489	2,150	370	591	204	141	90	84	42
6	60	82	152	405	1,470	351	531	189	141	86	400	45
7	60	72	175	344	973	400	487	220	139	91	176	71
8	58	68	277	310	722	416	451	202	128	88	141	79
9	58	66	246	296	596	367	431	197	121	83	107	56
10	57	65	205	295	508	440	411	186	121	79	129	57
11	57	71	179	657	488	528	380	177	132	83	133	60
12	55	105	170	693	637	674	354	179	210	80	107	74
13	57	80	152	962	507	1,600	336	176	150	73	93	67
14	55	79	140	621	452	2,040	333	165	128	70	85	52
15	58	96	159	473	411	1,170	333	266	126	68	81	50
16	271	80	164	395	631	858	308	365	145	72	78	48
17	107	84	145	341	953	713	294	260	120	94	74	61
18	83	117	135	320	1,250	613	284	231	119	110	99	115
19	75	216	135	350	1,300	749	305	209	116	81	84	66
20	71	537	134	503	898	657	287	191	109	81	76	56
21	69	304	128	420	692	574	266	179	115	97	69	52
22	69	196	120	366	582	578	252	169	107	79	66	86
23	67	151	116	330	586	518	246	161	100	74	67	172
24	67	130	127	323	1,530	1,080	243	155	95	99	67	147
25	66	122	524	1,980	1,010	978	266	148	93	85	60	91
26	66	112	406	1,130	749	712	243	156	108	75	58	78
27	65	104	470	682	634	587	231	146	107	71	58	70
28	64	99	1,560	520	549	518	228	149	102	65	67	64
29	63	94	901	444	------	1,210	225	149	97	61	56	61
30	63	253	705	392	------	4,740	252	163	89	61	52	59
31	63	------	559	345	------	1,720	------	197	------	94	54	------
TOTAL	2,210	3,749	9,446	16,312	23,437	26,961	12,183	6,074	3,973	2,652	2,897	2,074
MEAN	71.3	125	305	526	837	870	406	196	132	85.5	93.5	69.1
MAX	271	537	1,560	1,980	2,150	4,740	1,160	365	320	156	400	172
MIN	55	60	116	295	316	351	225	146	89	61	52	42
CFSM	.69	1.20	2.93	5.06	8.05	8.37	3.90	1.88	1.27	.82	.90	.66
IN.	.79	1.34	3.38	5.83	8.38	9.64	4.36	2.17	1.42	.95	1.04	.74

CAL YR 1974 TOTAL 123,231 MEAN 338 MAX 2,360 MIN 55 CFSM 3.25 IN 44.08
WTR YR 1975 TOTAL 111,968 MEAN 307 MAX 4,740 MIN 42 CFSM 2.95 IN 40.05

PEAK DISCHARGE (BASE, 1,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-28	0900	6.68	1,830	2-24	0645	7.06	1,970
1-25	1330	10.03	3,160	3-14	0230	9.13	2,760
2- 5	1245	8.37	2,450	3-24	1415	6.89	1,910
2-18	1600	7.16	2,000	3-30	0830	14.94	6,500

Lakes and Reservoirs in Ohio River basin

03460242 LAKE WALTERS.--Lat 35°41'41", long 83°03'02", Haywood County, at Waterville Dam on Pigeon River, 0.1 mi (0.2 km) downstream from Cataloochee Creek, 5.5 mi (8.8 km) southeast of Mount Sterling, and at mile 38.0 (61.1 km). Drainage area, 455 mi^2 (1,178 km^2). Period of record, October 1961 to current year. Nonrecording gage read once daily. Datum of gage is at mean sea level. Extremes for current year: Maximum contents observed, 12,800 ft^3/s-day (31.32 hm^3) Mar. 13-20, 24-27, 29-31, Apr. 1-5, Sept. 24 (elevation, 2,258.6 ft or 688.42 m); minimum observed, 4,880 ft^3/s-day (11.94 hm^3) Jan. 8 (elevation, 2,202.1 ft or 671.20 m). Extremes for period of record: Maximum contents observed, 12,800 ft^3/s-day (31.32 hm^3) several days each year (elevation, 2,258.6 ft or 688.42 m); minimum observed, 2,860 ft^3/s-day (6.998 hm^3) Oct. 26, 1973 (elevation, 2,180.6 ft or 664.65 m).

Reservoir is formed by single arch, variable radius, concrete dam with fourteen taintor gates 10 ft (3 m) high by 24 ft (7.3 m) wide. Dam was completed in 1929 and filling began October 1929; water in reservoir first reached minimum pool elevation November 1929. Total capacity (new capacity table put into use Jan. 1, 1971), at elevation 2,258.6 ft or 688.42 m (top of gates) is 12,800 ft^3/s-day (31.32 hm^3), of which 10,400 ft^3/s-day (25.45 hm^3) is controlled storage above elevation 2,175 ft or 662.9 m (minimum pool). Reservoir is used for power. Prior to Jan. 1, 1971 records furnished by Carolina Power and Light Co. Gage-height record furnished by Carolina Power and Light Co.; level storage records furnished by Tennessee Valley Authority.

03504500 NANTAHALA LAKE.--Lat 35°11'56", long 83°39'17", Cherokee County, at Nantahala Dam on Nantahala River, 4.2 mi (6.8 km) southeast of Topton, 5.5 mi (8.8 km) upstream from Whiteoak Creek, and at mile 22.8 (36.7 km). Drainage area, 91.0 mi^2 (235.7 km^2). Period of record, January 1942 to current year. Prior to October 1944 monthend contents only, published in WSP 1306. Gage, water-stage recorder. Datum of gage is a local datum which is 122.16 ft (37.234 m) above mean sea level. Prior to June 3, 1942, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 69,200 ft^3/s-day (169.3 hm^3) Mar. 21 (elevation, 2,889.97 ft or 880.863 m); minimum, 42,700 ft^3/s-day (104.5 hm^3) Dec. 21 (elevation, 2,851.88 ft or 869.253 m). Extremes for period of record: Maximum contents, 70,400 ft^3/s-day (172.3 hm^3) Apr. 12, 1957 (elevation, 2,890.55 ft or 881.040 m); minimum (after first filling), 6,700 ft^3/s-day (16.39 hm^3) Jan. 28, 1955 (elevation, 2,760.11 ft or 841.282 m).

Reservoir is formed by rockfill dam with side channel gate-controlled spillway supplemented by fuse-plug dam. Dam completed and storage began Jan. 30, 1942; water in reservoir first reached minimum pool elevation Feb. 16, 1942. Total capacity (based on 1969 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 2,890.0 ft or 880.872 m (top of gates) is 69,200 ft^3/s-day (169.3 hm^3), of which 63,500 ft^3/s-day (155.4 hm^3) is controlled storage above 2,758.84 ft or 840.894 m (minimum pool). Reservoir is used for flood control and power. Gage-height record furnished by the Aluminum Co. of America; level storage records furnished by Tennessee Valley Authority. (See sta 03505500)

03507500 THORPE RESERVOIR.--Lat 35°11'46", long 83°09'09", Jackson County, at Thorpe Dam on West Fork Tuckasegee River, 2.3 mi (3.7 km) northwest of Glenville, 3.0 mi (4.8 km) upstream from Shoal Creek, and at mile 9.7 (15.6 km). Drainage area, 36.7 mi^2 (95.1 km^2). Period of record, February 1941 to current year. Prior to October 1944 monthend contents only, published in WSP 1306. Prior to October 1948, published as Glenville Reservoir. Gage, water-stage recorder. Datum of gage is a local datum which is 391.75 ft (119.405 m) above mean sea level. Prior to Apr. 9, 1941, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 34,800 ft^3/s-day (85.16 hm^3) Apr. 2 (elevation, 3,098.94 ft or 944.557 m); minimum, 20,700 ft^3/s-day (50.65 hm^3) Dec. 21 (elevation, 3,077.34 ft or 937.973 m). Extremes for period of record: Maximum contents, 35,700 ft^3/s-day (87.36 hm^3) Mar. 13, 1950 (elevation, 3,100.01 ft or 944.883 m); minimum (after first filling), 2,200 ft^3/s-day (5.383 hm^3) Feb. 5, 1955, Jan. 13, 1956; minimum elevation, 3,025.10 ft (922.050 m) Feb. 5, 1955.

Reservoir is formed by earth and rock dam and six 40 ft (12.2 m) fuse-plug dams. Side channel spillway equipped with two taintor gates 12 ft (3.7 m) high by 25 ft (7.6 m) wide. Dam completed and storage began Feb. 12, 1941. Water in reservoir first reached minimum pool elevation Mar. 15, 1941. Total capacity (based on 1969 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 3,100.0 ft or 944.88 m (top of gates) is 35,500 ft^3/s-day (86.87 hm^3), of which 33,700 ft^3/s-day (82.46 hm^3) is controlled storage above elevation 3,023.25 ft or 921.487 m (minimum pool). Reservoir is used for flood control and power. Gage-height record furnished by Aluminum Co. of America; level storage records furnished by Tennessee Valley Authority. (See sta 03508000)

03514500 FONTANA LAKE.--Lat 35°27'07", long 83°48'18", Graham County, at Fontana Dam on Little Tennessee River, 5.7 mi (9.2 km) upstream from Twenty Mile Creek, 9.0 mi (14.5 km) north of Robbinsville, 9.6 mi (15.4 km) upstream from Cheoah Dam, and at mile 61.0 (98.1 km). Drainage area, 1,571 mi^2 (4,069 km^2). Period of record, October 1944 to current year. Prior to November 1944, monthend contents only, published in WSP 1306. Gage, water-stage recorder. Datum of gage is at mean sea level. Extremes for current year: Maximum contents, 653,500 ft^3/s-day (1,599 hm^3) Apr. 6 (elevation, 1,695.65 ft or 516.834 m); minimum, 291,900 ft^3/s-day (714.3 hm^3) Dec. 24 (elevation, 1,597.29 ft or 486.854 m). Extremes for period of record: Maximum contents, 728,600 ft^3/s-day (1,783 hm^3) May 28, 1973 (elevation, 1,710.20 ft or 521.269 m); minimum (after first filling), 78,300 ft^3/s-day (191.6 hm^3) Jan. 29, 1955 (elevation, 1,472.0 ft or 448.666 m).

Reservoir is formed by gravity nonoverflow type concrete dam. Spillway equipped with four radial gates 35 ft (10.7 m) high by 35 ft (10.7 m) wide. Storage began Nov. 7, 1944; dam completed March 1945; water in reservoir first reached minimum pool elevation Jan. 16, 1945. Total capacity (based on 1967 resurvey; new capacity table put into use Jan. 1, 1971), at elevation, 1,710.0 ft or 521.208 m (top of gates) is 727,500 ft^3/s-day (1,780 hm^3), of which 578,000 ft^3/s-day (1,414 hm^3) is controlled storage above elevation 1,525.0 ft or 464.82 m (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

03516500 SANTEETLAH LAKE.--Lat 35°22'38", long 83°52'33", Graham County, at Santeetlah Dam on Cheoah River, 1 mi (1.6 km) downstream from Santeetlah Creek, 5.5 mi (8.8 km) northwest of Robbinsville, and at mile 9.3 (15.0 m). Drainage area, 176 mi^2 (456 km^2). Period of record, December 1927 to current year. Prior to October 1946 monthend contents only, published in WSP 1306. Gage, water-stage recorder. Datum of gage is a local datum which is 122.92 ft (37.466 m) above mean sea level. Prior to February 1937, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 79,900 ft^3/s-day (195.5 hm^3) Mar. 30 (elevation, 1,817.85 ft or 554.081 m); minimum, 45,200 ft^3/s-day (110.6 hm^3) Dec. 24 (elevation, 1,789.03 ft or 545.296 m). Extremes for period of record: Maximum contents, 81,100 ft^3/s-day (198.5 hm^3) Sept. 3, 1928 (elevation, 1,817.90 ft or 554.096 m); minimum (after first filling), 13,100 ft^3/s-day (32.06 hm^3) Feb. 6, 1940 (elevation, 1,741.39 ft or 530.776 m).

Reservoir is formed by concrete gravity and arch dam with concrete spillway controlled by six taintor gates 12 ft (3.7 m) high by 25 ft (7.6 m) wide. Dam completed and storage began Dec. 7, 1927. Water in reservoir first reached minimum pool elevation December 1927. Total capacity (new capacity table put into use Jan. 1, 1971), at elevation 1,817.00 ft or 553.822 m (top of gates) is 78,800 ft^3/s-day (192.8 hm^3), of which 66,600 ft^3/s-day (163.0 hm^3) is controlled storage above 1,740.08 ft or 530.377 m (minimum pool). Reservoir is used for power. Gage-height record furnished by Aluminum Co. of America; level storage records furnished by Tennessee Valley Authority.

Lakes and Reservoirs in Ohio River basin--Continued

03546500 CHATUGE LAKE.--Lat 35°01'01", long 83°47'28", Clay County, at Chatuge Dam on Hiwassee River 2.0 mi (3.2 km) upstream from Hyatt Mill Creek, 2.5 mi (4.0 km) downstream from Gerogia-North Carolina State line, 2.4 mi (3.9 km) southeast of Hayesville, and at mile 121.0 (194.7 km). Drainage area, 189 mi^2 (490 km^2). Period of record, February 1942 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level. Prior to Aug. 4, 1942, nonrecording gage at same site and datum. Extremes for current year: Maximum contents, 113,800 ft^3/s-day (278.5 hm^3) May 5 (elevation, 1,925.86 ft or 587.002 m); minimum, 66,500 ft^3/s-day (162.7 hm^3) Nov. 29 (elevation, 1,908.47 ft or 581.702 m). Extremes for period of record: Maximum contents, 124,200 ft^3/s-day (303.9 hm^3) Apr. 20, 1943 (elevation, 1,927.80 ft or 587.593 m); minimum (after first filling), 9,400 ft^3/s-day (23.0 hm^3) Sept. 5, 1947, Jan. 27, 1956; minimum elevation, 1,860.11 ft (566.962 m) Sept. 5, 1947.

Reservoir is formed by a rolled earthfill dam with side channel spillway equipped with flashboards. Dam completed and storage began Feb. 12, 1942; water in reservoir first reached minimum pool elevation Feb. 26, 1942. Total capacity (based on 1965 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 1,928.0 ft or 587.654 m (top of flashboards) is 121,200 ft^3/s-day (296.6 hm^3), of which 111,900 ft^3/s-day (273.8 hm^3) is controlled storage above elevation 1,860.0 ft or 566.928 m (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority. (See sta 03547000)

03554500 HIWASSEE LAKE.--Lat 35°09'01", long 84°10'40", Cherokee County, at Hiwassee Dam on Hiwassee River, 0.3 mi (0.5 km) northwest of village of Hiwassee Dam, 3.9 mi (6.3 km) upstream from Shoal Creek, and at mile 75.8 (122.0 km). Drainage area, 968 mi^2 (2,507 km^2). Period of record, September 1939 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level. Subtract 0.63 ft (0.192 m) from all elevations to reduce to datum of 1929, supplementary adjustment of 1936. Extremes for current year: Maximum contents, 193,700 ft^3/s-day (474.0 hm^3) May 16 (elevation, 1,518.53 ft or 462.848 m); minimum, 73,800 ft^3/s-day (180.6 hm^3) Dec. 24 (elevation, 1,458.12 ft or 444.435 m). Extremes for period of record: Maximum contents, 223,400 ft^3/s-day (546.7 hm^3) May 28, 1973 (elevation, 1,528.02 ft or 465.740 m); minimum (after first filling), 35,800 ft^3/s-day (87.60 hm^3) Jan. 28, 1948 (elevation, 1,413.41 ft or 430.807 m).

Reservoir is formed by gravity overflow concrete dam with seven taintor gates 23 ft (7.0 m) high by 32 ft (9.8 m) wide. Slight storage began Apr. 13, 1939, during construction; systematic storage operation began Jan. 14, 1940; dam completed February 1940; water in reservoir first reached minimum pool elevation Feb. 23, 1940. Total capacity (based on 1965 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 1,526.5 ft or 465.277 m (top of gates) is 218,800 ft^3/s-day (535.4 hm^3), of which 182,700 ft^3/s-day (447.1 hm^3) is controlled storage above elevation 1,415.0 or 431.292 m (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

03555500 APALACHIA LAKE.--Lat 35°10'04", long 84°17'49", Cherokee County, at Apalachia Dam on Hiwassee River, 0.1 mi (0.2 km) upstream from North Carolina-Tennessee State line, 1.5 mi (2.4 km) northeast of Farner, Tenn., 9.8 mi (15.8 km) downstream from Hiwassee Dam, and at mile 66.0 (106.2 km). Drainage area, 1,018 mi^2 (2,637 km^2). Period of record, February 1943 to current year. Gage, water-stage recorder. Datum of gage is at mean sea level. Extremes for current year: Maximum contents, 29,100 ft^3/s-day (71.21 hm^3) Mar. 31 (elevation, 1,279.99 ft or 390.141 m); minimum, 24,400 ft^3/s-day (59.71 hm^3) Feb. 11 (elevation, 1,271.32 ft or 387.498 m). Extremes for period of record: Maximum contents, 30,300 ft^3/s-day (74.14 hm^3) June 13, 1952 (elevation, 1,281.40 ft or 390.571 m); minimum (after first filling), 15,300 ft^3/s-day (37.44 hm^3) Apr. 25, 1971 (elevation, 1,251.00 ft or 381.305 m).

Reservoir is formed by concrete gravity dam. Spillway equipped with 10 radial gates. Dam completed and storage began Feb. 14, 1943; water in reservoir first reached minimum pool elevation Feb. 21, 1943. Total capacity (based on 1965 resurvey; new capacity table put into use Jan. 1, 1971), at elevation 1,280.00 ft or 390.144 m (top of gates) is 29,100 ft^3/s-day (71.21 hm^3), of which 24,500 ft^3/s-day (59.95 hm^3) is controlled storage above elevation 1,212.00 ft or 369.418 m (minimum pool). Reservoir is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

OTHER RESERVOIRS.--The following smaller reservoirs in the Tennessee River basin are described below, but records of contents are not published herein:

03447832 LAKE JULIAN.--Lat 35°28'37", long 82°32'51", Buncombe County, cooling water reservoir for Carolina Power and Light Co. plant, on Powells Creek near Skyland. Prior to November 1967, published as Asheville Steam-electric Generating Plant Lake. Drainage area, 4.78 mi^2 (12.38 km^2). Total capacity is 4,540 ft^3/s-day (11.11 hm^3), of which 2,120 ft^3/s-day (5.188 hm^3) is controlled storage. Storage began Mar. 27, 1963, and lake reached spillway elevation of 2,160 ft (658.4 m) on June 3, 1963. Most of initial storage and occasional supplemental storage provided by pumped diversion from French Broad River.

03448959 BURNETT LAKE.--Lat 35°39'44", long 82°20'43", Buncombe County, part of Asheville's municipal water supply, on North Fork Swannanoa River near Black Mountain. Drainage area, 21.9 mi^2 (56.7 km^2). Total capacity is 11,600 ft^3/s-day or 28.39 hm^3 (crest of spillway), of which 8,900 ft^3/s-day (21.78 hm^3) is controlled storage. Storage began Jan. 28, 1954. (See sta 03451000)

03450134 BEETREE RESERVOIR.--Lat 35°38'27", long 82°24'04", Buncombe County, part of Asheville's municipal water supply, on Beetree Creek near Swannanoa. Drainage area, 7.62 mi^2 (19.74 km^2). Total capacity is 844 ft^3/s-day (2.065 hm^3), of which 823 ft^3/s-day (2.014 hm^3) is controlled storage. Dam completed December 1926, and storage began Jan. 11, 1927; water in reservoir first reached maximum pool elevation Mar. 8, 1927. No diversion since June 1963.

03455773 LAKE LOGAN.--Lat 35°25'15", long 82°55'30", Haywood County, on West Fork Pigeon River near Canton, and at mile 7.0 (11.3 km). Drainage area, 33.3 mi^2 (86.2 km^2). Total capacity is 1,040 ft^3/s-day or 2.545 hm^3 (top of flashboards), all of which is usable. Storage began November 1931. (See sta 03456000)

03458319 LAKE JUNALUSKA.--Lat 35°31'38", long 82°57'48", Haywood County, on Richland Creek at Lake Junaluska, and at mile 2.4 (3.9 km). Drainage area, 63.6 mi^2 (164.7 km^2). Total surface area, about 195 acres (789,000 m^2). Lake reached spillway elevation in the spring of 1913.

03500466 SEQUOYAH LAKE.--Lat 35°04'02", long 83°13'31", Macon County, on Cullasaja River near Highlands, and at mile 18.4 (29.6 km). Drainage area, 14.4 mi^2 (37.3 km^2). Total capacity is 233 ft^3/s-day or 570,000 m^3 (spillway crest), of which approximately 116 ft^3/s-day (284,000 m^3) is usable. Storage began in 1926.

Lakes and Reservoirs in Ohio River basin--Continued

03507111; 03507131 EAST FORK LAKE AND WOLF CREEK LAKE.--These two reservoirs are operated as a unit for storage of water for the Tennessee Creek Project. East Fork Dam (drainage area, 24.9 mi^2 or 64.5 km^2) on Tuckasegee River near Tuckasegee, Jackson County, is at lat 35°12'48", long 83°00'08", Wolf Creek Dam (drainage area, 15.2 mi^2 or 39.4 km^2) on Wolf Creek near Tuckasegee, is at lat 35°13'18", long 83°00'00".
Total capacity of East Fork Lake is 671 ft^3/s-day (1.642 hm^3), of which 625 ft^3/s-day (1.529 hm^3) is controlled storage. Storage began Apr. 18, 1955. Total capacity of Wolf Creek Lake is 5,070 ft^3/s-day (12.41 hm^3), of which 3,850 ft^3/s-day (9.421 hm^3) is controlled storage. Storage began Mar. 22, 1955. (See sta 03508000)

03507216 BEAR CREEK LAKE.--Lat 35°14'29", long 83°04'22", Jackson County, on Tuckasegee River near Tuckasegee. Drainage area, 75.3 mi^2 (195.0 km^2). Total capacity is 17,500 ft^3/s-day (42.82 hm^3), of which 2,290 ft^3/s-day (5.604 hm^3) is controlled storage. Storage began Oct. 9, 1953. (See sta 03508000)

03507289 CEDAR CLIFF LAKE.--Lat 35°15'12", long 83°05'58", Jackson County, on Tuckasegee River near Tuckasegee, and at mile 51.9 (83.5 km). Drainage area, 80.3 mi^2 (208.0 km^2). Total capacity is 3,200 ft^3/s-day (7.830 hm^3), of which 400 ft^3/s-day (979,000 m^3) is controlled storage. Storage began Apr. 26, 1952. (See sta 03508000)

03515152 CHEOAH LAKE.--Lat 35°26'54", long 83°56'11", Graham County, on Little Tennessee River at Cheoah, and at mile 51.4 (82.7 km). Drainage area, 1,608 mi^2 (4,165 km^2). Total capacity is 17,700 ft^3/s-day (43.31 hm^3), of which 3,700 ft^3/s-day (9.054 hm^3) is controlled storage. Storage began Dec. 8, 1918.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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	2,247.4	11,050	-	2,871.81	55,600	-	3,090.24	28,700	-	1,649.70	454,100	-
Oct. 31	2,230.0	8,420	-2,630	2,861.82	48,900	-6,700	3,084.60	25,000	-3,700	1,625.70	374,000	-80,100
Nov. 30	2,238.0	9,610	+1,190	2,854.64	44,400	-4,500	3,079.28	21,800	-3,200	1,605.82	314,700	-59,300
Dec. 31	2,218.9	6,920	-2,690	2,858.94	47,100	+2,700	3,078.76	21,500	-300	1,614.20	338,600	+23,900
CAL YR 1974	-	-	-5,920	-	-	-15,600	-	-	-5,900	-	-	-75,700
Jan. 31	2,229.0	8,280	+1,360	2,877.46	59,600	+12,500	3,084.34	24,900	+3,400	1,636.58	410,000	+71,400
Feb. 28	2,253.4	12,000	+3,720	2,889.84	69,000	+9,400	3,091.54	29,600	+4,700	1,647.20	444,700	+34,700
Mar. 31	2,258.6	12,800	+800	2,889.59	68,900	-100	3,098.81	34,700	+5,100	1,692.55	638,400	+193,700
Apr. 30	2,218.4	6,860	-5,940	2,884.92	65,200	-3,700	3,095.18	32,100	-2,600	1,692.63	638,800	+400
May 31	2,232.7	8,810	+1,950	2,879.40	61,100	-4,100	3,092.89	30,500	-1,600	1,692.98	640,500	+1,700
June 30	2,253.0	11,900	+3,090	2,873.43	56,700	-4,400	3,089.98	28,500	-2,000	1,683.00	593,400	-47,100
July 31	2,232.9	8,840	-3,060	2,865.90	51,600	-5,100	3,086.00	25,900	-2,600	1,657.20	484,200	-109,200
Aug. 31	2,234.2	9,030	+190	2,859.46	47,400	-4,200	3,081.98	23,400	-2,500	1,635.87	407,600	-76,600
Sept. 30	2,232.4	8,770	-260	2,856.90	45,800	-1,600	3,085.49	25,600	+2,200	1,630.45	389,700	-17,900
WTR YR 1975	-	-	-2,280	-	-	-9,800	-	-	-3,100	-	-	-64,400

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	1,801.48	58,600	-	1,916.66	86,300	-	1,493.46	131,700	-	1,276.17	26,900	-
Oct. 31	1,794.67	51,000	-7,600	1,913.44	77,900	-8,400	1,478.40	103,600	-28,100	1,275.45	26,500	-400
Nov. 30	1,793.26	49,500	-1,500	1,908.80	67,200	-10,700	1,473.61	95,500	-8,100	1,276.78	27,300	+800
Dec. 31	1,794.41	50,700	+1,200	1,910.89	71,800	+4,600	1,470.49	90,500	-5,000	1,275.50	26,600	-700
CAL YR 1974	-	-	-23,300	-	-	-12,300	-	-	-20,400	-	-	-100
Jan. 31	1,810.10	69,300	+18,600	1,914.82	81,500	+9,700	1,477.62	102,200	+11,700	1,277.50	27,700	+1,100
Feb. 28	1,816.96	78,800	+9,500	1,915.09	82,200	+700	1,483.00	111,600	+9,400	1,275.37	26,500	-1,200
Mar. 31	1,816.89	78,700	-100	1,923.14	104,800	+22,600	1,515.80	186,100	+74,500	1,277.50	27,700	+1,200
Apr. 30	1,814.01	74,700	-4,000	1,925.36	112,100	+7,300	1,515.17	184,400	-1,700	1,276.68	27,200	-500
May 31	1,807.21	65,600	-9,100	1,925.17	111,500	-600	1,515.70	185,800	+1,400	1,276.18	27,000	-200
June 30	1,802.18	59,500	-6,100	1,921.84	100,800	-10,700	1,511.99	176,000	-9,800	1,276.95	27,400	+400
July 31	1,796.93	53,500	-6,000	1,918.40	90,900	-9,900	1,501.42	149,500	-26,500	1,276.59	27,100	-300
Aug. 31	1,794.03	50,300	-3,200	1,914.23	80,000	-10,900	1,492.14	128,900	-20,600	1,277.07	27,400	+300
Sept. 30	1,792.84	49,100	-1,200	1,912.17	74,800	-5,200	1,483.56	112,600	-16,300	1,277.60	27,800	+400
WTR YR 1975	-	-	-9,500	-	-	-11,500	-	-	-19,100	-	-	+900

As the number of stream on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to these events. Those measurements and other collected for some special reasons are called measurements at miscellaneous sites.

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. 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 1975, in South Atlantic slope basins

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
Roanoke River basin							
02075230	South Country Line Creek near Hightowers, N. C.	Lat 36°19'29", long 79°18'20", Caswell County, at bridge on Secondary Road 1759, 1.8 miles upstream from Penson Creek, and 3.5 miles west of Hightowers.	a7.1	1954-75	7-15-75	21.42	3,600
Pamlico River basin							
02081710	Long Creek at Kittrell, N. C.	Lat 36°13'20", 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	1954-75	5-20-69	13.76	f154
					10- 3-69	15.64	f249
					2- 8-71	14.84	f199
					10-23-71	14.92	f201
					6-29-73	19.71	f1,180
					9- 7-74	14.62	f188
					7-13-75	17.61	520
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	1953-75	3-14-75	22.01	†
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	1954-75	7-30-66	16.30	f480
					1-14-68	15.98	f386
					8- 5-69	17.09	f840
					2-17-70	16.43	f530
					5-31-71	17.14	f860
					10-23-71	20.11	f2,500
					2- 2-73	21.04	f3,300
					8- 7-74	17.39	f980
					7-16-75	21.35	3,500
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 mile west of Everetts, and 4.8 miles upstream from mouth.	a29	1953-75	1-13-75	19.79	440
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	1954-75	9- 6-74	21.35	f128
					3-14-75	21.16	113
					7-16-75	21.16	113
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	1953-75	9-27-75	18.39	†
Cape Fear River basin							
02097010	Robeson Creek near Pittsboro, N. C.	Lat 35°43'29", long 79°12'33", Chatham County, at culvert 500 ft upstream from culvert on U.S. Highway 64, and 1.8 miles west of Pittsboro.	a1.1	1954-75	7-16-75	25.88	780
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	1953-75	1-21-75	19.09	†

See footnotes at end of table.

Annual maximum discharge at crest-stage partial-record stations during water year 1975, in South Atlantic slope basins--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (cfs)
		Pee Dee River basin					
02112247	Elkin River at Elkin, N. C.	Lat 36°15'12", long 80°51'46", Surry County, at bridge on State Highway 268, 1 mile upstream from mouth, and 1 mile west of Elkin.	35.4	1971-75	9-20-71 6-21-72 2- 2-73 4- 4-74 3-14-75	15.03 11.62 8.32 9.46 10.85	f6,900 f4,300 f2,400 f3,000 3,700
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	1965-75	7-24-75	18.95	1,850
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	1954-75	3-14-75	18.73	315
		Santee River basin					
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	1967-75	3-14-75	22.69	690
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	1967-75	3-14-75	20.35	820
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 downstream from Shoal Rock Creek, 500 ft downstream from bridge on Secondary Road 1809, and 2.5 miles southeast of Lawndale.	198	‡1940-71, 1972-75	3-14-75	14.25	7,970

† Not determined
‡ Operated as a continuous record gaging station.
a Approximately.
f Not previously published.

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table. Those that are measurements of base flow are designated by an asterisk (*).

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Chowan River basin						
Cypress Creek 0205304920	Meherrin River	Lat 36°31'01", long 77°27'02", Northampton County, at bridge on Secondary Road 1324, 1.2 miles upstream from Ivy Creek, and 2 miles north of Seaboard.	a7.6		4- 2-75 7-11-75	14.4 1.07
Meherrin River 02053056	Chowan River	Lat 36°32'40", long 77°18'00", Northampton County, at North Carolina-Virginia State line, downstream from Seaboard Coast Line Railroad, and 2.7 miles northeast of Margaretsville.	a1,070	1974	10-31-74 4- 2-75	254 2,370
Kirby's Creek tributary 0205309050	Kirby's Creek	Lat 36°30'57", long 77°11'19", Northampton County, at culvert on Secondary Road 1334, 0.1 mile north-northwest of Severn, and 0.3 mile upstream from mouth.	a.4	1974	7-11-75	.35
Roanoke River basin						
Dan River 02069000	Roanoke River	Lat 36°19'08", long 80°03'00", Stokes County, at bridge on Secondary Road 2023, at Pine Hall, 1.5 miles upstream from Belews Creek.	481	‡1923-26	7-30-75	423
Dan River 02074218	Roanoke River	Lat 36°32'29", long 79°36'21", Rockingham County, at bridge on Secondary Road 1761, at North Carolina-Virginia-State line, 2.2 miles upstream from Whiteoak Creek, and 3 miles northwest of Mayfield.	a1,780	1969-72, 1974	2-11-75 5- 7-75 6-11-75 8-21-75	2,640 2,700 2,050 1,330
Wolf Island Creek 02074360	Dan River	Lat 36°31'54", long 79°30'07", Caswell County, at bridge on State Highway 700, 0.5 mile upstream from mouth, and 2.5 miles northwest of Pelham.	a69	1954, 1956-64, 1966, 1968, 1970, 1974	10-21-74	22.3
Country Line Creek 0207520780	Dan River	Lat 36°18'46", long 79°30'48", Caswell County, at bridge on Secondary Road 1146, 1.2 miles south-southwest of Ashland.	a6.7	1974	10-21-74 2-20-75	2.47 5.93
Country Line Creek 0207527050	Dan River	Lat 36°32'16", long 79°12'04", Caswell County, at bridge on State Highway 57, 0.4 mile east-southeast of Milton, and 0.8 mile upstream from mouth.	a130	1974	10-21-74 2-20-75	35.0 108
Hyco Creek 0207718130	Hyco River	Lat 36°17'24", long 79°15'43", Caswell County, at bridge on Secondary Road 1767, 2.8 miles northeast of Baynes, and 3.2 miles upstream from confluence of Lynch Creek.	a5.1	1974	10-21-74 2-20-75 7- 8-75 7-30-75	.94 5.27 .83 1.61
Grassy Creek 0207920210	Roanoke River	Lat 36°32'02", long 78°35'53", Granville County, at bridge on Secondary Road 1443, 0.5 mile upstream from Johnson Creek, and 4.2 miles northwest of Bullock.	a100	1974	7- 3-75	.05
Island Creek 0207920940	Roanoke River	Lat 36°26'10", long 78°32'37", Granville County, at bridge on Secondary Road 1430, 0.3 mile downstream from Howlett Creek, and 1.7 miles southeast of Stovall.	a13	1974	11- 4-74 2-11-75 7- 3-75 7-28-75	1.21 10.8 .64 5.03
Island Creek 0207923905	Roanoke River	Lat 36°32'01", long 78°27'34", Vance County, at bridge on Secondary Road 1350, 3.2 miles upstream from mouth, and 3.4 miles northwest of Townsville.	a61	1974	11- 6-74	7.17
Nutbrush Creek 02079259	Roanoke River	Lat 36°20'26", long 78°25'12", Vance County, at bridge on Secondary Road 1310, 1.4 miles northwest of Henderson, and 4.4 miles upstream from Crooked Run Creek.	a2.0	1970, 1974	11- 6-74	.48
Smith Creek 0207966152	Roanoke River	Lat 36°27'12", long 78°15'51", Warren County, at culvert on Secondary Road 1224, 2 miles northwest of Ridgeway, and 4.2 miles upstream from Ellington Branch.	a5.7	1974	11- 6-74	1.33
Quankey Creek 02080742	Roanoke River	Lat 36°19'05", long 77°35'09", Halifax County, at bridge on State Highway 125, 0.7 mile southwest of Halifax, and 1.1 miles upstream from mouth.	a33	1954, 1961-62, 1969-70, 1974	10-31-74	5.67
Cashie River 02081096	Roanoke River	Lat 36°08'43", long 77°09'54", Bertie County, at bridge on State Highway 11, 1.5 miles northeast of Lewiston, and 2.5 miles upstream from Wahtom Swamp.	a20	1961, 1974	4- 1-75	29.1

a Approximately.
‡ Operated as a continuous-record gaging station.

Discharge measurements made at miscellaenous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Pamlico River basin						
Ruin Creek 0208167433	Tabbs Creek	Lat 36°20'03", long 78°27'50", Vance County, at U.S. Highway 158 Bypass, 1.1 miles upstream from confluence of Red Bud Creek, and 3.6 miles west of Henderson.	a3.2	1974	11- 4-74 7- 3-75 7-28-75	0.41 .10 .64
Red Bud Creek 02081677	Ruin Creek	Lat 35°18'08", long 78°27'15", Vance County, at bridge on Secondary Road 1120, 0.3 mile upstream from mouth, and 3.1 miles southwest of Henderson.	5.7	1970, 1973-74	11- 4-74 7- 3-75 7-28-75	2.35 .78 2.72
Beech Branch 0208261330	Tar River	Lat 36°01'52", long 77°46'01", Nash County, at U.S. Highway 301, 1.5 miles southwest of Battleboro, and 6.6 miles upstream from mouth.	a5.4	1973-74	10-24-74 4- 2-75 7-10-75	.32 .01 2.62
White Oak Swamp 02082804	Swift Creek	Lat 36°05'41", long 77°40'33", Edgecombe County, at bridge on Secondary Road 1409, 2.3 miles southeast of Whitakers, and 9 miles upstream from mouth.	3.61	1970, 1973-74	10-24-74	.52
Fishing Creek 02082824	Phoebes Creek	Lat 36°23'06", long 78°19'05", Vance County, at Secondary Road 1501, 1.1 miles south-southwest of Middleburg, and 5.7 miles from mouth.	a3.3	1974	11- 6-74	1.8
Butterwood Creek 02082934	Bear Swamp	Lat 36°25'54", long 77°53'28", Halifax County, 1 mile south of Littleton, and 7.6 miles upstream from mouth.	a.5	1970, 1973-74	11- 6-74	.37
Burnt Coat Swamp 02083168	Beech Swamp	Lat 36°11'43", long 77°40'32", Halifax County, at bridge on Secondary Road 1001, 1.2 miles north of Enfield, and 2 miles upstream from mouth.	a35	1958-59, 1962, 1970, 1973-74	11- 5-74	0
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, 1973	7-10-75	2.58
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, 1973-74	11- 6-74 4- 1-75	.06 1.88
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, 1969-70, 1972-74	4- 1-75	10.3
Neuse River basin						
Eno River 02084916	Neuse River	Lat 36°04'13", long 79°07'47", Orange County, at bridge on Secondary Road 1134, 0.2 mile downstream from Sevenmile Creek, and 2 miles southwest of Hillsborough.	a61	1954-55, 1968, 1974	10-21-74	14.6
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 Seven Mile Creek.	a120	1973	10-21-74 2-12-75	27.5 153
Eno River 02085039	Neuse River	Lat 36°03'22", long 78°58'43", Durham County, at bridge on Secondary Road 1401, 1.2 miles downstream from Rhodes Creek, and 1.5 miles northwest of Huckleberry Spring.	a120	1973-74	10-23-74	28.0
Eno River 02085049	Neuse River	Lat 36°04'18", long 78°56'06", Durham County, at bridge on Secondary Road 1003, 1.5 miles upstream from Crooked Creek, and 5.5 miles northwest of Durham.	a130	1973-74	10-22-74	31.1
South Flat River 02085302	Neuse River	Lat 36°17'40", long 79°03'54", Person County, at bridge on Secondary Road 1112, 1.3 miles upstream from confluence of Bushy Fork Creek, and 1.8 miles northwest of Hurdle Mills.	6.2	1974	10-22-74 2-20-75	.59 5.44

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Neuse River basin--Continued				
South Flat River 02085320	Neuse River	Lat 36°15'43", long 79°00'45", Person County, at bridge on Secondary Road 1120, 0.2 mile upstream from confluence of Lick Creek, and 2.2 miles southeast of Hurdle Mills.	10	1974	10-22-74	4.2
North Flat River tributary 0208535888	Neuse River	Lat 36°22'30", long 78°59'10", Person County, at culvert on Secondary Road 1195, 1.3 miles south of Roxboro, and 2.4 miles upstream from mouth.	a.2	1974	10-22-74 2-20-75 7- 2-75 7-29-75	.09 .64 .06 .21
North Fork River tributary 0208535895	Neuse River	Lat 36°22'30", long 78°59'40", Person County, at culvert on Secondary Road 1148, 2 miles south of Roxboro, and 1.9 miles upstream from mouth.	a1	1974	10-22-74	.21
Deep Creek 02085422	Flat River	Lat 36°16'18", long 78°52'57", Person County, at bridge on Secondary Road 1715, 0.3 mile downstream from Rock Fork Branch, and 4 miles southeast of Timberlake.	27.5	1974	10-22-74	2.99
Neuse River tributary 02086935	Neuse River	Lat 36°15'00", long 78°46'00", Granville County, at culvert on Secondary Road 1101, 1.3 miles upstream from mouth, and 2.4 miles south of Butner.	a5.2	1974	2-11-75	2.70
Ledge Creek 02087021	Neuse River	Lat 36°07'45", long 76°42'20", Granville County, at Secondary Road 1111 at reservoir, 1.2 miles northwest of Creedmoor, and 8 miles upstream from mouth.	17.5	1974	7- 3-75 7-28-75	.008 4.49
Hattells Branch 0208718330	Richlands Creek	Lat 36°01'15", long 78°28'26", Franklin County, at culvert on State Highway 96, 0.4 mile southeast of Youngsville, and 2.2 miles upstream from mouth.	a.1	1972-74	11- 6-74 4- 3-75	.06 .57
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	1972-73	10-16-74	105
Smith Creek 02087193	Neuse River	Lat 35°58'09", long 78°29'20", Wake County, at bridge on State Highway 98, 0.5 mile upstream from Austin Creek, and 1.5 miles east of Wake Forest.	a3.0	1959, 1968, 1974	10-15-74 2-18-75 2-21-75 4- 2-75	.42 5.15 3.13 .32
Mango Creek 0208723010	Neuse River	Lat 35°46'37", long 78°31'32", Wake County, at Secondary Road 2516, 0.9 mile upstream from mouth, and 3.5 miles west-southwest of Knightdale.	a3.6	1973-74	10-15-74 2-18-75 2-21-75 4- 2-75	1.2 9.86 5.72 5.84
Coles Branch 0208723397	Crabtree Creek	Lat 35°47'30", long 78°47'37", Wake County, at water treatment plant, and 0.7 mile northwest of Cary, and 2.4 miles upstream from mouth.	a.1	1973-74	2-19-75 2-24-75 4- 1-75	.16 .01 .17
Coles Branch 0208723425	Crabtree Creek	Lat 35°43'30", long 78°47'40", Wake County, 1.7 miles upstream from mouth, and 0.9 mile west of Cary.	a1.2	1974	10-17-74 2-19-75 2-24-75 4- 1-75	.23 1.02 .50 .92
Licks Creek 0208723750	Crabtree Creek	Lat 35°50'45", long 78°49'49", Wake County, at bridge on Secondary Road 1640, 1.5 miles upstream from mouth at Crabtree Creek, and 1.6 miles north of Morrisville.	a.3	1972-74	4- 1-75 7-31-75	.87 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	1973-74	4- 1-75	2.80
Little Brier Creek tributary 0208724350	Little Brier Creek	Lat 35°54'35", long 78°46'45", Wake County, at culvert on U.S. Highway 70, 1.2 miles upstream from mouth, and 2.9 miles west of Leesville.	a1.8	1974	2-19-75 2-24-75 4- 1-75	2.07 .89 1.10

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Neuse River basin--Continued						
Little Brier Creek tributary 0208724375	Little Brier Creek	Lat 35°54'00", long 78°47'15", Wake County, at bridge on Secondary Road 1645, 0.4 mile upstream from mouth, and 3.5 miles west of Leesville.	a2.2	1974	10-17-74 2-19-75 2-24-75 4- 1-75	0 6.29 1.51 2.48
Sycamore Creek 02087256	Crabtree Creek	Lat 35°54'03", long 78°45'56", Wake County, at culvert on U.S. Highway 70, 1.7 miles south of Lynn Crossroads, and 2.6 miles upstream from Pots Branch.	2.45	1968, 1974	10-17-74 2-19-75 2-24-75 4- 1-75	.15 3.88 2.92 3.80
Sycamore Creek tributary 0208725625	Sycamore Creek	Lat 35°54'10", long 78°44'50", Wake County, at culvert on Secondary Road 1837, 1.3 miles upstream from mouth, and 1.3 miles west of Leesville.	a1.2	1974	10-17-74	.15
Sycamore Creek tributary 0208725650	Sycamore Creek	Lat 35°53'50", long 78°46'00", Wake County, at culvert on U.S. Highway 70, 0.4 mile upstream from mouth, and 2 miles west-northwest of Leesville.	a1.7	1974	10-17-74	.32
Hare Snipe Creek 0208726825	Crabtree Creek	Lat 35°53'28", long 78°42'04", Wake County, at culvert on private road, 1.8 miles southeast of Leesville, and 3.2 miles upstream from mouth.	a1.3	1974	10-18-74	.25
Hare Snipe Creek 0208726850	Crabtree Creek	Lat 35°52'45", long 78°41'55", Wake County, 2.3 miles upstream from mouth, and 2.5 miles southeast of Leesville.	a3.8	1974	10-18-74 2-18-75 2-21-75 4- 1-75	.06 .14 .10 .13
Hare Snipe Creek 0208726875	Crabtree Creek	Lat 35°51'15", long 78°41'55", Wake County, at dam on Lake Lynn, 2 miles upstream from mouth, and 3.2 miles southwest of Six Forks.	a4.0	1974	10-17-74 4- 1-75 7- 7-75 7-30-75	.77 6.05 1.21 .93
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	1973	10-18-74 4- 2-74 7- 7-75 7-31-75	23 145 42.8 25
Marsh Creek tributary No. 2 0208732880	Marsh Creek	Lat 35°49'23", long 78°35'09", Wake County, at culvert on Secondary Road 2245, 0.6 mile upstream from mouth, and 2 miles northwest of Wilders Grove.	a.6	1972	10-18-74 2-18-75 2-21-75 2-24-75 4- 2-75	.22 .95 .68 2.12 .74
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 in Raleigh.	30	1973-74	10-16-74 2-18-75 4- 2-75	20.8 58.9 17.1
Big Branch 02087367	Neuse River	Lat 35°42'37", long 78°33'52", Wake County, at culvert on Secondary Road 2548, 1.5 miles northwest of Auburn, and 2.7 miles upstream from mouth.	2.12	1974	10-16-74	.60
Big Branch tributary 02087368	Big Branch	Lat 35°43'28", long 78°34'23", Wake County, at bridge on Secondary Road 2548, 1.9 miles northeast of Garner, and 4.5 miles upstream from mouth.	a1.3	1945, 1955, 1974	10-16-74	.85
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	1972-74	10-15-74	3.10
Middle Creek 02087885	Swift Creek	Lat 35°42'54", long 78°50'27", Wake County, at Durham and Southern Railroad, 1.4 miles southeast of Apex, 5.1 miles upstream from Basal Creek, and 10.8 miles upstream from mouth.	.6	1973-74	10-17-74 2-19-75 2-24-75 4- 1-75	.06 1.10 .66 1.17
Middle Creek 02087910	Swift Creek	Lat 35°39'28", long 78°48'06", Wake County, at Secondary Road 1152, 1.8 miles west-northwest of Holly Springs, and 7 miles upstream from mouth.	a7.6	1973-74	10-17-74	3.9
Terrible Creek 0208796545	Middle Creek	Lat 35°36'40", long 78°45'15", Wake County, at Secondary Road 1404, 1.9 miles northwest of Willow Springs, and 3.4 miles upstream from mouth.	a4.7	1973-74	10-17-74 2-19-75 2-24-75 4- 2-75	1.70 23.8 9.36 9.38

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Neuse River basin--Continued						
Black Creek 02088090	Neuse River	Lat 35°28'10", long 78°27'20", Johnston County, at bridge on Secondary Road 1162, 2.2 miles north-west of Four Oaks, and 5 miles upstream from mouth.	a79	1949-55 1958-59, 1974	4- 4-75	231
Mill Creek 0208813560	Neuse River	Lat 35°37'13", long 78°25'55", Johnston County, at bridge on Secondary Road 1124, 1.4 miles downstream from Jumping Run, and 2.2 miles southeast of Parkers Mill.	a21	1974	10-15-74 2-11-75 2-19-75 4- 4-75	13.4 43.4 150 49.0
Hannah Creek 02088217	Mill Creek	Lat 35°23'50", long 78°30'00", Johnston County, at bridge on Secondary Road 1171, 1.5 miles upstream from Stony Fork, and 1.5 miles south of Alaska.	a11	1973-74	2-11-75 2-19-75 4- 4-75	35.6 114 31.9
Little River 0208837825	Neuse River	Lat 35°57'08", long 78°24'28", Franklin County, at bridge on U.S. Highway 401, 2.1 miles south-west of Harris Crossroads, and 3.2 miles up stream from Cedar Fork.	a7.9	1974	11-6-74	2.56
Little River 02088383	Neuse River	Lat 35°49'18", long 78°21'09", Wake County, at bridge on U.S. Bypass 64, 0.5 mile downstream from Fall Branch, and 2 miles west of Zebulon.	a56	1974	10-16-74	15.6
Little Creek 0208995250	Moccasin Creek	Lat 35°49'00", long 78°18'07", Wake County, at culvert on State Highway 97, 3.1 miles upstream from Moccasin Creek, and 0.2 mile west of Zebulon.	a1	1972, 1974	10-16-74	2.1
Little Creek 02090000	Moccasin Creek	Lat 35°48'45", long 78°16'07", Wake County, at bridge on State Highway 39, 0.8 mile upstream from mouth, and 2.8 miles southeast of Zebulon.	5.47	1924-56, 1972, 1974	10-16-74 2-18-75 4- 2-75	5.0 15.3 6.26
Cattail Branch 0209022250	Beaverdam Creek	Lat 35°47'07", long 78°12'28", Nash County, at bridge on Secondary Road 1119, at Middlesex, and 3.9 miles upstream from mouth.	a.3	1972-74	2-14-75 4- 3-75	.17 1.02
Contentnea Creek 0209036050	Neuse River	Lat 35°41'55", long 78°08'07", Wilson County, at bridge on Secondary Road 1126, 1.2 miles east-southeast of Wilkerson Crossroads, and 2.4 miles upstream from Buckhorn Creek.	a140	1974	2-14-75 4- 2-75	201 247
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	1972-74	7-17-75	*.06
Langs Mill Run 02091618	Black Swamp	Lat 35°40'18", long 77°38'50", Pitt County, at bridge on State Highway 222, 0.5 mile west of Fountain, and 5 miles upstream from mouth.	a3.1	1974	3-31-75 7- 8-75	1.98 3.04
Langs Mill Run 02091619	Black Swamp	Lat 35°39'50", long 77°38'00", Pitt County, on State Highway 258, 0.8 mile southeast of Fountain, and 4.5 miles upstream from mouth.	a4.6	1974	3-31-75 7- 8-75	4.42 5.85
Swift Creek 0209184590	Neuse River	Lat 35°32'16", long 77°25'07", Pitt County, at bridge on Secondary Road 1126, 0.3 mile down-stream from Gum Swamp, and 1.1 miles northwest of Winterville.	a7.6	1974	3-31-75 7-31-75	5.74 .25
Swift Creek 02091849	Neuse River	Lat 35°31'40", long 77°25'30", Pitt County, at bridge on Secondary Road 1125, 1.2 miles down-stream from Gum Swamp, and 1.2 miles west of Winterville.	a9.5	1956, 1973-74	3-31-75 7- 9-75	7.54 .36
Swift Creek 02091859	Neuse River	Lat 35°28'10", long 77°24'00", Pitt County, at bridge on State Highway 102, 1 mile east of Ayden, and 4.2 miles upstream from Fork Swamp.	a25	1956-57, 1974	3-31-75 7- 8-75 7-30-75	16.2 1.15 4.52
Fork Swamp 0209187450	Swift Creek	Lat 35°28'11", long 77°21'23", Pitt County, at State Highway 102, 2.7 miles upstream from mouth, and 3.4 miles east of Ayden.	a21	1973-74	3-31-75 7- 8-75	11.9 1.46
Swift Creek 02091910	Neuse River	Lat 35°24'07", long 77°19'54", Pitt County, at bridge on Secondary Road 1753, 0.5 mile south of Coxville, and 2.7 miles downstream from Fork Swamp.	78	1956-57, 1960-69, 1974	4- 1-75 7- 8-75 7-30-75	47.2 8.26 7.29

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Neuse River basin--Continued						
Trent River 0209218190	Neuse River	Lat 35°06'23", long 77°43'15", Lenoir County, at bridge on State Highway 11, 2.5 miles south-southwest of Deep Run, and 5.9 miles upstream from mouth.	a3.2	1974	2-11-75 4- 1-75 7-11-75	2.70 15.2 .78
Trent River 02092554	Neuse River	Lat 35°00'38", long 77°13'10", Jones County, at bridge on U.S. Highway 17, and 0.2 mile northeast of Pollocksville.	a370		8-27-74	f1,360
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		4-22-74 7- 9-75 7-30-75	f1.83 .67 3.22
White Oak River basin						
Newport River tributary 02092705	Newport River	Lat 34°44'34", long 76°48'33", Carteret County, at Atlantic and East Carolina Railroad, 1 mile southeast of Wildwood, and 1.3 miles upstream from mouth at Newport River.	a.4	1974	7- 9-75 7-29-75	.51 0
Queen Creek basin						
Bell Swamp 02092780	Queen Creek	Lat 34°42'04", long 77°14'01", Onslow County, at culvert on State Highway 172, 1.1 mile southeast of Hubert, and 2 miles upstream from mouth.	a5.0	1953-69, 1971, 1974	2-20-75	45
New River basin						
Quarrleys Branch 02092815	New River	Lat 34°54'54", long 77°45'57", Onslow County, at culvert on State Highway 24, 0.6 mile upstream from mouth, and 3.1 miles west of Richlands.	a1.4	1971-72	2-20-75 7-11-75 7-29-75	3.94 .04 .21
Mill Swamp 02092864	New River	Lat 34°54'24", long 77°32'25", Onslow County, at bridge on Secondary Road 1003, 0.6 mile northeast of Richlands, and 2.6 miles upstream from mouth.	a20	1971-72, 1974	7-11-75 7-29-75	1.62 6.07
Mill Swamp 02092865	New River	Lat 34°54'24", long 77°32'25", Onslow County, at bridge on Secondary Road 1307, 0.8 mile northeast of Richlands, and 1.6 miles upstream from mouth.	a20	1971-72 1974	2-20-75 7-11-75	147 2.17
New River tributary 0209303255	New River	Lat 34°44'52", long 77°26'35", Onslow County, at culvert on Secondary Road 1562, 0.4 mile upstream from mouth, and 0.8 mile west of Jacksonville.	a.33	1971-72	2-20-75 7- 9-75	.30 .007
Wolf Swamp 02093168	Northeast Creek	Lat 34°47'48", long 77°22'00", Onslow County, at bridge on U.S. Highway 17, 0.8 mile upstream from mouth, and 0.8 mile southwest of Kellum.	3.4	1971, 1974	2-20-75	34.4
Wallace Creek 02093188	New River	Lat 34°42'26", long 77°16'27", Onslow County, at culvert on State Highway 24, 0.2 mile east of Kellumtown, 7.4 miles upstream from mouth.	a6.2	1971, 1974	2-20-75 7- 9-75 7-29-75	12.4 .12 .39
Cape Fear River basin						
Haw River 02093248	Cape Fear River	Lat 36°11'52", long 79°59'08", Guilford County, at bridge on State Highway 68, 1.6 miles north of Oak Ridge, and 1.8 miles upstream from Rocky Branch.	7.9	1962, 1966, 1971, 1973-74	2-19-75 4- 4-75	8.83 12.7
Little Troublesome Creek 0209340340	Haw River	Lat 36°17'53", long 79°38'29", Rockingham County, at bridge on U.S. Highway 29 Bypass, 2.7 miles upstream from mouth, and 2.8 miles northwest of Williamsburg.	a9.2	1974	2-19-75	12.0
Brush Creek 02093876	Reedy Fork	Lat 36°07'15", long 79°59'40", Guilford County, at bridge on Secondary Road 2137, 2.2 miles northeast of Friendship, and 4.7 miles upstream from mouth.	15.2	1974	10-23-74 2-18-75 4- 2-75	1.9 5.38 7.33

a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Cape Fear River basin--Continued						
Brush Creek 02093878	Reedy Fork	Lat 36°08'27", long 79°54'46", Guilford County, at bridge on Secondary Road 2136, 3 miles upstream from mouth, and 5 miles southeast of Oak Ridge.	a8.5	1974	10-23-74 2-18-75 4- 2-75	3.25 7.38 9.81
Horsepen Creek 0209391880	Reedy Fork	Lat 36°07'02", long 79°53'31", Guilford County, at bridge on Secondary Road 2136, 2 miles west-northwest of Guilford College, and 4.7 miles upstream from mouth.	a7.5	1974	10-23-74 2-18-75 4- 2-75	2.8 6.85 7.88
Horsepen Creek 02093992	Reedy Fork	Lat 36°08'12", long 79°51'40", Guilford County, at bridge on U.S. Highway 220, 2.9 miles upstream from Lake Brandt Dam, and 6.3 miles northwest of Greensboro.	15.9	1926-60, 1962, 1974	10-23-74 2-18-75 4- 2-75	5.34 18.8 20.3
South Buffalo Creek tributary 0209478755	South Buffalo Creek	Lat 36°00'58", long 79°47'22", Guilford County, at bridge on Secondary Road 3303, 1.1 miles upstream from mouth, and 3.9 miles south of Greensboro.	a2.5	1974	10-24-74 2-14-75 4- 3-75	.34 1.72 3.34
North Buffalo Creek 02095273	Buffalo Creek	Lat 36°06'05", long 79°46'24", Guilford County, at bridge on Yanceyville Street, 1.9 miles upstream from confluence of Muddy Creek, and 2.2 miles north-northeast of Greensboro.	a16	1974	10-24-74 2-19-75 4- 2-75	4.53 24.7 11.9
North Buffalo Creek tributary 02095475	North Buffalo Creek	Lat 37°08'30", long 79°43'40", Guilford County, at culvert on Secondary Road 2835, 0.9 mile upstream from mouth, and 5.7 miles northeast of Greensboro.	a1.1	1974	10-24-74 2-19-75 4- 2-75	.24 1.24 1.28
Travis Creek tributary 02095752	Travis Creek	Lat 36°07'13", long 79°32'27", Guilford County, at bridge on Secondary Road 2744, 0.8 mile north of Gibsonville, and 4 miles upstream from mouth.	a1.4	1970, 1973-74	10-24-74 2-13-75 4- 3-75 7-31-75	.22 1.08 1.55 .32
Travis Creek 0209581050	Haw River	Lat 36°07'44", long 79°31'42", Alamance County, at Secondary Road 1500, 0.4 mile downstream from Travis Creek tributary, and 1.7 miles northeast of Gibsonville.	a4.3	1973-74	10-17-74 2-13-75 4- 4-75 7- 8-75 7-29-75	.41 1.07 1.98 .92 .86
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.	a4.1	1969-70, 1973	10-17-74 2-12-75 4- 8-75 7- 8-75 7-29-75	3.42 8.26 3.91 4.41 3.95
Moadams Creek 02096553	Back Creek	Lat 36°05'45", long 79°17'09", Alamance County, upstream from sewage effluent outfall, 1 mile southeast of Mebane, and 3.2 miles upstream from mouth.	a1.1	1954-55, 1966, 1970, 1973-74	2-12-75 4- 8-75	1.14 .54
Haw River 02096587	Cape Fear River	Lat 36°01'12", long 79°12'56", Alamance County, at bridge on Secondary Road 2158, 0.3 mile northwest of Swepsonville, and 0.5 mile upstream from Alamance Creek.	697	1969, 1971	2-12-75 4- 7-75	1,150 685
Little Alamance Creek 0209660225	Big Alamance Creek	Lat 36°00'40", long 79°45'05", Guilford County, on Secondary Road 3317, 2.9 miles upstream from mouth, and 3.1 miles north of Pleasant Garden.	a4.0	1974	10-24-74 2-13-75 4- 3-75	.76 4.47 7.19
Little Alamance Creek 02096610	Big Alamance Creek	Lat 36°03'15", long 79°38'14", Guilford County, at bridge on Secondary Road 3124, 2.5 miles upstream from Rock Creek, and 4.5 miles west of Whitsett.	a38	1950-59, 1962, 1966, 1974	10-24-74 2-13-75 4- 3-75	8.0 39.8 57.5
Big Alamance Creek 02096650	Haw River	Lat 36°03'19", long 79°36'08", Guilford County, at bridge on Secondary Road 3356, 0.7 mile upstream from Rock Creek, and 1.3 miles southeast of Sedalia.	a42	1974	10-24-74 2-18-75 4- 3-75	8.7 45.2 65.0
Big Alamance Creek 02096719	Haw River	Lat 36°02'10", long 79°29'19", Alamance County, at water intake, 0.1 mile west of Alamance, and 0.4 mile upstream from State Highway 62.	a140		10-17-74 2-13-75 4- 4-75	21.6 158 163
Big Alamance Creek 02096788	Haw River	Lat 36°01'01", long 79°24'50", Alamance County, at bridge on Secondary Road 2309, 0.5 mile downstream from Stinking Quarter Creek, and 1.8 miles east of Bellemont.	247	1974	10-16-74 2-12-75 4- 7-75	38.5 304 207

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Cape Fear River basin--Continued						
Little Alamance Creek 02096804	Big Alamance Creek	Lat 36°01'36", long 79°24'20", Alamance County, at bridge 1 mile upstream from mouth, and 2 miles east of Bellemont.	14.7	1970	4- 7-75	7.41
Cane Creek 02096850	Haw River	Lat 35°56'34", long 79°14'46", Orange County, at bridge on State Highway 54, 1.5 miles southwest of Teer, and 2.5 miles upstream from mouth.	31.3	‡1959-74	10-17-74 2-13-75	6.2 34.8
Haw River 02096879	Cape Fear River	Lat 35°53'39", long 79°15'15", Alamance County, at bridge on Secondary Road 1005, 0.7 mile upstream from Cane Creek, and 5.8 miles north of Terrells.	1,090	1974	10-16-74 2-13-75 4- 7-75	221 1,650 985
Cane Creek 02096902	Haw River	Lat 35°52'50", long 79°16'59", Alamance County, at bridge on State Highway 87, 2.8 miles northwest of Mandale, and 3 miles upstream from mouth.	68	1974	10-16-74 2-13-75 4- 7-75	8.21 65.7 68.6
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, 1973	10-21-74 2-12-75 4- 8-75	1.5 17.4 10.2
Old Field Creek 0209720109	New Hope Creek	Lat 35°58'48", long 79°03'59", Orange County, at State Highway 86, 0.9 mile northest of Eubanks, and 1.2 miles upstream from mouth at New Hope Creek.	a2.1	1974	10-21-74 2-12-75 4- 8-75 7- 2-75 7-29-75	.07 2.12 1.49 .23 .53
Little Creek tributary 02097207	Little Creek	Lat 35°59'20", long 78°59'46", Orange County, 0.1 mile south of entrance to Triangle Nursing Home #1 (on Secondary Road 1718), 200 ft upstream from sewage outfall at Triangle Nursing Home #1, and 4.3 miles east of Blackwood.	Indeterminate	1971, 1973-74	10-21-74 2-12-75 7-29-75	0 .02 0
New Hope Creek 02097209	New Hope River	Lat 35°58'30", long 79°00'00", Orange County, downstream from New Hope Creek tributary, 1.2 miles downstream from Little Creek, and 4.1 miles east of Eubanks.	a32	1971, 1973-74	2-12-75	34.4
New Hope Creek tributary 02097233	New Hope Creek	Lat 35°57'16", long 78°58'23", Durham County, at culvert on Secondary Road 1116, 0.4 mile upstream from mouth, and 5 miles southwest of Durham.	a1.8	1970-71 1974	10-23-74 2-12-75	0 1.19
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, 1973-74	10-23-74 2-12-75 4- 9-75	0 .33 .09
Third Fork Creek 02097262	New Hope River	Lat 35°56'47", long 78°55'49", Durham County, at end of Secondary Road 1168, downstream from effluent outfall at Durham's Third Fork Creek waste treatment plant, and upstream from sewage effluent outfall at Durham's Hope Valley waste treatment plant, and 1.5 miles west of Keene.	a10	1970-71 1974	10-24-74 2-12-75	5.1 12.9
Bolin Creek 0209734450	Little Creek	Lat 35°55'15", long 79°03'52", Orange County, 0.1 mile upstream from confluence of Tanbark Branch, 0.7 mile upstream from State Highway 86, and 0.7 mile northwest of Chapel Hill.	a7.9	1974	10-17-74 2-12-75 4- 8-75 7- 2-75 7-29-75	.62 7.85 4.82 1.11 1.62
Bolin Creek 02097345	Little Creek	Lat 35°55'31", long 79°03'13", Orange County, at culvert on State Highway 86, 0.5 mile north of Chapel Hill, and 0.7 mile upstream from mouth.	a8.5	1974	10-17-74 2-12-75	.55 8.07
Bolin Creek 02097374	Little Creek	Lat 35°55'29", long 79°01'34", Orange County, at bridge on U.S. Highway 15, 0.5 mile upstream from Booker Creek, and 1.7 miles northeast of Chapel Hill.	11.6	1932, 1974	10-23-74 2-13-75 4- 8-75	1.15 8.35 6.90
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	1973	10-23-74 2-11-75	.03 .02

a Approximately.
‡ Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Cape Fear River basin--Continued				
Northeast Creek 0209741350	New Hope River	Lat 35°54'35, long 78°53'21", Durham County, at bridge on Secondary Road 1945, 0.4 mile upstream from Fork, and 0.7 mile north of Lowes Grove.	a1.0	1970, 1973-74	10-23-74 2-11-75 4- 9-75 7- 2-75 7-28-75	0 2.69 1.92 .17 .12
Harveys Branch 0209741650	Burdens Creek	Lat 35°54'12", long 78°51'18", Durham County, at culvert on Secondary Road 1121, 1.1 miles upstream from mouth, and 1.4 miles northwest of Nelson.	a.1	1970, 1973-74	10-23-74 2-11-75	.02 .02
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.	Indeterminate	1970, 1973	10-24-74 2-11-75 7-29-75	0 .004 0
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.	a.4	1970, 1973-74	10-23-74	.008
Lake Branch 0209741677	Burdens Creek	Lat 35°53'37", long 78°52'05", Durham County, at culvert on State Highway 54, 0.1 mile upstream from mouth, and 1.3 miles northwest of Nelson.	a1.0	1970, 1973-74	4- 9-75	.24
Northeast Creek tributary 02097421	Northeast Creek	Lat 35°53'00", long 78°54'50", Durham County, upstream from Secondary Road 1102, 0.8 mile upstream from mouth, and 1.9 miles southwest of Lowes Grove.	0.73	1970, 1973-74	10-24-74 2-11-75	0 .12
Morgan Creek 0209746350	New Hope River	Lat 35°57'44", long 79°08'06", Orange County, at culvert on Secondary Road 1112, and 1.7 miles east-southeast of Dodsons Crossroads.	a2.2	1974	10-21-74	.46
Phils Creek 02097476	Morgan Creek	Lat 35°55'47", long 79°09'01", Orange County, at bridge on Secondary Road 1104, 2.5 miles southeast of Calvander, and 4.2 miles upstream from mouth.	a1.1		10-17-74 4- 8-75 7- 2-75 7-29-75	.16 .86 .08 .16
Phils Creek 0209747698	Morgan Creek	Lat 35°54'43", long 79°08'02", Orange County, at bridge on Secondary Road 1945, 1.9 miles upstream from mouth, and 2.6 miles southwest of Calvander.	a5.0	1974	10-17-74 2-13-75 4- 8-75 7- 2-75 7-29-75	.67 4.79 3.64 8.48 1.92
Burdens Creek 0209749692	Northeast Creek	Lat 35°53'24", long 78°52'52", Durham County, at culvert on Secondary Road 2028, 0.1 mile downstream from Two Bottle Branch, and 0.9 mile southeast of Lowes Grove.	a4.2	1970, 1973-74	4- 9-75	.48
Morgan Creek 02097506	New Hope River	Lat 35°53'54", long 79°04'25", Orange County, at bridge on Secondary Road 1919, 1.2 miles south of Carrboro, and 1.7 miles downstream from University Lake.	a32	1970, 1974	2-13-75	25.1
New Hope River 02098156	Haw River	Lat 35°41'40", long 79°02'31", Chatham County, at bridge on Secondary Road 1700, 0.2 mile downstream from Beaver Creek, and 6 miles northwest of New Hill.	340	1974	10-18-74	24.8
West Fork Deep River 0209831460	Deep River	Lat 36°05'01", long 80°02'33", Forsyth County, at culvert on Secondary Road 2602, and 3.1 miles southeast of Kernersville.	a3.7	1974	10-23-74 2-19-75 7-31-75	1.72 2.31 .67
Long Branch 02099007	East Fork Deep River	Lat 36°02'28", long 79°56'16", Guilford County, at bridge on Secondary Road 1541, 1.1 miles upstream from mouth, and 1.7 miles northeast of Deep River.	2.21	1962, 1966, 1974	10-23-74 2-18-75 4- 4-75	.50 1.74 1.53
Deep River 02099324	Cape Fear River	Lat 36°58'22", long 79°55'06", Guilford County, at bridge on U.S. Highways 29 and 70, 0.7 mile downstream from Bull Run, and 1.8 miles southeast of Jamestown.	a75	1971, 1974	10-23-74	8.91
Deep River 02099399	Cape Fear River	Lat 35°57'32", long 79°54'25", Guilford County, at bridge on Secondary Road 1113, 0.7 mile downstream from Copper Branch, and 2.9 miles southeast of Jamestown.	774	1974	10-22-74 2-14-75 4- 3-75 7-31-75	12.7 51.0 130 30.2

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Cape Fear River basin--Continued				
Richland Creek 02099484	Deep River	Lat 35°56'26", long 79°54'08", Guilford County, at bridge on Secondary Road 1147, 0.2 mile upstream from mouth, and 4 miles southwest of Groomtown.	16.3	1971, 1973-74	10-22-74 2-14-75 4- 3-75	14.8 24.6 52.2
Deep River 0209948955	Cape Fear River	Lat 35°56'16", long 79°53'26", Guilford County, at bridge on Secondary Road 1129, 0.8 mile downstream from Richland Creek, and 4.6 miles southeast of Jamestown.	a96	1971, 1973-74	10-22-74	25.3
Hickory Creek tributary 0209948975	Hickory Creek	Lat 35°59'30", long 79°52'02", Guilford County, at culvert on Secondary Road 1129, 0.1 mile south-southwest of Groomtown, and 1 mile upstream from mouth.	Indeterminate	1974	2-14-75	0
Hickory Creek 02099490	Deep River	Lat 35°57'03", long 79°52'08", Guilford County, at bridge on Secondary Road 1132, 2 miles upstream from mouth, and 7.8 miles east of High Point.	a9.7	1974	10-22-74 2-18-75 4- 3-75	1.58 9.18 14.5
Reddicks Creek 0209949155	Deep River	Lat 36°00'39", long 79°53'02", Guilford County, at bridge on Secondary Road 1372, 0.7 mile south of Sedgefield, and 3 miles upstream from Jenny Branch.	a2.6	1971, 1973-74	10-23-74 2-14-75 4- 4-75	.62 .95 .93
Reddicks Creek 02099492	Deep River	Lat 35°59'10", long 79°52'36", Guilford County, at bridge on Secondary Road 1383, 1.3 miles upstream from Jenny Branch, and 2.4 miles east of Jamestown.	4.93	1971, 1973-74	10-23-74 2-14-75 4- 3-75 7-31-75	.88 4.50 6.48 2.55
Deep River tributary 02100082	Deep River	Lat 35°50'05", long 79°49'10", Randolph County, at bridge on Secondary Road 1958, 0.2 mile upstream from mouth, and 1.5 miles northwest of Randleman.	a.8	1971	2-14-75 4- 3-75	.34 1.24
Polecat Creek 0210017155	Deep River	Lat 35°57'12", long 79°48'43", Guilford County, at bridge on Secondary Road 3428, and 2.9 miles west of Pleasant Garden.	a7.7	1974	10-22-74 2-18-75 4- 3-75	1.26 8.90 11.8
Polecat Creek tributary 0210017195	Polecat Creek	Lat 35°58'17', long 79°16'54", Guilford County, at culvert on Secondary Road 3433, 1.2 miles northwest of Pleasant Garden, and 3.4 miles upstream from mouth.	Indeterminate	1974	2-18-75 7-31-75	.005 0
Haskett Creek 02100294	Deep River	Lat 35°45'33", long 79°47'35", Randolph County, at bridge on Secondary Road 2149, 0.1 mile downstream from Penwood Branch, and 3.5 miles north of Asheboro.	a9.9	1971, 1973-74	10-15-74 2-14-75	.91 5.85
Deep River 02100344	Cape Fear River	Lat 35°44'20", long 79°44'10", Randolph County, at bridge on Secondary Road 2221, at Cedar Falls, 0.5 mile upstream from Bush Creek.	a260	1971, 1974	10-15-74 2-14-75	60.6 298
Deep River 02100599	Cape Fear River	Lat 35°40'20", long 79°37'39", Randolph County, at bridge on Secondary Road 2628, 0.8 mile downstream from Mill Creek, and 2.5 miles southwest of Parks Crossroads.	a390	1971, 1973-74	10-15-74 2-14-75	90.1 401
Blood Run Creek 0210070125	Cape Fear River	Lat 35°45'05", long 79°28'50", Chatham County, at culvert on U.S. Highway 421, 1.3 miles northwest of Siler City, and 4.2 miles upstream from mouth.	a.2	1974	2-14-75 4- 3-75	.01 .18
Blood Run Creek 0210070165	Cape Fear River	Lat 35°44'30", long 79°29'10", Chatham County, at culvert on Secondary Road 1108, 0.5 mile northwest of Siler City, and 4.7 miles upstream from mouth.	a.7	1974	10-21-74	.09
Deep River 02100747	Cape Fear River	Lat 35°30'03", long 79°34'57", Moore County, at bridge on Seconary Road 1456, at Howards Mill, 3.2 miles upstream from Bear Creek, and 4.9 miles north of Robbins, and at river mile 55 upstream from mouth.	a630	1974	10-23-74 2-13-75	118 711
Bear Creek 02100769	Deep River	Lat 35°31'57", long 79°46'09", Randolph County, 50 ft upstream from sewage outfall at Luck's Inc., 0.2 mile upstream from culvert on State Highway 705, and 0.6 mile southeast of Seagrove.	a.5	1971, 1973-74	2-14-75 4- 3-75	.02 .24

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Cape Fear River basin--Continued						
Cabin Creek 02100842	Bear Creek	Lat 35°13'07", long 79°44'07", Montgomery County, 0.1 mile downstream from sewage outfall at Candor's Sewage Treatment Plant, 0.6 mile upstream from culvert on Secondary Road 1509, and 0.7 mile northeast of Candor.	a0.7	1971, 1974	10-23-74 2-12-75 2-20-75 4- 1-75	0.07 .80 .19 .47
Cotton Creek 02100859	Cabin Creek	Lat 35°23'15", long 79°45'55", Montgomery County, at culvert on Secondary Road 1369, 1.3 miles upstream from Lick Creek, and 1.5 miles southeast of Star.	a.9	1971, 1974	10-23-74 2-12-75 2-20-75	.85 1.71 .90
Mill Creek 02100862	Lick Creek	Lat 35°21'38", long 79°45'48", Montgomery County, at bridge on State Highway 27, 0.5 mile upstream from mouth, and 1 mile northeast of Biscoe.	a1.4	1971-72, 1974	10-23-74 2-12-75 2-20-75 4- 1-75	0 .36 .72 4.42
Bear Creek 02101005	Deep River	Lat 35°27'08", long 79°34'48", Moore County, at end of Secondary Road 1475, 1.5 miles north of Robbins, and 2.5 miles upstream from mouth.	a140	1971, 1974	10-23-74 2-13-75	15.9 163
Cedar Creek tributary 02101502	Cedar Creek	Lat 35°34'37", long 79°18'35", Chatham County, at culvert on U.S. Highway 421, 0.7 mile upstream from mouth, and 2.2 miles northwest of Gulf.	a.02	1974	10-21-74 2-13-75 4- 3-75 7-28-75	.05 .001 .02 0
Cedar Creek 02101504	Deep River	Lat 35°34'00", long 79°17'05", Chatham County, at bridge on Secondary Road 2142, 0.8 mile from Gulf, and 2.2 miles upstream from mouth.	a4.5	1974	10-21-74 2-13-75	.14 2.61
Cedar Creek 02101506	Deep River	Lat 35°34'05", long 79°14'45", Chatham County, at bridge on Secondary Road 2145, 0.1 mile upstream from mouth, and 2.5 miles northeast of Gulf.	a12.9	1974	10-21-74 4- 3-75	.33 55.9
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, 1972-74	7-28-75	2.69
Big Buffalo Creek tributary 02101540	Big Buffalo Creek	Lat 35°30'44", long 79°11'16", Lee County, at culvert on U.S. Highways, 1, 15 and 501, 1 mile upstream from mouth, and 3.4 miles north-northwest of Sanford.	a.2	1974	10-21-74 2-13-75 2-19-75 4- 3-75	0 .18 2.47 .71
Loves Creek 0210175555	Rocky River	Lat 35°43'57", long 79°25'23", Chatham County, at mouth, 1 mile downstream from sewage disposal plant, and 2.3 miles east of Siler City.	a9.0	1973-74	10-21-74 2-14-75 4- 3-75	2.5 8.21 26.9
Buies Creek 02102517	Cape Fear River	Lat 35°23'52", long 78°44'52", Harnett County, at mouth of East Buies Creek, and 1 miles southwest of Buies Creek.	a7.7	1974	10-16-74 2-11-75 4- 4-75	1.08 33.4 41.8
Buies Creek 0210252355	Cape Fear River	Lat 35°23'40", long 78°45'00", Harnett County, at Secondary Road 1519, 0.7 mile upstream from mouth, and 1.2 miles southwest of Buies Creek.	a25.9	1974	10-16-74 2-11-75	1.39 33.9
Mulatto Branch 02102542	Cape Fear River	Lat 35°23'35", long 79°11'45", Lee County, at bridge on Secondary Road 1156, 1.5 miles upstream from mouth, and 4.3 miles south-southwest of Sanford.	a1.2	1974	10-22-74 2-13-75 2-18-75 4- 3-75	.01 2.85 16.2 13.1
Gasters Creek 02102557	Upper Little River	Lat 35°27'15", long 79°08'30", Lee County, at culvert on Gasters Creek, 1.6 miles southeast of Sanford, and 3.3 miles upstream from mouth.	a.1	1974	10-22-74 2-13-75 2-18-75 4- 4-75	0 .04 .07 .05
Gasters Creek tributary 02102559	Gasters Creek	Lat 35°27'25", long 79°08'45", Lee County, at culvert on Secondary Road 1306, 1.4 miles southeast of Sanford, and 3.5 miles upstream from mouth.	Indeterminate	1974	10-22-74 2-13-75 2-18-75 4- 4-75	.09 .27 .5 .22
Gasters Creek 0210256025	Upper Little	Lat 35°27'00", long 79°08'46", Lee County, at Secondary Road 1132, 1.8 miles upstream from mouth, and 2.6 miles southeast of Sanford.	a.5	1973-74	10-22-74 2-13-75 2-18-75 4- 4-75 7- 8-75 7-28-75	.11 .53 .57 1.06 .37 1.16

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Cape Fear River basin--Continued						
Juniper Creek 02102578	Little River	Lat 35°23'52", long 79°07'16", Lee County, at mouth, and 1.3 miles northwest of Swann.	a16	1974	10-22-74 2-13-75 4- 3-75	4.6 37.4 44.7
Upper Little River 02102634	Cape Fear River	Lat 35°19'33", long 78°43'21", Harnett County, at bridge on Secondary Road 2021, 1.5 miles upstream from mouth, and 2.8 miles west of Erwin.	a210	1968, 1974	10-16-74 2-11-75 2-19-75 4- 4-75	25.7 666 1,360 593
McDeeds Creek 02102838	Mill Creek	Lat 35°12'05", long 79°22'45", Moore County, below sewage effluent outfall, 1.8 miles northeast of Southern Pines, and 3.3 miles upstream from mouth.	4.20	1973	10-22-74 2-12-75 7- 8-75 7-30-75	7.85 9.41 4.95 6.85
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	1973-74	10-22-74 2-12-75 2-20-75 4- 3-75	8.41 18.7 15.9 28.5
Hybarts Branch 02103967	Branson Creek	Lat 35°04'35", long 78°56'26", Cumberland County, at bridge on Secondary Road 1416, 2 miles upstream from Branson Creek, and 3.5 miles northwest of Fayetteville.	.22	1973-74	2-18-75 4- 3-75	1.92 .26
Rockfish Creek 02104244	Cape Fear River	Lat 34°58'54", long 79°11'46", Hoke County, at bridge on U.S. Highway 401 (business), 1.7 miles east of Raeford, and 4.5 miles upstream from Beaver Creek.	a96	1973-74	10-17-74 2-12-75 4- 2-75	141 170 243
Jacks Ford Branch 02104341	Big Beaver Creek	Lat 35°05'45", long 78°57'55", Cumberland County, 0.5 mile upstream from mouth, and 6 miles northwest of Fayetteville.	.42	1974	2-18-75 4- 3-75	8.01 1.45
Beaver Creek 02104362	Beaver Creek	Lat 35°02'39", long 78°58'40", Cumberland County, at bridge on U.S. Highway 401, 1.1 miles south of Skibo, and 1.3 miles upstream from Cumberland Creek.	24.7	1974	10-16-74 7-20-75	34.4 34.7
Beaver Creek tributary No. 1 b 0210436650	Beaver Creek	Lat 35°03'40", long 79°01'25", Cumberland County, at bridge on Secondary Road 1409, 0.4 mile southeast of Clifdale, and 3.2 miles upstream from mouth.	a.1	1974	10-16-74 2-18-75 4-13-75	.06 .62 .61
Beaver Creek tributary No. 1 02104367	Beaver Creek	Lat 35°03'08", long 79°00'25", Cumberland County, at bridge on Secondary Road 1410, 0.8 mile southeast of Clifdale, and 3.3 miles upstream from mouth.	.27		10-16-74 2-18-75 4- 3-75	.09 .69 .65
Beaver Creek 02104380	Little Rockfish Creek	Lat 35°00'00", long 78°58'44", Cumberland County, at bridge on Secondary Road 1141 at Cumberland, and 1 mile upstream from mouth.	32.2	1961-65, 1968, 1973-74	10-17-74 4- 4-75 7-30-75	1.54 90.6 37.4
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.	a2.8	1973-74	10-17-74 2-18-75	2.86 24.3
Rockfish Creek 0210450005	Cape Fear River	Lat 34°57'57", long 78°55'00", Cumberland County, at bridge on U.S. Highway 301, 0.1 mile downstream from Little Rockfish Creek, and 1.7 miles east of Hope Mills.	286	1974	7-31-75	448
Livingstone Creek 02105790	Cape Fear River	Lat 34°18'57", long 78°14'18", Columbus County, at bridge on U.S. Highway 74, 1.8 miles west of Acme, and 4 miles upstream from Lynch Gum Branch.	a90	1950-59, 1974	10-22-74 2-12-75	23.8 224
Livingstone Creek 0210580160	Cape Fear River	Lat 34°19'43", long 78°12'38", Columbus County, at bridge on State Highway 87, 0.4 mile northwest of Acme, and 1.7 miles upstream from mouth.	a99	1974	10-23-74 2-12-75 4-10-75	43.2 269 168
Great Coharie Creek 0210591620	Black River	Lat 35°14'38", long 78°27'00", Sampson County, at bridge on Secondary Road 1636, 1.4 miles northnortheast of Timothy, and 5.2 miles upstream from confluence of Beaverdam Creek.	a1.7	1974	10-15-74 2-11-75 4- 7-75	*.10 5.09 3.22

a Approximately.
b Revised, previously published as 104375

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Cape Fear River basin--Continued				
Little Coharie Creek 0210596760	Great Coharie Creek	Lat 35°10'16", long 78°27'23", Sampson County, at bridge on Secondary Road 1477, 2.1 miles southeast of Spiveys Corner, and 2.9 miles upstream confluence of Long Branch.	a9.2	1974	4- 7-75	11.2
Great Coharie Creek 0210604480	Black River	Lat 34°47'15", long 78°19'23", Sampson County, at bridge on Secondary Road 1134, 0.6 mile upstream from mouth, and 4.1 miles east of Garland.	380	1974	7- 8-74	64.8
Six Runs Creek 0210608640	Black River	Lat 35°07'13", long 78°15'05", Sampson County, at bridge on Secondary Road 1740, 0.6 mile upstream from Hoe Swamp, and 2.1 miles northwest of Hargrove Crossroads.	a14	1974	10-15-74 4- 7-75 7- 8-75	2.63 14.6 4.39
Black River 02106531	Cape Fear River	Lat 34°36'52", long 78°15'11", Sampson County, at bridge on Secondary Road 1105, 0.5 mile west of Ivanhoe, and 2.5 miles upstream from South River.	a740	1955-56	12-11-73 7- 9-75 7-30-75	f461 141 445
Black River 02106681	South River	Lat 35°17'03", long 78°38'21", Harnett County, at bridge on Secondary Road 1780, 1.5 miles downstream from Popes Pond, and 2.2 miles southwest of Dunn.	a49	1973-74	2-11-75 2-19-75	169 719
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	1973	7-28-75	.45
Black River 02107214	Cape Fear River	Lat 34°33'12", long 78°15'12", Sampson County, at bridge on Secondary Road 1100, 2.2 miles downstream from South River, and 4.7 miles northwest of Atkinson.	1,250	1974	7- 9-75	280
Colly Creek 0210733955	Black River	Lat 34°39'17", long 78°28'03", Bladen County, at State Highway 41, 1 mile downstream from Little Colly Creek, and 1.5 miles east of White Lake.	a38	1973-74	10-24-74 2-18-75 4- 9-75	36.0 78.0 73.4
Colly Creek 02107341	Black River	Lat 34°34'50", long 78°23'13", Bladen County, at bridge on Secondary Road 1532, 1.2 miles upstream from Johns Swamp Branch, and 6.8 miles southeast of White Lake.	a66	1973-74	2-18-75 4- 9-75	112 197
Northeast Cape Fear River 02107586	Cape Fear River	Lat 25°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	1973	2-11-75 4- 7-75	11.5 11.6
Goshen Swamp 02107724	Northeast Cape Fear River	Lat 35°18'03", long 78°07'16", Duplin County, at bridge on U.S. Highway 117, 0.5 mile upstream from Reedy Branch, and 1.2 miles northeast of Faison.	a59	1956, 1973-74	2-11-75	128
Reedy Branch 0210811955	Island Creek	Lat 34°49'51", long 77°58'09", Duplin County, at Secondary Road 1102, 2.2 miles upstream from mouth, and 2.6 miles east of Rose Hill.	4.0	1973-74	2-19-75 4- 8-75	44.9 5.63
Island Creek tributary 02108125	Island Creek	Lat 34°49'00", long 78°00'35", Duplin County, at bridge on Secondary Road 1931, 0.8 mile southeast of Rose Hill, and 2.1 miles upstream from mouth.	a.6	1974	2-19-75 4- 8-75	3.38 1.17
Little Rockfish Creek 02108543	Rockfish Creek	Lat 34°44'20", long 77°59'00", Duplin County, at bridge on State Highway 41, 0.2 mile west of Tin City, and 2 miles upstream from mouth.	a9.5	1974	2-19-75 7- 9-75	82.2 1.6
Northeast Cape Fear River 02108564	Cape Fear River	Lat 34°38'50", long 77°52'20", Pender County, at bridge on Secondary Road 1318, 4.9 miles east of Watha, and 5.1 miles upstream from Fish Creek.	a908	1974	4- 8-75	2,070
Burgaw Creek 0210860020	Northeast Cape Fear River	Lat 34°33'48", long 77°56'05", Pender County, at Secondary Road 1345, 0.9 mile north-northwest of Burgaw.	a.7	1973-74	2-19-75 4- 8-75	66.2 1.84

a Approximately.
f Not previously published.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Cape Fear River basin--Continued						
Spring Branch 02108645	Smith Creek	Lat 34°15'20", long 77°52'20", New Hanover County, at culvert on State Highway 132, 1 mile upstream from mouth, and 3.2 miles southwest of Murraysville.	a1.1	1965, 1974	7- 9-75 7-30-75	0.27 .30
Waccamaw River basin						
Big Creek 02108963	Lake Waccamaw	Lat 34°19'18", long 78°27'18", Columbus County, at bridge on U.S. Highways 74 and 76, 2.9 miles upstream from mouth, and 3.1 miles west of Bolton.	a70		2-12-75	8.21
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	1973	4- 9-75	49.7
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	1971-73	2-18-75 7- 9-75 7-29-75	7.31 .42 .50
Soules Swamp 02109184	White Marsh	Lat 34°19'33", long 78°48'44", Columbus County, at culvert on U.S. Highways 74 and 76, 0.2 mile upstream from Horsepen Branch, and 0.7 mile northeast of Chadbourn.	.53	1959, 1971-72, 1974	4-11-75 7-10-75 7-29-75	.21 .01 .06
Soules Swamp 02109194	White Marsh	Lat 34°19'25", long 78°48'50", Columbus County, downstream from East Side Sewage Plant, at Chadbourn, and 0.1 mile upstream from Horsepen Branch.	.56	1974	2-13-75 4-11-75	.93 .50
Horsepen Branch 02109224	Soules Swamp	Lat 34°19'05", long 78°49'15", Columbus County, at downstream side of culvert on Secondary Road 1317, 0.5 mile southeast of Chadbourn, and 0.8 mile upstream from mouth.	.75	1971-72, 1974	4-14-75 7-29-75	.11 .03
Soules Swamp 02109244	White Marsh	Lat 34°19'27", long 78°47'58", Columbus County, at culvert on Secondary Road 1005, 1.6 miles east of Chadbourn, and 1.7 miles upstream from Juniper Creek.	a.85	1971-72, 1974	2-13-75 4-11-75	2.48 .97
Pine Log Branch 02109294	Soules Swamp	Lat 34°20'40", long 78°45'08", Columbus County, at bridge on Secondary Road 1435, 2.8 miles west of Whiteville, and 3.1 miles upstream from mouth.	a5.1	1971-72, 1974	2-13-75 4-11-75	4.67 3.11
Pine Log Branch 02109296	Soules Swamp	Lat 34°20'09", long 78°43'51", Columbus County, at bridge on U.S. Highway 74, 1 mile north of Pine Log, and 1.8 miles upstream from mouth.	8.30	1971-72	2-13-75 4-11-75	7.17 6.88
Soules Swamp 0210932380	White Marsh	Lat 34°19'00", long 78°42'22", Columbus County, at bridge on U.S. Highway 701 (business), 0.5 mile downstream from Mollie Branch, and 1.5 miles south of Whiteville.	a42	1974	2-13-75 4-10-75	46 35.5
Richardson Swamp 02109345	White Marsh	Lat 35°17'17", long 78°42'39", Columbus County, at culvert on Old State Highway 120, 0.5 mile west of Brunswick, and 0.9 mile upstream from Richardson Millpond.	a.30	1971-72, 1974	4-10-75 7-29-75	.75 .013
Richardson Swamp tributary 02109365	Richardson Swamp	Lat 34°17'36", long 78°41'44", Columbus County, at culvert on Secondary Road 1951, 0.3 mile upstream from mouth, and 0.6 mile northeast of Brunswick.	a.2	1971-72, 1974	2-13-75 4-10-75	.41 .28
White Marsh 02109434	Waccamaw River	Lat 34°14'41", long 78°37'04", Columbus County, at bridge on Secondary Road 1001, 1.3 miles downstream from Register Branch, and 5.5 miles south of Hallsboro.	292		7-31-75	174
Juniper Creek 02109484	Waccamaw River	Lat 34°09'15", long 78°31'53", Columbus County, at bridge on Secondary Road 1928, 2 miles upstream from mouth, and 3.9 miles east of Old Dock.	a170	1974	7-10-75 7-31-75	185 444

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Waccamaw River basin--Continued						
Town Canal 02109771	Grissett Swamp	Lat 34°08'56", long 78°51'44", Columbus County, at bridge on U.S. Highway 701, Bypass, 0.5 mile east of Tabor City, and 0.5 mile upstream from mouth.	a.30	1971	4-14-75	0.29
Skeebo Branch 02109779	Grissett Swamp	Lat 34°07'56", long 78°52'35", Horry County, S.C., at culvert on U.S. Highway 701, 1.5 miles south of Tabor City, N. C., and 2 miles upstream from mouth.	a.5	1971-72, 1974	2-13-75 4-14-75	.83 .40
Grissett Swamp 02109821	Seven Creeks	Lat 34°08'55", long 78°46'56", Columbus County, at bridge on Secondary Road 1005, 1 mile north of Ironhill, and 2.8 miles upstream from Toms Fork.	a22	1959, 1971-72	2-13-75 4-14-75 7-31-75	36.4 16.3 14.3
Waccamaw River 02110056	Atlantic Ocean	Lat 34°00'59", long 78°37'49", Columbus County, at bridge on State Highway 904, 1 mile south of Pireway, and 1 mile downstream from Seven Creeks.	966		7-10-75 7-31-75	452 1,580
Pee Dee River basin						
Yadkin River b 02110828	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	1970-74	11- 1-74 1-16-75 2- 3-75 2-19-75 5-30-75	*11.5 24.4 18.4 *26.3 67.8
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, 1970-73	1-10-75	41.8
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	1970-73	1-10-75	97.1
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, 1970-73	1- 9-75	213
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	1970-73	1- 9-75	15.0
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, 1970-73	1- 9-75	52.1
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	1970-73	1- 9-75	1.30
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	1970-73	1- 9-75	2.81
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	1970-73	12-19-74	26.2
Elkin River 02112248	Yadkin River	Lat 36°15'09", long 80°51'48", Surry County, at foot bridge in Memorial Park, 0.4 mile upstream from mouth, and 0.5 mile west of Elkin.	a86	1970-73	1- 8-75	23.1
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	1970-73	1- 8-75	1.19

a Approximately
b Revised, previously published as 02110826.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Pee Dee River basin--Continued				
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, 1973	1- 8-75	6.57
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	1970-73	1- 9-75	573
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	1970-74	10-30-74 1- 8-75 2-10-75 5- 5-75 6- 9-75 8-20-75 9-17-75	*23.7 26.3 43.2 78.0 59.1 29.0 28.9
Ararat River 02114101	Yadkin River	Lat 36°18'08", long 80°31'55", Surry County, at bridge on Secondary Road 2080, 2.2 miles northeast of Siloam, and 2.2 miles upstream from mouth.	a310	1974	10-30-74 12-19-74 1- 9-75 1-30-75 3-26-75 6- 9-75 8-19-75 9-17-75	*203 300 278 344 720 437 207 228
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	1970-73	1- 8-75	1.25
Yadkin River 02115674	Pee Dee River	Lat 36°00'31", long 80°25'22", Forsyth County, at bridge on U.S. Highway 158, 2 miles southwest of Clemmons, and 1 mile downstream from Blanket Creek.	a1,920	1970-72 1974	3-12-75	2,510
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	1973	10-10-74	4.65
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	1973	10-10-74	*5.22
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	1970-73	10-10-74	*1.71
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	1970-74	2-26-75	4.15
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	1970-74	5-12-75	10.8
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, 1970-71, 1973-74	3-12-75	131
††Kerners Mill Creek tributary 02115826	Kerners Mill Creek	Lat 36°06'58", long 80°05'37", Forsyth County, at Kernersville's water treatment plant upstream from sewage effluent outfall, 1.3 miles southwest from Kernersville, and 2.8 miles upstream from mouth.	a.72	1970-71, 1974	10-10-74 10-31-74 11- 5-74 1-29-75 2-25-75 3-12-75 7- 7-75	*.32 *.27 *.35 .53 .68 1.09 .17

a Approximately.
†† Formerly published as Salem Creek.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Pee Dee River basin--Continued						
Salem Creek 02115827	Muddy Creek	Lat 36°07'24", long 80°05'52", Forsyth County, 0.6 mile southwest of dam on Salem Creek tributary at end of Secondary Road 2650, 1.4 miles west of Kernersville, and 2.3 miles upstream from Kerners Mill Creek.	a1.0	1972	2-25-75	1.60
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, and 2 miles north of Five Points.	57.4	1970-74	3-12-75	101
Salem Creek 02115857	Muddy Creek	Lat 36°01'52", long 80°18'50", Forsyth County, at bridge on Secondary Road 1120, 3 miles upstream from mouth, and 5 miles southwest of Winston-Salem.	66.2	1968, 1972, 1974	10- 9-74	24.3
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, 1970-74	10-10-74	*76.4
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	1970-73	2-25-75	2.18
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	1970-73	2-25-75	6.73
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	1970-73	2-26-75	2.63
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, 1973	10- 9-74	138
Dutchmans Creek 0211668555	Yadkin River	Lat 36°01'13", long 80°39'13", Davie County, at bridge on Secondary Road 1002, 0.6 mile upstream from confluence of Steelman Creek, and 3.5 miles northwest of Stanleys Store.	a13	1974	11- 1-74 2- 3-75 3-12-75 7- 7-75	*7.75 13.2 23.2 9.34
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	1940-43, 1970-71, 1973	12-17-74	125
‡‡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 1973	12-17-74	1.37
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, 1973	12-17-74	7.16
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, 1970-73	12-18-74	6.95
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	1970-73	12-18-74	4.98
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	1970-74	11- 1-74 6-22-75	*40.9 46.2
South Yadkin River 02117055	Yadkin River	Lat 36°00'06", long 81°06'38", Alexander County, at bridge on Secondary Road 1403, 0.5 mile northwest of Vashti, 2.4 miles upstream from confluence of Vashti Creek.	a11	1974	11- 2-74 2- 3-75 2-27-75 8- 5-75	*5.35 *10.3 20.2 8.66

a Approximately.
‡‡ Formerly published as Elisha Creek.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Pee Dee River basin--Continued						
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, 1973	2-27-75	49.9
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, 1973	2-27-75	*1.94
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, 1967-73	1- 3-75	13.5
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, 1970-73	1- 3-75	41.7
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	1970-73	12-17-74	18.0
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 Mocksville, and 4.5 miles upstream from mouth.	a23	1952-58, 1963, 1970-73	12-17-74	28.6
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, 1970-74	6-27-75	568
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	1970-73	1- 3-75	3.38
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	1970-73	2-27-75	36.0
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	1963-73	2-27-75	42.6
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	1970-73	2-27-75	65.7
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	1970-73	2-27-75	3.75
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	1970-73	2-27-75	41.2
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	1970-73	2-27-75	57.6
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	1970-73	2-27-75	64.8

a Approximately.
‡ Operated as a continuous-record gaging station.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Pee Dee River basin--Continued				
South Branch Grants Creek tributary 02120848	South Branch Grants Creek	Lat 35°33'34", long 80°35'14", Rowan County, at bridge on Secondary Road 1197, 0.4 mile upstream from mouth, and 1.2 miles northeast of Landis.	a6	1970-74	12-20-74	2.00
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	1970-74	12-20-74	2.61
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	1970-74	12-19-74	11.1
Grants Creek 02120881	Yadkin River	Lat 35°35'57", long 80°34'02", Rowan County, at bridge on Secondary Road 1505, 2 miles north of China Grove, and 15 miles upstream from mouth.	15.2	1970-74	12-19-74	13.8
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	1970-74	12-19-74	.49
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 fork in Grants Creek, and 4.9 miles southwest of Salisbury.	a32	1970-74	12-19-74	27.9
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	1970-73	12-19-74	.30
Grants Creek 02120908	Yadkin River	Lat 35°38'29", long 80°30'58", Rowan County, at bridge on Secondary Road 1526, 1 mile northwest of Rowan Mills, and 8.2 miles upstream from mouth.	a37	1970-71, 1973-74	12-19-74	30.3
Grants Creek 02120932	Yadkin River	Lat 35°41'45", long 80°28'54", Rowan County, at bridge on U.S. Highway 601, 2.1 miles north of Salisbury, and 4.8 miles upstream from mouth.	a58	1970-71, 1973-74	12-18-74	55.2
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, 1973	10- 9-74	6.74
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.	a2.1	1973	10- 9-74	1.06
Michael Branch 0212131275	Swearing Creek	Lat 35°48'30", long 80°17'06", Davidson County, at culvert on Secondary Road 1232, 1.1 miles upstream from mouth, and 2.1 miles southwest of Lexington.	4.0	1973-74	10- 9-74	2.60
Swearing Creek 02121326	Yadkin River	Lat 35°47'58", long 80°18'03", Davidson County, at bridge on Secondary Road 1147, downstream from Beaverdam Creek, 3.6 miles southeast of Reeds Crossroads.	a26	1973-74	10- 9-74	11.8
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, 1973	2-27-75	29.8
Rat Spring Branch 0212133455	Swearing Creek	Lat 35°47'27", long 80°17'27", Davidson County, at bridge on Secondary Road 1254, 0.8 mile upstream from mouth, and 2.9 miles southwest of Lexington.	a2.7	1973-74	10- 9-74	.74
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, 1973	10- 9-74	14.2

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Pee Dee River basin--Continued				
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.	2.3	1970-71, 1973	2-27-74	0.21
Swearing Creek 02121365	Yadkin River	Lat 35°41'30", long 80°18'07", Davidson County, at bridge on Secondary Road 1104, 1.3 miles upstream from mouth, and 1.8 miles west of Feezor.	a47	1970-71, 1973-74	10- 9-74	14.7
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, 1973	12-18-74	11.3
Second Creek 02121409	Yadkin River	Lat 35°32'17", long 80°23'34", Rowan County, at bridge on Secondary Road 2338, 1.4 miles southeast of Rockwell, and 7.7 miles upstream from Reedy Creek.	a20	1970-71, 1973	12-18-74	17.1
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, 1973	12-18-74	.40
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, 1973	12-18-74	.73
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	1970-73	2-25-75	.33
Abbotts Creek 02121414	Yadkin River	Lat 36°05'45", long 80°04'15", Forsyth County, at bridge on Secondary Road 2640, 0.8 mile downstream from sewage outfall, and 1.9 miles northeast of Mathis.	a1.4	1970-72, 1974	11- 5-74 1-29-75 2-25-75 7- 7-75	*.78 1.26 1.71 .65
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, 1970-74	2-26-75	12.4
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	1970-74	2-26-75	40.0
Hanks Branch 0212147515	Hunts Fork	Lat 35°54'27", long 80°02'30", Randolph County, at culvert on Secondary Road 1627, 3.8 miles upstream from mouth, and 4.5 miles southeast of Archdale.	a.6	1970-71, 1973-74	2-26-75	.60
Hanks Branch 0212147555	Hunts Fork	Lat 36°05'36", long 80°04'29", Davidson County, at bridge on Secondary Road 1769, 2.2 miles northeast of Thomasville, and 3.1 miles upstream from mouth.	a2.2	1970-71, 1973-74	2-26-75	2.17
Hamby Creek 0212148335	Rich Fork	Lat 35°51'19", long 80°06'40", Davidson County, at bridge on Secondary Road 2085, 2.5 miles southwest of Thomasville, and 7.2 miles upstream from mouth.	a3.9	1970-71, 1973-74	2-26-75	3.48
Hamby Creek 02121484	Rich Fork	Lat 35°50'50", long 80°06'50", Davidson County, 2.2 miles west of Fair Grove, and 6.5 miles upstream from mouth.	13.3	1970-71, 1973-74	2-26-75	21.1
Abbotts Creek 02121500	Yadkin River	Lat 35°48'23", long 80°14'05", Davidson County, on Secondary Road 1243, 1.5 miles southeast of Lexington, and 4.9 miles downstream from Rich Fork.	174	‡1940-57	10- 9-74 2- 3-75 6-27-75	41.3 214 41.7

a Approximately.
‡ Operated as a continuous gaging station.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Pee Dee River basin--Continued						
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, 1973	3- 4-75	0.50
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, 1973	3- 4-75	.64
Uwharrie River 02123113	Pee Dee River	Lat 35°48'25", long 79°59'50", Randolph County, at bridge on Secondary Road 1549, 4.5 miles upstream from Little Uwharrie River, and 7.5 miles southwest of Glenola.	a32	1962, 1974	10-11-74 11-20-74 12-30-74 1-29-75 3- 6-75 5-21-75 8-22-75	*5.61 30.7 51.3 43.7 22.2 40.8 6.70
Toms Creek 02123420	Uwharrie River	Lat 35°32'43", long 80°04'38", Davidson County, at bridge on Secondary Road 2517, 2.2 miles east of Denton, and 10.8 miles upstream from mouth.	a2.4	1970	2-27-75	2.45
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	1970-72	3- 5-75	5.67
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	1970-74	1- 3-75 2-27-75	6.44 18.1
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	1970-74	10- 8-74 1-17-75 6-10-75	8.73 20.3 17.1
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	1979-71, 1973	2-27-75	7.09
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, 1973	10-17-74 2-27-75	.74 3.25
Stony Creek 0212414860	Mallard Creek	Lat 35°20'01", long 80°43'13", Mecklenburg County, at culvert on U.S. Highway 29, 0.2 miles upstream from mouth, and 3.9 miles north of Newell.	a6.8	1969-71, 1973	10-17-74 2-27-75	.31 4.39
Mallard Creek 02124160	Rocky Creek	Lat 35°20'01", long 80°40'06", Cabarrus County, at bridge on Secondary Road 1300, 0.2 miles upstream from mouth, and 1.3 miles northwest of Harrisburg.	41.2	1955-65, 1971, 1973	10-17-74 12-26-74	8.81 22.7
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	1970-73	12-26-74	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, 1973-74	12-26-74	4.40
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, 1973	10-17-74 2-27-75	4.23 12.9
McKee Creek 0212430645	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	1969-71, 1973	10-17-74 2-27-75	1.10 4.15

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Pee Dee River basin--Continued						
Irish Buffalo Creek tributary 0212433839	Irish Buffalo Creek	Lat 35°30'37", long 80°37'58", Rowan County, at bridge on Secondary Road 1100, 0.9 mile upstream from mouth, and 1 mile northwest of Kannapolis.	a1.6	1970-71, 1973-74	12-20-74	1.65
Irish Buffalo Creek tributary 0212433843	Irish Buffalo Creek	Lat 35°30'34", long 80°38'49", Rowan County, at bridge on Secondary Road 1109, 50 yards upstream from mouth, and 1.4 miles northwest of Kannapolis.	a2.3	1970-71, 1973-74	12-20-74	7.43
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	1970-74	12-20-74	7.50
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	1970-74	12-20-74	10.8
Irish Buffalo Creek 02124341	Rocky River	Lat 35°29'15", long 80°39'12", Cabarrus County, at bridge on Secondary Road 1625, on Pine Street, 2 miles southwest of Kannapolis, and 13 miles upstream from mouth.	19	1970-74	12-26-74	9.31
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	1970-74	10-12-74	12.1
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	1970-74	10-12-74	17.5
Irish Buffalo Creek 02124368	Rocky River	Lat 35°21'49", long 80°33'25", Cabarrus County, at bridge on Secondary Road 1153, 2.7 miles upstream from mouth, and 3 miles southeast of Concord.	42.2	1970-74	10-12-74	22.9
Irish Buffalo Creek 02124374	Rocky River	Lat 35°20'50", long 80°32'52", Cabarrus County, at bridge on Secondary Road 1132, 1 mile south of Faggarts Crossroads, and 1 mile upstream from mouth.	44.7	1974	10- 8-74 1-17-75	35.2 50.2
Rocky River 02124401	Pee Dee River	Lat 35°19'26", long 81°30'59", Cabarrus County, at bridge on U.S. Highway 601, 1 mile upstream from Hamby Branch, and 3 miles southeast of Faggarts Crossroads.	390	1970-71, 1973-74	10- 8-74 1-17-75 6- 4-75 7- 9-75	101 523 458 165
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	1973	3- 4-75	24.9
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, 1973	10-12-74	6.29
Clear Creek 02124660	Rocky River	Lat 35°12'29", long 80°34'48", Mecklenburg County, at bridge on Secondary Road 3181, 4.3 miles northeast of Mint Hill, and 7.1 miles upstream from mouth.	a11	1969-71	10-17-74	2.16
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, 1973	3- 6-75	3.41
Rock Hole Creek 02124776	Rocky River	Lat 35°12'12", long 80°26'00", Stanly County, at bridge on Secondary Road 1001, 3 miles upstream from mouth, and 2.2 miles south of Stanfield.	a6.6	1970-71, 1973-74	3- 6-75	6.93
Rocky River 02124781	Pee Dee River	Lat 35°09'49", long 80°23'43", Stanly County, at bridge on State Highway 200, 0.5 mile downstream from Rock Hole Creek, and 5 miles southeast of Stanfield.	a700	1971, 1973-74	10- 9-74 2-10-75 9-16-75	*133 786 279

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Pee Dee River basin--Continued				
Long Creek 02124823	Rocky River	Lat 35°28'21", long 80°17'37", Stanly County, at bridge on Secondary Road 1454, 1.9 miles west of Richfield, and 15.2 miles upstream from mouth.	a5.0	1974	10- 8-74 1-29-75 3- 4-75 5- 8-75 6- 4-75 8- 5-75 9- 3-75 9-16-75	*.08 8.06 2.24 1.26 5.41 .22 .16 1.49
Long Creek 02124841	Rocky River	Lat 35°19'55", long 80°12'45", Stanly County, upstream from Little Long Creek, and 1.5 miles southwest of Albemarle Post Office.	33.1	1970-71, 1973-74	3- 5-75	26.9
Little Long Creek 02124869	Long Creek	Lat 35°20'13", long 80°12'38", Stanly County, at bridge on Secondary Road 1903, 0.4 mile upstream from mouth, and 1.2 miles southwest of Albemarle.	a29	1970-71, 1973-74	3- 5-75	22.0
Long Creek 02124908	Rocky River	Lat 35°16'57", long 80°14'52", Stanly County, at bridge on Secondary Road 1967, 2 miles upstream from Little Bear Creek, and 2.2 miles south of Hills.	a72	1970-71, 1973-74	3- 5-75	58.0
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, 1973	3- 5-75	5.32
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, 1973	3- 5-75	7.87
Big Bear Creek 02125023	Long Creek	Lat 35°15'22", long 80°17'15", Stanly County, at bridge on Secondary Road 1968, 1 mile southwest of St. Martin, and 2.2 miles downstream from Ramsey Creek.	73.6		8- 5-75 9- 3-75 9-16-75	11.9 22.4 9.18
Stony Run tributary 02125091	Stony Run	Lat 35°14'54", long 80°18'45", Stanly County, at bridge on Secondary Road 1975, 0.1 mile upstream from mouth, and 2 miles north of Oakboro.	a1.6	1970-71, 1973-74	3- 5-75	.53
Long Creek 02125126	Rocky River	Lat 35°13'05", long 80°15'28", Stanly County, at bridge on Secondary Road 1917, 1 mile upstream from mouth, and 4 miles east of Oakboro.	198	1970-71, 1973-74	10- 9-74 2-11-75 3- 5-75 5- 8-75 6- 4-75 7- 9-75 9-16-75	18.6 276 132 150 334 40.3 29.2
Richardson Creek 0212514705	Rocky River	Lat 34°54'39", long 80°35'38", Union County, at bridge on Secondary Road 2139, 2.3 miles upstream from Adams Branch, and 8.5 miles east of Waxhaw.	a3.2	1974	12-19-74 3- 7-75 4-23-75 6-10-75 9-19-75	2.60 2.00 1.10 .27 96.5
Richardson Creek 02125183	Rocky River	Lat 34°57-53", long 80°30'58", Union County, at Boat Landing on south bank of Lake Monroe, 0.1 mile upstream from Monroe Lake Dam, and 2.5 miles southeast of Monroe.	a50	1971	10-31-74	*.49
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	1973	3- 6-75	.52
Richardson Creek 02125223	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, 1973	3- 7-75	1.52
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	1973	3- 7-75	.38

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Pee Dee River basin--Continued				
Bearskin Creek 0212523050	Richardson Creek	Lat 34°59'24", long 80°32'57", Union County, at bridge on Haynes Stree, at Monroe, and 3.1 miles upstream from mouth.	a19 b	1973	3- 7-75	4.61
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 miles upstream from mouth.	a21	1973	3- 6-75	4.99
Bearskin Creek 02125246	Richardson Creek	Lat 34°59'24", long 80°30'37", Union County, at mouth, 2.3 miles northeast of Monroe.	a22	1973-74	3- 7-75	5.82
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 2.5 miles upstream from mouth.	a4.1	1970-71, 1973	3- 6-75	1.10
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.	a.3	1973	3- 6-75	.03
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, 1973	3- 6-75	1.74
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 9.5 miles upstream from mouth.	a3.2	1970-71, 1973-74	3- 6-75	1.24
Niggerhead Creek 02125543	Richardson Creek	Lat 35°00'52", long 80°22'34", Union County, at bridge on State Highway 205, 1.9 miles north of Marshville, and 6.3 miles upstream from mouth.	a12	1970-71, 1973-74	10-11-74	.61
Niggerhead Creek 02125546	Richardson Creek	Lat 35°02'37", long 80°21'56", Union County, at bridge on Secondary Road 1002, 1.2 miles west of Hamilton, and 4.5 miles upstream from mouth.	a15	1953, 1970-71, 1973-74	10-11-74	1.38
Niggerhead Creek 02125549	Richardson Creek	Lat 35°04'25", long 80°22'14", Union County, at bridge on Secondary Road 1006, 1.6 miles northeast of Fairfield, and 2.2 miles upstream from mouth.	a24	1961-62, 1970-71, 1973-74	3- 6-75	7.32
Richardson Creek 02125588	Rocky River	Lat 35°09'11", long 80°14'50", Anson County, at bridge on Secondary Road 1606, 1.8 miles upstream from mouth, and 5.8 miles north of Kikers.	a240	1957, 1974	10-10-74 2-10-75 6- 4-75	*10.6 244 96.8
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, 1973	3- 6-75	26.8
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, 1973	3- 6-75	1.02
Hardy Creek tributary 02126088	Hardy Creek	Lat 35°12'53", long 80°12'27", Stanly County, at culvert on Secondary Road 1940, 1.1 miles southeast of Aquadale, and 3.1 miles upstream from mouth.	a.5	1970-71	3- 5-75	.18
Hardy Creek tributary 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, 1973	3- 5-75	.82
Little River 02127560	Pee Dee River	Lat 35°37'22", long 79°51'18", Randolph County, at bridge on Secondary Road 1142, 1.8 miles southwest of Ulah, and 1.9 miles upstream from confluence of Big Branch.	a5.3	1974	10-11-74 11-20-74 12-30-74 1-29-75 6- 6-75	*.68 10.4 7.05 6.30 4.20

a Approximately.
b Drainage area revised.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Pee Dee River basin--Continued				
Little River 02128394	Pee Dee River	Lat 35°06'23", long 79°53'57", Richmond County, at bridge on Secondary Road 1148, 1.1 miles upstream from mouth, and 5 miles east of Mangum.	a350	1974	10-10-74 2-12-75 5- 9-75 6- 6-75 7-10-75 8- 6-75 9- 5-75	33.1 345 185 208 569 131 61.7
South Fork Jones Creek 02129439	Jones Creek	Lat 34°50'59", long 80°08'05", Anson County, at culvert on Secondary Road 1114, 0.5 mile upstream from confluence of Lick Branch, and 1.4 miles east of Deep Creek.	a3.7	1974	10-10-74 11-26-74 12-31-74 6- 6-75	*.36 *.65 3.83 .19
Jones Creek 02129528	Pee Dee River	Lat 34°53'05", long 79°54'12", Anson County, at bridge on Secondary Road 1801, 1.6 miles upstream from mouth, and 1.7 miles east of Cairo.	a98	1961-62, 1969, 1974	10-10-74 11-26-74 12-31-74	*25.2 54.0 87.0
Pee Dee River 02130000	Atlantic Ocean	Lat 34°42'28", long 79°52'26", Chesterfield County, S. C., at bridge on U.S. Highway 1, 0.1 mile upstream from Seaboard Coast Line Railroad bridge, and 0.6 mile northeast of Cheraw, S.C.	7,320	1974	10-10-74 2-12-75	6,520 13,600
Gum Swamp 02132172	Little Pee Dee River	Lat 34°47'58", long 79°31'56", Scotland County, at bridge on U.S. Highway 74, 2.8 miles upstream from Lower Beaverdam Creek, and 3.9 miles southeast of Old Hundred.	55.8	1973-74	7-29-75	80.3
Bridge Creek 02132228	Leith Creek	Lat 34°43'32", long 79°27'35", Scotland County, at bridge on Secondary Road 1614, 1.6 miles northwest of McArthur Crossroads, and 3.5 miles upstream from Leith Creek.	a8.0	1973-74	7-29-75	6.77
Leith Creek 0213224010	Little Pee Dee River	Lat 35°48'08", long 79°28'08", Scotland County, at culvert on Secondary Road 1302, 2 miles north-northwest of Laurinburg.	a6.0	1974	2-12-75	6.22
Leith Creek 02132242	Little Pee Dee River	Lat 34°47'39", long 79°27'46", Scotland County, at culvert on U.S. Highway 15, downstream from Laurinburg and Southern Railroad, and 1.2 miles north of Laurinburg.	7.51	1959, 1968, 1974	2-12-75 4- 2-75	9.94 14.5
Leith Creek 02132262	Little Pee Dee River	Lat 34°45'59", long 79°26'20", Scotland County, at bridge on Secondary Road 1603, 0.1 mile downstream from Laurinburg and Southern Railroad, and 1.5 miles southeast of Laurinburg.	12.2	1974	4- 2-75	27.3
Leith Creek tributary 0213226875	Leith Creek	Lat 34°45'42", long 79°25'14", Scotland County, at bridge on U.S. Highway 74, 0.8 mile upstream from mouth, and 3.3 miles southeast of Laurinburg.	a2.0	1973-74	7-29-75	5.69
Leith Creek 02132269	Little Pee Dee River	Lat 34°44'32", long 79°25'09", Scotland County, at bridge on Secondary Road 1609, 4 miles west of Maxton, and 5.4 miles upstream from mouth.	22.7	1973-74	7-29-75	28.8
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 south of Johns.	a61	1973	2-13-75 8- 1-75	109 79
Big Shoe Heel Creek 02132287	Little Pee Dee River	Lat 34°48'16", long 79°22'37", Scotland County, at bridge on Secondary Road 1433, 1.5 miles upstream from Jordan Creek, and 7.7 miles northeast of Johns.	19.9	1962, 1974	10-17-74	13.0
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	1973-74	7-29-75	191
Big Shoe Heel Creek 02132323	Little Pee Dee River	Lat 34°43'42", long 79°22'29", Robeson County, at bridge on Secondary Road 1612, 1.5 miles southwest of Maxton, and 4.5 miles downstream from Jordan Creek.	84.6	1973-74	7-29-75	237

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Pee Dee River basin--Continued						
Maxton Branch 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	1973	7-29-75	0.24
Mitchell Swamp 02132386	Hayes Swamp	Lat 34°32'15", long 79°18'52", Robeson County, at bridge on Secondary Road 1137, 1.2 miles west of Rowland, and 2 miles upstream from State line.	a4.6	1959-60, 1962, 1968, 1974	10-18-74 2-13-75 4- 7-75	.61 3.91 5.13
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	1973	10-21-74 2-13-75 8- 1-75	.78 2.14 2.49
Drowning Creek 02132881	Lumber River	Lat 35°14'03", long 79°40'05", Montgomery County, at bridge on Secondary Road 1522, 3.2 miles east of Emery, and 6.6 miles upstream from Jackson Creek.	a22	1973-74	10-23-74	17.8
Drowning Creek 02132910	Lumber River	Lat 35°11'16", long 79°38'55", Moore County, at bridge on State Highway 73, 2 miles southwest of Jackson Springs, and 3 miles upstream from Jackson Creek.	a32	1949-54, 1957-59, 1962, 1968-69, 1973-74	10-23-74	19.8
Horse Creek 0213298755	Drowning Creek	Lat 35°09'32", long 79°29'39", Moore County, at bridge on Secondary Road 1115, downstream from Pinehurst Water Treatment Plant, and 1.4 miles southwest of Vina Vista.	a4.6	1973-74	1023-74	5.0
Aberdeen Creek 02133531	Drowning Creek	Lat 35°07'39", long 79°25'55", Moore County, at bridge on U.S. Highway 1, 0.4 mile downstream from Rays Mill Creek, and 0.4 mile south of Aberdeen.	19.7	1973-74	10-22-74 2-12-75 2-20-75	22.8 31.2 43.5
Aberdeen Creek 02133553	Drowning Creek	Lat 35°05'49", long 79°27'22", Moore County, at bridge on Secondary Road 1105, 1.3 miles southeast of Pine Bluff, and 3.8 miles upstream from mouth.	28.4	1973-74	10-22-74 2-12-75 2-20-75	26.3 48.7 57.8
Mountain Creek 0213360350	Drowning Creek	Lat 35°01'51", long 79°22'19", Hoke County, at bridge on Secondary Road 1214, 1.2 miles northwest of Five Points, and 3.5 miles upstream from mouth.	a6.0	1973-74	2-12-75 4- 2-75	9.71 12.0
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, 1973	8- 1-75	680
Lumber River 02133651	Little Pee Dee River	Lat 34°40'50", long 79°14'00", Robeson County, at bridge on State Highway 710, 2 miles downstream from Gum Swamp, and 2.5 miles east of Pembroke.	a420	1974	10-23-74 4- 8-75	382 1,210
Lumber River 02133691	Little Pee Dee River	Lat 34°39'52", long 79°10'30", Robeson County, at bridge on Secondary Road 1003, 2.2 miles southwest of Moss Neck, and 6.2 miles downstream from Gum Swamp.	430	1974	10-23-74 4- 8-75	361 1,070
Little Raft Swamp tributary No. 2 0213400010	Little Raft Swamp	Lat 34°48'20", long 79°10'54", Robeson County, at State Highway 211, 0.3 mile upstream from mouth, and 0.5 mile north of Red Springs.	a1.1	1974	10-18-74 2-14-75 4- 7-75	.08 .37 .21
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	1973	4- 7-75 8- 1-75	61.5 44
Holly Swamp 0213412825	Raft Swamp	Lat 34°39'58", long 79°06'42", Robeson County, at culvert on Secondary Road 1513, 1.3 miles northwest of Lowe, and 2.6 miles upstream from mouth.	a5.4		2-14-75 8- 1-75	3.65 13.8

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Pee Dee River basin--Continued						
Lumber River 02134177	Little Pee Dee River	Lat 34°36'35", long 79°00'30", Robeson County, at bridge on Secondary Road 2289, 0.5 mile south of Lumberton, and 2 miles upstream from Jacob Swamp.	a710	1968-69, 1973-74	10-23-74	516
Marsh Swamp 0213429320	Big Swamp	Lat 34°47'36", long 78°58'08", Robeson County, at bridge on Secondary Road 1916, 1.1 miles southeast of St. Pauls, and 5.6 miles upstream from mouth.	a51	1974	10-23-74	20.6
Marsh Swamp 02134297	Big Swamp	Lat 34°46'55", long 78°55'22", Robeson County, at bridge on Secondary Road 1924, 2.8 miles upstream from mouth, and 5.5 miles southeast of Oakland.	a58	1973-74	1023-74	31.3
Dunn Marsh Swamp 0213433270	Little Marsh Swamp	Lat 34°53'40", long 79°00'51", Robeson County, at culvert on Secondary Road 1725, 0.6 mile south of Parkton, and 1.7 miles upstream from mouth.	a2.9		2-14-75	2.57
Little Marsh Swamp 02134338	Galberry Swamp	Lat 34°51'48", long 78°58'33", Robeson County, at bridge on U.S. Highway 301, 3.2 miles southeast of Parkton, and 7.5 miles upstream from mouth.	a36	1959-60, 1962, 1968, 1974	4- 7-75	80.0
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, 1973	10-24-74 2-18-75 4- 9-75	1.76 21.8 23.4
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.	a27.6	1973	2-18-75 4- 9-75	26.2 31.2
Ashpole Swamp 0213451925	Lumber River	Lat 34°36'43", long 79°15'29", Robeson County, at bridge on State Highway 710, 0.5 mile upstream from unnamed tributary, and 0.9 mile westsouthwest of Elrod.	a2.0	1974	10-18-74 2-13-75 4- 7-75	.19 2.14 2.14
Old Field Swamp tributary No. 2 02134574	Old Field Swamp	Lat 34°30'55", long 79°06'30", Robeson County, upstream from Butcher Pen waste outfall, 0.2 mile upstream from mouth, and 0.5 mile east of Fairmont.	Indeterminate	1974	10-23-74	0
Lumber River tributary No. 7 0213462095	Lumber River	Lat 34°19'01", long 79°02'33", Robeson County, at Fair Bluff waste treatment plant, and 0.4 mile northwest of Fair Bluff.	Indeterminate	1974	10-23-74	0
Lumber River 02134623	Little Pee Dee River	Lat 34°18'50", long 79°02'30", Columbus County, at bridge on State Highway 904, at Fair Bluff, and 1.4 miles downstream from Porter Swamp.	a1,550	1959, 1962, 1968, 1974	10-23-74 7-23-75	661 4,560
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, 1970-74	10-16-74 11- 6-74 2-13-75 3-12-75 5-29-75 8-15-75	52.3 *13.9 30.4 30.5 39.1 *14.5
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	1970-73	3- 6-75	3.89
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	1971-73	3- 6-75	81.4
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, 1970-73	3- 6-75	*34.8

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Santee River basin--Continued						
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	1970-73	10-16-74	53.7
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, 1972-73	10-16-74	158
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	1970-73	10-17-74	1.80
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, 1972-73	3- 6-75	*1.63
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, 1970-73	2- 6-75	*248
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, 1970-73	10-17-74	51.0
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, 1970-73	10-17-74	37.4
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, 1972-73	10-17-74	3.03
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	1970-73	10-17-74	7.26
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	1970-73	10-17-74	107
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	1970-74	10-30-74 4-24-75 8-15-75	*6.03 *7.95 *3.26
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 1.6 miles west of Morganton	62.2	1955, 1970-73	10-30-74	*56.4
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, 1970-74	10-21-74 1-30-75 6-24-75	2,430 1,430 519
Hunting Creek 02139801	Catawba River	Lat 35°45'35", long 81°39'19", Burke County, at bridge on Secondary Road 1512, 2.1 miles northeast of Morganton, and 2.2 miles upstream from mouth.	23.5	1970-73	10-30-74	*25.6
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	1970-73	10-30-74	*22.9
Johns River 0213997350	Catawba River	Lat 35°58'50", long 81°40'56", Caldwell County, 0.1 mile downstream from Hopewell Branch, 0.7 mile upstream from Secondary Road 1356, and 3.8 miles north of Collettsville.	a49	1973-74	10-21-74 1-16-75 4-24-75	*72.0 122 *87.8
Johns River 02140991	Catawba River	Lat 35°50'01", long 81°42'43", Burke County, at bridge on Secondary Road 1438, 0.2 mile downstream from Sims Branch, and 0.8 mile northeast of Arneys Store.	202	1974	10-21-74 6-24-75	248 460

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Santee River basin--Continued						
Lower Creek 02141148	Catawba River	Lat 35°54'26", long 81°31'45", Caldwell County, at bridge on U.S. Highway 321A, 0.1 mile upstream from Zacks Fork Creek, and 0.8 mile southeast of courthouse at Lenoir.	a13	1971-73	10-21-74 11- 2-74 1-30-75 2-19-75 4- 1-75 4-24-75 8-27-75	*11.0 *10.5 18.1 27.7 52.8 *21.7 11.8
Lower Creek 02141245	Catawba River	Lat 35°49'31", long 81°38'10", Burke County, at bridge on Secondary Road 1501, 0.8 mile downstream from Husband Creek, and 7 miles northeast of Morganton.	86.6	1949-50, 1964-69, 1972-73	10-21-74 1-30-75 6-24-75 7-22-75	82.0 128 130 *99.4
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	1970-74	10-31-74	*2.24
Howard Creek 02141334	Catawba River	Lat 35°46'26", long 81°34'56", Burke County, at bridge on Secondary Road 1512, 0.3 mile downstream from Secrets Creek, and 6.3 miles northeast of Morganton.	5.05	1970-74	10-31-74	*4.69
McGaillard Creek 02141355	Catawba River	Lat 35°44'52", long 81°35'08", Burke County, at culvert on U.S. Highway 64 and 70, 0.9 mile upstream from Dye Creek, and 1.2 miles west of Valdese.	a2.4	1970-74	10-30-74	*2.94
McGaillard Creek 02141424	Catawba River	Lat 35°45'48", long 81°34'12", Burke County, at bridge on Secondary Road 1538, 0.9 mile north of Valdese, and 1.9 miles upstream from mouth.	7.36	1970-74	10-31-74	*8.80
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	197 -74	10-31-74	*4.85
Hoyle Creek 02141456	Catawba River	Lat 35°45'42", long 81°32'58", Burke County, at bridge on Secondary Road 1546, 1.5 mile upstream from mouth, and 1.6 miles northeast of Valdese.	a5.6	1970-74	10-31-74	*2.93
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	1970-74	10-10-74	.66
Torrence Creek 02142658	McDowells 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	1969-73	10-10-74	1.12
McDowells Creek 02142660	Catawba River	Lat 35°23'22", long 80°55'16", Mecklenburg County, at bridge on Beatties Ford Road, 2.1 miles downstream from Torrence Creek, and 11.2 miles north of Charlotte.	26.3	1955-70, 1972-74	10-18-74	5.84
Armstrong Branch 02142687	Dillinger Branch	Lat 35°26'14", long 81°07'42", Lincoln County, at culvert on Secondary Road 1358, 0.9 mile upstream from mouth, and 7.6 miles east of Lincolnton.	a.6	1970-72	1- 7-75	1.64
Leepers Creek 02142689	Dutchmans Creek	Lat 35°26'34", long 81°16'18", Lincoln County, at bridge on Secondary Road 1360, 0.8 mile downstream from Dillinger Branch, and 2.9 miles east of Iron Station.	a23	1962, 1970-72	1- 7-75	45.0
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	1970-73	10- 4-74	*.08
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	1970-73	10-11-74	*.27
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	1969-74	10-10-74	.80

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Santee River basin--Continued						
McIntyre Creek 02142888	Long Creek	Lat 35°19'08", long 80°51'54", Mecklenburg County, at bridge on Beatties Ford Road, 3.3 miles upstream from mouth, and 4.3 miles northwest of Derita.	2.04	1969-74	10-10-74	0.37
McIntyre Creek 02142889	Long Creek	Lat 35°19'41", long 80°53'48", Mecklenburg County, at bridge on Secondary Road 2025, 0.8 mile upstream from mouth, and 5 miles north of Charlotte.	a4.4	1969-74	10-10-74	.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	1969-74	10-10-74	.48
Gum Branch 02142914	Long Creek	Lat 35°17'57", long 80°56'48", Mecklenburg County, at bridge on Secondary Road 1775, 0.6 mile upstream from mouth, and 1.7 miles northwest of Thrift.	5.39	1957, 1962, 1969-74	10-10-74	.64
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, 1969-74	10-18-74	5.50
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	1969-73	10-21-74	2.64
South Fork Catawba River 02143069	Catawba River	Lat 35°37'58", long 81°18'20", Catawba County, at bridge on State Highway 10, 1 mile downstream from Henry Fork, and 2.2 miles west of Startown.	a210	1974	11- 2-74 1-30-75 3-19-75 9-16-75	*153 370 3,510 199
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	1970-73	1- 7-75	78.1
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, 1973	1- 7-75	93.3
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	1- 7-75	115
South Fork Catawba River 02143284	Catawba River	Lat 35°27'35", long 81°15'37", Lincoln County, at bridge on Secondary Road 1222, at Lincolnton, and 3.2 miles downstream from Clark Creek.	392	1970-72	10-19-74	306
Boger Branch 02143309	South Fork Catawba River	Lat 35°28'02", long 81°14'21", Lincoln County, at culvert on Secondary Roads 1520 and 1262, at Lincolnton.	a.7	1970-72	1- 7-75	.91
Lithia Inn Branch 02143310	South Fork Catawba River	Lat 35°27-50", long 81°13'20", Lincoln County, at culvert on Secondary Road 1262, 2 miles east of Lincolnton, and 2.5 miles upstream from mouth.	a1.0	1970-72	1- 7-75	1.60
Hoyle Creek 02143757	South Fork Catawba River	Lat 35°27'34", long 81°11'12", Lincoln County, at bridge on Secondary Road 1321, 1.3 miles downstream from Seaboard Air Line Railroad, and 2 miles southeast of Iron Station.	a2.0	1970-72	10-24-74	.20
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	1970-73	3- 5-73	.30
Mauney Creek 02143844	Hoyle Creek	Lat 35°21'20", long 81°07'00", Gaston County, at bridge on Secondary Road 1823, 1.2 miles west of Stanley, and 1.5 miles upstream from mouth.	a2.7	1970-73	3- 5-75	3.24

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Santee River basin--Continued						
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	1970-73	3- 5-75	29.6
South Fork Catawba River 02143908	Catawba River	Lat 35°19'50", long 81°08'00", Gaston County, at bridge on State Highway 275, 0.1 mile downstream from Hoyle Creek, and 3 miles southwest of Stanley.	a560	1970-72, 1974	10-18-74 1-17-75 3-19-75 8-21-75	545 989 5,410 *638
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	1970-73	3- 6-75	1.86
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	1970-74	3- 5-75	30.5
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	1970-73	3- 5-75	32.6
Long Creek 02144636	South Fork Catawba River	Lat 35°18'00", long 81°09'40", Gaston County, at bridge on Secondary Road 2264, 1.2 miles southeast of Dallas, and 3 miles upstream from mouth.	a48	1970-71, 1974	3- 5-75	38.8
Dillard Creek tributary 02144644	Dillard Creek	Lat 35°17'54", long 81°07'44", Gaston County, near dirt road (off Duff Street) upstream from sewage outfall, and 1.2 miles north of Ranlo.	a.3	1970-73	3- 6-75	.22
Dillard Creek tributary 02144645	Dillard Creek	Lat 35°17'49", long 81°07'45", Gaston County, 0.1 mile downstream from sewage effluent outfall 0.4 mile upstream from mouth, and 1.3 miles upstream from mouth, and 1.3 miles north of Ranlo.	a.3	1970-73	3- 6-75	.28
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	1970-73	3- 5-75	5.32
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	1970-73	3- 5-75	5.81
Long Creek 02144761	South Fork Catawba River	Lat 35°18'30", long 81°07'00", Gaston County, at bridge on Secondary Road 2003, 0.2 mile upstream from mouth, and 0.5 mile west of Spencer Mountain.	a61	1970-74	3- 6-75	61.3
Housers Creek 0214483966	South Fork Catawba River	Lat 35°16'52", long 81°07'09", Gaston County, 150 ft downstream from sand filters at Burlington Industries waste treatment plant, 0.9 mile east of Ranlo, and 1.4 miles upstream from mouth.	a.5	1970-72, 1974	3- 6-75	.08
Housers Creek tributary 0214483988	Housers Creek	Lat 35°16'45", long 81°06'53", Gaston County, downstream from effluent discharge from Cocker Machine and Foundry waste treatment plant, 0.1 mile upstream from mouth, and 1.1 miles east of Ranlo.	a.6	1970-74	3- 6-75	.15
Housers Creek 02144841	South Fork Catawba River	Lat 35°17'00", long 81°06'20", Gaston County, at bridge on Secondary Road 2201, 0.5 mile upstream from mouth, and 0.8 mile north of Lowell.	a1.4	1970-72, 1974	3- 6-75	1.93
South Fork Catawba River 02145112	Catawba River	Lat 35°15'35", long 81°04'28", Gaston County, at bridge on State Highway 7, 0.3 mile northeast of McAdenville, and 3.1 miles downstream from Housers Creek.	a630	1970-71	10-10-74	341

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Santee River basin--Continued						
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	1970-73	10-10-74	*2.47
Catawba Creek 0214549995	Catawba River	Lat 35°14'57", long 81°11'24", Gaston County, at bridge on U.S. Highway 321, 0.9 mile south of Gastonia, and 2.1 miles upstream from confluence of Anthony Creek.	a1.2	1974	10-18-74 1-17-75 3-19-75 4-24-75 5-21-75 7- 1-75 8-21-75 9-16-75	.73 .80 2.83 .79 .89 .80 .75 1.07
Catawba Creek 02145509	Catawba River	Lat 35°13'48", long 81°08'02", Gaston County, at bridge on Secondary Road 2446, 0.9 mile downstream from Anthony Creek, and 4 miles southeast of Gastonia.	a9.8	1969-72, 1974	3- 7-75	8.50
Catawba Creek 02145512	Catawba River	Lat 35°12'31", long 81°06'28", Gaston County, at bridge on Secondary Road 2439, 3 miles east of Boogertown, and 6 miles upstream from mouth.	17.4	1969-72, 1974	10-10-74 3- 7-75	*22.8 21.3
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	1970-73	3- 7-75	.36
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	1970-73	3- 7-75	3.03
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	1970-74	1-17-75 3-19-75 7- 1-75 8-21-75 9-16-75	11.7 34.7 8.05 7.59 8.62
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	1970-73	10-29-74 3- 7-75	.20 .33
Crowders Creek 02145633	Catawba River	Lat 35°09'31", long 81°10'49", Gaston County, at bridge on Secondary Road 2424, 0.8 mile upstream from State line, 1.5 miles downstream from South Fork, and 7.2 miles south of Gastonia.	a80	1970-74	1-17-74 3-19-75 8-21-75	115 462 59.8
Crowders Creek 02145640	Catawba River	Lat 35°08'15", long 81°08'15", York County, S.C., at bridge on Ridge Road, 3.4 miles upstream from Beaver Dam Creek, and 3.2 miles eastsoutheast of Bowling Green, S. C.	a96	1970-74	10-18-74 11- 5-74 7- 1-75 8-21-75 9-16-75	50.4 47.0 68.3 66.2 84.4
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	1969-74	5-15-75 7-24-75 8-20-75	3.78 3.20 1.96
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 Courhouse in Charlotte.	2.27	1969-73	10-22-74	.91
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	1969-73	10-22-74	13.3
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	1969-73	10-22-74	68.5
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, 1969-73	10-22-74	3.72

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		Santee River basin--Continued				
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	1969-73	10-22-74	56.5
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	1969-73	10-22-74	69.6
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	1969-74	10-22-74 5-21-75 8-21-75	29.8 102 41.9
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	1969-74	5-15-75 7-24-75 8-20-75	15.3 6.21 4.81
Little Sugar Creek 02146538	Sugar Creek	Lat 35°04'40", long 80°53'10", Mecklenburg County, at bridge on U.S. Highway 521, 0.5 mile southeast of Pineville, and 3.5 miles upstream from mouth.	49.3	1969-74	10-17-74 5-21-75 7-25-75 8-20-75	27.7 55.6 387 33.3
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	1969-74	5-16-75 7-24-75 8-20-75	70.7 3.33 1.35
Campbell Creek 02146563	McAlpine Creek	Lat 35°09'50", long 80°44'20", Mecklenburg County, at culvert on Secondary Road 3156, 0.5 mile upstream from mouth, and 5.3 miles west of Mint Hill.	a7.1	1969-74	10-17-74	2.18
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	1969-74	10-29-74	2.98
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, 1969-74	10-17-74	6.42
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	1969-73	10-17-74	10.7
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	1969-73	10-29-74	*2.82
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	1972-74	10-11-74	*.18
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, 1969-73	10-31-74	*1.20
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, 1969-74	5-15-75 7-24-75 7-25-75 8-20-75	60.6 47.8 1,520 33.3
Steel Creek 02146782	Sugar Creek	Lat 35°05'54", long 80°57'21", Mecklenburg County, at bridge on Secondary Road 1124, 0.3 mile upstream from Walker Branch, and 4 miles west of Pineville.	a7.5	1969-73	10-17-74	1.42

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s^3
Santee River basin--Continued						
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	1969-73	10-17-74	0.13
Sixmile Creek 02146858	Catawba River	Lat 35°00'40", long 80°49'40", Mecklenburg County, at bridge on Secondary Road 3635, 2 miles downstream from Flat Branch, and 6.2 miles southeast of Pineville.	a21	1974	10-12-74 12-19-74 3- 7-75 4-23-75 6-10-75 9-19-75	*.45 11.0 11.5 7.57 5.86 5.89
Twelvemile Creek 0214690555	Catawba River	Lat 34°56'40", long 80°46'20", Union County, at bridge on Secondary Road 1301, 2.2 miles northwest of Waxhaw, and 3 miles upstream from confluence of Sixmile Creek.	a76	1974	10-12-74 3- 7-75 4-23-75 6-10-75 9-19-75	2.56 38.3 35.3 20.3 37.1
Rhone Branch 02146926	Twelvemile 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	1972-73	3- 7-75	1.12
Waxhaw Creek 02147126	Catawba River	Lat 34°50'12", long 80°47'31", Union County, at bridge on Secondary Road 1103, 6 miles upstream from mouth, and 6.5 miles south of Waxhaw.	a37	1957, 1961-62, 1974	3- 7-75 4-23-75 6-10-75 9-19-75	20.0 15.0 7.18 28.1
Broad River 02148332	Santee River	Lat 35°29'42", long 82°16'25", Buncombe County, at bridge on Secondary Road 2802, downstream From Flat Creek, and 3.1 miles north of Bat Cave.	33.6	1959, 1974	10-31-74 12-17-74 2-11-75 4- 9-75 6- 6-75 8-15-75	*56.3 53.6 *80.5 *118 *106 *53.7
Broad River 02148751	Santee River	Lat 35°25'27", long 82°09'56", Rutherford County, at bridge on U.S. Highway 74, 0.2 mile west of Uree, and 2.8 miles downstream from Cane Creek.	a100	1970-71, 1973-74	10-31-74 12-17-74 2-11-75 5-13-75 7-22-75 8-15-75	*40.5 310 158 368 169 36.9
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 miles upstream from mouth.	a1.1	1959, 1964, 1970-73	10-18-74 3-12-75	.99 2.30
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	1970-73	10-18-74 3-11-75	8.25 16.0
Green River 02149397	Broad River	Lat 35°12'52", long 82°26'31", Henderson County, at bridge on U.S. Highway 25, 0.1 mile downstream from Vernon Creek, and 1.1 miles southeast of Tuxedo.	33.4	1959, 1964, 1974	10-31-74 2-12-75 4- 8-75 5-13-75 7-21-75 8-14-75	*44.7 144 *183 139 86.2 53.8
Pulliam Creek 02149540	Green River	Lat 35°16'54", long 82°20'15", Polk County, on right bank at end of foot trail, 135 ft upstream from mouth, 1 mile downstream from bridge on Secondary Road 1154, and 7.5 miles northwest of Tryon.	2.27	1972-75	10- 8-74 10-31-74 12-18-74 1-14-75 2-11-75 4- 9-75 5-14-75 6- 6-75 8-14-75	*2.53 2.29 2.94 5.66 4.04 7.79 5.23 5.72 4.30
Camp Creek 02149612	Green River	Lat 35°15'30", long 82°22'14", Henderson County, at bridge on Secondary Road 1006, 1.2 mile north of Saluda, and 1.7 miles upstream from mouth.	a4.1	1970-73	3-12-75	1.05
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	1970-73	3-12-75	3.54

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Santee River basin--Continued						
Silver Creek 02149716	Green River	Lat 35°18'35", long 82°12'10", Polk County, at Secondary Road 1138, 1.6 miles upstream from mouth, and 2.4 miles west-northwest of Mill Spring.	a1.2		9-19-75	4.18
Whiteoak Creek tributary 02150020	Whiteoak 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 Whiteoak Creek.	a2.2	1970-73	3-12-75	3.10
Whiteoak Creek tributary 02150022	Whiteoak 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	1970-73	10-18-74 3-12-75	2.74 8.48
South Branch 02150034	Whiteoak 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 Springs, and 3.5 miles upstream from mouth.	a1.1	1970-73	10-11-74	*.34
South Branch 02150035	Whiteoak Creek	Lat 35°17'43", long 82°09'52", Polk County, at culvert on State Highway 108, 0.2 mile southwest of Mill Springs, and 3.4 miles upstream from mouth.	a1.1	1970-73	10-11-74	*.63
Broad River 0215027770	Santee River	Lat 35°13'00", long 81°46'45", Rutherford County, at bridge on U.S. Highway 221A, 1.2 miles upstream from confluence of Second Broad River, and 1.5 miles southwest of Cliffside.	a624	1974	6-30-75	1,220
Second Broad River 02150321	Broad River	Lat 35°30'57", long 81°58'19", Rutherford County, at Thermal City, and 2 miles downstream from Bakers Creek.	a26	1974	10-31-74 12-16-74 3-13-75 5-13-75 6- 5-75 7-22-75 8-15-75	*25.4 41.9 252 49.0 *57.8 *36.3 28.2
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, 1973	10-17-74	93.6
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 Holland Creek.	a25	1970-73	10-17-74	23.4
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	1970-73	10-17-74	.47
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	1970-73	10-17-74	2.48
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	1970-73	10-11-74	*1.38
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 Holland Creek, and 3 miles northeast of Spindale.	a43	1970-71, 1973	10-11-74 3-11-75	*34.0 53.0
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, 1973	10-11-74 3-11-75	*39.3 55.7
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, 1973	10-17-74 3-11-75	176 232

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Santee River basin--Continued						
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	1970-73	10-17-74 3-11-75	165 220
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	1970-73	3-11-75	1.06
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	1970-73	3-11-75	3.14
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, 1972-73	3-11-75	288
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	1970-73	3-11-75	283
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	1970-73	10-11-74 3-11-75	172 407
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, 1970-73	10-11-74	*163
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	1970-73	10-11-74	*.14
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	1970-73	10-11-74	*192
Brushy Creek 02152546	First Broad River	Lat 35°19'40", long 81°35'38", Cleveland County, at bridge on Secondary Road 1342, 0.8 mile downstream from Little Creek, and 2 miles east of Washburn.	20.1	1970-74	11- 1-74 1-20-75 6-30-75 8-19-75 9- 9-75	*14.6 45.0 29.9 17.9 19.5
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, 1970-74	11- 1-74 1-20-75 4-17-75 6-30-75 8-19-75 9- 9-75	*18.4 52.9 40.5 37.0 23.7 23.4
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	1970-73	10-11-74	*191
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	1968-74	11- 5-74 1-20-75 8-19-75	214 473 234
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	1970-73	10-11-74	*1.07
Buffalo Creek tributary 02153401	Buffalo Creek	Lat 35°11'29", long 81°30'22", Cleveland County, at bridge on Secondary Road 2212, 0.3 mile upstream from mouth, and 1.6 miles southeast of Earl.	a3	1970-72 1974	10-10-74	*1.60

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Atlantic Slope basins--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Santee River basin--Continued						
Buffalo Creek 02153403	Broad River	Lat 35°11'20", long 81°30'20", Cleveland County, at bridge on Secondary Road 2226, 1.8 miles east of Earl, and 2.5 miles downstream from Benson Creek.	a160	1959-60, 1964, 1970-72, 1974	10-10-74	*89.0
Lick Branch 02153431	Buffalo Creek	Lat 35°10'37", long 81°30'01", Cleveland County, at bridge on Secondary Road 2227, 0.7 mile upstream from mouth, and 2.9 miles west of Grover.	a3.3	1970-72, 1974	10-10-74	*2.12
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	1968-74	10-18-74 11- 1-74 1-20-75 7- 1-75 8-19-75	84.8 *77.9 280 146 113
North Pacolet River 02153872	Pacolet River	Lat 35°13'19", long 82°19'24", Polk County, at second bridge on U.S. Highway 176, 0.5 mile downstream from Bear Creek, and 2.6 miles southeast of Saluda.	a7.8	1970-71, 1973-74	11- 1-74 2-12-75 4- 8-75 5-13-75 6- 5-75 7-21-75 8-14-75	*12.3 30.1 *45.6 29.8 *30.0 23.3 *17.1
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, 1973	10-18-74	25.2
South Pacolet River tributary 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.	a1.5	1970-71, 1973	10-18-74	1.44
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, 1973	10-18-74 3-12-75	26.7 60.7
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, 1973	10-18-74	5.83
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, 1973	10-18-74	6.44
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	1968-74	11- 1-74 2-12-75 4- 8-75 5-13-75 6- 5-75 7-21-75 8-14-75	*43.8 114 *142 99.9 *96.1 *84.7 61.5

Discharge measurements made at miscellaneous sites during water year 1975, 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, 1973	1-16-75	7.01
South Fork New River 03160271	New River	Lat 36°13'14", long 81°38'25", Watauga County, at bridge on U.S. Highway 421, and 2 miles east of Boone.	421	1925, 1955-56, 1960, 1962, 1974	10-21-74 1-16-75 8-11-75 8-14-75 9-16-75	58.6 118 48.0 41.6 31.1
Naked Creek 03161018	South Fork New River	Lat 36°25'13", long 81°28'29", Ashe County, at bridge on State Highway 88, 0.5 mile east of Jefferson, and 4 miles upstream from mouth.	1.88	1971, 1973-74	12-10-74	6.36

a Approximately.

Discharge measurementa made at miscellaneous sites during water year 1975, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Kanawha River basin--Continued						
Naked Creek 03161035	South Fork New River	Lat 36°24'34", long 81°25'09", Ashe County, at bridge on Secondary Road 1585, 100 ft upstream from Little Naked Creek, and 3 miles southeast of Jefferson.	a4.4	1971, 1973-74	12-10-74	18.2
Dog Creek 03161052	South Fork New River	Lat 36°26'22", long 81°24'22", Ashe County, at bridge on Secondary Road 1579, 1.1 miles southwest of Nathans Creek, and 1.5 miles upstream from mouth.	a1.2	1971, 1973-74	12-10-74	3.55
South Fork New River 03161361	New River	Lat 36°28'15", long 81°20'14", Ashe County, downstream from Cranberry Creek, 1.2 miles downstream from Nathans Creek, and 2 miles southwest of Scottville.	294	1974	10- 5-74 10-21-74 8-15-75 9-16-75	444 481 360 291
North Fork New River 03161880	New River	Lat 36°25'18", long 81°37'15", Ashe County, at bridge on Secondary Road 1100, at Creston, and downstream from Three Top Creek.	a63	1949-56, 1960, 1962, 1974	10-21-74 1-14-75 8-11-75 9-16-75	85.2 209 49.6 43.0
North Fork New River 03162500	New River	Lat 36°30'13", long 81°26'40", Ashe County, 0.2 mile downstream from bridge on State Highway 16 at Crumpler, and 6 miles upstream from South Fork.	277	1974	10- 5-74 1-14-75 4- 2-75 8-14-75 9-16-75	235 826 1,250 169 130
New River 03162850	Kanawha River	Lat 36°33'08", long 81°11'00", Alleghany County, at bridge on Secondary Road 1345, 0.8 mile downstream from Rock Creek, and 1.3 miles north-northeast of Amelia.	820	1968-69, 1971-74	1-16-75 9-17-75	2,160 700
Little River 03162852	New River	Lat 36°27'35", long 81°10'04", Alleghany County, at bridge on Secondary Road 1140, 0.6 mile downstream from confluence of Cheek Branch, and 1 mile southwest of Whitehead.	4.8	1974	10- 5-74 1-16-75 8-15-75 9-17-75	7.70 9.75 7.26 6.96
Little River 03162951	New River	Lat 36°32'33", long 81°01'15", Alleghany County, at bridge on State Highway 18, 1 mile downstream from Brush Creek, and 0.5 mile west of Blevins Crossroads.	a110	1974	10- 5-74 1-16-75 8-15-75 9-17-75	122 211 131 122
Tennessee River basin						
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	1968-74	3- 6-75	1.58
Galloway Creek 03439474	French Broad River	Lat 35°09'00", long 82°48'30", Translyvania County, at culvert below American Thread Company plant, 0.2 mile upstream from mouth, and 0.5 mile south of Calvert.	.64	1968-74	3- 6-75	2.15
King Creek 03440272	French Broad River	Lat 35°14'22", long 82°43'49", Translyvania County, at culvert on U.S. Highway 64, at Brevard, and 1.3 miles upstream from mouth.	.37	1968-69, 1971-74	3- 6-75	11.1
King Creek 03440276	French Broad River	Lat 35°14'04", long 82°43'13", Translyvania County, at bridge on Secondary Road 1546, 0.6 mile upstream from mouth, and 0.8 mile east of Brevard.	4.17	1968-69, 1971-74	3- 6-75	13.6
Davidson River 0344033010	French Broad River	Lat 35°17'07", long 82°49'47", Transylvania County, 0.3 mile upstream from confluence of Laurel Fork, and 4.5 miles northeast of Balsam Grove.	4.68	1974	3-27-75 7-22-75	40.5 *4.96
Davidson River 03441141	French Broad River	Lat 35°15'18", long 82°41'53", Translyvania County, at bridge on Secondary Road 1533, 0.2 mile northeast of Pisgah Forest.	47.2	1968-74	3- 6-75	178
Mills River 0344660989	French Broad River	Lat 35°23'29", long 82°34'06", Henderson County, at bridge on State Highways 191 and 280, 0.2 mile north of Mills River, and 2.4 miles upstream from mouth.	70.5	1974	2-27-75 7-22-75	383 *111

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Tennessee River basin--Continued						
Pinner Creek tributary 0344745449	Pinner Creek	Lat 35°26'58", long 83°30'00", Buncombe County, 250 ft upstream from mouth, and at Oak Park.	0.4	1974	2-27-75 8- 1-75	1.18 .61
Pinner Creek 0344745950	Cane Creek	Lat 35°26'22", long 82°29'31", Henderson County, 0.2 mile upstream from mouth, and 1 mile northeast of Fletcher.	a2.0	1974	2-27-75 8- 1-75	3.27 2.25
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, 1972-74	3-11-75	21.8
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 mile southwest of Jugtown.	.68	1970-74	10-22-74 3-12-75	.42 .69
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	1970-74	10-22-74 3-22-75	.62 .84
Moore Creek 03448588	Hominy Creek	Lat 35°32'88", long 82°39'08", Buncombe County, at bridge on Secondary Road 1241, 0.2 mile upstream from mouth, and 0.1 mile north of Enka.	a2.8	1974	10-22-74 3-12-75	*1.45 3.20
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, and 3.3 miles east of Candler.	91.1	1968-74	10-22-74 3-12-75 8- 1-75	57.0 188 61.8
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 Highway 40.	104	1972-74	10-22-74 3-12-75	61.2 183
Swannanoa River 03448910	French Broad River	Lat 35°36'11", long 82°21'55", Buncombe County, at bridge on U.S. Highway 70, at Grovestone, 0.2 mile upstream from North Fork, and 1.8 miles northeast of Swannanoa.	21.2	1944, 1953-55, 1958-60, 1973-74	3-11-75	48.0
North Fork Swannanoa River 03449000	Swannanoa River	Lat 35°39'11", long 82°21'04", Buncombe County, 0.1 mile downstream from Walker Branch, and 3 miles northwest of Black Mountain.	23.8	1973-74	3-11-75	53.7
Swannanoa River 03449500	French Broad River	Lat 35°36'11", long 82°23'42", Buncombe County, 1,000 ft upstream from bridge at Swannanoa, and 1.5 miles downstream from North Fork.	58.8	1926-31, 1973-74	3-11-75	119
Swannanoa River 03450500	French Broad River	Lat 35°34'54", long 82°27'55", Buncombe County, at Azalea, and 150 ft downstream from Christian Creek.	102	1973-74	3-11-75	177
Lee Creek 03451644	French Broad River	Lat 35°36'52", long 82°37'41", Buncombe County, at culvert on Secondary Road 1369, 4.1 miles upstream from mouth, and 4.6 miles northeast of Enka.	.84	1970-74	3-11-75	88
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	1970-74	3-11-75	1.72
Lee Creek 03451648	French Broad River	Lat 35°37'58", long 82°37'14", Buncombe County, at bridge on Secondary Road 1002, 1.5 miles southwest of Elk Mountain, 2.6 miles upstream from mouth.	a2.2	1970-74	3-11-75	2.97
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	1968-74	3- 6-75 7-30-75	33.4 8.66
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, 1968-74	3- 6-75 7-30-75 8- 4-75	39.9 9.25 9.90

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Tennessee River basin--Continued						
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	1968-74	3-11-75	5.46
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	1968-73	3-11-75	2.78
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	1968-73	3-11-75	4.10
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	1968-74	3-11-75	12.5
Paw Paw Creek 03453632	French Broad River	Lat 35°48'08", long 82°44'50", Madison County, at bridge on Secondary Road 1155, 1.2 miles upstream from mouth, and 3.6 miles west of Marshall.	3.69		3- 6-75 4- 9-75 8-28-75	3.89 4.70 1.22
French Broad River 03454512	Tennessee River	Lat 35°53'41", long 82°49'23", Madison County, at bridge on U.S. Highway 25 at Hot Springs, and 0.2 mile downstream from Silver Mine Creek.	1,565	1968, 1974	7-28-75	*2,370
Pigeon River 03457124	French Broad River	Lat 35°32'06", long 82°54'40", Haywood County, at bridge on Secondary Road 1818, at Clyde, and 0.2 mile downstream from Chambers Branch.	162	1969-74	3-12-75 7-21-75	555 194
Pigeon River 03457138	French Broad River	Lat 35°32'55", long 82°56'21", Haywood County, at bridge on connecting Secondary Road 1513, and 1519, and 0.5 mile upstream from Richland Creek, 2 miles northeast of Lake Junaluska Dam, and at mile 55.5	167	1969-74	3-12-75 7-21-75	613 193
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	1968-74	3-12-75	61.1
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	1972-73	3-12-75	82.8
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	1969-73	7-21-75	85.4
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	1968-74	3-12-75 7-21-75	874 295
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	1969-74	7-30-75	187
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, 1973-74	7-30-75	614
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, 1971-74	3- 5-75	26.7
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	1969-73	3-19-75	142

a Approximately.

Discharge measurements made at miscellaneous sites during water year 1975, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Tennessee River basin--Continued						
North Toe River 03461951	Nolichucky River	Lat 36°03'30", long 82°01'08", Avery County, at bridge on U.S. Highway 19E, 0.3 mile upstream from Powder Mill Creek, 0.8 mile southwest of Frank, and at mile 58.5	50.5	1969-72, 1974	3-20-75	370
North Toe River tributary 0346197595	North Toe River	Lat 35°38'54", long 82°00'48", Avery County, 0.2 mile upstream from mouth, and 0.8 mile northwest of Ingalls.	Indeterminate	1972-74	3-19-75	8.0
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	1972-73	3-19-75	37.8
Three Mile Creek 0346197760	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	1972-73	3-19-75	44.3
Brushy Creek 03461979	North Toe River	Lat 35°57'23", long 81°58'23", Avery County, 2.1 Miles upstream from mouth, and 2.4 miles southeast of Ingalls.	1.2	1969-72, 1974	3-19-75	7.38
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	1969-73	10-17-74	190
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	1969-73	10-17-74	10.9
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	1969-73	10-17-74	14.6
North Toe River 03462855	Nolichucky River	Lat 35°54'52", long 82°04'03", Mitchell County, at Spruce Pine, 0.1 mile downstream from Beaver Creek, and 0.5 mile upstream from English Creek.	130	1969-70, 1972-74	10-17-74	238
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, 1972-74	10-17-74	231
North Toe River 03463786	Nolichucky	Lat 36°01'35", long 82°19'16", Mitchell County, at bridge on State Highway 26, at Huntdale, and 0.5 mile upstream from Cane River.	442	1968-74	3- 4-75 7-29-75	986 *379
Cane River 0346378850	North Toe River	Lat 35°49'47", long 82°19'05", Yancey County, at bridge on State Highway 197, 100 ft downstream from confluence of Haney Creek, and 0.1 mile west of Murchison.	a25	1974	3- 4-75 7-31-75	68.1 *26.7
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	1969-73	3- 5-75 8-15-75	123 28.0
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.	.39	1969-73	3- 5-75	.72
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.	.40	1969, 1971-74	3- 5-75	1.32
Cane River 03463808	Nolichucky River	Lat 35°54'38", long 82°20'53", Yancey County, at bridge on U.S. Highway 19E, 0.4 mile upstream from Roland Branch, and 2.8 miles west of Burnsville.	58.9	1960, 1971-72, 1974	3- 5-75	139
Cane River 03463925	Nolichucky River	Lat 35°55'10", long 82°23'10", Yancey County, at bridge on Secondary Road 1379, 0.4 mile downstream from Bald Creek, and 2 miles east-northeast of Bald Creek.	a110		3- 5-75	201

Discharge measurements made at miscellaneous sites during water year 1975, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Tennessee River basin--Continued						
Cane River 03463929	Nolichucky River	Lat 35°56'31", long 82°30'27", Yancey County, at bridge on Secondary Road 1381, 0.1 mile downstream from Langford Branch, and 1.3 miles south-southwest of Higgins.	a115		3- 5-75	205
Cane River 03464000	Nolochucky River	Lat 36°00'52", long 82°19'40", Yancey County, right bank on Secondary Road 1417, 1.3 miles upstream from confluence with North Toe River, and 2 miles east of Sioux.	157	‡1933-71, 1974	3- 4-75 7-29-75	315 *97.2
Nolichucky River 03464500	French Broad River	Lat 36°04'29", long 82°20'41", Mitchell County, at Poplar, and 0.7 mile upstream from Hollow Poplar Creek.	608	‡1922-55, 1962-63, 1968-72, 1974	7-29-75	*478
Watauga River 03478720	South Fork Holston River	Lat 36°09'23", long 81°46'14", Watauga County, at bridge on Secondary Road 1559, at Foscoe, and 0.1 mile downstream from Moodys Mill Creek.	10.6	1955, 1960-67, 1969, 1974	3- 5-75 7-31-75	28.2 *6.50
Lance Creek 03478751	Watauga River	Lat 36°10'15", long 81°43'00", Watauga County, at culvert on Secondary Road 1552, on Camp Yonahlossee, and 2.6 miles northwest of Blowing Rock.	.51	1950, 1971-73	3-24-75	2.78
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	1971-73	3-18-75	59.1
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, 1971-73	3-18-75	76.8
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, 1971-73	3-18-75	67.5
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, 1971-73	3-18-75	125
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, 1971-74	3- 5-75	351
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, 1973	3-19-75	30.7
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	1971-73	3-19-75	22.8
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	1971-73	3-19-75	37.1
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, 1972-74	9- 5-74	49.5
Nantahala River 03503561	Little Tennessee River	Lat 35°05'39", long 83°33'38", Macon County, at bridge on U.S. Highway 64, at Rainbow Springs, and 0.3 mile upstream from Black Creek.	24.2	1953, 1974	2-28-75 8- 1-75	260 40.6
Cheoah River 03515633	Little Tennessee River	Lat 35°20'05", long 83°48'20", Graham County, 0.1 mile upstream from Mountain Creek, and 0.9 mile north of Robbinsville.	55.3	1968-71, 1973	2-28-75 8-31-75	35.5 *23.0

a Approximately.
‡ Operated as a continuous gaging station.

Discharge measurements made at miscellaneous sites during water year 1975, in Ohio River basin--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
Tennessee River basin--Continued						
Hiwassee River 0354840250	Tennessee River	Lat 35°03'28", long 83°56'31", Clay County, at bridge on U.S. Highway 64, 1.5 miles upstream from Brasstown Creek, and 8.3 miles west of Hayesville.	a381	1974	8- 1-75	238
Valley River 0354912310	Hiwassee River	Lat 35°13'58", long 83°43'10", Chrokee County, at U.S. Highways 19 and 129, 0.1 mile upstream from confluence of Nelson Creek, and 1.6 miles southwest of Topton.	a2.3	1974	2-28-75 7-31-75	15.0 1.28

a Approximately.

SECTION 2. WATER-QUALITY RECORDS

02077200 Hyco Creek near Leasburg, N. C.

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

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

PERIOD OF RECORD.--Water temperatures: May 1964 to September 1975. Prior to October 1967, published as "North Hyco"

EXTREMES.--1974-75:
Water temperatures: Maximum, 25.0°C on several days during August; minimum, 2.0°C February 4, 5.

Period of record:
Water temperatures: Maximum, 26.5°C June 22, 1964 and on several days during June and July 1969, July 23, 24, 25, 1972; minimum, freezing point on several days during winter months in most years.

REMARKS.--Miscellaneous chemical data published for water years, 1959, 1965-67; 1959 data published as 02077202 North Hyco Creek near Leasburg.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	15.0	16.0	14.5	6.0	4.0	9.5	9.0	9.0	8.0	6.5	5.5
2	15.5	13.0	16.0	14.5	6.0	5.5	9.0	6.0	8.0	5.5	6.5	5.0
3	13.0	10.5	16.5	14.5	5.5	5.0	6.0	4.5	5.5	4.5	5.0	3.0
4	11.0	9.5	16.5	14.5	5.0	4.0	5.5	4.0	4.5	2.0	4.0	3.0
5	10.5	9.0	16.5	15.5	4.5	3.5	5.5	4.5	4.0	2.0	5.0	3.0
6	11.5	10.0	16.5	15.0	3.5	3.0	4.5	3.5	6.5	4.0	6.0	4.0
7	13.0	11.0	15.0	12.0	3.0	3.0	3.5	3.0	6.5	5.0	6.5	6.0
8	13.5	12.0	12.0	10.0	7.0	3.0	4.5	3.0	6.0	4.0	6.5	6.0
9	13.0	11.0	10.5	8.5	7.0	6.0	6.5	4.5	4.5	4.5	6.0	4.0
10	12.0	10.5	10.0	8.0	6.0	4.0	6.5	5.5	4.5	3.0	5.0	4.0
11	13.0	11.0	9.5	8.0	4.0	3.5	10.5	6.0	5.0	3.0	4.5	4.0
12	14.0	12.0	10.5	9.5	6.0	4.0	10.5	8.0	8.0	5.0	5.5	4.5
13	15.0	14.0	11.0	9.5	7.0	6.0	8.0	6.5	8.0	6.5	8.0	6.0
14	15.5	14.5	9.5	8.5	8.0	6.5	6.5	4.5	6.5	5.5	8.5	8.0
15	16.5	15.0	9.5	8.5	6.5	5.5	4.5	3.0	5.5	5.0	8.5	6.5
16	16.5	16.5	8.5	6.0	7.0	5.5	3.0	3.0	7.0	5.5	8.5	7.0
17	16.5	14.5	7.0	6.0	7.0	6.5	3.0	3.0	9.0	7.0	7.0	6.5
18	15.0	13.0	7.0	6.5	6.5	5.5	3.5	3.0	9.5	9.0	7.0	6.5
19	14.5	12.0	9.0	7.0	5.5	4.5	4.5	3.5	11.0	9.5	9.5	6.5
20	12.0	10.0	10.5	9.0	6.0	5.0	5.5	4.5	11.0	8.5	11.0	9.5
21	10.0	8.0	10.5	9.0	6.0	5.5	5.0	3.5	8.0	6.0	11.5	10.0
22	9.0	6.5	9.0	8.0	6.0	5.0	4.0	3.5	6.5	5.5	11.5	11.5
23	9.5	7.0	8.0	6.0	5.5	5.0	4.0	4.0	10.0	6.5	11.5	10.0
24	10.5	8.5	7.0	5.5	7.0	5.5	5.5	4.0	12.0	10.5	13.5	11.5
25	12.0	10.5	8.0	7.0	9.5	7.0	8.0	5.5	12.0	9.0	13.5	13.0
26	13.5	12.0	7.0	5.5	9.5	7.0	8.0	6.5	9.0	8.0	14.0	11.0
27	13.5	11.5	5.5	3.5	7.0	6.5	6.5	5.0	8.0	6.5	11.0	10.0
28	13.5	11.0	4.5	3.5	7.0	6.0	6.0	5.0	6.5	5.0	10.0	8.5
29	14.0	12.0	4.5	3.5	8.5	7.0	9.0	6.0	---	---	10.5	9.5
30	14.5	13.0	4.5	3.5	10.0	8.5	9.5	9.0	---	---	14.0	10.5
31	16.0	14.5	---	---	10.0	9.0	9.5	9.0	---	---	14.0	10.5
MONTH	17.0	6.5	16.5	3.5	10.0	3.0	10.5	3.0	12.0	2.0	14.0	3.0

02077200 Hyco Creek near Leasburg, N. C.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	11.0	15.5	15.0	22.0	21.0	22.0	20.0	24.0	23.0	22.0	22.0
2	13.5	12.0	16.5	14.5	21.0	20.0	21.0	18.5	24.0	23.0	22.0	21.5
3	14.0	13.5	16.5	16.0	21.0	20.0	21.5	20.5	24.5	23.5	23.0	21.0
4	13.5	9.5	16.5	15.5	21.0	19.5	21.5	21.0	25.0	24.5	23.5	23.0
5	10.5	8.5	16.5	15.5	22.0	20.0	21.5	20.0	25.0	24.5	23.5	21.5
6	10.0	8.5	18.5	15.5	22.0	21.0	21.5	21.0	25.0	24.0	23.5	23.5
7	10.5	8.5	18.5	17.0	22.0	21.0	21.0	21.0	24.0	21.5	23.5	22.0
8	11.5	9.0	18.0	16.0	22.0	19.5	22.0	21.0	22.0	21.5	22.0	21.0
9	13.0	10.0	18.0	16.0	20.0	18.0	22.0	20.5	21.5	21.0	22.0	21.0
10	14.0	12.0	17.0	16.0	18.5	18.5	21.5	21.0	22.0	21.5	22.0	21.5
11	14.0	12.0	18.0	15.5	18.5	18.5	21.0	21.0	23.0	22.0	22.0	21.5
12	13.0	11.0	18.0	16.5	19.0	18.5	21.0	20.5	23.0	22.0	23.0	22.0
13	13.0	10.0	18.5	17.0	20.5	19.0	21.0	20.5	23.5	22.0	22.0	20.5
14	11.5	10.5	18.5	16.5	21.0	20.0	20.5	20.0	24.0	23.5	20.5	18.0
15	11.0	10.5	18.5	16.5	21.5	20.0	20.0	20.0	24.5	23.5	18.0	15.5
16	12.0	10.5	18.0	16.5	22.0	21.0	20.0	20.0	25.0	24.0	16.5	16.5
17	12.0	11.5	18.5	18.0	22.0	21.0	20.0	20.0	25.0	24.5	18.5	16.5
18	13.0	12.0	18.5	17.0	23.5	21.5	21.5	20.0	24.5	24.0	19.0	18.5
19	15.5	13.0	18.0	17.0	24.0	22.0	22.0	21.5	24.5	24.0	20.5	19.0
20	17.0	14.5	19.0	18.0	24.0	22.0	23.0	22.0	24.0	23.0	21.5	20.5
21	16.0	13.5	20.5	19.0	24.0	21.0	23.5	22.0	23.5	23.5	21.5	21.5
22	16.0	13.5	21.5	20.5	22.0	21.0	24.0	23.5	24.0	23.0	21.5	20.0
23	17.0	15.0	21.5	21.0	22.0	20.0	24.0	23.5	24.5	23.5	20.0	18.5
24	19.0	17.0	21.5	20.5	21.5	20.0	24.5	24.0	25.0	24.0	20.0	18.5
25	19.5	18.5	21.5	20.5	22.0	20.0	24.5	24.0	25.0	24.0	20.0	20.0
26	19.5	17.0	21.5	21.0	22.0	21.5	24.0	23.0	25.0	24.0	20.0	20.0
27	19.0	16.5	21.0	20.5	22.0	21.5	23.5	21.5	25.0	24.5	20.0	19.5
28	18.0	16.5	21.0	20.0	22.0	22.0	23.5	22.0	24.5	23.0	19.5	18.0
29	18.0	17.0	21.0	20.5	22.0	21.0	24.0	23.0	23.5	21.0	18.0	16.5
30	16.5	15.5	21.0	20.0	22.0	21.0	24.0	23.5	22.0	21.0	19.0	16.5
31	---	---	22.0	21.0	---	---	24.0	23.5	22.0	21.0	---	---
MONTH	19.5	8.5	22.0	14.5	24.0	18.0	24.5	18.5	25.0	21.0	23.5	15.5
YEAR	25.0	2.0										

02077240 Double Creek near Roseville, N. C.

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

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

PERIOD OF RECORD.--Water temperatures: May 1964 to April 1969, January 1970 to August 1973, March 1974 to September 1975.

EXTREMES.--1974-75:
Water temperatures: Maximum, 24.5°C August 24, 26, 27; minimum, 1.0°C December 5, 6.

Period of record:
Water temperatures: Maximum, 29.5°C June 21, 22, 1964; minimum, freezing point on many days during most years.

REMARKS.--Miscellaneous chemical data published for water years 1966-67.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	12.0	15.5	12.0	6.0	3.5	10.5	8.0	10.0	8.0	7.0	4.5
2	13.5	11.0	15.5	13.0	6.0	5.0	8.0	5.0	8.0	6.5	7.0	3.0
3	11.5	8.5	15.5	13.0	5.0	4.0	6.0	3.5	6.5	6.0	4.0	1.5
4	10.0	8.0	16.0	13.5	4.5	3.0	8.0	6.0	5.5	4.5	4.5	2.0
5	11.0	8.0	16.0	14.5	3.0	1.0	7.0	4.0	5.5	4.5	7.0	3.0
6	12.0	9.0	15.5	13.0	3.0	1.0	5.0	3.5	6.5	5.5	9.0	4.0
7	13.0	10.0	13.0	10.5	3.5	1.5	6.0	4.0	7.0	6.0	8.5	6.0
8	13.0	11.5	10.5	8.5	7.0	3.5	6.0	4.5	6.5	4.5	8.5	6.0
9	11.5	9.0	10.0	6.5	7.0	4.5	8.0	6.0	6.5	5.0	8.0	4.0
10	12.0	9.0	9.5	6.5	4.5	2.0	8.0	5.0	5.5	3.0	6.0	4.0
11	13.0	10.0	9.5	6.5	5.0	3.0	10.5	8.0	8.5	4.0	8.5	4.5
12	14.0	11.0	11.5	9.0	8.0	5.0	10.0	8.5	9.0	7.0	8.0	7.0
13	15.0	12.0	10.0	7.0	8.5	8.0	8.5	7.0	8.0	5.0	9.0	8.0
14	15.5	13.5	8.5	5.5	8.0	5.5	7.0	5.5	6.0	4.0	9.5	8.0
15	16.5	14.5	8.5	5.5	6.0	5.0	5.5	4.5	7.0	5.0	10.0	6.5
16	16.5	15.5	5.5	3.5	8.0	6.0	6.0	4.5	8.5	6.5	10.0	8.5
17	15.5	12.0	6.5	4.5	6.5	5.0	5.5	3.5	9.5	8.5	9.5	7.0
18	13.5	11.0	6.5	5.0	5.5	3.5	5.5	4.5	9.5	9.0	9.5	8.0
19	13.5	10.0	8.5	6.5	5.5	3.5	7.0	5.5	11.0	9.5	11.0	8.5
20	10.0	8.0	10.5	8.5	6.5	5.0	8.0	5.5	9.0	6.0	12.0	10.0
21	8.0	5.5	9.5	6.5	7.0	6.0	5.5	4.0	6.5	4.0	13.5	9.5
22	8.5	5.5	6.5	5.0	6.0	4.0	6.5	5.0	8.0	4.0	13.0	11.5
23	9.0	6.0	6.0	4.0	6.5	4.0	6.5	5.0	11.5	8.0	14.5	10.5
24	11.0	8.0	6.5	4.0	9.0	5.5	8.0	6.0	11.5	11.0	15.0	13.0
25	12.0	9.5	6.5	5.5	10.5	9.0	9.0	8.0	10.0	6.5	15.0	13.0
26	13.5	11.0	5.5	3.5	9.0	5.5	8.0	6.5	8.5	5.5	13.5	10.0
27	13.0	10.0	3.5	1.5	6.5	5.5	8.0	5.5	7.0	5.0	12.0	9.0
28	13.0	10.0	3.5	2.0	8.0	6.5	9.0	5.5	7.0	3.5	11.5	9.0
29	13.5	11.0	4.0	1.5	9.0	8.0	11.0	10.0	---	---	13.5	10.5
30	14.5	11.5	3.5	2.0	10.5	9.0	11.0	9.0	---	---	14.5	13.0
31	15.5	13.0	---	---	10.0	8.5	10.0	8.5	---	---	13.0	10.5
MONTH	16.5	5.5	16.0	1.5	10.5	1.0	11.0	3.5	11.5	3.0	15.0	1.5

02077240 Double Creek near Roseville, N. C.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	13.0	15.5	15.0	21.0	20.5	21.0	18.5	22.0	20.5	22.0	21.5
2	15.5	12.0	19.0	15.5	20.5	18.5	20.5	16.0	23.0	20.5	22.0	21.0
3	15.5	13.0	18.5	15.0	20.0	18.0	21.5	18.5	23.5	21.0	22.0	20.0
4	14.0	10.0	18.5	15.5	20.0	16.5	21.0	19.5	24.0	22.0	22.0	20.5
5	13.5	9.5	19.0	14.5	21.0	18.5	21.5	19.5	24.0	22.0	22.0	20.0
6	14.0	9.5	19.0	15.5	21.0	19.0	21.0	19.0	24.0	22.0	23.5	21.5
7	14.5	9.5	18.0	15.5	21.0	18.5	21.0	20.0	22.0	21.0	22.0	21.0
8	15.0	9.5	18.0	14.5	20.0	16.5	22.0	20.0	21.0	20.0	21.0	20.0
9	15.0	10.5	16.5	14.5	18.0	15.5	21.0	20.0	21.0	19.0	21.5	19.5
10	15.5	13.5	17.0	14.5	18.0	17.0	22.0	20.5	21.0	20.0	21.5	20.0
11	14.5	13.0	18.5	14.5	18.0	17.0	21.0	20.5	22.0	20.5	21.5	20.0
12	15.5	12.0	18.0	14.5	19.0	17.0	21.0	20.5	21.5	20.0	22.0	21.0
13	15.5	9.5	18.5	15.5	21.0	18.5	21.0	20.5	22.0	20.0	21.5	19.0
14	13.5	11.0	18.0	14.0	21.0	18.0	20.5	20.0	22.0	21.0	19.0	15.5
15	14.0	12.0	17.0	14.5	21.0	18.0	20.5	20.0	23.5	21.5	16.0	14.0
16	15.5	10.5	18.5	16.0	21.0	20.0	20.5	20.0	24.0	22.0	16.5	16.0
17	14.5	11.5	18.5	16.5	21.5	19.5	20.0	20.0	23.5	22.0	18.5	17.0
18	15.0	13.0	16.5	16.0	23.0	19.5	21.0	19.5	23.5	22.0	19.0	18.5
19	17.0	15.0	18.0	16.0	23.0	20.0	21.0	20.0	23.5	21.5	20.0	19.0
20	19.0	14.0	19.0	15.5	23.0	20.5	22.0	20.0	22.0	20.5	21.0	20.0
21	18.0	12.0	20.0	16.5	21.0	19.0	22.0	20.5	23.0	21.0	21.0	21.0
22	18.5	11.5	20.5	17.0	21.5	19.5	22.0	20.5	23.5	21.0	21.0	19.0
23	19.0	14.5	20.5	18.5	21.5	18.0	22.0	21.0	23.5	22.0	19.0	18.5
24	20.0	16.5	20.5	18.0	21.5	18.0	23.0	21.5	24.5	23.0	20.0	18.5
25	20.0	18.0	20.5	18.0	21.5	18.5	23.0	21.5	24.0	22.0	20.0	19.5
26	21.0	16.0	20.0	19.0	21.5	20.0	22.0	21.0	24.5	22.0	20.0	19.5
27	19.0	14.5	20.5	18.5	21.0	20.0	21.0	19.0	24.5	23.5	20.0	18.0
28	16.5	16.0	20.5	18.0	21.5	20.5	22.0	20.0	24.0	21.0	18.5	16.0
29	17.0	15.5	20.0	18.5	22.0	20.0	22.0	21.0	22.0	19.5	18.0	15.5
30	17.0	16.0	20.5	19.0	21.0	19.0	22.0	21.0	23.0	20.0	19.0	17.0
31	---	---	21.5	20.0	---	---	22.0	21.0	23.0	20.0	---	---
MONTH	21.0	9.5	21.5	14.0	23.0	15.5	23.0	16.0	24.5	19.0	23.5	14.0
YEAR	24.5	1.0										

02077250 South Hyco Creek near Roseville, N. C.

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

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

PERIOD OF RECORD.--Water temperatures: January 1967 to September 1975.

EXTREMES.--1974-75:
Water temperatures: Maximum, 26.5°C August 4, 5; minimum, 1.5°C January 7.

Period of record:
Water temperatures: Maximum, 30.5°C Aug. 22, 1968; minimum, freezing point on many days in January and February 1968 and 1973.

REMARKS.--Miscellaneous chemical data published for water years 1966-67.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	14.0	16.5	14.5	6.5	4.5	8.5	8.0	6.5	6.5	8.5	7.0
2	15.5	13.0	17.0	14.5	6.5	6.0	8.5	5.5	6.5	5.5	8.5	8.0
3	14.0	10.5	17.0	14.5	6.0	5.0	5.5	4.0	5.5	4.5	8.0	7.0
4	12.0	9.5	16.5	14.5	5.5	4.5	6.0	4.0	4.5	3.5	---	---
5	12.0	9.5	16.5	15.5	5.0	3.0	6.0	4.0	---	---	---	---
6	13.5	10.0	16.5	14.5	3.5	3.0	4.0	3.0	---	---	---	---
7	14.5	11.5	14.5	12.0	4.0	3.0	3.5	1.5	---	---	---	---
8	14.5	13.5	12.0	10.0	8.5	3.5	3.5	3.0	---	---	---	---
9	14.5	11.0	11.0	8.5	8.5	6.0	6.0	3.5	---	---	---	---
10	13.5	11.0	10.5	8.0	6.0	4.5	6.0	4.5	---	---	---	---
11	14.5	11.5	10.5	8.0	4.5	4.0	9.5	5.5	---	---	---	---
12	15.0	12.0	13.0	10.5	6.5	4.5	9.5	7.0	---	---	---	---
13	16.0	14.0	10.0	9.5	8.0	6.5	7.0	6.0	9.0	6.5	---	---
14	16.5	14.5	10.0	8.5	8.0	6.5	6.0	5.0	7.0	5.5	---	---
15	18.0	15.5	10.0	8.5	6.5	6.0	5.0	3.5	7.0	5.5	---	---
16	18.0	17.0	9.0	6.5	6.5	5.5	3.5	3.5	8.0	7.0	---	---
17	17.0	14.5	8.5	6.5	6.5	5.5	3.5	3.5	9.5	8.0	---	---
18	15.5	13.0	8.0	7.0	5.5	4.5	3.5	3.0	10.0	9.5	---	---
19	15.0	12.0	9.5	8.0	4.5	4.0	5.0	3.0	11.5	10.0	---	---
20	12.0	10.0	11.5	9.5	5.0	4.5	5.5	4.5	11.0	9.0	---	---
21	10.0	8.0	11.0	9.0	6.0	5.0	4.5	4.0	9.0	7.0	---	---
22	10.0	7.0	9.0	8.0	6.0	4.5	4.5	3.5	8.0	6.5	---	---
23	11.0	8.0	8.0	6.0	4.5	4.0	4.5	4.0	10.5	8.0	---	---
24	12.0	9.0	8.0	6.0	6.0	4.5	6.0	4.5	11.0	10.5	---	---
25	14.0	11.0	8.0	7.0	8.5	6.0	7.0	6.0	11.0	9.0	---	---
26	15.0	13.0	7.0	5.5	8.5	6.0	7.0	6.5	9.0	8.0	---	---
27	14.5	12.0	5.5	4.0	6.0	5.5	6.5	4.5	9.5	8.0	---	---
28	14.5	12.0	5.0	3.5	6.5	5.5	6.0	5.0	8.0	7.0	---	---
29	14.5	13.0	5.0	3.5	7.0	6.5	6.0	6.0	---	---	---	---
30	15.5	13.5	5.0	4.0	10.0	7.0	6.5	6.0	---	---	---	---
31	16.5	14.5	---	---	10.0	8.0	6.5	6.5	---	---	---	---
MONTH	18.0	7.0	17.0	3.5	10.0	3.0	9.5	1.5	---	---	---	---

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	16.0	15.5	23.0	21.5	23.5	21.0	25.0	23.0	23.5	23.0
2	---	---	17.0	15.5	22.0	20.0	21.5	19.5	25.0	23.0	23.0	22.0
3	---	---	17.0	16.5	22.0	20.0	23.0	21.0	25.5	23.0	23.0	21.0
4	---	---	18.0	15.5	22.0	19.5	23.0	22.0	26.5	24.5	24.5	22.0
5	---	---	18.0	15.5	23.5	20.5	22.0	20.5	26.5	24.5	24.5	21.0
6	---	---	20.0	16.5	23.0	21.0	22.0	20.5	26.0	24.5	23.5	23.0
7	---	---	20.0	17.0	23.0	20.5	22.0	21.0	24.5	22.0	23.0	21.0
8	---	---	19.0	16.0	23.0	19.0	24.0	21.5	23.0	21.5	21.5	21.0
9	---	---	18.5	16.5	20.5	18.0	24.0	21.5	23.5	21.0	22.0	20.5
10	---	---	18.0	16.0	20.0	19.0	23.5	22.0	23.0	21.5	22.0	21.0
11	---	---	19.0	16.0	19.5	19.0	22.0	21.0	24.0	22.0	21.5	21.0
12	---	---	19.0	16.5	20.5	19.0	21.0	20.5	24.0	21.5	22.0	21.5
13	---	---	19.5	17.0	23.0	20.0	21.0	20.5	24.5	21.5	22.0	20.5
14	---	---	19.0	16.5	23.5	20.5	21.0	20.5	24.5	22.0	20.0	16.5
15	---	---	19.0	16.5	23.5	20.5	20.5	20.0	25.0	23.5	18.0	15.5
16	---	---	19.0	16.5	24.0	22.0	20.5	20.0	25.5	24.0	17.0	16.5
17	---	---	19.0	18.0	24.0	23.5	20.5	20.5	25.5	24.5	18.5	17.0
18	---	---	18.0	17.0	25.0	23.0	22.0	20.5	25.0	24.5	19.5	18.5
19	---	---	18.5	17.0	25.0	23.0	23.0	21.0	25.0	24.5	20.5	19.5
20	---	---	20.0	18.0	25.0	24.0	24.0	22.0	24.5	22.0	21.5	20.0
21	16.5	15.0	22.0	19.0	25.0	23.0	24.5	22.0	24.5	23.0	21.5	21.0
22	16.0	15.0	23.0	20.0	23.5	23.0	24.5	23.0	25.0	23.0	21.5	19.5
23	17.0	15.5	22.0	20.5	23.5	21.5	24.5	23.5	25.5	24.0	19.5	18.5
24	19.5	17.0	22.0	20.0	24.0	21.5	25.0	23.5	25.5	24.5	19.5	18.5
25	20.0	18.5	22.0	20.0	24.5	22.0	25.0	23.5	25.5	23.5	19.5	19.5
26	20.5	17.0	22.0	21.0	24.5	23.5	24.0	22.0	26.0	24.5	20.0	19.5
27	19.5	16.5	23.0	20.0	24.0	23.5	23.5	21.0	25.5	25.0	20.0	19.0
28	18.5	16.5	23.0	20.0	24.0	23.5	24.5	21.5	25.5	23.0	19.0	17.0
29	17.0	16.0	22.0	20.5	24.0	22.0	24.5	22.0	24.5	21.5	18.0	16.0
30	17.0	16.0	22.0	20.0	24.0	22.0	24.5	23.0	23.5	21.0	19.0	17.0
31	---	---	23.0	21.5	---	---	24.5	23.0	23.5	21.0	---	---
MONTH	---	---	23.0	15.5	25.0	18.0	25.0	19.5	26.5	21.0	24.5	15.5
YEAR	26.5	1.5										

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

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

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

PERIOD OF RECORD.--Water temperatures: June 1974 to September 1975.

EXTREMES.--June 1974 to September 1975:
Water temperatures: Maximum, 30.5°C Aug. 13, 15, 1975; minimum, 6.0°C Jan. 2-7, 1975.

TEMPERATURE (DEG. C) OF WATER, JUNE TO SEPTEMBER 1974
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	24.0	22.0	24.5	23.0	26.0	24.5
2	---	---	---	---	---	---	24.5	23.5	24.5	23.0	25.5	24.5
3	---	---	---	---	---	---	25.0	23.5	25.5	23.5	26.0	24.5
4	---	---	---	---	---	---	25.0	23.5	24.5	23.5	25.0	24.0
5	---	---	---	---	---	---	24.5	23.5	24.5	23.0	26.0	25.0
6	---	---	---	---	---	---	24.5	23.5	23.5	23.0	26.0	25.0
7	---	---	---	---	---	---	24.5	23.5	24.0	23.0	25.0	24.5
8	---	---	---	---	---	---	25.0	23.5	24.0	23.0	24.5	24.0
9	---	---	---	---	---	---	25.5	23.5	25.0	23.0	24.0	24.0
10	---	---	---	---	---	---	25.5	24.0	25.5	25.0	24.0	24.0
11	---	---	---	---	---	---	25.0	23.5	25.5	25.0	24.5	24.0
12	---	---	---	---	26.0	21.0	25.5	23.0	25.5	24.5	24.5	23.5
13	---	---	---	---	26.5	20.5	25.5	22.0	25.5	25.0	25.0	24.0
14	---	---	---	---	26.5	21.0	25.5	23.0	25.5	25.0	24.5	24.0
15	---	---	---	---	25.5	21.0	26.0	23.5	25.5	25.0	24.0	23.5
16	---	---	---	---	25.5	21.5	26.5	23.5	25.5	25.0	24.5	23.0
17	---	---	---	---	26.0	21.0	25.0	23.5	26.0	25.0	23.5	23.0
18	---	---	---	---	26.0	20.5	25.0	23.0	26.0	24.5	24.5	23.5
19	---	---	---	---	26.0	20.5	25.0	23.5	26.0	24.0	24.5	23.0
20	---	---	---	---	28.0	22.0	25.5	23.5	27.0	26.0	24.5	23.0
21	---	---	---	---	26.0	21.5	24.0	23.0	27.0	26.5	24.5	23.0
22	---	---	---	---	28.5	23.0	24.5	22.0	27.0	26.5	24.0	22.0
23	---	---	---	---	28.0	23.0	24.0	22.0	27.0	26.0	23.0	21.0
24	---	---	---	---	25.5	22.0	24.5	23.0	26.5	26.5	21.5	21.0
25	---	---	---	---	24.5	21.0	24.5	23.5	26.5	26.0	22.0	21.0
26	---	---	---	---	23.5	21.5	25.0	23.0	26.5	26.0	22.0	20.5
27	---	---	---	---	23.0	21.5	25.0	23.5	27.0	26.0	22.0	20.5
28	---	---	---	---	21.5	21.5	25.5	23.0	27.0	26.5	23.0	21.5
29	---	---	---	---	24.0	21.5	25.5	23.0	27.0	26.0	23.0	21.5
30	---	---	---	---	24.5	21.0	25.5	23.5	26.5	25.5	21.5	20.5
31	---	---	---	---	---	---	25.0	23.0	26.0	24.5	---	---
MONTH	---	---	---	---	---	---	26.5	22.0	27.0	23.0	26.0	20.5

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	20.0	16.5	15.5	9.0	8.5	6.5	6.5	8.0	8.0	14.5	8.5
2	21.0	19.5	16.5	15.5	8.5	8.5	6.0	6.0	8.0	8.0	9.0	8.5
3	20.0	19.0	16.5	15.5	8.5	8.0	6.0	6.0	8.0	8.0	8.5	8.0
4	19.5	18.5	16.5	15.5	8.0	8.0	6.0	6.0	8.0	7.0	8.5	8.0
5	19.5	18.5	16.5	16.(	8.0	8.0	6.0	6.0	7.0	7.0	8.5	8.0
6	19.5	18.5	16.5	15.5	8.0	8.0	6.0	6.0	7.0	7.0	8.5	8.0
7	19.5	18.5	15.5	14.5	8.0	8.0	6.5	6.0	7.0	7.0	8.5	8.0
8	19.0	18.5	15.0	14.5	8.0	8.0	6.5	6.5	7.0	7.0	8.5	8.0
9	19.0	17.0	15.0	14.0	8.0	7.0	6.5	6.5	7.0	7.0	8.0	8.0
10	19.0	17.0	15.0	13.5	7.0	6.5	6.5	6.5	7.0	7.0	8.0	8.0
11	19.0	18.0	14.5	13.5	7.0	7.0	7.0	6.5	7.0	7.0	8.5	8.5
12	19.0	18.0	14.5	14.0	7.0	7.0	8.0	7.0	7.0	7.0	8.5	8.5
13	19.0	18.5	14.0	13.0	7.0	7.0	8.5	8.0	7.0	7.0	8.5	8.0
14	19.0	18.5	14.0	13.0	7.0	7.0	8.5	8.5	7.0	7.0	8.5	8.0
15	19.5	18.5	13.0	11.5	7.0	7.0	8.5	8.0	7.0	7.0	9.5	8.5
16	19.0	19.0	13.0	11.5	7.0	7.0	8.0	8.0	7.0	7.0	9.5	9.0
17	19.0	18.0	13.0	11.5	7.0	7.0	8.0	7.0	7.0	7.0	9.5	9.0
18	19.0	17.0	12.0	11.5	7.0	7.0	7.0	7.0	7.0	7.0	9.5	9.5
19	18.0	17.0	12.0	11.5	7.0	7.0	7.0	7.0	8.0	7.0	10.0	9.5
20	17.0	16.0	12.0	11.0	7.0	7.0	7.0	7.0	8.0	7.0	10.0	9.5
21	16.5	15.5	11.0	10.0	7.0	7.0	7.0	6.5	7.0	7.0	10.5	10.0
22	16.0	15.0	10.5	10.0	7.0	7.0	7.0	6.5	8.0	7.0	10.5	10.5
23	16.0	15.0	10.5	9.5	7.0	7.0	6.5	6.5	8.0	7.0	11.0	10.5
24	16.5	16.0	10.5	9.5	7.0	7.0	7.0	6.5	8.5	8.0	12.0	11.0
25	16.5	16.0	10.5	10.0	7.0	7.0	7.0	7.0	9.5	8.5	13.5	12.0
26	16.5	16.0	10.0	9.5	7.0	6.5	7.0	7.0	9.5	9.0	13.0	12.0
27	16.0	15.0	9.5	9.5	6.5	6.5	7.0	7.0	9.0	9.0	12.0	11.5
28	16.0	15.0	9.5	9.0	6.5	6.5	7.0	7.0	9.0	9.0	11.5	11.0
29	16.0	15.0	9.5	9.0	6.5	6.5	8.0	7.0	---	---	11.0	11.0
30	16.0	15.5	9.0	8.5	6.5	6.5	8.5	8.0	---	---	12.0	11.0
31	16.5	15.5	---	---	6.5	6.5	8.0	8.0	---	---	13.0	12.0
MONTH	21.5	15.0	16.5	8.5	9.0	6.5	8.5	6.0	9.5	7.0	14.5	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	12.0	15.0	14.5	20.0	20.0	23.5	22.0	25.0	24.0	25.5	24.5
2	13.0	13.0	15.5	15.0	20.5	19.5	23.5	21.5	25.0	24.5	27.0	25.0
3	14.0	13.0	15.0	15.0	20.0	19.5	24.0	22.0	25.0	24.5	27.0	25.0
4	13.5	13.0	16.0	15.0	20.5	19.0	23.5	23.0	25.0	24.5	25.5	24.0
5	13.0	12.0	17.0	15.5	20.5	20.0	23.5	22.0	26.5	24.5	25.5	24.0
6	12.0	11.5	16.5	15.5	21.5	20.0	24.0	22.0	25.0	24.0	25.5	24.5
7	11.5	11.5	16.5	16.0	22.0	20.0	24.5	23.0	25.0	23.5	24.5	24.0
8	13.0	11.5	16.5	16.0	21.0	20.0	24.0	21.5	25.0	23.0	25.0	24.0
9	13.0	11.5	16.5	16.0	20.5	20.0	23.0	21.5	29.0	23.0	25.0	24.0
10	12.0	11.5	16.5	16.0	20.0	20.0	23.5	21.5	29.0	28.0	24.5	24.0
11	11.0	11.0	16.5	15.5	20.5	20.0	26.0	21.5	29.0	28.0	24.5	24.0
12	13.0	11.0	17.0	16.0	21.0	20.5	26.5	26.0	30.0	28.0	25.5	24.5
13	13.0	11.5	17.0	16.5	21.5	20.5	26.5	26.5	30.5	28.0	25.0	23.5
14	12.0	11.5	17.0	16.5	21.5	20.5	26.5	25.5	30.0	29.0	24.5	23.0
15	13.0	11.5	17.0	16.5	21.5	20.5	25.5	25.0	30.5	28.5	24.0	23.0
16	13.5	12.0	18.0	16.5	22.0	21.0	25.0	24.5	30.0	29.0	23.5	23.0
17	13.0	12.0	17.0	16.5	22.0	20.5	24.5	24.5	30.0	28.5	24.0	23.0
18	12.0	11.5	17.0	16.5	23.0	21.0	24.5	24.0	30.0	29.0	23.5	23.5
19	14.0	12.0	18.0	17.0	23.0	21.0	25.5	24.5	29.5	28.0	24.0	23.5
20	15.0	13.5	18.0	18.0	23.0	21.5	26.0	25.0	28.5	26.5	24.0	23.5
21	15.0	14.0	18.5	18.0	22.0	20.5	26.5	25.5	28.0	26.5	24.0	23.5
22	14.5	13.0	19.0	18.0	22.0	21.5	26.5	25.5	28.5	26.0	23.5	23.5
23	15.0	13.5	19.0	18.5	23.0	21.0	26.0	25.0	28.0	26.5	23.5	23.0
24	16.0	14.0	19.5	19.0	23.0	21.0	25.0	24.5	28.0	26.0	23.0	23.0
25	17.0	15.5	19.0	19.0	23.5	22.0	24.5	24.0	28.5	26.0	23.0	23.0
26	16.0	15.0	19.5	19.0	23.5	22.0	24.0	24.0	28.5	26.0	23.5	23.0
27	15.0	15.0	20.0	19.0	23.5	22.0	24.0	24.0	26.0	25.0	24.0	23.5
28	15.0	15.0	19.5	19.0	23.5	22.0	24.5	24.0	25.5	24.5	24.0	23.5
29	15.0	14.5	20.0	19.5	23.5	22.0	24.0	24.0	25.5	25.0	23.5	23.0
30	15.0	14.5	20.0	19.5	23.5	22.0	24.0	24.0	25.5	24.5	23.5	23.0
31	---	---	20.0	19.5	---	---	24.0	24.0	25.5	24.5	---	---
MONTH	17.0	11.0	20.0	14.5	23.5	19.0	26.5	21.5	30.5	23.0	27.0	23.0
YEAR	30.5	6.0										

02081000 Roanoke River near Scotland Neck, N. C.
(National Stream Quality Accounting Network Station)

LOCATION.--Lat 36°12'33", long 77°13'02", Halifax County, at gaging station at bridge on U. S. Highway 258, 3 mi (5 km) downstream from Bridgers Creek, 5.8 mi (9.3 km) north of Scotland Neck, and at mile 102.5 (164.9 km).

DRAINAGE AREA.--8,700 mi^2 (22,530 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1944 to September 1945, October 1953 to September 1954, water years 1968-73 (partial-record station), October 1974 to September 1975.
Water temperatures: October 1944 to September 1945, October 1953 to September 1954, October 1974 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 454 micromhos Jan. 13; minimum daily, 66 micromhos June 2.
Water temperatures: Maximum, 28.0°C Aug. 26; minimum, 4.0°C Mar. 3.

Period of record:
Dissolved solids (1944-45, 1953-54): Maximum, 173 mg/l Apr. 1-10, 1945; minimum, 47 mg/l Oct. 1-10, 1944.
Hardness (1944-45, 1953-54): Maximum, 57 mg/l Apr. 1-10, 1945; minimum, 18 mg/l Oct. 1-10, 1944.
Water temperatures: Maximum, 29.5°C July 3, 4, 6, 7, 8, 1945; minimum, 0.5°C Dec. 31, 1953.

REMARKS.--Miscellaneous chemical data published for water years 1947, 1949, 1952, 1955-56, 1960-67. Daily records of specific conductance for the 1954 water year available in files of district office in Raleigh, N. C. Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)
OCT.											
01...	1141	10200	11	480	110	12000	170	160	10	520	6.9
NOV.											
12...	1020	5000	10	480	60	--	110	100	10	--	7.1
DEC.											
11...	1055	1300	11	1200	220	--	100	40	60	--	8.2
JAN.											
28...	1055	19000	11	--	--	--	--	--	--	--	6.9
FEB.											
19...	1200	16500	11	--	--	--	--	--	--	--	6.4
MAR.											
17...	1225	20000	8.2	930	140	--	70	20	50	--	5.7
APR.											
01...	1245	33000	9.0	--	--	--	--	--	--	--	5.9
MAY											
27...	1315	6800	7.2	--	--	--	--	--	--	--	5.8
JUNE											
11...	0914	15000	7.0	1400	50	5200	90	70	20	--	4.0
JULY											
01...	1015	2500	7.2	--	--	--	--	--	--	--	10
AUG.											
06...	1345	19000	9.1	--	--	--	--	--	--	--	7.6
SEP.											
09...	1000	2500	9.7	900	160	--	130	100	30	--	8.1

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
01...	2.2	5.7	2.1	30	--	25	7.2	5.8	.2	.21	.27
NOV.											
12...	2.5	5.7	2.2	34	--	28	6.6	5.1	.1	.11	.10
DEC.											
11...	2.7	12	3.1	46	--	38	12	7.3	.3	.18	.19
JAN.											
28...	2.9	6.8	2.2	32	--	26	6.9	5.2	.5	.19	.20
FEB.											
19...	2.4	5.3	1.8	31	--	25	8.4	4.4	.0	.24	--
MAR.											
17...	2.2	5.0	1.8	32	--	26	7.9	5.3	.1	.09	--
APR.											
01...	2.6	5.2	2.0	30	0	25	10	4.5	.0	.22	--
MAY											
27...	2.2	6.0	1.8	28	0	23	7.7	4.1	.1	.20	--
JUNE											
11...	2.0	4.4	1.8	26	0	21	6.2	3.8	.1	.10	--
JULY											
01...	2.5	8.3	1.9	34	0	28	9.4	5.3	.1	.11	--
AUG.											
06...	2.4	4.9	2.1	29	0	24	5.9	3.9	.3	.11	--
SEP.											
09...	2.1	9.4	2.2	42	0	34	9.6	4.5	.3	.16	--

02081000 Roanoke River near Scotland Neck, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)
OCT.											
01...	.0	.05	.06	.08	.42	.25	.47	.16	.31	1200	.68
NOV.											
12...	--	.00	.02	.03	.40	.13	.40	.25	.15	--	.51
DEC.											
11...	--	.04	.00	.00	.60	.73	.64	.00	.73	--	.82
JAN.											
28...	--	.17	.04	.05	.22	.20	.39	.15	.24	--	.58
FEB.											
19...	--	--	--	--	--	--	.36	--	--	--	.60
MAR.											
17...	--	--	--	--	--	--	.38	--	--	--	.47
APR.											
01...	--	--	--	--	--	--	.40	--	--	--	.62
MAY											
27...	--	--	--	--	--	--	.28	--	--	--	.48
JUNE											
11...	5.0	--	--	--	--	--	.31	--	--	690	.41
JULY											
01...	--	--	--	--	--	--	.40	--	--	--	.51
AUG.											
06...	--	--	--	--	--	--	.34	--	--	--	.45
SEP.											
09...	--	--	--	--	--	--	.47	--	--	--	.63

DATE	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT.											
01...	3.0	.03	.03	.01	.01	.01	100	53	56	.07	1460
NOV.											
12...	2.3	.04	.03	.02	.01	.01	--	49	57	.07	661
DEC.											
11...	3.6	.07	.06	.07	.03	.02	--	91	80	.12	319
JAN.											
28...	2.6	.04	.03	.01	.00	.01	--	63	58	.09	3230
FEB.											
19...	2.7	.06	--	--	--	--	--	57	55	.08	2850
MAR.											
17...	2.1	.04	--	--	--	--	--	58	52	.08	3130
APR.											
01...	2.7	.05	--	--	--	--	--	61	54	.08	5440
MAY											
27...	2.1	.05	--	--	--	--	--	66	49	.09	1210
JUNE											
11...	1.8	.03	--	--	--	--	140	56	42	.08	2270
JULY											
01...	2.3	.04	--	--	--	--	--	63	61	.09	425
AUG.											
06...	2.0	.03	--	--	--	--	--	56	51	.08	2870
SEP.											
09...	2.8	.06	--	--	--	--	--	60	67	.08	405

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.											
01...	26	2	30	.5	75	6.9	20.5	30	9	7.6	6.0
NOV.											
12...	28	0	29	.5	80	7.0	16.0	20	10	8.0	5.4
DEC.											
11...	32	0	42	.9	115	6.6	6.0	100	20	9.8	18
JAN.											
28...	29	3	32	.5	90	7.1	7.0	30	10	11.5	4.1
FEB.											
19...	26	0	29	.5	75	6.5	8.5	--	20	11.1	16
MAR.											
17...	23	0	30	.5	80	6.3	8.0	--	20	10.8	26
APR.											
01...	25	1	29	.4	72	6.7	11.0	--	35	10.2	9.6
MAY											
27...	24	1	34	.5	70	6.9	25.0	--	20	7.9	5.6
JUNE											
11...	18	0	32	.4	70	7.1	22.0	--	7	6.6	3.3
JULY											
01...	35	7	32	.6	95	6.9	24.0	--	4	7.2	6.8
AUG.											
06...	29	5	25	.4	78	6.6	27.0	--	4	6.1	12
SEP.											
09...	29	0	39	.8	110	6.9	26.0	--	8	6.4	8.5

02081000 Roanoke River near Scotland Neck, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL A MG/SQ M	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL B MG/SQ M	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)
OCT.									
01...	8900	--	--	1700	450	--	--	5.0	18
NOV.									
12...	15000	--	--	540	150	--	--	4.4	--
DEC.									
11...	8600	--	--	1200	490	--	--	5.8	--
JAN.									
28...	10000	--	--	110	350	--	--	4.3	--
FEB.									
19...	3700	--	--	330	370	--	--	--	--
MAR.									
17...	11000	.2	.0	230	250	.50	.50	5.9	--
APR.									
01...	3400	--	--	250	96	--	--	--	--
MAY									
27...	5100	--	--	490	120	--	--	--	--
JUNE									
11...	8800	.1	.1	3300	200	1.5	1.8	6.8	9.2
JULY									
01...	22000	--	--	560	--	--	--	--	--
AUG.									
06...	13000	--	--	720	160	--	--	--	--
SEP.									
09...	460	--	--	80	1000	--	--	16	--

DATE	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)
OCT.									
01...	.0	1	0	1	6	0	0	0	<10
NOV.									
12...	.0	1	0	1	--	0	0	0	--
DEC.									
11...	.1	1	1	0	--	0	0	2	--
JAN.									
28...	.0	--	--	--	--	--	--	--	--
FEB.									
19...	--	--	--	--	--	--	--	--	--
MAR.									
17...	--	1	1	0	--	0	0	0	--
APR.									
01...	--	--	--	--	--	--	--	--	--
MAY									
27...	--	--	--	--	--	--	--	--	--
JUNE									
11...	--	0	0	0	--	0	0	0	--
JULY									
01...	--	--	--	--	--	--	--	--	--
AUG.									
06...	--	--	--	--	--	--	--	--	--
SEP.									
09...	--	1	1	0	--	0	0	0	--

02081000 Roanoke River near Scotland Neck, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT. 01...	<10	<10	0	30	0	0	0	<10	5
NOV. 12...	10	10	0	--	2	2	0	--	4
DEC. 11...	20	19	1	--	0	0	0	--	3
JAN. 28...	--	--	--	--	--	--	--	--	--
FEB. 19...	--	--	--	--	--	--	--	--	--
MAR. 17...	<10	<9	1	--	2	2	0	--	6
APR. 01...	--	--	--	--	--	--	--	--	--
MAY 27...	--	--	--	--	--	--	--	--	--
JUNE 11...	<10	<10	0	10	1	1	0	--	2
JULY 01...	--	--	--	--	--	--	--	--	--
AUG. 06...	--	--	--	--	--	--	--	--	--
SEP. 09...	<10	<10	0	--	1	1	0	--	5

DATE	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)
OCT. 01...	3	2	<10	7	5	2	420	.0	.0	.1
NOV. 12...	0	4	--	5	4	1	--	.0	.0	.0
DEC. 11...	0	7	--	69	35	34	--	.0	.0	.1
MAR. 17...	4	2	--	81	76	5	--	.0	.0	.0
JUNE 11...	0	3	<10	4	2	2	<10	.0	.0	.0
SEP. 09...	3	2	--	8	8	0	--	.3	.2	.1

DATE	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT. 01...	.6	0	0	0	0	0	0	10	60
NOV. 12...	--	0	0	0	--	0	0	10	--
DEC. 11...	--	0	0	0	--	30	0	30	--
MAR. 17...	--	0	0	0	--	50	0	90	--
JUNE 11...	--	0	0	0	--	10	0	10	20
SEP. 09...	--	0	0	0	--	20	10	10	--

02081000 Roanoke River near Scotland Neck, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	109	102	97	95	81	73	67	78	98	84	82
2	83	111	101	106	97	82	73	67	66	98	84	84
3	87	110	103	95	99	85	73	68	73	103	82	84
4	81	129	97	93	98	79	71	67	72	98	83	86
5	82	82	100	103	98	81	70	69	70	98	84	84
6	88	96	97	92	97	83	69	69	72	103	84	106
7	101	133	99	97	96	88	69	76	72	103	84	102
8	101	134	97	97	93	81	69	69	70	103	82	102
9	104	127	99	97	94	81	70	70	70	103	83	102
10	105	99	102	92	94	80	67	74	83	93	84	107
11	105	105	112	87	92	79	69	75	73	86	94	107
12	109	87	120	86	92	84	69	73	76	73	84	112
13	97	85	126	454	91	78	68	67	74	88	85	98
14	97	88	132	174	90	74	68	68	76	81	85	100
15	97	85	130	92	92	76	68	69	78	80	82	107
16	104	80	123	91	88	74	69	70	78	80	86	101
17	119	87	121	91	85	76	69	70	77	80	87	85
18	104	90	123	89	85	77	69	76	79	84	86	92
19	105	90	130	86	85	77	69	76	80	82	98	102
20	103	90	129	86	79	77	68	72	80	84	98	102
21	82	95	132	91	81	77	69	75	85	83	100	102
22	82	94	123	89	79	76	70	68	97	76	88	82
23	81	94	134	92	75	79	68	72	96	80	83	84
24	81	95	125	89	76	97	68	73	97	88	87	80
25	91	99	118	86	79	75	68	74	82	78	88	82
26	103	98	110	85	84	75	68	75	88	76	80	85
27	101	98	97	85	81	75	67	74	88	82	82	80
28	98	100	95	90	87	77	72	72	102	90	86	79
29	87	101	97	100	---	75	70	76	98	86	86	80
30	100	101	98	100	---	75	73	74	100	84	89	80
31	112	---	99	100	---	73	---	74	---	91	86	---
MONTH	96	100	112	107	89	79	69	72	81	88	86	93

YEAR MAX 454 MIN 66 MEAN 89

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.0	18.0	10.0	11.0	8.0	8.0	10.0	15.0	22.0	22.5	25.0	25.5
2	19.0	18.0	10.0	9.0	7.0	7.5	11.0	15.0	22.0	23.0	25.0	25.0
3	18.0	19.0	10.0	8.0	7.0	4.0	11.5	15.5	22.0	25.0	26.0	25.0
4	19.0	19.5	9.0	13.0	6.0	7.0	9.5	15.5	23.0	25.5	26.0	26.0
5	19.0	18.0	9.0	8.0	6.0	8.0	8.0	16.5	22.5	24.0	26.0	26.0
6	18.0	18.0	8.0	7.0	8.0	8.5	8.0	18.0	22.0	25.0	25.0	27.0
7	20.0	16.0	9.0	8.0	7.0	9.0	9.0	16.0	22.0	25.0	24.5	24.5
8	19.0	14.0	10.0	8.0	8.0	8.5	10.0	16.5	21.5	25.0	25.0	24.5
9	18.0	16.0	10.0	9.0	7.0	8.0	10.0	16.0	22.0	26.0	24.0	25.0
10	18.0	15.0	10.0	9.0	7.0	8.0	10.5	16.5	22.0	26.5	25.0	25.0
11	18.0	15.0	9.0	11.0	7.0	7.5	10.0	17.0	20.5	25.5	25.5	25.5
12	19.0	15.0	8.0	9.0	8.0	8.0	9.5	18.0	20.5	24.0	25.5	25.5
13	19.0	14.0	9.0	7.0	7.0	10.0	9.5	17.0	20.5	24.0	26.5	23.0
14	20.0	15.0	10.0	7.0	7.0	8.5	10.5	18.0	20.0	24.0	26.0	23.0
15	20.0	14.0	8.0	6.0	7.0	8.0	10.0	18.0	23.0	24.0	26.5	23.5
16	21.0	14.0	9.0	7.0	7.0	7.5	10.0	18.5	23.0	24.0	26.5	21.5
17	20.0	13.0	9.0	6.0	8.0	7.5	11.0	18.0	22.5	23.0	27.0	22.5
18	19.0	13.0	8.0	6.0	8.0	7.5	12.0	18.5	23.0	23.5	27.0	22.0
19	17.0	13.0	7.0	7.0	8.5	9.0	14.0	18.0	24.0	24.0	27.0	22.0
20	15.0	14.0	13.0	5.0	7.5	9.0	12.0	19.5	23.0	25.0	26.0	24.0
21	15.0	13.0	8.0	6.0	8.0	9.0	12.0	20.0	23.0	25.5	26.0	24.5
22	16.0	12.0	8.0	6.0	8.0	9.5	13.0	19.5	23.0	25.0	27.0	23.5
23	16.0	12.0	8.0	7.0	10.0	10.0	14.0	20.5	23.5	25.0	27.5	23.0
24	17.0	13.0	8.0	8.0	12.0	12.5	15.0	20.0	24.0	25.0	27.0	23.0
25	18.0	12.0	7.0	8.0	10.0	11.0	15.5	21.0	24.0	24.0	27.5	23.0
26	17.0	13.0	7.0	8.0	10.5	9.0	15.0	21.0	24.0	24.0	28.0	23.0
27	17.0	11.0	7.0	8.0	8.0	9.0	15.0	24.0	24.0	25.0	27.0	23.0
28	18.0	10.0	13.0	8.0	10.5	9.5	15.0	23.0	23.0	24.5	26.5	22.0
29	17.0	10.0	12.0	9.0	---	11.5	15.0	22.0	24.0	24.0	26.5	22.0
30	18.0	10.0	11.0	8.0	---	11.0	14.5	22.0	24.0	25.0	25.5	22.0
31	19.0	---	10.0	9.0	---	10.0	---	22.5	---	24.5	25.5	---
MONTH	18.0	14.5	9.0	8.0	8.0	8.5	11.5	18.5	22.5	24.5	26.0	24.0

YEAR MAX 28.0 MIN 4.0 MEAN 16.0

02081000 Roanoke River near Scotland Neck, N. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT.					
01...	1141	10200	14	386	--
NOV.					
12...	1020	5000	20	270	100
DEC.					
11...	1055	1300	16	56	90
JAN.					
28...	1055	19000	10	513	97
FEB.					
19...	1200	18500	17	849	94
MAR.					
17...	1225	20000	22	1190	80
APR.					
01...	1245	33000	23	2050	97
MAY					
27...	1315	6800	28	514	96
JUNE					
11...	0914	15000	13	526	100
JULY					
01...	1015	2500	16	108	95
AUG.					
06...	1345	19000	13	667	87
SEP.					
02...	1025	3500	31	293	88
09...	1000	2500	26	175	95

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)
JAN.											
09...	1500	5800	30	65	6.6	11.0	--	10.3	<25	1.4	690
28...	1130	19000	37	60	6.8	9.0	--	11.4	<25	.7	190
FEB.											
04...	1400	19500	45	65	6.5	7.0	--	10.9	<25	.9	120
22...	1300	13000	29	55	6.8	11.0	--	8.0	<25	.1	400
MAR.											
24...	1320	25000	31	60	7.0	13.0	--	9.5	<25	1.2	160
APR.											
08...	1400	33000	30	55	6.8	6.0	--	10.5	28	1.2	50
17...	1245	33000	29	60	6.8	12.0	--	9.9	<25	2.5	50
23...	1230	33000	23	55	6.9	15.0	--	9.3	<25	1.1	100
28...	1250	16000	31	60	7.0	16.0	--	9.0	<25	1.6	190
MAY											
07...	1245	7000	25	55	6.9	18.0	--	9.1	<25	1.2	60
JUNE											
03...	1330	9000	27	75	7.3	23.0	--	8.0	<25	1.9	2600
JULY											
09...	1200	3000	28	--	6.4	25.0	20	6.0	<25	--	3600
AUG.											
04...	1300	19500	--	--	6.9	--	--	4.5	<25	1.5	10
SEP.											
19...	1130	2600	20	160	6.3	24.0	22	6.3	<25	2.1	360

02083500 Tar River at Tarboro, N. C.
(National Stream Quality Accounting Network Station)

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

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

PERIOD OF RECORD.--Chemical analyses: October 1944 to September 1945, October 1953 to September 1954, October 1961 to September 1967, water years 1968-73 (partial-record station), July 1973 to September 1975.
Water temperatures: October 1944 to September 1945, October 1953 to September 1954, October 1961 to September 1967, July 1973 to September 1975.
Sediment records: January 1958 to December 1967.

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 133 micromhos Aug. 9, 25, Sept. 15; minimum daily, 41 micromhos Mar. 20.
Water temperatures: Maximum, 30.0°C Aug. 25-27; minimum, 5.0°C Dec. 6, 7, Jan. 18-21.

Period of record:
Dissolved solids (1944-45, 1953-54, 1961-67): Maximum, 111 mg/l Oct. 22-31, 1963; minimum, 40 mg/l (calculated) Aug. 21-31, 1967.
Hardness (1944-45, 1953-54, 1961-67): Maximum, 33 mg/l Nov. 4, 1963; minimum, 9 mg/l Jan. 21-31, 1954.
Specific conductance (1961-67, 1973-75): Maximum daily, 270 micromhos Nov. 4, 1963; minimum daily, 34 micromhos Aug. 22, 1967.
Water temperatures: Maximum, 30.0°C Aug. 30, 1966, Aug. 25-27, 1975; minimum, freezing point on several days in 1963 and 1966.
Sediment concentrations: Maximum daily, 465 mg/l June 22, 1967; minimum daily, 2 mg/l Dec. 2, 1965, Sept. 15-18, 1966 and Dec. 4, 1967.
Sediment discharge: Maximum daily, 6,130 tons May 12, 1958; minimum daily, 1 ton on several days in 1963 and 1966.

REMARKS.--Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)
OCT.											
01...	0945	623	15	1300	510	2100	88	72	16	160	7.5
NOV.											
12...	1310	413	16	1300	850	--	87	17	70	--	8.0
DEC.											
11...	1340	2520	15	1300	570	--	100	60	40	--	6.2
JAN.											
28...	1425	8420	9.6	--	--	--	--	--	--	--	7.8
FEB.											
19...	1345	7780	7.6	--	--	--	--	--	--	--	4.2
MAR.											
17...	1405	10600	6.5	1400	310	--	50	0	50	--	3.6
APR.											
16...	1045	3020	8.3	--	--	--	--	--	--	--	5.2
MAY											
27...	1055	1010	12	--	--	--	--	--	--	--	6.5
JUNE											
11...	1326	521	16	1800	380	1100	90	30	60	--	6.8
JULY											
01...	1300	362	11	--	--	--	--	--	--	--	7.4
23...	1115	18900	9.2	1600	360	--	--	--	--	--	4.3
SEP.											
09...	1400	494	12	1500	590	--	190	90	100	--	7.4

02083500 Tar River at Tarboro, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
01...	2.1	9.0	2.4	31	--	25	8.9	10	.3	.37	.36
NOV.											
12...	2.6	10	3.0	44	--	36	6.5	9.5	.2	.24	.24
DEC.											
11...	2.0	6.6	2.6	28	--	23	7.9	7.5	.5	.18	.20
JAN.											
28...	2.0	4.5	2.0	10	--	8	8.1	4.8	.3	.30	.30
FEB.											
19...	1.4	3.8	1.6	13	--	11	7.0	3.8	.0	.26	--
MAR.											
17...	1.3	3.5	1.8	15	--	12	7.6	5.0	.1	.23	--
APR.											
16...	2.3	6.0	1.7	18	0	15	6.0	6.3	.2	.26	--
MAY											
27...	2.3	7.4	2.0	30	0	25	6.4	6.2	.2	.37	--
JUNE											
11...	2.3	9.4	2.0	37	0	30	6.4	7.5	.2	.43	--
JULY											
01...	2.4	11	2.3	36	0	30	8.1	7.6	.2	.40	--
23...	1.5	3.0	2.5	11	0	9	7.4	3.1	.2	.11	--
SEP.											
09...	1.8	12	2.7	33	0	27	12	9.9	.4	.31	--

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)
OCT.											
01...	.0	.06	.02	.03	.56	.44	.62	.16	.46	130	.99
NOV.											
12...	--	.00	.02	.03	.50	.27	.50	.21	.29	--	.74
DEC.											
11...	--	.04	.02	.03	.58	.51	.62	.09	.53	--	.80
JAN.											
28...	--	.06	.01	.01	.46	.38	.52	.13	.39	--	.82
FEB.											
19...	--	--	--	--	--	--	.51	--	--	--	.77
MAR.											
17...	--	--	--	--	--	--	.56	--	--	--	.79
APR.											
16...	--	--	--	--	--	--	.50	--	--	--	.76
MAY											
27...	--	--	--	--	--	--	.51	--	--	--	.88
JUNE											
11...	.5	--	--	--	--	--	.48	--	--	170	.91
JULY											
01...	--	--	--	--	--	--	.88	--	--	--	1.3
23...	--	--	--	--	--	--	.35	--	--	--	.46
SEP.											
09...	--	--	--	--	--	--	.97	--	--	--	1.3

02083500 Tar River at Tarboro, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT.											
01...	4.4	.15	.28	.10	.10	.09	230	82	71	.11	138
NOV.											
12...	3.3	.14	.34	.13	.13	.11	--	78	80	.11	87.0
DEC.											
11...	3.5	.12	.09	.06	.06	.03	--	65	63	.09	442
JAN.											
28...	3.6	.10	.06	.04	.05	.02	--	57	44	.08	1300
FEB.											
19...	3.4	.12	--	--	--	--	--	50	36	.07	1050
MAR.											
17...	3.5	.12	--	--	--	--	--	48	37	.07	1370
APR.											
16...	3.4	.10	--	--	--	--	--	62	45	.08	506
MAY											
27...	3.9	.15	--	--	--	--	--	70	58	.10	191
JUNE											
11...	4.0	.13	--	--	--	--	51	63	69	.09	88.6
JULY											
01...	5.7	.24	--	--	--	--	--	82	68	.11	80.1
23...	2.0	.10	--	--	--	--	--	53	37	.07	2710
SEP.											
09...	5.7	.29	--	--	--	--	--	75	75	.10	100

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.											
01...	27	2	39	.7	95	6.9	17.5	50	10	8.1	6.2
NOV.											
12...	31	0	39	.8	108	6.9	13.0	40	6	8.7	8.9
DEC.											
11...	24	1	35	.6	85	7.0	5.0	70	20	11.8	4.5
JAN.											
28...	28	20	24	.4	57	6.3	9.0	100	40	10.2	8.0
FEB.											
19...	16	6	31	.4	52	6.6	10.5	--	50	9.3	5.2
MAR.											
17...	14	2	31	.4	48	6.3	9.0	--	40	9.2	12
APR.											
16...	22	8	35	.6	60	6.3	12.0	--	15	9.5	14
MAY											
27...	26	1	36	.6	84	7.0	24.0	--	15	7.5	4.8
JUNE											
11...	26	0	41	.8	100	7.1	22.0	--	4	7.2	4.7
JULY											
01...	28	0	43	.9	105	7.4	25.5	--	3	8.5	2.3
23...	17	8	25	.3	51	5.9	24.5	--	20	4.2	22
SEP.											
09...	26	0	47	1.0	120	6.9	26.5	--	15	6.4	6.6

PAMLICO RIVER BASIN

02083500 Tar River at Tarboro, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL PHYTOPLANKTON (CELLS PER ML)	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)
OCT.										
01...	12000	--	--	180	470	--	--	8.1	7.5	1.0
NOV.										
12...	2700	--	--	48	60	--	--	5.0	5.4	--
DEC.										
11...	7600	--	--	310	370	--	--	8.9	9.3	--
JAN.										
28...	230	--	--	430	1800	--	--	9.2	--	--
FEB.										
19...	320	--	--	1000	1800	--	--	--	--	--
MAR.										
17...	560	--	--	1400	2600	--	--	9.1	--	--
APR.										
16...	1200	--	--	740	1700	--	--	--	--	--
MAY										
27...	100000	--	--	190	88	--	--	--	--	--
JUNE										
11...	12000	--	--	230	92	--	--	8.0	--	1.8
JULY										
01...	43000	--	--	60	--	--	--	--	--	--
23...	160	--	--	460	630	--	--	--	--	--
SEP.										
09...	9000	18	3.2	210	120	14	19	22	--	--

DATE	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)
OCT.									
01...	.0	1	0	1	2	0	0	0	<10
NOV.									
12...	.0	0	0	0	--	0	0	0	--
DEC.									
11...	.0	1	1	0	--	0	0	0	--
JAN.									
28...	.1	--	--	--	--	--	--	--	--
FEB.									
19...	--	--	--	--	--	--	--	--	--
MAR.									
17...	--	2	2	0	--	0	0	1	--
APR.									
16...	--	--	--	--	--	--	--	--	--
MAY									
27...	--	--	--	--	--	--	--	--	--
JUNE									
11...	--	0	0	0	--	0	0	0	--
JULY									
01...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
SEP.									
09...	--	1	1	0	--	0	0	0	--

02083500 Tar River at Tarboro, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT.									
01...	<10	<10	0	<10	0	0	0	<10	5
NOV.									
12...	10	9	1	--	2	2	0	--	1
DEC.									
11...	15	15	0	--	0	0	0	--	2
JAN.									
28...	--	--	--	--	--	--	--	--	--
FEB.									
19...	--	--	--	--	--	--	--	--	--
MAR.									
17...	<10	<9	1	--	2	2	0	--	6
APR.									
16...	--	--	--	--	--	--	--	--	--
MAY									
27...	--	--	--	--	--	--	--	--	--
JUNE									
11...	<10	<10	0	<10	0	0	1	--	3
JULY									
01...	--	--	--	--	--	--	--	--	--
23...	<10	<10	0	--	--	--	--	--	3
SEP.									
09...	<10	<10	0	--	0	0	0	--	4

DATE	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)
OCT.										
01...	3	2	<10	5	2	3	<10	.3	.0	.3
NOV.										
12...	0	2	--	9	6	3	--	.1	.1	.0
DEC.										
11...	0	7	--	5	0	8	--	.0	.0	.0
MAR.										
17...	3	3	--	7	3	4	--	.0	.0	.0
JUNE										
11...	1	2	<10	4	0	4	<10	.0	.0	.0
JULY										
23...	1	2	--	1	1	0	--	--	--	--
SEP.										
09...	2	2	--	8	2	6	--	.1	.0	.1

DATE	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT.									
01...	.3	0	0	0	0	0	0	0	10
NOV.									
12...	--	0	0	0	--	0	0	10	--
DEC.									
11...	--	0	0	0	--	20	0	20	--
MAR.									
17...	--	0	0	0	--	10	2	8	--
JUNE									
11...	--	0	0	0	--	20	20	5	10
JULY									
23...	--	--	--	--	--	30	30	0	--
SEP.									
09...	--	0	0	0	--	20	20	0	--

02083500 Tar River at Tarboro, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	111	104	83	68	63	64	90	100	105	93	102
2	101	114	98	86	73	64	64	90	84	103	97	101
3	99	112	94	86	73	66	57	87	84	108	108	101
4	102	116	92	81	73	67	56	91	100	118	102	82
5	100	116	92	83	73	69	63	87	96	118	101	79
6	94	108	94	83	66	69	60	83	99	110	92	85
7	95	120	92	86	67	71	66	86	96	103	100	98
8	91	119	92	86	63	73	66	90	102	103	97	102
9	88	119	89	81	61	71	70	94	102	98	133	112
10	101	119	84	75	62	70	79	91	110	98	102	107
11	100	114	93	75	63	69	72	87	102	108	107	104
12	106	115	89	73	66	73	73	86	109	87	102	114
13	108	113	87	72	68	73	76	87	109	59	97	104
14	110	115	84	63	73	69	72	93	109	69	107	112
15	101	123	91	60	74	60	70	84	98	71	107	133
16	94	120	82	57	74	57	60	96	98	62	102	102
17	100	123	84	53	70	52	69	96	109	57	112	84
18	104	119	91	51	64	47	68	93	109	53	101	86
19	109	110	89	51	59	42	68	72	113	49	102	75
20	119	106	89	55	52	41	70	70	111	47	98	90
21	102	121	91	59	49	45	72	78	111	48	112	81
22	98	116	90	63	51	45	72	80	109	55	112	82
23	94	110	89	64	54	47	78	88	109	57	111	78
24	95	111	84	65	59	50	82	88	110	63	122	82
25	94	108	84	64	64	46	82	88	109	73	133	67
26	101	103	84	59	64	50	86	88	109	64	107	59
27	100	105	81	61	62	55	86	88	109	63	107	62
28	97	110	82	63	62	57	84	88	110	72	113	60
29	100	109	84	63	---	57	84	89	110	74	117	57
30	94	108	83	64	---	62	89	95	111	84	113	59
31	108	---	83	64	---	62	---	100	---	86	102	---
MONTH	100	114	89	69	65	59	72	88	105	80	107	89

YEAR MAX 133 MIN 41 MEAN 86

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	16.0	8.0	10.0	11.0	10.0	14.0	18.0	26.0	25.0	27.0	26.0
2	17.0	16.0	9.0	9.0	10.0	10.0	15.0	19.0	26.0	25.0	28.0	25.0
3	15.0	17.0	7.0	8.0	8.0	8.0	15.0	18.0	25.0	26.0	29.0	25.0
4	14.0	17.0	7.0	8.0	7.0	7.0	14.0	23.0	25.0	28.0	29.0	26.0
5	13.0	17.0	6.0	9.0	7.0	7.0	12.0	19.0	25.0	25.0	28.0	26.0
6	15.0	18.0	5.0	7.0	7.0	8.0	12.0	19.0	26.0	25.0	28.0	26.0
7	15.0	16.0	5.0	7.0	7.0	9.0	12.0	19.0	26.0	25.0	26.0	25.0
8	15.0	14.0	8.0	7.0	7.0	10.0	13.0	19.0	25.0	25.0	26.0	26.0
9	14.0	12.0	9.0	8.0	6.0	9.0	13.0	19.0	24.0	25.0	26.0	26.0
10	14.0	12.0	8.0	8.0	6.0	8.0	14.0	23.0	24.0	26.0	26.0	26.0
11	14.0	12.0	6.0	9.0	7.0	8.0	13.0	20.0	24.0	26.0	28.0	26.0
12	15.0	13.0	6.0	10.0	8.0	8.0	12.0	20.0	27.0	25.0	28.0	26.0
13	16.0	11.0	7.0	11.0	9.0	10.0	13.0	20.0	24.0	24.0	28.0	24.0
14	17.0	11.0	8.0	8.0	8.0	10.0	13.0	20.0	25.0	25.0	29.0	22.0
15	18.0	11.0	7.0	7.0	7.0	10.0	13.0	21.0	27.0	25.0	29.0	22.0
16	19.0	9.0	8.0	6.0	8.0	10.0	13.0	20.0	28.0	24.0	29.0	21.0
17	18.0	9.0	8.0	6.0	10.0	10.0	15.0	22.0	27.0	24.0	29.0	20.0
18	17.0	8.0	6.0	5.0	10.0	10.0	15.0	22.0	27.0	24.0	29.0	21.0
19	15.0	9.0	6.0	5.0	11.0	10.0	15.0	21.0	27.0	24.0	28.0	21.0
20	13.0	11.0	6.0	5.0	11.0	10.0	18.0	21.0	27.0	24.0	29.0	23.0
21	11.0	11.0	8.0	5.0	10.0	11.0	18.0	23.0	28.0	24.0	29.0	24.0
22	10.0	10.0	7.0	6.0	10.0	12.0	17.0	23.0	27.0	24.0	29.0	23.0
23	11.0	9.0	8.0	7.0	10.0	13.0	18.0	24.0	25.0	25.0	29.0	24.0
24	11.0	9.0	7.0	7.0	12.0	14.0	18.0	24.0	28.0	25.0	29.0	24.0
25	12.0	9.0	8.0	8.0	12.0	15.0	20.0	25.0	28.0	26.0	30.0	24.0
26	13.0	9.0	9.0	9.0	12.0	15.0	20.0	25.0	27.0	25.0	30.0	24.0
27	14.0	7.0	8.0	9.0	12.0	14.0	20.0	25.0	27.0	25.0	30.0	24.0
28	14.0	6.0	8.0	10.0	10.0	14.0	20.0	25.0	27.0	25.0	29.0	23.0
29	15.0	6.0	8.0	9.0	---	13.0	18.0	24.0	26.0	25.0	28.0	21.0
30	16.0	6.0	9.0	11.0	---	14.0	18.0	25.0	26.0	27.0	28.0	21.0
31	16.0	---	10.0	11.0	---	13.0	---	26.0	---	27.0	28.0	---
MONTH	14.5	11.5	7.5	8.0	9.0	10.5	15.5	21.5	26.0	25.0	28.5	24.0

YEAR MAX 30.0 MIN 5.0 MEAN 17.0

02083500 Tar River at Tarboro, N. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT.					
01...	0945	623	13	22	--
NOV.					
12...	1310	413	7	7.8	100
DEC.					
11...	1340	2520	57	388	66
JAN.					
28...	1425	8420	36	818	95
FEB.					
19...	1345	7780	42	882	98
MAR.					
17...	1405	10600	42	1200	99
APR.					
16...	1045	3020	42	342	88
MAY					
27...	1055	1010	27	74	92
JUNE					
11...	1326	521	11	15	81
JULY					
01...	1300	362	13	13	82
23...	1115	18900	24	1230	99
AUG.					
29...	0900	365	6	5.9	100
SEP.					
09...	1400	494	27	36	82

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.											
02...	1400	665	27	80	7.1	17.0	--	8.4	--	1.8	220
10...	1630	458	31	--	7.3	17.0	--	9.1	--	2.1	10
16...	1300	386	--	--	--	17.0	--	7.5	<25	1.2	50
22...	1400	812	38	70	6.9	11.0	9	9.2	50	1.6	100
31...	1030	506	34	100	7.2	17.0	--	7.0	41	2.0	220
NOV.											
07...	1330	473	35	100	6.7	17.0	4	7.0	27	1.0	<10
12...	1230	416	40	95	6.8	14.0	4	9.6	<25	1.0	50
JAN.											
28...	1233	8400	28	40	6.9	9.0	--	10.8	28	1.1	760
FEB.											
04...	1500	3280	24	50	6.2	7.0	--	10.9	<25	.8	110
13...	1415	3720	15	50	6.2	10.0	--	9.0	<25	1.2	60
22...	1135	8640	12	40	6.2	10.0	--	7.8	28	1.0	700
27...	1510	5360	20	60	6.3	11.0	--	9.0	27	1.1	370
MAR.											
04...	1425	3440	16	50	6.3	9.0	--	8.0	<25	1.0	50
10...	1330	2070	23	50	6.5	8.0	--	8.8	<25	.6	<10
18...	1300	14200	10	30	6.2	10.0	--	5.8	31	1.6	620
24...	1410	19400	14	40	6.2	16.0	--	7.6	27	1.0	30
APR.											
08...	1550	2380	35	60	6.6	10.0	--	8.8	<25	1.2	10
17...	1345	3560	24	55	6.8	14.0	--	9.6	<25	1.5	210
23...	1100	1900	20	55	7.0	18.0	--	8.9	31	1.7	110
MAY											
07...	1330	1280	21	50	6.9	19.0	--	9.2	<25	1.6	790
20...	1440	2500	28	70	6.9	21.0	--	8.1	--	1.6	640
JUNE											
03...	1440	1130	26	70	7.1	23.0	--	7.9	<25	1.5	250
10...	1355	542	35	--	1.6	22.0	--	9.6	36	3.1	430
17...	1420	533	40	120	7.7	27.0	--	7.8	<25	1.5	490
24...	1200	337	30	120	7.1	22.0	--	10.0	<25	2.9	30
JULY											
01...	1305	332	30	40	6.5	20.0	--	10.5	<25	2.2	30
21...	1130	8570	--	50	--	22.0	--	5.4	43	1.2	80
28...	1115	15500	--	70	6.7	22.0	--	5.8	31	1.6	130
AUG.											
04...	1200	740	--	--	7.0	--	--	7.7	<25	1.8	7100
28...	1400	940	27	55	6.8	18.0	--	8.9	<25	1.7	70
SEP.											
08...	1400	545	10	--	6.2	24.0	48	6.2	27	2.3	1100
19...	1400	1760	19	75	6.8	20.0	60	6.4	<25	1.7	630

02087500 Neuse River near Clayton, N. C.

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

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

PERIOD OF RECORD.--Chemical analyses: October 1943 to September 1944, water years 1964-73 (partial-record station), July 1973 to September 1975.
Water temperatures: October 1943 to September 1944, July 1973 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 248 micromhos Sept. 11; minimum daily, 43 micromhos Mar. 19, 20.
Water temperatures: Maximum, 30.0°C Aug. 17, 23; minimum, 5.0°C Feb. 19.

Period of record:
Dissolves solids (1943-44): Maximum, 103 mg/l Jan. 1-10, 21-31, 1956; minimum, 47 mg/l Feb. 11-20, 1944.
Hardness (1943-44): Maximum, 26 mg/l Oct. 1-10, 1943; minimum, 14 mg/l Feb. 11-20, 21-31, Apr. 11-20, 1944.
Specific conductance (1973-75): Maximum daily, 280 micromhos Oct. 17, Nov. 21, 1973; minimum daily, 43 micromhos Mar. 19, 20, 1975.
Water temperatures: Maximum, 30.0°C Aug. 17, 23, 1975; minimum, freezing point Dec. 19, 1943.

REMARKS.--Miscellaneous chemical data published for water years 1947, 1949, 1955, 1958-63. Unpublished data for October 1955 to February 1956 are available in district office at Raleigh. Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)
OCT.											
15...	1020	209	18	760	320	3900	300	0	300	210	7.9
DEC.											
09...	0930	1570	--	--	--	--	--	--	--	--	--
JAN.											
15...	1030	9470	8.5	3500	260	--	130	96	34	--	4.4
16...	1300	8970	8.7	--	--	--	--	--	--	--	3.3
17...	1000	9000	8.5	--	--	--	--	--	--	--	3.3
22...	1225	3400	11	--	--	--	--	--	--	--	5.0
MAR.											
14...	1040	4700	9.7	--	--	--	--	--	--	--	5.0
19...	1430	14100	7.2	2700	170	--	--	--	--	--	3.3
20...	0930	16200	7.1	--	--	--	--	--	--	--	4.3
APR.											
28...	1445	526	13	720	280	--	--	--	--	--	5.9
JUNE											
09...	1105	281	18	800	320	3200	--	--	--	--	8.1
JULY											
16...	1430	9880	7.5	3800	210	--	--	--	--	--	3.7
AUG.											
26...	1134	233	16	--	--	--	--	--	--	--	8.4
SEP.											
23...	0910	586	11	--	--	--	--	--	--	--	6.2
25...	0945	3010	9.2	--	--	--	--	--	--	--	6.3

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
15...	2.5	24	3.0	50	--	41	10	27	.8	1.0	1.0
DEC.											
09...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
15...	1.5	3.7	2.4	9	--	7	8.3	4.2	.1	.08	.24
16...	2.0	3.8	2.2	10	--	8	8.4	3.8	.2	--	--
17...	1.5	3.4	2.1	9	--	7	8.4	3.8	.2	--	--
22...	2.0	5.0	1.9	14	--	11	9.7	5.2	.4	.42	.40
MAR.											
14...	1.5	5.0	1.7	18	--	15	8.7	6.3	.1	--	--
19...	1.1	3.1	1.5	12	--	10	8.7	3.7	.1	.24	.22
20...	1.1	2.6	1.6	12	--	10	8.1	4.0	.2	--	--
APR.											
28...	1.6	11	2.2	32	0	26	6.3	8.9	.2	.94	.96
JUNE											
09...	2.4	16	2.6	33	0	27	6.9	17	.3	1.7	1.7
JULY											
16...	1.4	3.4	2.4	11	0	9	7.4	2.7	.2	.26	.25
AUG.											
26...	2.6	18	3.4	35	0	29	10	18	.5	1.7	1.7
SEP.											
23...	1.5	12	3.1	23	0	19	10	12	.3	.96	.97
25...	1.7	5.8	2.4	22	0	18	7.4	5.5	.2	.43	.43

02087500 Neuse River near Clayton, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)
OCT.											
15...	.0	1.2	1.2	1.5	.90	.70	2.1	.20	1.9	500	3.1
DEC.											
09...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
15...	--	.05	.08	.10	.20	.37	.25	.00	.45	--	.33
16...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
22...	--	.20	.19	.24	.65	.31	.85	.35	.50	--	1.3
MAR.											
14...	--	--	--	--	--	--	--	--	--	--	--
19...	--	.10	.06	.08	.55	.34	.65	.25	.40	--	.89
20...	--	--	--	--	--	--	--	--	--	--	--
APR.											
28...	--	.00	.00	.00	1.1	.83	1.1	.27	.83	--	2.0
JUNE											
09...	.0	.52	.56	.72	.58	.44	1.1	.10	1.0	640	2.8
JULY											
16...	--	.11	.02	.03	.66	.42	.77	.33	.44	--	1.0
AUG.											
26...	--	.60	.58	.75	.80	1.0	1.4	.00	1.6	--	3.1
SEP.											
23...	--	1.2	1.2	1.5	.90	.50	2.1	.40	1.7	--	3.1
25...	--	.22	.19	.24	1.2	.31	1.4	.90	.50	--	1.8

DATE	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT.											
15...	14	.98	2.7	.90	.88	.87	360	132	119	.18	74.5
DEC.											
09...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
15...	1.5	.07	.18	.07	.04	.06	--	40	38	.05	1020
16...	--	--	--	--	--	--	--	46	37	.06	1110
17...	--	--	--	--	--	--	--	36	36	.05	875
22...	5.6	.24	.25	.09	.12	.08	--	57	47	.08	523
MAR.											
14...	--	--	--	--	--	--	--	65	47	.09	825
19...	3.9	.14	.09	.04	.06	.03	--	48	35	.07	1830
20...	--	--	--	--	--	--	--	42	35	.06	1840
APR.											
28...	9.0	.40	1.0	.39	.31	.34	--	75	65	.10	107
JUNE											
09...	12	.69	1.8	.63	.59	.58	280	116	98	.16	88.0
JULY											
16...	4.6	.20	.15	.06	.11	.05	--	34	34	.05	907
AUG.											
26...	14	.83	2.2	.75	.76	.72	--	108	94	.15	67.9
SEP.											
23...	14	.72	1.5	.54	.57	.50	--	84	67	.11	133
25...	8.1	.56	.34	.13	.19	.11	--	57	49	.08	463

02087500 Neuse River near Clayton, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
15...	30	0	61	1.9	180	6.7	17.0	30	5.0	16
DEC.										
09...	--	--	--	--	94	6.3	7.0	--	10.0	--
JAN.										
15...	17	10	28	.4	56	5.8	6.5	300	10.5	23
16...	16	8	30	.4	56	5.9	7.0	200	--	20
17...	14	7	30	.4	55	5.9	6.0	200	--	18
22...	21	9	32	.5	60	6.4	5.0	100	11.9	8.9
MAR.										
14...	19	4	34	.5	70	6.3	--	90	--	14
19...	13	3	31	.4	49	6.3	--	200	--	9.6
20...	15	5	25	.3	48	6.5	--	100	--	6.1
APR.										
28...	21	0	50	1.0	104	6.8	18.0	15	6.2	8.1
JUNE										
09...	30	3	51	1.3	146	6.5	23.0	19	5.5	17
JULY										
16...	15	6	29	.4	51	6.1	23.0	150	5.9	14
AUG.										
26...	32	3	52	1.4	162	6.6	27.0	22	3.3	14
SEP.										
23...	22	3	50	1.1	123	6.5	22.3	32	4.4	12
25...	23	5	33	.5	71	6.5	21.7	250	6.6	11

DATE	TOTAL PHYTOPLANKTON (CELLS PER ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)
OCT.												
15...	2200	4.6	8.5	6.9	--	3.1	.1	0	0	1	4	0
DEC.												
09...	1700	5.4	6.9	--	--	--	--	--	--	--	--	--
JAN.												
15...	--	--	--	12	12	--	.1	1	1	0	--	0
22...	--	--	--	14	12	--	.1	--	--	--	--	--
MAR.												
19...	--	--	--	7.8	--	--	.1	--	--	--	--	--
APR.												
28...	5700	--	--	4.9	--	--	.0	--	--	--	--	--
JUNE												
09...	28000	--	--	8.3	7.4	9.6	.2	--	--	--	--	--
JULY												
16...	--	--	--	13	--	--	.2	--	--	--	--	--
AUG.												
26...	--	--	--	5.6	--	--	.1	--	--	--	--	--
SEP.												
23...	--	--	--	11	11	--	.1	--	--	--	--	--
25...	--	--	--	19	9.2	--	.0	--	--	--	--	--

02087500 Neuse River near Clayton, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT.												
15...	0	0	<10	0	0	0	20	5	0	5	<10	13
DEC.												
09...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
15...	0	0	--	10	10	0	--	1	0	1	--	7
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
19...	--	--	--	<10	<10	0	--	--	--	--	--	70
APR.												
28...	--	--	--	<10	<10	0	--	--	--	--	--	4
JUNE												
09...	--	--	--	<10	<10	0	10	--	--	--	--	5
JULY												
16...	--	--	--	<10	<10	0	--	--	--	--	--	7
AUG.												
26...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
23...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
15...	7	6	<10	11	3	8	250	.0	.0	.0
JAN.										
15...	2	5	--	2	2	0	--	.0	.0	.0
MAR.										
19...	67	3	--	130	130	3	--	--	--	--
APR.										
28...	0	4	--	5	5	0	--	--	--	--
JUNE										
09...	0	5	<10	10	4	6	<10	--	--	--
JULY										
16...	2	5	--	14	13	1	--	--	--	--

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT.									
15...	.1	0	0	0	0	20	20	4	40
JAN.									
15...	--	0	0	0	--	7	7	0	--
MAR.									
19...	--	--	--	--	--	40	40	4	--
APR.									
28...	--	--	--	--	--	10	10	0	--
JUNE									
09...	--	--	--	--	--	8	0	20	40
JULY									
16...	--	--	--	--	--	20	0	20	--

02087500 Neuse River near Clayton, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	246	106	91	86	95	59	122	113	170	130	172
2	146	199	94	96	87	92	72	117	113	180	125	148
3	171	194	93	106	85	96	65	121	118	179	121	183
4	171	217	95	95	88	100	84	115	134	184	125	160
5	173	192	95	93	70	104	88	100	141	234	136	179
6	171	192	115	92	89	94	75	105	142	190	120	196
7	159	243	110	92	85	99	79	123	146	208	112	230
8	148	203	85	86	85	101	90	116	153	168	122	215
9	166	212	94	70	85	85	91	122	151	160	110	204
10	188	221	108	74	85	91	102	124	154	200	122	224
11	190	198	108	76	87	93	89	125	150	178	127	248
12	193	203	106	72	87	91	91	120	173	126	126	235
13	192	229	106	70	92	94	88	112	177	69	133	228
14	144	200	106	65	85	58	91	128	175	64	147	199
15	152	213	106	55	94	57	88	140	179	60	159	210
16	143	153	106	54	80	47	89	107	171	53	166	149
17	154	216	94	60	76	48	96	124	179	50	157	183
18	160	204	93	65	80	46	82	112	175	49	163	194
19	165	195	93	69	75	43	87	100	184	51	162	188
20	154	192	95	78	88	43	84	80	192	50	168	204
21	155	210	100	66	89	44	85	84	204	55	171	211
22	173	170	108	67	79	46	95	105	198	66	186	147
23	198	167	93	67	94	49	102	112	181	85	171	122
24	198	169	112	84	94	55	106	127	187	88	166	98
25	199	171	116	68	92	59	103	135	192	50	170	75
26	175	162	113	64	82	67	108	115	187	77	184	70
27	191	180	113	66	85	76	107	122	183	96	184	67
28	181	190	100	67	92	70	101	125	204	103	165	67
29	190	184	82	67	---	73	108	135	232	108	183	71
30	188	186	82	76	---	72	120	129	152	113	210	82
31	196	---	94	88	---	71	---	104	---	127	212	---
MONTH	172	197	101	75	86	73	91	116	168	116	153	165
YEAR	MAX	248	MIN	43	MEAN	126						

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.0	18.0	8.0	14.0	6.0	6.0	11.0	18.0	24.0	26.0	27.5	27.0
2	18.0	17.0	7.0	11.0	6.5	6.0	11.0	18.0	24.0	26.0	28.0	29.0
3	16.0	17.0	6.0	9.0	6.0	6.5	10.0	18.0	24.0	27.0	28.0	28.0
4	15.0	16.0	7.0	6.0	6.5	7.0	10.0	19.0	24.0	26.0	29.0	29.0
5	16.0	16.0	7.0	7.0	6.5	8.0	10.5	19.0	26.0	26.0	29.0	28.0
6	15.0	17.0	6.0	7.0	6.0	9.0	11.0	20.0	26.0	25.0	28.0	29.0
7	16.0	15.5	7.5	8.0	10.0	12.0	10.0	19.0	27.0	25.0	26.0	26.0
8	17.0	15.5	8.0	6.0	16.0	10.0	11.5	21.0	25.0	26.0	29.0	27.0
9	17.0	14.0	7.0	7.0	10.0	8.0	10.0	19.0	24.0	27.0	26.0	27.0
10	17.0	14.0	7.0	7.0	7.0	8.0	11.0	20.0	23.0	28.0	26.0	27.0
11	18.0	15.0	8.0	7.5	8.0	8.0	13.5	19.0	22.0	26.0	28.0	26.0
12	18.0	14.5	7.5	7.5	7.0	8.0	15.0	20.0	24.0	26.0	28.0	27.0
13	19.0	15.0	8.0	8.0	7.0	10.0	15.0	21.0	25.0	24.0	28.0	24.0
14	17.0	14.0	7.0	8.0	7.0	11.0	14.0	21.0	27.0	24.0	29.0	23.0
15	18.0	12.0	8.0	7.0	7.0	11.0	14.5	21.0	27.0	23.5	28.0	22.0
16	19.0	11.0	9.0	7.0	8.0	10.0	14.0	22.0	27.0	23.0	29.0	21.0
17	20.0	13.0	9.0	7.0	7.0	10.0	14.5	21.0	27.0	23.0	30.0	22.0
18	17.0	13.0	9.0	8.5	6.0	11.0	15.0	20.0	27.0	22.5	29.0	23.0
19	17.0	13.0	8.0	10.0	5.0	11.0	18.0	20.0	25.0	24.0	28.0	24.0
20	16.0	13.0	9.0	6.5	6.0	11.0	19.0	21.0	27.0	24.0	29.0	24.0
21	14.0	13.0	12.0	6.0	7.0	10.0	18.0	22.0	26.0	24.5	29.0	25.0
22	13.0	11.0	11.0	7.0	6.0	10.0	18.0	23.0	26.0	24.0	28.0	23.0
23	17.0	11.0	8.0	8.0	6.0	11.0	19.0	24.0	27.0	25.5	30.0	23.0
24	16.0	10.0	8.0	7.0	6.0	12.5	20.0	24.0	27.0	25.0	28.0	23.0
25	17.0	9.0	9.0	7.0	6.0	14.0	21.0	25.0	28.0	25.0	29.0	22.0
26	18.0	9.0	10.0	6.0	6.5	13.5	22.0	24.0	28.0	25.0	29.0	22.0
27	18.0	8.0	9.0	6.0	7.0	12.0	21.0	26.0	27.0	25.5	29.0	22.0
28	18.0	8.0	10.0	6.5	6.5	11.0	19.0	26.0	26.0	25.0	29.0	21.0
29	16.0	10.0	9.0	7.0	---	9.0	19.0	25.0	26.0	28.0	28.0	20.0
30	16.0	6.0	10.0	7.0	---	9.0	18.0	24.0	26.0	29.0	29.0	19.0
31	18.0	---	13.0	6.5	---	9.0	---	24.0	---	28.0	29.0	---
MONTH	17.0	13.0	8.5	7.5	7.0	10.0	15.0	21.5	25.5	25.5	28.5	24.5
YEAR	MAX	30.0	MIN	5.0	MEAN	17.0						

02087500 Neuse River near Clayton, N. C.--Continued

INSTANTANEOUS SUSPENDED-SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
15...	1020	209	7	4.0
JAN.				
15...	1030	9470	85	2170
16...	1300	8970	1260	30500
17...	1000	9000	390	9480
22...	1225	3400	107	982
MAR.				
19...	1430	14100	294	11200
APR.				
28...	1445	526	9	13
JUNE				
09...	1105	281	7	5.3
JULY				
16...	1430	9880	127	3390
AUG.				
26...	1134	233	4	2.5
SEP.				
23...	0910	586	30	47
25...	0945	3010	311	2530

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL MERCURY (HG) (UG/L)
OCT.												
09...	1030	259	35	130	7.4	15.0	10	6.0	--	3.9	250	--
22...	1200	357	38	110	7.1	9.0	9	7.1	50	3.1	60	--
30...	1145	244	44	140	6.8	17.0	3	4.5	<25	6.1	210	--
NOV.												
07...	1100	270	52	140	6.9	15.0	4	3.9	35	3.0	20	<.5
13...	1430	278	49	150	6.8	12.0	5	5.5	<25	3.5	40	--
JAN.												
29...	1140	4810	34	50	6.8	13.0	--	10.5	<25	1.6	450	--
FEB.												
06...	0930	5680	23	45	6.4	8.0	--	10.8	<25	1.6	3000	--
10...	1210	2930	14	45	6.9	6.0	--	10.0	<25	1.6	180	--
20...	0945	1670	24	60	6.5	10.0	--	7.2	<25	1.9	80	--
24...	1330	1110	26	75	6.5	15.0	--	9.3	35	2.0	130	--
MAR.												
04...	1135	877	15	65	6.4	7.0	--	7.5	<25	2.0	20	--
13...	1300	1100	33	75	6.4	11.0	--	8.8	<25	2.6	290	--
APR.												
10...	1130	926	31	75	6.8	14.0	--	8.8	<25	2.3	150	--
22...	1330	723	28	90	6.9	16.0	--	7.6	<25	2.4	20	--
MAY												
13...	1230	410	34	120	6.5	21.0	--	5.2	31	3.1	2500	--
JUNE												
04...	1545	553	32	140	6.8	25.0	--	4.4	<25	2.2	100	--
12...	1115	297	41	150	6.4	23.0	--	3.6	<25	1.6	380	--
17...	1600	265	47	200	7.4	27.0	--	8.2	<25	3.4	<10	--
24...	1025	191	30	90	6.3	22.0	--	3.5	<25	2.4	<10	--
JULY												
01...	1130	213	35	60	6.2	18.0	--	4.7	--	1.8	--	--
21...	1000	12100	--	60	--	22.0	--	4.9	31	2.0	60	--
28...	0950	685	--	100	6.9	22.0	--	5.7	<25	1.7	100	--
AUG.												
04...	1030	405	--	--	6.9	--	--	4.6	<25	2.8	50	--
25...	1030	237	10	--	5.6	25.0	10	1.9	<25	1.6	40	--
SEP.												
05...	1100	158	27	--	6.0	24.0	20	1.4	27	2.8	350	--
10...	1200	249	30	--	6.7	25.0	10	2.6	31	2.6	40	--
19...	1200	204	50	195	7.0	20.0	15	1.7	<25	3.5	130	--

02089500 Neuse River at Kinston, N. C.
(National Stream Quality Accounting Network Station)

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

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

PERIOD OF RECORD.--Chemical analyses: October 1949 to September 1950, January 1955 to September 1956, October 1958 to September 1967, July 1973 to September 1975.
Water temperatures: October 1949 to September 1950, January 1955 to September 1956, July 1973 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 152 micromhos July 8; minimum daily, 43 micromhos Mar. 28.
Water temperatures: Maximum, 28.5°C Aug. 17, 24; minimum, 6.0°C Dec. 6, Jan. 18.

Period of record:
Specific conductance (1955-56, 1973-75): Maximum daily, 185 micromhos Nov. 30, 1973; minimum daily, 43 micromhos Mar. 28, 1975.
Water temperatures: Maximum, 33.5°C July 3, 1956; minimum, 2.0°C Jan. 18, Feb. 14, 1955, Jan. 5, 1956.

REMARKS.--Water-quality samples are collected from highway bridge 600 ft (183 m) upstream from gaging station. Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)
OCT.											
10...	1130	760	14	1300	450	--	62	40	22	--	6.6
NOV.											
05...	1030	728	13	1000	480	14000	59	35	24	320	7.8
DEC.											
12...	1030	2950	12	1300	210	--	80	50	30	--	5.9
JAN.											
29...	1030	12000	7.7	--	--	--	--	--	--	--	3.5
FEB.											
19...	0925	6110	7.8	--	--	--	--	--	--	--	4.2
MAR.											
17...	0930	4300	8.3	1200	310	--	70	20	50	--	4.4
APR.											
01...	0940	16000	6.7	--	--	--	--	--	--	--	3.7
MAY											
27...	1115	1300	10	--	--	--	--	--	--	--	5.5
JUNE											
10...	1005	819	11	1200	230	1800	150	140	10	--	4.5
JULY											
10...	1045	490	8.6	--	--	--	--	--	--	--	7.3
23...	1325	9480	7.9	1600	330	--	--	--	--	--	4.8
AUG.											
06...	1000	1100	13	--	--	--	--	--	--	--	6.9
SEP.											
08...	1130	718	10	920	210	--	140	110	30	--	6.3

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
10...	2.3	10	2.7	27	--	22	9.8	11	.1	1.1	1.1
NOV.											
05...	2.0	12	3.1	26	--	21	10	14	.2	.81	.81
DEC.											
12...	1.8	7.7	2.7	22	--	18	9.1	9.4	.4	.67	.66
JAN.											
29...	1.4	4.2	2.1	7	--	6	8.4	5.6	.1	.48	.47
FEB.											
19...	1.5	5.4	1.7	15	--	12	8.2	5.8	.0	.66	--
MAR.											
17...	1.5	6.3	1.8	16	--	13	8.5	7.4	.1	.67	--
APR.											
01...	1.4	4.1	1.8	14	--	11	8.9	4.6	.0	.22	--
MAY											
27...	1.9	7.0	2.4	18	0	15	8.8	7.1	.4	.80	--
JUNE											
10...	2.0	9.4	2.4	29	0	24	7.3	9.3	.2	.23	--
JULY											
10...	2.5	15	2.8	36	0	30	9.1	15	.2	.09	--
23...	1.1	3.5	2.7	10	0	8	9.6	3.6	.3	.14	--
AUG.											
06...	1.9	7.7	2.8	23	0	19	9.5	7.5	.4	.31	--
SEP.											
08...	2.1	8.0	3.0	22	0	18	13	8.5	.3	.44	--

02089500 Neuse River at Kinston, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)
OCT.											
10...	--	.04	.01	.01	.46	.44	.50	.05	.45	--	1.6
NOV.											
05...	2.0	.02	.00	.00	.50	.47	.52	.05	.47	62	1.3
DEC.											
12...	--	.27	.16	.21	.42	.46	.69	.07	.62	--	1.4
JAN.											
29...	--	.08	.00	.00	.59	.39	.67	.28	.39	--	1.2
FEB.											
19...	--	--	--	--	--	--	.44	--	--	--	1.1
MAR.											
17...	--	--	--	--	--	--	.56	--	--	--	1.2
APR.											
01...	--	--	--	--	--	--	.47	--	--	--	.69
MAY											
27...	--	--	--	--	--	--	.56	--	--	--	1.4
JUNE											
10...	.5	--	--	--	--	--	1.0	--	--	170	1.2
JULY											
10...	--	--	--	--	--	--	1.1	--	--	--	1.2
23...	--	--	--	--	--	--	.50	--	--	--	.64
AUG.											
06...	--	--	--	--	--	--	.82	--	--	--	1.1
SEP.											
08...	--	--	--	--	--	--	1.1	--	--	--	1.5

DATE	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT.											
10...	7.1	.27	.49	.18	.18	.16	--	92	70	.13	189
NOV.											
05...	5.9	.27	.55	.18	.16	.18	110	75	80	.10	147
DEC.											
12...	6.0	.33	.37	.16	.25	.12	--	69	60	.09	550
JAN.											
29...	5.1	.09	.09	.06	.06	.03	--	53	36	.07	1720
FEB.											
19...	4.9	.13	--	--	--	--	--	39	42	.05	643
MAR.											
17...	5.4	.17	--	--	--	--	--	62	47	.08	720
APR.											
01...	3.1	.08	--	--	--	--	--	48	38	.07	2070
MAY											
27...	6.0	.19	--	--	--	--	--	73	52	.10	256
JUNE											
10...	5.4	.25	--	--	--	--	120	59	61	.08	130
JULY											
10...	5.3	.26	--	--	--	--	--	93	78	.13	123
23...	2.8	.13	--	--	--	--	--	48	39	.07	1230
AUG.											
06...	5.0	.20	--	--	--	--	--	69	61	.09	205
SEP.											
08...	6.8	.30	--	--	--	--	--	54	62	.07	105

02089500 Neuse River at Kinston, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.											
10...	26	4	43	.9	102	6.8	17.0	30	8	--	6.8
NOV.											
05...	28	6	45	1.0	121	7.1	18.5	40	10	8.2	3.3
DEC.											
12...	22	4	40	.7	85	6.6	7.0	60	20	10.2	8.8
JAN.											
29...	15	9	35	.5	57	6.1	9.0	90	20	9.8	8.9
FEB.											
19...	17	4	38	.6	65	6.4	11.5	--	20	9.3	9.6
MAR.											
17...	17	4	41	.7	73	6.3	10.5	--	20	9.5	13
APR.											
01...	15	4	34	.5	56	6.3	13.0	--	21	8.5	11
MAY											
27...	22	7	38	.7	80	6.8	24.5	--	15	7.3	4.6
JUNE											
10...	19	0	46	.9	99	7.4	24.0	--	1	9.6	1.8
JULY											
10...	29	0	50	1.2	131	7.3	27.5	--	10	12.9	2.9
23...	17	8	28	.4	50	6.1	24.0	--	20	5.2	13
AUG.											
06...	25	6	37	.7	93	6.6	28.5	--	8	7.7	9.2
SEP.											
08...	24	6	38	.7	100	7.0	27.0	--	8	7.7	3.5

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL A MG/SQ M	UNCOR-RECTED PERI-PHYTON CHLORO-PHYLL B MG/SQ M	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)
OCT.										
10...	24000	--	--	--	--	--	--	5.0	--	--
NOV.										
05...	4700	--	--	110	88	--	--	5.6	--	<.1
DEC.										
12...	800	--	--	400	160	--	--	7.8	--	--
JAN.										
29...	580	--	--	96	270	--	--	15	12	--
FEB.										
19...	1400	--	--	420	1700	--	--	--	--	--
MAR.										
17...	2400	--	--	510	390	--	--	5.0	--	--
APR.										
01...	1400	--	--	92	80	--	--	--	--	--
MAY										
27...	40000	--	--	280	92	--	--	--	--	--
JUNE										
10...	170000	--	--	900	1000	--	--	13	--	.9
JULY										
10...	52000	--	--	440	80	--	--	--	--	--
23...	600	--	--	270	2400	--	--	--	--	--
AUG.										
06...	35000	--	--	160	80	--	--	--	--	--
SEP.										
08...	26000	4.5	1.9	1200	1300	10	13	15	--	--

02089500 Neuse River at Kinston, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)
OCT.									
10...	.0	1	0	1	--	0	0	0	--
NOV.									
05...	.0	1	0	1	1	0	0	0	<10
DEC.									
12...	.0	1	0	1	--	0	0	0	--
JAN.									
29...	.1	--	--	--	--	--	--	--	--
FEB.									
19...	--	--	--	--	--	--	--	--	--
MAR.									
17...	--	1	1	0	--	0	0	1	--
APR.									
01...	--	--	--	--	--	--	--	--	--
MAY									
27...	--	--	--	--	--	--	--	--	--
JUNE									
10...	--	1	0	1	--	1	1	0	--
JULY									
10...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
AUG.									
06...	--	--	--	--	--	--	--	--	--
SEP.									
08...	--	1	0	1	--	0	0	0	--

DATE	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT.									
10...	<10	<10	0	--	0	0	0	--	6
NOV.									
05...	10	10	0	<10	1	1	0	<10	19
DEC.									
12...	30	30	0	--	0	0	0	--	5
JAN.									
29...	--	--	--	--	--	--	--	--	--
FEB.									
19...	--	--	--	--	--	--	--	--	--
MAR.									
17...	12	10	2	--	2	2	0	--	6
APR.									
01...	--	--	--	--	--	--	--	--	--
MAY									
27...	--	--	--	--	--	--	--	--	--
JUNE									
10...	<10	<10	0	<10	4	4	0	--	3
JULY									
10...	--	--	--	--	--	--	--	--	--
23...	<10	<10	0	--	--	--	--	--	4
AUG.									
06...	--	--	--	--	--	--	--	--	--
SEP.									
08...	<10	<10	0	--	0	0	0	--	6

02089500 Neuse River at Kinston, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
10...	3	3	--	72	72	0	--	.0	.0	.0
NOV.										
05...	17	2	<10	3	2	1	<10	.0	.0	.1
DEC.										
12...	0	5	--	13	8	5	--	.0	.0	.0
MAR.										
17...	2	4	--	8	6	2	--	.0	.0	.0
JUNE										
10...	0	7	<10	6	4	2	<10	.1	.0	.1
JULY										
23...	1	3	--	4	4	0	--	--	--	--
SEP.										
08...	4	2	--	10	10	0	--	.5	.4	.1

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT.									
10...	--	0	0	0	--	5	5	0	--
NOV.									
05...	.0	0	0	0	0	4	4	0	40
DEC.									
12...	--	0	0	0	--	30	10	20	--
MAR.									
17...	--	0	0	0	--	10	2	8	--
JUNE									
10...	--	0	0	0	--	20	0	20	20
JULY									
23...	--	--	--	--	--	20	20	0	--
SEP.									
08...	--	0	0	0	--	10	4	6	--

02089500 Neuse River at Kinston, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	114	97	80	57	62	52	85	94	142	70	130
2	93	117	87	78	56	63	56	85	86	137	77	112
3	104	117	87	78	61	63	60	82	88	137	85	84
4	104	122	90	76	59	66	63	82	96	137	89	96
5	102	118	92	80	61	66	63	82	89	140	94	112
6	100	117	85	78	65	67	63	83	90	143	94	96
7	99	119	87	76	67	65	63	86	90	147	100	92
8	101	117	88	78	64	68	64	88	95	152	97	87
9	102	123	87	76	62	68	66	88	98	147	94	102
10	106	129	88	76	61	72	69	86	98	132	100	100
11	124	130	90	77	59	70	70	90	99	137	100	102
12	121	129	92	81	58	71	72	94	99	147	100	102
13	120	127	76	73	59	72	74	98	99	142	100	102
14	126	125	81	71	61	70	74	94	99	137	100	107
15	120	123	78	73	62	71	74	96	99	118	105	104
16	111	125	84	65	67	72	74	98	99	103	105	102
17	106	127	85	58	68	69	70	98	99	76	105	111
18	105	127	86	53	72	58	68	98	99	72	105	111
19	110	124	86	51	62	54	64	94	99	69	100	112
20	112	118	82	48	57	53	66	89	99	67	110	121
21	103	103	83	48	55	51	68	92	100	63	105	112
22	106	111	84	49	54	50	74	86	101	64	105	102
23	99	104	86	51	51	46	74	88	101	59	115	98
24	101	101	82	51	51	47	74	79	101	58	120	100
25	109	145	81	52	53	46	75	77	101	54	122	87
26	102	90	79	54	55	44	78	78	101	58	120	75
27	106	89	80	54	57	44	79	80	101	56	125	70
28	100	80	80	57	60	43	82	92	101	58	125	71
29	102	93	81	57	---	45	83	94	137	68	120	67
30	101	99	81	59	---	48	88	96	137	66	119	64
31	109	---	80	57	---	49	---	98	---	73	130	---
MONTH	106	115	85	65	60	59	70	89	100	102	104	98

YEAR MAX 152 MIN 43 MEAN 88

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	18.5	9.0	11.0	10.5	10.0	13.5	18.5	25.5	24.5	25.0	26.5
2	18.0	17.0	8.0	10.0	10.0	9.5	14.5	18.5	25.5	23.5	26.0	25.5
3	16.0	17.0	8.0	9.0	9.0	9.5	15.5	18.0	24.5	25.0	26.5	25.0
4	14.0	17.5	7.5	10.0	8.5	8.0	14.0	19.0	24.5	26.0	27.0	25.5
5	12.0	18.0	7.0	9.0	8.0	8.0	13.0	19.0	25.0	26.0	27.0	26.0
6	14.5	18.0	6.0	8.5	8.0	8.5	12.5	19.0	25.5	27.0	28.0	26.0
7	16.5	16.5	7.0	8.0	8.0	8.5	12.5	20.0	26.0	25.0	28.0	26.5
8	15.5	13.5	8.5	7.5	8.0	8.0	12.5	19.5	25.0	25.0	26.0	25.5
9	14.5	11.5	8.5	8.5	7.5	9.0	13.0	20.0	23.5	26.0	25.0	25.0
10	14.0	13.0	7.0	8.0	7.5	9.0	14.5	19.0	24.0	26.5	25.5	25.0
11	15.0	12.0	7.0	10.5	7.0	9.0	14.0	21.5	23.0	27.0	26.0	25.0
12	15.0	13.5	7.5	10.5	8.5	10.0	13.0	20.5	24.0	26.5	26.0	25.0
13	16.5	11.5	7.5	12.0	8.0	12.0	13.0	21.0	23.5	25.0	26.0	23.5
14	17.0	12.0	7.0	9.5	8.0	12.0	13.5	20.5	25.0	25.5	27.0	21.0
15	18.0	11.5	7.0	8.0	9.0	12.0	13.5	21.0	25.5	25.0	27.0	20.0
16	20.0	10.5	9.0	8.0	10.0	12.0	13.0	22.0	26.0	25.0	27.0	20.0
17	17.0	10.0	8.0	7.5	10.5	11.0	13.5	23.0	26.5	24.5	28.5	20.5
18	17.0	10.0	8.0	6.0	11.0	10.5	14.5	22.0	27.0	24.0	28.0	21.0
19	14.0	10.0	7.0	7.0	13.0	12.0	16.0	22.0	26.5	23.5	27.0	22.0
20	12.0	12.0	8.0	8.0	12.0	12.0	16.5	21.5	27.0	23.5	27.0	22.5
21	11.0	11.0	8.0	7.0	11.0	11.5	16.5	22.0	27.5	24.0	26.5	23.0
22	11.0	11.0	8.0	6.5	11.0	13.0	17.0	23.0	28.0	24.5	27.0	23.0
23	10.0	10.0	7.5	7.0	12.5	13.0	17.0	23.5	25.0	24.5	28.0	23.5
24	11.5	10.0	8.0	7.5	14.0	14.0	18.0	23.5	25.0	24.5	28.5	24.0
25	11.0	10.5	10.0	8.0	13.0	15.0	18.5	24.0	26.5	24.5	28.0	23.5
26	13.0	9.5	9.5	8.0	12.0	13.5	19.5	24.0	26.5	24.5	28.0	23.0
27	13.5	8.0	9.0	8.0	12.0	14.0	19.5	23.5	26.5	24.5	28.0	23.0
28	14.5	8.0	9.5	8.0	13.5	14.0	19.5	24.5	26.5	25.0	26.5	22.0
29	15.5	7.5	10.0	9.5	---	13.5	19.0	25.0	25.0	24.5	26.0	21.0
30	16.5	8.0	10.0	10.5	---	15.5	19.0	25.5	25.0	24.5	25.5	20.0
31	16.0	---	10.0	10.5	---	13.5	---	25.0	---	25.0	26.0	---
MONTH	15.0	12.0	8.0	8.5	10.0	11.5	15.5	21.5	25.5	25.0	27.0	23.5

YEAR MAX 28.5 MIN 6.0 MEAN 17.0

02089500 Neuse River at Kinston, N. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT.					
10...	1130	760	15	31	--
NOV.					
05...	1030	728	18	35	100
DEC.					
12...	1030	2950	45	359	84
JAN.					
29...	1030	12000	43	1390	96
FEB.					
19...	0925	6110	16	264	98
MAR.					
17...	0930	4300	78	906	97
APR.					
01...	0940	16000	14	605	96
MAY					
27...	1115	1300	44	155	97
JUNE					
10...	1005	819	16	35	77
JULY					
10...	1045	490	22	29	100
23...	1325	9480	41	1050	67
AUG.					
06...	1000	1100	19	56	80
27...	0940	599	25	40	100
SEP.					
08...	1130	718	21	41	91

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL MERCURY (HG) (UG/L)
OCT.											
07...	1200	843	--	185	--	23.0	6.9	--	.7	590	--
14...	1030	690	--	80	--	22.0	8.5	<25	1.8	30	--
21...	1030	1160	--	105	--	12.0	8.7	27	2.3	430	--
NOV.											
04...	1255	746	--	130	--	21.0	7.6	--	1.4	210	--
12...	1430	697	21	102	6.3	15.0	9.1	<25	1.5	1200	--
JAN.											
30...	1700	11300	--	70	--	11.0	9.6	32	3.0	110	--
FEB.											
11...	1530	7610	--	48	--	8.0	10.6	<25	.6	80	--
17...	1430	7380	--	125	--	11.0	9.3	<25	1.0	70	--
24...	1000	9100	--	90	--	15.0	9.1	39	.5	80	--
MAR.											
04...	1150	5800	--	55	--	5.0	10.7	28	1.2	50	--
10...	1215	3160	--	65	--	8.0	10.4	<25	.8	380	--
APR.											
03...	1210	11400	--	55	--	15.0	8.1	<25	2.0	40	--
08...	1155	5890	--	60	--	12.0	8.1	32	1.5	20	--
14...	1320	2850	--	60	--	15.0	8.4	<25	1.8	90	--
24...	1210	2670	--	110	--	18.0	7.8	<25	1.4	50	--
29...	1105	1750	--	82	--	19.0	8.0	<25	2.7	110	--
MAY											
07...	1400	1740	--	90	--	21.0	8.0	<25	1.5	890	--
27...	1550	1270	--	--	--	26.0	7.8	<25	2.2	720	--
JUNE											
02...	1345	1460	--	98	--	26.0	7.2	28	4.6	1300	--
09...	1155	903	--	115	--	19.0	8.4	27	6.8	620	--
09...	1510	883	--	87	--	28.0	7.2	<25	6.6	200	2.2
19...	1500	644	--	180	--	24.0	7.2	<25	5.8	11000	--
24...	1015	484	--	90	--	28.0	7.2	<25	4.2	500	--
JULY											
28...	1315	15700	--	55	--	22.0	7.4	31	1.2	100	<.5
AUG.											
04...	1500	1350	--	95	--	27.0	7.8	39	6.4	620	--
11...	1340	1600	--	101	--	26.0	8.3	28	6.7	200	--
SEP.											
04...	1605	1210	--	115	--	28.0	7.5	<25	3.7	300	--
15...	1540	680	20	115	7.2	24.0	8.7	27	2.9	760	--
22...	1330	1010	--	150	--	25.0	6.2	<25	1.1	3200	--
29...	1445	5630	29	115	6.7	26.0	5.1	51	.9	670	--

02090625 Turner Swamp near Eureka, N. C.

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

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

PERIOD OF RECORD.--Chemical analyses: July 1973 to September 1975 (discontinued).
Water temperatures: July 1973 to September 1975 (discontinued).

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 80 micromhos Sept. 24; minimum daily, 40 micromhos Feb. 19.
Water temperatures: Maximum, 24.0°C Aug. 18, 22-25; minimum, 8.0°C Dec. 5, Jan. 15, 21-23, Mar. 3.

Period of record:
Specific conductance: Maximum daily, 89 micromhos Dec. 9, 1973; minimum daily, 35 micromhos Aug. 6, 1974.
Water temperatures: Maximum, 25.0°C July 21, 1973, July 1, 1974; minimum, 4.0°C Feb. 10, 1974.

REMARKS.--Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)
OCT.											
10...	1330	1.1	--	--	--	--	--	--	--	--	--
NOV.											
05...	1430	1.1	11	1900	460	4500	35	11	24	20	4.8
DEC.											
09...	1040	2.9	--	--	--	--	--	--	--	--	--
APR.											
24...	1230	1.5	8.8	1100	400	--	--	--	--	--	2.6
MAY											
27...	1345	.90	11	510	120	--	--	--	--	--	2.7
JUNE											
10...	1225	.73	10	450	150	2200	--	--	--	--	1.8
AUG.											
26...	1315	.54	11	--	--	--	--	--	--	--	2.8

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
05...	.7	5.7	1.5	14	--	11	3.1	8.1	.1	.44	.33
DEC.											
09...	--	--	--	--	--	--	--	--	--	--	--
APR.											
24...	1.6	5.2	1.0	8	0	7	3.2	7.7	.1	.64	.64
MAY											
27...	.7	5.7	1.0	7	0	6	2.5	7.2	.1	.73	.72
JUNE											
10...	.5	5.4	.9	8	0	7	1.8	6.4	.1	.88	.89
AUG.											
26...	.8	5.5	1.0	9	0	7	1.8	6.4	.3	.72	.79

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL KJEL. NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL NITROGEN (N) (MG/L)
OCT.											
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
05...	3.5	.00	.00	.00	.14	.19	.14	.00	.19	650	.58
DEC.											
09...	--	--	--	--	--	--	--	--	--	--	--
APR.											
24...	--	.01	.00	.00	.34	.22	.35	.13	.22	--	.99
MAY											
27...	--	.02	.01	.01	.16	.17	.18	.00	.18	--	.91
JUNE											
10...	.5	.03	.01	.01	.05	.19	.08	.00	.20	1300	.96
AUG.											
26...	--	.01	.01	.01	.99	.99	1.0	.00	1.0	--	1.7

02090625 Turner Swamp near Eureka, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT.											
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
05...	2.6	.05	.15	.03	.02	.05	140	36	44	.05	.11
DEC.											
09...	--	--	--	--	--	--	--	--	--	--	--
APR.											
24...	4.4	.03	.03	.02	.03	.01	--	42	37	.06	.17
MAY											
27...	4.0	.05	.06	.02	.04	.02	--	59	34	.08	.14
JUNE											
10...	4.3	.04	.06	.04	.04	.02	220	32	31	.04	.06
AUG.											
26...	7.6	.06	.09	.05	.06	.03	--	41	34	.06	.06

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
10...	--	--	--	--	45	6.1	14.0	--	--	--
NOV.										
05...	15	3	43	.6	55	6.3	18.0	100	5.8	11
DEC.										
09...	--	--	--	--	55	6.0	9.0	--	9.7	--
APR.										
24...	13	7	44	.6	46	6.1	17.0	65	9.8	10
MAY										
27...	10	4	53	.8	48	6.1	20.0	38	8.1	8.9
JUNE										
10...	7	0	60	.9	47	6.9	18.0	34	8.7	1.6
AUG.										
26...	10	3	51	.7	49	6.2	23.0	22	7.4	9.1

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)
OCT.												
10...	64	18	18	--	--	--	--	--	--	--	--	--
NOV.												
05...	--	--	--	5.3	--	18	.0	1	0	1	1	0
DEC.												
09...	490	4.6	6.2	--	--	--	--	--	--	--	--	--
APR.												
24...	75	--	--	6.0	--	--	.0	--	--	--	--	--
MAY												
27...	10	--	--	7.6	6.0	--	.0	--	--	--	--	--
JUNE												
10...	120	5.2	10	2.9	--	23	.0	--	--	--	--	--
AUG.												
26...	--	--	--	2.8	--	--	.1	--	--	--	--	--

02090625 Turner Swamp near Eureka, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT.												
10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
05...	0	0	<10	10	10	0	<10	4	3	1	<10	3
DEC.												
09...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
24...	--	--	--	<10	<10	0	--	--	--	--	--	0
MAY												
27...	--	--	--	10	10	0	--	--	--	--	--	1
JUNE												
10...	--	--	--	<10	<10	0	<10	--	--	--	--	1
AUG.												
26...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
NOV.										
05...	3	0	<10	7	6	1	10	.0	.0	.0
APR.										
24...	0	0	--	21	21	0	--	--	--	--
MAY										
27...	0	2	--	5	5	0	--	--	--	--
JUNE										
10...	0	3	<10	4	1	3	<10	--	--	--

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
NOV.									
05...	.1	0	0	0	0	4	0	4	60
APR.									
24...	--	--	--	--	--	7	7	0	--
MAY									
27...	--	--	--	--	--	5	2	3	--
JUNE									
10...	--	--	--	--	--	10	0	10	10

02090625 Turner Swamp near Eureka, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	55	58	60	49	45	46	51	52	50	52	68
2	50	55	57	56	47	49	48	49	49	50	53	56
3	48	55	55	56	50	47	45	50	50	54	53	55
4	48	55	53	56	49	51	45	50	49	51	50	63
5	48	55	54	63	52	52	46	49	52	52	50	51
6	48	55	55	57	49	49	48	50	52	52	52	53
7	44	55	54	58	48	50	46	49	52	52	53	53
8	47	59	55	59	50	50	48	49	54	50	50	53
9	47	59	56	59	55	53	46	51	49	49	50	53
10	50	48	53	58	49	52	46	50	54	52	50	53
11	50	55	53	46	48	54	46	50	51	53	50	52
12	50	53	53	52	49	52	50	50	52	67	51	51
13	49	48	54	49	48	50	48	52	51	67	51	57
14	49	55	53	57	49	50	47	50	53	60	54	51
15	48	55	53	57	56	49	41	52	52	56	51	53
16	49	55	58	57	48	49	41	50	52	56	53	54
17	51	55	54	57	55	46	46	50	53	58	50	54
18	54	66	56	56	52	49	45	50	50	59	51	53
19	57	59	55	50	48	44	47	46	54	64	51	53
20	51	59	55	50	50	47	51	47	53	57	50	53
21	52	56	54	48	50	51	51	47	52	53	50	52
22	51	59	52	49	51	50	48	48	52	55	53	73
23	50	55	55	48	53	45	48	49	50	53	51	78
24	55	55	55	48	58	43	47	51	50	53	53	80
25	55	59	54	43	46	42	49	50	50	53	52	71
26	55	57	57	48	47	45	51	51	50	53	50	64
27	53	53	62	50	48	45	50	51	51	50	51	61
28	54	56	60	49	48	47	50	48	70	50	51	57
29	55	54	64	55	---	46	51	50	52	50	51	55
30	57	55	59	50	---	46	52	47	52	50	52	56
31	60	---	57	49	---	46	---	48	---	50	50	---
MONTH	51	56	56	53	50	48	47	50	52	54	51	58
YEAR	MAX	80	MIN	40	MEAN	52						

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	16.0	10.0	14.0	11.0	12.0	12.0	15.0	21.0	21.0	20.0	21.0
2	15.0	16.0	10.0	10.0	10.0	9.0	14.0	15.0	20.0	19.0	20.0	20.0
3	15.0	14.0	10.0	11.0	9.0	8.0	12.0	15.0	20.0	20.0	21.0	21.0
4	12.0	14.0	9.0	12.0	9.0	10.0	12.0	17.0	21.0	21.0	22.0	20.0
5	12.0	14.0	8.0	9.0	9.0	10.0	11.0	15.0	20.0	20.0	22.0	20.0
6	15.0	15.0	9.0	10.0	10.0	11.0	10.0	15.0	20.0	20.0	22.0	21.0
7	15.0	15.0	10.0	10.0	9.0	10.0	11.0	16.0	20.0	20.0	20.0	22.0
8	15.0	14.0	12.0	9.0	9.0	12.0	11.0	17.0	20.0	20.0	20.0	22.0
9	10.0	14.0	9.0	11.0	10.0	10.0	14.0	15.0	19.0	23.0	20.0	22.0
10	15.0	14.0	9.0	11.0	9.0	9.0	14.0	15.0	19.0	22.0	20.0	21.0
11	15.0	15.0	10.0	15.0	12.0	10.0	12.0	17.0	18.0	21.0	20.0	20.0
12	15.0	15.0	10.0	10.0	12.0	10.0	12.0	17.0	20.0	20.0	20.0	20.0
13	14.0	12.0	11.0	11.0	10.0	14.0	11.0	16.0	20.0	20.0	21.0	19.0
14	18.0	14.0	11.0	9.0	10.0	11.0	12.0	16.0	20.0	20.0	22.0	13.0
15	19.0	11.0	10.0	8.0	10.0	9.0	12.0	16.0	20.0	20.0	21.0	16.0
16	19.0	10.0	12.0	11.0	12.0	9.0	12.0	20.0	20.0	21.0	23.0	16.0
17	19.0	10.0	12.0	9.0	12.0	10.0	15.0	19.0	21.0	21.0	21.0	19.0
18	15.0	12.0	10.0	10.0	14.0	10.0	15.0	15.5	21.0	22.0	24.0	19.0
19	12.0	11.0	10.0	11.0	14.0	15.0	16.0	19.0	21.0	22.0	20.0	20.0
20	12.0	15.0	11.0	12.0	10.0	12.0	16.0	19.0	21.0	21.0	21.0	20.0
21	12.0	10.0	11.0	8.0	10.0	11.0	12.0	19.0	21.0	21.0	22.0	20.0
22	10.0	10.0	10.0	8.0	10.0	14.0	15.0	20.0	20.0	21.0	24.0	20.0
23	12.0	11.0	10.0	8.0	12.0	15.0	16.0	20.0	20.0	21.0	24.0	22.0
24	12.0	12.0	11.0	10.0	15.0	15.0	14.0	20.0	20.0	21.0	24.0	22.0
25	12.0	15.0	15.0	12.0	11.0	15.0	14.0	20.0	21.0	21.0	24.0	21.0
26	15.0	10.0	10.0	10.0	12.0	12.0	16.0	20.0	21.0	22.0	23.0	21.0
27	16.0	9.0	10.0	10.0	12.0	10.0	12.0	20.0	20.0	21.0	22.0	21.0
28	16.0	12.0	11.0	10.0	12.0	12.0	16.0	19.0	20.0	21.0	22.0	20.0
29	14.0	12.0	11.0	12.0	---	10.0	15.0	20.0	21.0	21.0	22.0	16.0
30	15.0	15.0	12.0	11.0	---	12.0	12.0	20.0	21.0	20.0	22.0	20.0
31	14.0	---	12.0	12.0	---	14.0	---	21.0	---	20.0	22.0	---
MONTH	14.5	13.5	10.5	10.5	11.0	11.5	14.0	18.0	20.0	21.0	21.5	20.0
YEAR	MAX	24.0	MIN	8.0	MEAN	15.5						

02090625 Turner Swamp near Eureka, N. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
NOV.				
05...	1430	1.1	46	.14
APR.				
24...	1230	1.5	8	.03
MAY				
27...	1345	.90	7	.02
JUNE				
10...	1225	.73	11	.02
AUG.				
26...	1315	.54	8	.01
SEP.				
03...	1125	.57	10	.02

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CaCO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
07...	1300	1.1	--	80	--	20.0	8.2	--	.3	80
14...	1200	1.3	--	65	--	18.0	8.3	<25	1.3	20
21...	1300	1.3	--	70	--	11.0	9.1	27	1.5	110
NOV.										
04...	1050	.90	3	52	8.5	16.5	5.7	--	1.6	40
12...	1345	1.3	3	50	5.2	15.0	6.6	<25	1.0	10
JAN.										
30...	0830	4.8	--	60	--	12.0	9.4	28	.4	10
FEB.										
11...	1030	3.8	--	40	--	9.0	10.3	<25	1.6	50
17...	1000	9.0	--	180	--	12.0	8.9	<25	1.0	100
24...	1100	5.2	--	65	--	15.0	7.9	35	.9	10
MAR.										
03...	1130	4.7	--	40	--	7.0	9.2	<25	1.3	30
10...	1055	3.0	--	45	--	8.0	9.8	<25	.5	70
APR.										
03...	1035	5.9	--	45	--	14.0	8.2	35	3.1	6000
07...	1210	2.3	--	45	--	10.5	8.1	<25	1.5	30
15...	1330	5.9	--	40	--	12.0	7.8	<25	2.0	3600
24...	1020	5.0	--	90	--	17.0	8.0	<25	1.3	<10
29...	1300	.70	--	50	--	16.0	8.3	<25	3.1	<10
MAY										
07...	1225	.86	--	52	--	17.0	8.1	<25	.5	30
27...	1330	.94	--	55	--	21.0	7.6	<25	.8	20
JUNE										
02...	1200	2.0	--	68	--	20.0	7.4	<25	2.9	30
09...	1030	.76	--	52	--	20.0	8.7	<25	.5	30
19...	1130	.80	--	68	--	22.0	8.0	<25	.5	20
24...	1300	.70	--	65	--	28.0	6.4	<25	.8	<10
AUG.										
11...	1430	.60	--	48	--	23.0	7.0	<25	1.0	150
SEP.										
04...	1000	.47	--	52	--	24.0	7.2	<25	1.0	120
22...	1445	1.1	--	97	--	24.0	5.2	35	2.8	2700
29...	1530	.62	19	68	6.1	24.0	6.7	31	1.0	850

02091836 Neuse River at Streets Ferry near Vanceboro, N. C.
(Radiochemical station)

LOCATION.--Lat 35°12'20", long 77°07'40", Craven County, at bridge on Secondary Road 1400 at Streets Ferry, 1.4 mi (2.3 km) above the Gut, and 7 mi (11 km) south of Vanceboro.

DRAINAGE AREA.--4,040 mi^2 (10,460 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1954 to September 1966, water years 1969-75 (partial-record station). Water temperatures: October 1954 to September 1964.

EXTREMES.--1954-66:
Chloride: Maximum, 6,630 mg/l Oct. 15, 1954; minimum, 3.0 mg/l June 22-30, 1961.
Specific conductance: Maximum daily, 17,800 micromhos Oct. 15, 1954; minimum daily, 25 micromhos Mar. 11, 1966.
Water temperatures: Maximum, 33.5°C June 29, 30 (T), 1959, and July 7, 22 (T), 1962; minimum, 0.5°C Feb. 19 (B), 1958.

REMARKS.--Tritium determinations for period February to September 1975 were not available at time of this publication. Salinity station prior to October 1966; chemical analyses and temperature values were determined on integrated samples collected three times daily from September 1954 to September 1957, and top (T) and bottom (B) samples collected once daily from October 1957 to September 1964. Extremes were not published during water years 1965-66 due to insufficient data; however, for the period-of-record extremes, the minimum specific conductance occurred in water year 1966. Daily records of specific conductance for water years 1954-64 available in files of district office in Raleigh, N. C. Records prior to water year 1958 published as Neuse River near Vanceboro.

WATER QUALITY DATA, PERIOD JANUARY 1973 TO JANUARY 1975

DATE	TRITIUM IN WATER MOLECULES (UNITS)	TRITIUM IN WATER MOLECULES (COUNT. ERROR)	DATE	TRITIUM IN WATER MOLECULES (UNITS)	TRITIUM IN WATER MOLECULES (COUNT. ERROR)
1973			FEB.		
JAN.			18...	78.3	4.9
16...	63.8	3.8	MAR.		
FEB.			18...	65.7	2.1
28...	62.8	2.8	APR.		
MAR.			16...	66.1	3.7
22...	69.1	2.0	30...	60.9	3.2
APR.			JUNE		
23...	79.2	2.4	21...	69.0	3.0
MAY			JULY		
19...	63.7	4.5	04...	61.9	3.4
JUNE			AUG.		
23...	71.9	3.9	01...	84.7	2.2
AUG.			SEP.		
01...	131	5.0	03...	79.1	3.6
26...	86.6	4.0	OCT.		
SEP.			04...	71.4	2.5
28...	68.6	4.3	30...	75.0	2.7
NOV.			DEC.		
02...	83.8	4.5	03...	58.3	3.4
DEC.			1975		
16...	101	5.0	JAN.		
1974			02...	51.6	2.5
JAN.					
19...	83.2	4.0			

02091960 Creeping Swamp near Calico, N. C.

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

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

PERIOD OF RECORD.--Chemical analyses: July 1974 to May 1975 (discontinued).

WATER QUALITY DATA, JULY 1974 TO MAY 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)
JULY											
31...	1315	.01	1.5	--	--	--	--	--	--	--	4.4
OCT.											
01...	1430	.66	11	3100	750	1800	15	15	0	20	1.9
JAN.											
13...	1720	64	4.9	330	230	--	35	13	22	--	2.2
14...	1115	61	5.2	--	--	--	--	--	--	--	2.2
15...	1125	48	5.4	--	--	--	--	--	--	--	3.3
17...	1145	24	5.3	180	80	--	17	0	17	--	2.2
FEB.											
13...	1125	9.8	2.4	--	--	--	--	--	--	--	.8
APR.											
28...	1200	2.2	3.8	1500	430	--	--	--	--	--	1.1
MAY											
21...	1325	.25	7.0	5000	640	--	--	--	--	--	1.6

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
JULY											
31...	.6	3.7	1.8	8	--	7	6.1	7.2	.0	.06	.01
OCT.											
01...	.8	3.2	1.0	1	--	1	4.1	6.6	.1	.01	.01
JAN.											
13...	1.0	3.3	1.0	2	--	2	6.4	5.9	.2	.02	.01
14...	1.0	3.1	1.0	2	--	2	6.3	5.2	.3	--	--
15...	1.0	3.3	1.0	2	--	2	6.5	6.8	.2	.05	.05
17...	1.0	3.1	.8	2	--	2	5.8	5.3	.2	.06	.06
FEB.											
13...	.7	2.9	.6	2	--	2	6.2	5.7	.0	--	--
APR.											
28...	.4	3.0	.7	2	0	2	3.0	6.2	.1	.01	.01
MAY											
21...	.6	3.2	.8	2	0	2	2.6	6.8	.1	.01	.01

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL KJEL. NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL NITROGEN (N) (MG/L)
JULY											
31...	--	.30	.31	.40	.60	.61	.90	.00	.92	--	.96
OCT.											
01...	.0	.14	.14	.18	.76	.48	.90	.28	.62	65	.91
JAN.											
13...	--	.00	.00	.00	.31	.27	.31	.04	.27	--	.33
14...	--	--	--	--	--	--	--	--	--	--	--
15...	--	.00	.00	.00	.29	.26	.29	.03	.26	--	.34
17...	--	.00	.00	.00	.26	.22	.26	.04	.22	--	.32
FEB.											
13...	--	--	--	--	--	--	--	--	--	--	--
APR.											
28...	--	.00	.02	.03	.47	.39	.47	.06	.41	--	.48
MAY											
21...	--	.24	.22	.28	.86	.30	1.1	.58	.52	--	1.1

NEUSE RIVER BASIN

02091960 Creeping Swamp near Calico, N. C.--Continued

WATER QUALITY DATA, JULY 1974 TO MAY 1975

DATE	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
JULY											
31...	4.3	.04	.00	.01	.01	.00	--	70	29	.10	.00
OCT.											
01...	4.0	.02	.00	.01	.00	.00	730	39	30	.05	.07
JAN.											
13...	1.5	.01	.00	.00	.00	.00	--	27	26	.04	4.67
14...	--	--	--	--	--	--	--	35	25	.05	5.76
15...	1.5	.01	.00	.00	.00	.00	--	22	29	.03	2.85
17...	1.4	.01	.00	.01	.01	.00	--	38	25	.05	2.46
FEB.											
13...	--	--	--	--	--	--	--	22	20	.03	.58
APR.											
28...	2.1	.01	.00	.01	.01	.00	--	36	20	.05	.21
MAY											
21...	4.9	.05	.00	.01	.00	.00	--	43	25	.06	.03

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
JULY										
31...	13	7	34	.4	70	4.9	24.5	200	1.0	161
OCT.										
01...	8	7	43	.5	34	4.6	--	200	--	40
JAN.										
13...	10	8	40	.5	43	5.0	--	40	--	32
14...	10	8	38	.4	44	5.0	7.0	50	8.6	32
15...	12	11	35	.4	45	4.9	--	50	--	40
17...	10	8	39	.4	45	5.0	6.0	30	--	32
FEB.										
13...	5	3	53	.6	42	4.8	--	20	--	51
APR.										
28...	4	3	55	.6	33	4.8	16.0	100	3.6	51
MAY										
21...	6	5	48	.5	36	5.1	21.0	90	1.7	25

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)
JULY												
31...	--	--	--	22	--	--	.0	--	--	--	--	--
OCT.												
01...	130	30	--	22	18	1.3	.1	1	0	1	4	1
JAN.												
13...	--	--	--	8.1	--	--	1.0	0	0	0	--	0
15...	--	--	--	10	10	--	--	--	--	--	--	--
17...	--	--	--	8.3	8.5	--	.1	1	1	0	--	0
APR.												
28...	--	4	12	21	22	--	.0	--	--	--	--	--
MAY												
21...	--	78	38	25	25	--	.0	--	--	--	--	--

NEUSE RIVER BASIN

02091960 Creeping Swamp near Calico, N. C.--Continued

WATER QUALITY DATA, JULY 1974 TO MAY 1975

DATE	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT.												
01...	0	1	<10	<10	<10	0	<10	7	5	2	<10	5
JAN.												
13...	0	0	--	<10	<10	0	--	0	0	0	--	0
15...	--	--	--	--	--	--	--	--	--	--	--	--
17...	0	0	--	<10	<10	0	--	0	0	1	--	1
APR.												
28...	--	--	--	<10	<10	0	--	--	--	--	--	1
MAY												
21...	--	--	--	20	19	1	--	--	--	--	--	3

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
01...	0	--	<10	10	6	4	10	.0	.0	.0
JAN.										
13...	0	0	--	0	0	0	--	.0	.0	.0
17...	0	1	--	1	1	0	--	.0	.0	.0
APR.										
28...	0	3	--	8	8	0	--	--	--	--
MAY										
21...	3	0	--	10	9	1	--	--	--	--

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT.									
01...	.5	0	0	0	0	10	0	20	<10
JAN.									
13...	--	0	0	0	--	6	6	0	--
17...	--	0	0	0	--	20	20	0	--
APR.									
28...	--	--	--	--	--	20	20	0	--
MAY									
21...	--	--	--	--	--	10	7	3	--

02091960 Creeping Swamp near Calico, N. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, OCTOBER 1974 TO JUNE 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
01...	1430	.66	16	.03
DEC.				
12...	1245	9.8	3	.08
17...	1435	7.1	1	.02
JAN.				
09...	1159	16	2	.09
14...	1115	61	6	.99
15...	1125	43	4	.52
17...	1145	24	3	.19
MAR.				
05...	1615	8.2	4	.09
APR.				
01...	1312	5.3	8	.11
24...	1305	5.8	37	.58
28...	1200	2.2	12	.07
30...	1202	1.7	9	.04
MAY				
21...	1325	.25	30	.02
JUNE				
04...	1745	2.7	7	.05

02091970 Creeping Swamp near Vanceboro, N. C.

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

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

PERIOD OF RECORD.--Chemical analyses: July 1974 to June 1975 (discontinued).
Water temperatures: July 1974 to September 1975 (discontinued).

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 120 micromhos Nov. 6; minimum daily 36 micromhos Apr. 16, 18.
Water temperatures: Maximum, 27.0°C Aug. 18, 19, 24-27; minimum, 5.5°C on several days during winter months.

Period of record:
Specific conductance: Maximum daily, 120 micromhos Nov. 6, 1974; minimum daily, 36 micromhos Apr. 16, 18, 1975.
Water temperatures: Maximum, 27.0°C Aug. 18, 19, 24-27, 1975; minimum 5.5°C on several days during winter months.

WATER QUALITY DATA, OCTOBER 1974 TO JUNE 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)
OCT.											
01...	1500	2.6	12	4500	1300	460	170	10	160	<10	5.5
JAN.											
11...	1605	51	6.8	--	--	--	--	--	--	--	3.7
13...	1600	120	6.3	540	180	--	31	21	10	--	3.3
14...	1040	156	6.3	520	240	--	35	25	10	--	5.0
15...	1030	150	6.4	--	--	--	--	--	--	--	3.8
17...	1220	86	6.4	400	150	--	36	26	10	--	4.4
FEB.											
13...	1050	33	1.3	--	--	--	--	--	--	--	2.5
APR.											
28...	1125	12	5.2	1400	550	--	--	--	--	--	3.8
MAY											
21...	1200	.17	9.3	4000	1600	--	--	--	--	--	5.7
JUNE											
18...	1300	.17	8.9	4200	1200	1100	--	--	--	--	4.9

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
01...	1.0	4.5	1.4	8	--	7	5.3	7.8	.2	.04	.01
JAN.											
11...	1.0	4.2	1.1	6	--	5	7.5	7.3	.2	--	--
13...	1.0	3.6	1.2	6	--	5	5.7	6.2	.3	.04	.02
14...	1.0	3.6	1.3	6	--	5	6.2	6.0	.3	.04	.03
15...	1.0	3.6	1.1	6	--	5	6.6	5.8	.3	--	--
17...	1.0	3.5	.9	4	--	3	6.1	6.8	.3	.01	.01
FEB.											
13...	.9	3.5	.7	2	--	2	5.9	6.5	.0	--	--
APR.											
28...	.8	3.9	1.0	8	0	7	3.9	6.9	.2	.04	.04
MAY											
21...	1.3	5.0	1.7	26	0	21	3.5	7.7	.2	.01	.01
JUNE											
18...	1.2	4.7	1.5	19	0	16	4.4	7.2	.6	.01	.01

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL KJEL. NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL NITROGEN (N) (MG/L)
OCT.											
01...	.0	.01	.03	.04	1.1	.72	1.1	.35	.75	30	1.1
JAN.											
11...	--	--	--	--	--	--	--	--	--	--	--
13...	--	.06	.04	.05	.42	.34	.48	.10	.38	--	.52
14...	--	.07	.06	.08	.41	.33	.48	.09	.39	--	.52
15...	--	--	--	--	--	--	--	--	--	--	--
17...	--	.01	.01	.01	.33	.24	.34	.09	.25	--	.35
FEB.											
13...	--	--	--	--	--	--	--	--	--	--	--
APR.											
28...	--	.02	.03	.04	.60	.47	.62	.12	.50	--	.66
MAY											
21...	--	.94	.83	1.1	1.2	.57	2.1	.70	1.4	--	2.1
JUNE											
18...	.0	.54	.52	.67	1.1	1.1	1.6	.00	1.6	360	1.6

NEUSE RIVER BASIN

02091970 Creeping Swamp near Vanceboro, N. C.--Continued

WATER QUALITY DATA, OCTOBER 1974 TO JUNE 1975

DATE	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT.											
01...	5.0	.09	.03	.03	.07	.01	79	45	43	.06	.32
JAN.											
11...	--	--	--	--	--	--	--	48	35	.07	6.61
13...	2.3	.05	.03	.03	.03	.01	--	36	31	.05	11.7
14...	2.3	.05	.06	.03	.03	.02	--	46	33	.06	19.4
15...	--	--	--	--	--	--	--	39	32	.05	15.8
17...	1.6	.01	.00	.01	.01	.00	--	33	32	.04	7.66
FEB.											
13...	--	--	--	--	--	--	--	27	22	.04	2.41
APR.											
28...	2.9	.05	.03	.02	.02	.01	--	60	30	.08	1.94
MAY											
21...	9.3	.14	.06	.05	.05	.02	--	79	50	.11	.04
JUNE											
18...	7.1	.13	.03	.03	.03	.01	36	89	44	.12	.04

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
01...	18	11	33	.5	48	5.5	--	200	--	40
JAN.										
11...	13	8	38	.5	53	6.2	12.0	90	--	6.1
13...	12	7	36	.4	50	5.7	--	90	--	19
14...	17	12	30	.4	51	5.6	7.5	80	8.4	24
15...	14	9	34	.4	49	5.6	--	80	--	24
17...	15	12	32	.4	48	5.5	6.0	60	--	20
FEB.										
13...	10	8	41	.5	45	4.8	--	40	--	51
APR.										
28...	13	6	38	.5	44	5.7	15.5	110	3.8	26
MAY										
21...	20	0	33	.5	68	6.5	20.5	75	.8	13
JUNE										
18...	17	2	35	.5	61	6.2	24.0	130	1.3	19

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)
OCT.												
01...	620	210	--	18	--	.5	.0	2	1	1	1	0
JAN.												
13...	--	--	--	13	--	--	.1	0	0	0	--	0
14...	--	--	--	14	15	--	.1	0	0	0	--	0
17...	--	--	--	9.9	--	--	.1	0	0	0	--	0
APR.												
28...	--	24	40	16	--	--	.0	--	--	--	--	--
MAY												
21...	--	80	60	24	25	--	.0	--	--	--	--	--
JUNE												
18...	--	94	170	35	24	8.4	.1	--	--	--	--	--

02091970 Creeping Swamp near Vanceboro, N.C.--Continued

WATER QUALITY DATA, OCTOBER 1974 TO JUNE 1975

DATE	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT.												
01...	0	0	<10	<10	<10	0	<10	3	0	3	<10	4
JAN.												
13...	0	0	--	<10	<9	1	--	0	0	1	--	1
14...	0	0	--	<10	<10	0	--	0	0	0	--	1
17...	0	1	--	<10	<10	0	--	1	1	0	--	5
APR.												
28...	--	--	--	<10	<10	0	--	--	--	--	--	1
MAY												
21...	--	--	--	<10	<10	0	--	--	--	--	--	4
JUNE												
18...	--	--	--	<10	<7	3	<10	--	--	--	--	0

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
01...	0	6	<10	7	0	7	<10	.0	.0	.0
JAN.										
13...	0	1	--	0	0	2	--	.0	.0	.0
14...	0	2	--	2	2	0	--	--	--	.0
17...	4	1	--	4	4	0	--	.0	.0	.0
APR.										
28...	0	1	--	10	9	1	--	--	--	--
MAY										
21...	3	1	--	4	1	3	--	--	--	--
JUNE										
18...	0	1	<10	--	--	1	20	--	--	--

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT.									
01...	.4	0	0	0	0	10	5	5	<10
JAN.									
13...	--	0	0	0	--	0	0	4	--
14...	--	0	0	0	--	0	0	0	--
17...	--	0	0	0	--	0	0	0	--
APR.									
28...	--	--	--	--	--	10	10	0	--
MAY									
21...	--	--	--	--	--	10	8	2	--
JUNE									
18...	--	--	--	--	--	--	--	0	40

02091970 Creeping Swamp near Vanceboro, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), OCTOBER 1974 TO JUNE 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	91	72	54	46	40	53	45	48	---	---	---
2	52	93	93	53	46	41	54	45	53	---	---	---
3	50	95	117	53	53	41	56	44	55	---	---	---
4	45	95	112	53	53	45	43	45	54	---	---	---
5	50	103	66	54	50	41	46	45	54	---	---	---
6	49	120	78	53	43	40	45	46	52	---	---	---
7	50	110	87	53	45	40	46	46	53	---	---	---
8	65	90	104	56	53	41	46	50	53	---	---	---
9	69	92	81	53	46	42	45	66	53	---	---	---
10	58	110	59	53	47	44	43	51	55	---	---	---
11	52	90	57	54	46	43	43	51	54	---	---	---
12	58	73	55	55	48	42	47	52	53	---	---	---
13	60	78	56	53	45	43	47	56	55	---	---	---
14	57	80	57	54	44	46	43	54	63	---	---	---
15	78	78	59	52	43	46	50	62	60	---	---	---
16	72	69	55	52	43	43	36	62	62	---	---	---
17	70	70	49	52	51	43	37	62	64	---	---	---
18	75	71	55	50	47	43	36	60	61	---	---	---
19	98	70	54	51	52	44	38	61	62	---	---	---
20	108	68	59	50	42	44	40	61	62	---	---	---
21	75	70	57	53	43	43	40	66	63	---	---	---
22	75	70	57	52	41	41	40	67	63	---	---	---
23	65	68	57	52	41	42	41	66	64	---	---	---
24	60	75	56	53	41	44	41	67	63	---	---	---
25	62	73	48	54	45	41	40	66	64	---	---	---
26	75	72	55	53	41	43	41	66	63	---	---	---
27	62	80	50	51	42	43	42	54	62	---	---	---
28	62	62	52	51	41	42	44	54	60	---	---	---
29	100	65	54	50	---	44	43	54	60	---	---	---
30	90	70	56	50	---	45	44	48	59	---	---	---
31	100	---	56	52	---	52	---	49	---	---	---	---
MONTH	67	82	65	53	46	43	44	56	58	---	---	---
YEAR	MAX	120	MIN	36	MEAN	57						

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	15.0	10.0	11.0	12.0	12.0	14.0	17.0	21.5	22.0	23.5	26.0
2	16.0	15.0	9.5	11.0	10.0	11.5	15.0	17.0	22.0	21.0	23.5	26.0
3	14.0	15.0	8.5	8.0	8.5	5.5	16.0	17.0	22.0	20.0	23.5	25.0
4	11.5	15.5	6.5	8.0	7.0	5.5	14.0	16.5	21.5	20.5	24.0	25.0
5	10.5	16.0	6.0	8.5	8.5	5.5	11.5	17.0	21.0	21.5	25.5	25.0
6	10.5	16.5	5.5	7.0	9.5	7.0	11.0	16.5	21.0	21.5	26.0	25.5
7	13.0	16.5	6.0	7.0	9.5	9.0	11.5	17.0	21.5	21.5	26.0	26.0
8	15.0	15.0	9.0	7.0	8.0	11.0	11.5	17.0	22.0	21.5	25.0	24.5
9	15.0	12.0	10.5	9.0	8.0	8.5	14.0	17.0	21.0	22.0	24.5	24.0
10	14.5	11.5	6.5	9.5	7.0	6.5	14.5	16.5	20.0	23.0	24.0	24.0
11	13.5	11.0	5.5	12.0	8.0	8.0	13.5	16.0	20.0	23.5	24.0	24.0
12	13.5	11.0	6.0	14.5	10.0	10.5	11.5	16.0	20.0	23.5	24.5	23.5
13	14.0	11.5	8.5	14.5	9.5	13.0	11.5	17.0	20.0	23.5	24.5	23.5
14	15.0	11.0	9.5	11.0	9.0	13.0	12.0	18.5	21.0	23.5	25.0	20.0
15	15.5	10.5	8.5	7.0	8.0	13.5	12.0	18.5	21.0	23.5	25.5	19.0
16	16.5	10.0	8.0	6.0	9.5	12.0	12.0	19.0	22.0	23.5	26.0	18.5
17	18.0	9.5	9.5	5.5	11.5	11.0	14.0	19.5	22.0	23.5	26.5	18.5
18	18.0	9.0	7.0	6.0	13.5	9.5	15.0	20.0	24.0	23.5	27.0	18.5
19	16.0	8.5	5.5	7.0	14.5	11.0	16.5	20.0	23.0	23.5	27.0	19.0
20	12.0	10.5	6.0	9.5	14.5	13.5	19.5	20.0	23.0	23.5	26.5	20.0
21	10.0	12.0	8.0	8.5	11.5	14.0	17.0	20.0	24.0	23.5	26.5	20.5
22	9.0	10.5	8.0	7.0	10.5	14.0	15.0	20.0	23.5	23.5	26.5	21.5
23	8.5	9.0	7.0	6.5	11.5	15.0	16.5	20.5	22.0	24.0	26.5	21.5
24	9.0	8.5	8.0	6.5	15.5	16.5	18.0	20.5	22.0	24.0	27.0	21.5
25	10.5	10.0	10.5	9.5	15.5	18.5	19.0	21.0	22.0	24.0	27.0	23.0
26	12.0	10.0	11.5	10.5	13.5	16.0	20.0	21.0	23.0	24.5	27.0	23.0
27	13.5	7.0	9.0	10.0	12.0	13.0	19.0	21.0	23.5	23.5	27.0	23.0
28	14.0	6.0	8.5	9.5	11.0	13.0	18.0	21.0	23.5	23.5	26.5	21.5
29	14.5	6.0	9.0	11.0	---	11.5	17.0	21.0	23.5	23.0	26.5	20.0
30	14.5	5.5	9.5	12.0	---	15.0	17.0	21.0	23.5	23.0	26.0	20.0
31	15.0	---	10.0	12.0	---	15.5	---	21.5	---	23.5	25.0	---
MONTH	13.5	11.0	8.0	9.0	10.5	11.5	15.0	19.0	22.0	23.0	25.5	22.5
YEAR	MAX	27.0	MIN	5.5	MEAN	16.0						

02091970 Creeping Swamp near Vanceboro, N. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
01...	1500	2.6	30	.21
DEC.				
14...	1405	20	16	.86
17...	1215	18	19	.92
JAN.				
01...	1035	64	10	1.7
13...	1600	120	14	4.5
14...	1040	156	4	1.7
15...	1030	150	10	4.0
17...	1220	86	5	1.2
24...	1130	80	11	2.4
31...	0500	52	6	.84
FEB.				
01...	0200	44	4	.48
02...	1330	37	4	.42
03...	1500	45	7	.85
03...	1600	45	5	.61
13...	1050	33	8	.71
19...	1300	147	11	4.4
20...	0200	220	27	16
21...	1400	240	12	7.8
22...	0200	207	8	4.5
23...	0200	141	13	4.9
24...	0200	95	8	2.1
25...	0200	86	9	2.1
MAR.				
03...	1145	35	13	1.2
19...	1400	101	27	7.4
19...	1815	120	20	6.8
20...	0700	152	30	13
21...	1330	154	11	5.0
22...	0100	147	9	3.6
23...	0100	103	12	3.3
APR.				
03...	1500	21	9	.51
15...	2200	106	41	12
16...	0100	108	27	7.9
17...	1300	125	11	3.7
18...	0100	116	13	4.1
19...	0100	88	10	2.4
24...	1200	23	13	.81
28...	1125	12	20	.65
30...	0915	9.7	17	.45
MAY				
21...	1200	.17	25	.01
JUNE				
04...	1420	22	15	.89
18...	1300	.17	23	.01
JULY				
09...	1335	.17	17	.01

02098200 Haw River near Haywood, N. C.

LOCATION (Revised).--Lat 35°38'56", long 79°03'59", Chatham County, at bridge on Secondary Road 1011 at Haywood, 1.1 mi (1.8 km) downstream from bridge on U. S. Highway 1, 1.5 mi (2.4 km) upstream from mouth, 2.4 mi (3.9 km) downstream from gaging station, and 2.7 mi (4.3 km) downstream from B. Everett Jordan Dam (under construction).

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

PERIOD OF RECORD.--Chemical analyses: July 1973 to September 1975 (discontinued).
Water temperatures: July 1973 to September 1975 (discontinued).

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 319 micromhos Oct. 23; minimum daily, 44 micromhos June 4.
Water temperatures: Maximum, 28.5°C Aug. 5, 6, 18; minimum, 2.0°C Jan. 3.

Period of record:
Specific conductance: Maximum daily, 572 micromhos Nov. 11, 1973; minimum daily, 44 micromhos June 4, 1975.
Water temperatures: Maximum 31.0°C Aug. 31, 1973; minimum, 2.0°C Dec. 19, 1973, Jan. 3, 1975.

REMARKS.--Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT.											
15...	1105	350	9.4	690	60	--	36	6	30	10	4.0
DEC.											
09...	1400	8060	--	--	--	--	--	--	--	--	--
JAN.											
09...	0815	3300	4.3	--	--	--	--	--	--	7.2	2.7
12...	0845	10600	7.1	--	--	--	--	--	--	5.0	1.7
13...	1615	10700	9.2	--	--	--	--	--	--	4.4	2.0
15...	1400	11200	7.8	3500	150	--	140	120	23	5.6	2.0
17...	1215	9390	8.4	--	--	--	--	--	--	4.4	2.0
23...	0900	6610	9.8	--	--	--	--	--	--	5.6	2.0
MAY											
13...	1150	850	15	1200	300	--	--	--	--	8.9	3.6
JUNE											
09...	1326	520	13	2800	420	11000	--	--	--	10	2.7
JULY											
16...	1545	14400	7.5	5900	200	--	--	--	--	4.9	1.7

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)
OCT.											
15...	40	4.0	75	--	62	26	29	.5	2.0	1.3	--
DEC.											
09...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
09...	10	2.1	35	0	29	12	9.0	.2	--	--	--
12...	2.9	2.6	14	--	11	8.1	3.0	.3	.40	.37	--
13...	3.6	2.4	16	--	13	9.4	3.7	.2	--	--	--
15...	3.0	2.2	14	--	11	8.8	3.6	.3	--	--	--
17...	3.7	2.5	14	--	11	8.5	3.8	.4	--	--	--
23...	2.0	2.0	14	--	11	10	4.5	.4	.27	.25	--
MAY											
13...	22	3.1	56	0	46	14	15	.4	2.7	1.5	--
JUNE											
09...	12	2.6	41	0	34	9.7	9.1	.2	.65	.64	.0
JULY											
16...	2.6	2.3	14	0	11	6.5	2.4	.0	.38	.39	--

02098200 Haw River near Haywood, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)
OCT.											
15...	.01	.01	.01	.88	.72	.89	.16	.73	--	2.9	13
DEC.											
09...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
09...	--	--	--	--	--	--	--	--	--	--	--
12...	.18	.11	.14	1.3	.47	1.5	.92	.58	--	1.9	8.4
13...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
23...	.10	.10	.13	.59	.29	.69	.30	.39	--	.96	4.3
MAY											
13...	.03	.04	.05	.83	.65	.86	.17	.69	--	3.6	16
JUNE											
09...	.04	.03	.04	.57	.30	.61	.28	.33	1400	1.3	5.6
JULY											
16...	.11	.03	.04	.54	.42	.65	.20	.45	--	1.0	4.6

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT.										
15...	.78	2.0	.71	.66	.65	--	167	160	.23	158
DEC.										
09...	--	--	--	--	--	--	--	--	--	--
JAN.										
09...	--	--	--	--	--	--	79	65	.11	704
12...	.53	.15	.06	.11	.05	--	44	40	.06	1260
13...	--	--	--	--	--	--	57	43	.08	1650
15...	--	--	--	--	--	--	50	40	.07	1510
17...	--	--	--	--	--	--	35	41	.05	887
23...	.14	.18	.07	.09	.06	--	59	43	.08	1050
MAY										
13...	.63	1.4	.52	.45	.44	--	126	110	.17	289
JUNE										
09...	.32	.49	.20	.21	.16	680	84	83	.11	118
JULY										
16...	.20	.12	.05	.10	.04	--	52	35	.07	2020

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
15...	41	0	65	2.7	270	8.5	18.0	20	11.2	.4
DEC.										
09...	--	--	--	--	86	6.3	6.0	--	12.0	--
JAN.										
09...	29	0	41	.8	115	7.4	5.0	25	--	2.2
12...	19	8	22	.3	59	6.0	11.0	400	11.8	22
13...	19	6	26	.4	70	6.2	9.0	200	12.8	16
15...	22	11	21	.3	61	6.5	6.0	300	13.8	7.1
17...	19	8	26	.4	65	6.4	7.0	400	--	8.9
23...	22	11	15	.2	61	6.3	5.0	200	13.0	11
MAY										
13...	37	0	54	1.6	180	7.0	19.5	25	6.8	9.0
JUNE										
09...	36	2	40	.9	121	6.8	23.0	33	7.7	10
JULY										
16...	19	8	20	.3	53	6.4	21.5	50	9.6	8.9

02098200 Haw River near Haywood, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)
OCT.											
15...	--	--	--	8.5	7.0	--	.1	1	0	1	0
DEC.											
09...	2200	1.5	2.3	--	--	--	--	--	--	--	--
JAN.											
12...	--	--	--	19	--	--	.1	--	--	--	--
15...	--	--	--	--	--	--	--	2	2	0	0
23...	--	--	--	10	--	--	.0	--	--	--	--
MAY											
13...	3600	--	--	9.0	8.1	--	.1	--	--	--	--
JUNE											
09...	53000	1.9	6.5	12	7.8	23	.0	--	--	--	--
JULY											
16...	--	--	--	9.8	--	--	.0	--	--	--	--

DATE	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
OCT.										
15...	0	0	40	9	31	--	6	1	5	13
DEC.										
09...	--	--	--	--	--	--	--	--	--	--
JAN.										
12...	--	--	--	--	--	--	--	--	--	--
15...	0	2	20	20	0	--	3	3	0	6
23...	--	--	--	--	--	--	--	--	--	--
MAY										
13...	--	--	<10	<7	3	--	--	--	--	5
JUNE										
09...	--	--	<10	<10	0	75	--	--	--	7
JULY										
16...	--	--	10	10	0	--	--	--	--	8

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)
OCT.									
15...	6	7	--	9	0	9	--	.0	.0
JAN.									
15...	2	4	--	7	5	2	--	.0	.0
MAY									
13...	2	3	--	9	3	6	--	--	--
JUNE									
09...	2	5	<10	17	10	7	<10	--	--
JULY									
16...	4	4	--	14	13	1	--	--	--

DATE	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT.								
15...	.0	0	0	0	30	20	8	--
JAN.								
15...	.0	0	0	0	9	9	0	--
MAY								
13...	--	--	--	--	30	30	3	--
JUNE								
09...	--	--	--	--	20	10	10	80
JULY								
16...	--	--	--	--	40	40	0	--

02098200 Haw River near Haywood, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	164	240	159	104	101	104	70	127	92	224	102	204
2	129	246	199	111	105	114	64	132	73	255	107	182
3	144	232	170	111	103	112	63	163	89	270	116	199
4	160	246	119	110	102	110	70	139	44	275	122	243
5	179	282	125	108	86	115	81	168	95	261	133	248
6	202	297	127	116	74	141	88	119	104	275	138	230
7	220	306	138	123	84	112	96	111	107	235	153	184
8	214	310	129	118	77	104	100	138	112	245	153	143
9	210	297	106	117	79	105	99	146	119	235	135	265
10	210	274	84	106	73	115	106	137	123	235	122	224
11	218	259	98	93	72	116	126	143	123	194	122	260
12	250	268	110	58	73	128	129	158	131	132	171	163
13	235	296	106	65	89	135	121	183	148	99	125	230
14	230	307	114	61	98	75	114	186	158	48	138	265
15	270	302	118	60	108	53	130	136	184	57	153	194
16	291	297	119	67	110	56	107	127	194	53	148	184
17	297	296	119	64	103	58	114	147	209	57	163	184
18	307	251	136	68	94	62	119	139	194	56	168	173
19	313	292	138	71	103	57	114	71	281	58	179	204
20	286	295	153	70	110	56	112	93	199	60	209	66
21	270	296	130	84	110	55	119	100	199	54	209	63
22	305	271	134	71	121	59	114	97	209	58	179	82
23	319	189	135	65	118	62	109	98	213	56	128	102
24	302	265	140	78	119	59	102	109	213	58	138	73
25	281	225	133	86	117	62	129	124	250	62	168	59
26	248	223	134	70	105	65	148	132	250	96	199	61
27	240	276	134	77	107	66	149	147	245	74	173	67
28	242	232	127	71	101	67	160	157	230	78	173	66
29	288	224	120	71	---	66	161	164	224	91	179	79
30	266	232	109	78	---	67	153	145	224	88	173	71
31	244	---	108	89	---	97	---	118	---	97	204	---
MONTH	243	268	126	85	98	86	112	134	168	134	154	159
YEAR	MAX	319	MIN	44	MEAN	147						

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	17.0	5.0	10.0	10.0	8.0	12.0	17.0	22.0	25.5	27.0	26.0
2	17.0	17.0	6.0	9.5	9.0	8.0	12.0	16.0	22.0	25.0	27.0	26.0
3	15.0	16.0	5.0	2.0	7.0	6.0	12.5	17.5	22.0	25.0	28.0	25.5
4	12.0	17.0	4.5	7.0	7.0	5.0	12.0	18.0	21.5	25.0	28.0	26.0
5	12.5	17.5	4.0	7.0	6.0	5.0	12.0	19.0	22.0	25.0	24.5	26.0
6	13.0	16.5	3.0	5.0	5.0	6.0	12.0	15.0	23.5	24.5	28.5	26.0
7	14.0	15.0	4.0	7.0	6.0	7.0	11.5	19.5	24.0	27.0	26.5	26.0
8	15.5	13.0	6.0	2.5	5.0	7.0	10.5	17.5	24.0	25.0	25.0	25.0
9	15.5	11.0	7.0	5.0	6.0	6.0	12.0	15.5	23.0	25.0	25.0	25.0
10	15.0	10.0	5.0	5.0	4.5	7.0	14.0	18.5	23.0	24.5	25.0	25.0
11	14.5	11.0	4.5	9.0	5.0	8.0	14.0	19.0	22.0	24.0	25.5	24.5
12	15.0	12.0	5.5	10.0	6.0	8.0	13.0	19.0	22.0	23.5	26.0	24.0
13	15.5	11.0	7.0	10.0	6.5	9.0	13.0	19.5	23.0	23.0	26.0	24.0
14	16.0	9.0	5.5	7.0	7.0	10.0	13.0	20.0	25.0	22.0	27.0	22.0
15	17.0	10.0	6.0	5.5	6.0	8.0	13.5	20.0	26.0	21.5	27.0	20.5
16	18.5	10.0	6.0	5.0	6.0	9.0	13.0	20.0	25.0	21.5	26.0	20.5
17	18.0	8.5	6.0	7.0	9.0	8.0	13.5	20.0	25.0	21.5	28.0	20.5
18	17.0	8.0	5.0	6.0	10.0	7.0	13.5	19.0	26.5	22.0	23.5	20.0
19	15.5	8.0	5.0	6.0	10.5	8.5	14.0	18.0	26.5	22.0	28.0	21.0
20	13.0	10.0	5.0	7.0	10.0	9.0	17.0	19.0	26.5	22.0	26.0	20.5
21	10.0	10.0	6.0	6.0	8.0	10.5	16.0	20.0	27.0	22.0	26.5	20.5
22	10.0	8.0	6.0	5.0	9.0	11.0	16.0	21.5	26.0	22.0	26.5	21.0
23	10.0	8.0	5.0	5.0	9.0	10.0	16.5	23.0	26.0	22.0	27.0	21.5
24	11.0	8.5	6.0	5.0	12.0	11.0	18.0	23.0	25.5	23.0	27.5	20.0
25	12.0	9.0	8.0	7.0	10.0	11.0	19.0	24.0	26.0	23.0	28.0	20.0
26	13.0	8.0	8.0	8.0	11.0	11.0	20.0	24.0	26.0	24.0	25.0	20.0
27	13.5	5.5	7.0	7.0	9.0	10.5	19.0	24.0	26.0	24.0	28.0	20.0
28	14.5	4.5	7.0	7.0	8.0	10.5	20.0	25.0	26.0	23.0	28.0	19.0
29	15.0	4.5	7.5	8.0	---	11.0	20.0	25.0	26.0	24.0	27.5	19.5
30	16.0	6.0	9.0	9.0	---	11.5	18.5	23.5	25.5	25.0	26.0	20.0
31	16.5	---	10.0	9.0	---	12.0	---	22.0	---	26.0	26.0	---
MONTH	14.5	11.0	6.0	6.5	8.0	9.5	14.5	20.0	24.5	23.5	26.5	22.5
YEAR	MAX	28.5	MIN	2.0	MEAN	15.5						

CAPE FEAR RIVER BASIN

02098200 Haw River near Haywood, N. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
15...	1105	350	10	9.4
JAN.				
12...	0845	10600	438	12500
13...	1615	10700	146	4220
15...	1400	11200	110	3330
23...	0900	6610	47	839
MAY				
13...	1150	850	12	28
JUNE				
09...	1326	520	41	58
JULY				
16...	1545	14400	133	5170

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
PERIOD OCTOBER 1974 TO JULY 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
16...	1400	325	75	260	8.2	20.0	8.1	46	2.5	240
21...	1102	550	--	--	--	11.0	8.0	42	2.3	70
NOV.										
12...	1010	420	--	180	--	12.0	10.0	43	1.8	20
JAN.										
28...	1045	6260	34	--	7.3	9.0	11.4	--	1.9	1300
FEB.										
03...	1450	1750	31	70	7.0	7.0	10.8	--	2.0	550
13...	1040	3700	29	70	7.3	8.0	11.3	--	1.8	650
19...	1120	2260	26	80	7.0	10.5	10.1	<25	1.6	410
24...	1050	1600	29	109	7.2	13.0	9.6	35	2.2	--
JUNE										
04...	1040	2770	34	95	6.9	23.0	7.8	31	1.7	640
12...	1320	510	40	150	7.6	20.0	8.5	<25	1.2	540
18...	1300	520	48	180	6.6	21.0	7.0	<25	1.8	20
JULY										
25...	1000	8280	--	70	6.4	22.0	6.4	39	3.2	120

02102500 Cape Fear River at Lillington, N. C.

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

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

PERIOD OF RECORD.--Chemical analyses: November 1944 to October 1945, October 1954 to September 1955, November 1960 to September 1967, water years 1968-69, 1972-73 (partial-record station), October 1969 to September 1971, October 1974 to September 1975.
Water temperatures: November 1944 to October 1945, October 1954 to September 1955, June 1959 to September 1967, October 1974 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 228 micromhos Oct. 27; minimum daily, 46 micromhos July 14.
Water temperatures: Maximum, 31.0°C Aug. 27; minimum, 4.5°C Nov. 23.

Period of record:
Dissolved solids (1944-45, 1954-55): Maximum, 176 mg/l Oct. 11-15, 1954; minimum, 48 mg/l Feb. 20-28, Mar. 1-10, 1945.
Hardness (1944-45, 1954-55): Maximum, 34 mg/l Oct. 11-15, 1954; minimum, 10 mg/l Oct. 21-31, 1954.
Specific conductance (1954-55, 1974-75): Maximum daily, 272 micromhos Oct. 11, 1954 (figures for Oct. 1-10, Oct. 11-15, 1954, of 279 and 300 micromhos, respectively, are in error and should be less than 272); minimum daily, 41 micromhos Sept. 4, 1955.
Water temperatures: Maximum, 35.5°C June 30, 1959; minimum, 0.5°C on several days in January and February 1966.

REMARKS.--Miscellaneous chemical data published for water years 1947, 1949, 1956-58. Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)
OCT.											
15...	1310	436	2.9	320	130	3100	35	25	10	460	10
JAN.											
08...	0830	5430	9.5	--	--	--	--	--	--	--	4.7
12...	1015	22700	8.0	18000	260	--	500	500	0	--	4.0
14...	1130	38300	7.5	5300	150	--	150	150	0	--	3.6
15...	1220	29400	7.3	--	--	--	--	--	--	--	4.7
17...	1430	12700	8.9	2800	150	--	110	90	20	--	4.4
23...	1210	9850	10	--	--	--	--	--	--	--	4.4
MAY											
13...	1000	1380	13	600	160	--	--	--	--	--	7.5
JUNE											
17...	1030	854	11	540	120	3300	--	--	--	--	8.6
JULY											
13...	0800	6550	11	--	--	--	--	--	--	--	5.5
14...	1000	34400	5.2	15000	180	--	--	--	--	--	3.1
18...	0915	46000	6.8	3600	170	--	--	--	--	--	4.0
21...	1145	14400	8.1	2900	160	--	--	--	--	--	4.6
29...	0900	4370	10	2300	380	--	--	--	--	--	6.5
AUG.											
26...	1230	870	8.8	530	130	--	--	--	--	--	6.5
SEP.											
23...	1230	6260	11	3500	190	--	--	--	--	--	5.9
24...	0945	15800	9.1	11000	190	--	--	--	--	--	4.8
25...	1330	22100	7.6	7400	220	--	--	--	--	--	4.5
26...	1330	17000	8.7	4000	190	--	--	--	--	--	4.4
29...	0945	7570	10	2400	220	--	--	--	--	--	5.2

02102500 Cape Fear River at Lillington, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
15...	3.5	21	3.3	55	--	45	15	15	.4	.18	.20
JAN.											
08...	2.2	8.1	1.7	24	--	20	11	7.1	.0	--	--
12...	1.8	4.0	2.3	20	--	16	7.9	4.6	.7	.50	.38
14...	1.8	3.3	2.0	8	--	7	8.1	3.8	.3	.31	.31
15...	1.6	3.0	2.0	9	--	7	8.4	3.4	.2	.30	.33
17...	2.0	3.7	2.2	16	--	13	8.8	3.8	.2	.37	.36
23...	2.5	5.2	1.9	15	--	12	9.6	5.1	.3	--	--
MAY											
13...	3.1	13	2.2	38	0	31	11	10	.3	.81	.80
JUNE											
17...	3.1	14	2.5	44	0	36	11	9.6	.3	.53	.54
JULY											
13...	2.5	10	2.9	30	0	25	11	7.1	.3	--	--
14...	1.1	2.6	2.1	9	0	7	5.4	2.3	.4	.78	.36
18...	1.6	2.7	2.2	12	0	10	6.4	2.5	.3	.29	.28
21...	1.9	3.5	2.4	16	0	13	6.7	2.9	.3	.42	.40
29...	2.0	5.2	2.5	28	0	23	6.4	4.7	.4	.25	.25
AUG.											
26...	2.6	14	3.5	34	0	28	11	11	.4	.69	.71
SEP.											
23...	1.5	9.7	2.8	24	0	20	9.4	7.9	.2	.72	.72
24...	1.7	4.8	2.5	16	0	13	6.6	4.9	.2	.43	.42
25...	1.5	3.3	2.8	13	0	11	6.5	3.9	.2	.43	.37
26...	1.2	3.2	2.2	14	0	11	7.0	4.0	.1	--	--
29...	1.7	5.2	2.5	19	0	16	7.9	4.4	.2	.39	.38

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)
OCT.											
15...	.0	.01	.00	.00	1.1	.50	1.1	.60	.50	120	1.3
JAN.											
08...	--	--	--	--	--	--	--	--	--	--	--
12...	--	.16	.10	.13	1.8	.51	2.0	1.4	.61	--	2.5
14...	--	.07	.04	.05	.89	.37	.96	.55	.41	--	1.3
15...	--	.06	.04	.05	.67	.31	.73	.38	.35	--	1.0
17...	--	.10	.08	.10	.61	.38	.71	.25	.46	--	1.1
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
13...	--	.00	.01	.01	.57	.41	.57	.15	.42	--	1.4
JUNE											
17...	.0	.00	.00	.00	.68	--	.68	.00	1.2	980	1.2
JULY											
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	.16	.04	.05	1.3	.31	1.5	1.2	.35	--	2.3
18...	--	.08	.01	.01	.49	.59	.57	.00	.60	--	.86
21...	--	.07	.01	.01	.61	.34	.68	.33	.35	--	1.1
29...	--	.09	.08	.10	.71	.61	.80	.11	.69	--	1.1
AUG.											
26...	--	.01	.01	.01	.56	.49	.57	.07	.50	--	1.3
SEP.											
23...	--	.08	.08	.10	.59	.41	.67	.18	.49	--	1.4
24...	--	.10	.07	.09	1.2	.46	1.3	.77	.53	--	1.7
25...	--	.10	.07	.09	1.1	.48	1.2	.65	.55	--	1.6
26...	--	--	--	--	--	--	--	--	--	--	--
29...	--	.07	.05	.06	.60	.50	.67	.12	.55	--	1.1

02102500 Cape Fear River at Lillington, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT.											
15...	5.7	.37	.64	.23	.21	.21	190	109	98	.15	128
JAN.											
08...	--	--	--	--	--	--	--	82	56	.11	1200
12...	11	.62	.18	.07	.17	.06	--	54	43	.07	3310
14...	5.6	.24	.15	.06	.09	.05	--	50	35	.07	5170
15...	4.6	.19	.12	.06	.09	.04	--	27	35	.04	2140
17...	4.8	.19	.15	.06	.10	.05	--	52	42	.07	1780
23...	--	--	--	--	--	--	--	48	46	.07	1280
MAY											
13...	6.1	.24	.49	.20	.17	.16	--	80	79	.11	298
JUNE											
17...	5.4	.23	.40	.18	.14	.13	340	124	86	.17	286
JULY											
13...	--	--	--	--	--	--	--	95	65	.13	1680
14...	10	.48	.12	.06	.14	.04	--	33	27	.04	3070
18...	3.8	.15	.12	.06	.09	.04	--	44	34	.06	5470
21...	4.9	.15	.15	.07	.09	.05	--	50	39	.07	1940
29...	4.6	.19	.15	.06	.08	.05	--	62	53	.08	732
AUG.											
26...	5.6	.28	.64	.25	.25	.21	--	82	78	.11	193
SEP.											
23...	6.2	.27	.40	.15	.18	.13	--	71	60	.10	1200
24...	7.7	.45	.31	.12	.17	.10	--	62	43	.08	2650
25...	7.2	.35	.25	.09	.09	.08	--	53	37	.07	3160
25...	--	--	--	--	--	--	--	56	38	.08	2570
29...	4.7	.18	.21	.10	.11	.07	--	65	49	.09	1330

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
15...	39	0	51	1.5	170	9.1	20.5	20	11.6	.1
JAN.										
08...	21	1	43	.8	92	8.2	7.5	48	--	.2
12...	17	1	30	.4	63	6.5	11.5	500	10.0	10
14...	16	10	27	.4	53	6.4	8.0	300	--	5.1
15...	18	11	24	.3	53	6.6	6.0	300	12.0	3.6
17...	19	6	27	.4	63	6.2	7.0	300	--	16
23...	21	9	32	.5	60	6.1	5.5	100	13.0	19
MAY										
13...	32	0	45	1.0	126	7.1	21.0	10	7.5	4.8
JUNE										
17...	38	2	43	1.0	125	8.1	26.0	25	9.1	.6
JULY										
13...	24	0	44	.9	106	7.2	29.0	100	--	3.0
14...	12	5	27	.3	42	6.1	23.0	250	8.1	11
18...	17	7	23	.3	48	6.0	21.0	430	8.2	19
21...	19	6	25	.3	57	6.2	--	350	--	16
29...	24	2	29	.5	81	6.9	24.0	80	6.4	5.6
AUG.										
26...	27	0	49	1.2	130	7.4	30.0	27	7.7	2.2
SEP.										
23...	21	1	46	.9	100	6.6	22.7	120	8.0	9.6
24...	19	6	32	.5	65	6.6	21.5	210	8.1	6.4
25...	17	7	26	.3	56	6.6	20.5	110	8.7	5.2
26...	16	4	27	.3	57	6.5	21.3	170	8.6	7.1
29...	20	4	33	.5	70	6.9	19.0	160	9.0	3.8

CAPE FEAR RIVER BASIN

02102500 Cape Fear River at Lillington, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL PHYTOPLANKTON (CELLS PER ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)
OCT.												
15...	--	--	--	17	8.3	.1	.0	2	0	2	3	0
JAN.												
12...	--	--	--	16	13	--	.1	1	1	0	--	1
14...	--	--	--	11	--	--	.1	1	1	0	--	0
15...	--	--	--	21	18	--	.0	--	--	--	--	--
17...	--	--	--	10	--	--	.1	2	2	0	--	0
MAY												
13...	9100	--	--	8.2	--	--	.0	--	--	--	--	--
JUNE												
17...	33000	48	210	7.7	--	8.2	.1	--	--	--	--	--
JULY												
14...	--	--	--	38	16	--	.0	--	--	--	--	--
18...	--	--	--	13	13	--	.0	--	--	--	--	--
21...	--	--	--	12	10	--	.0	--	--	--	--	--
29...	--	--	--	14	12	--	.0	--	--	--	--	--
AUG.												
26...	--	--	--	6.8	--	--	.1	--	--	--	--	--
SEP.												
23...	--	--	--	9.0	8.4	--	.0	--	--	--	--	--
24...	--	--	--	15	13	--	.0	--	--	--	--	--
25...	--	--	--	19	16	--	.0	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	11	11	--	.0	--	--	--	--	--

DATE	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT.												
15...	0	0	<10	0	0	10	<10	5	0	5	<10	16
JAN.												
12...	1	0	--	80	79	1	--	11	11	0	--	26
14...	0	0	--	10	9	1	--	3	3	0	--	9
15...	--	--	--	--	--	--	--	--	--	--	--	--
17...	0	1	--	20	19	1	--	3	3	0	--	7
MAY												
13...	--	--	--	<10	<7	3	--	--	--	--	--	3
JUNE												
17...	--	--	--	<10	<9	1	10	--	--	--	--	4
JULY												
14...	--	--	--	20	19	1	--	--	--	--	--	18
18...	--	--	--	<10	<10	0	--	--	--	--	--	7
21...	--	--	--	<10	<10	0	--	--	--	--	--	180
29...	--	--	--	<10	<10	0	--	--	--	--	--	6
AUG.												
26...	--	--	--	<10	<10	0	--	--	--	--	--	4
SEP.												
23...	--	--	--	<10	<9	1	--	--	--	--	--	6
24...	--	--	--	<10	<10	0	--	--	--	--	--	13
25...	--	--	--	<10	<10	0	--	--	--	--	--	12
26...	--	--	--	<10	<10	0	--	--	--	--	--	7
29...	--	--	--	<10	<10	0	--	--	--	--	--	5

02102500 Cape Fear River at Lillington, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
15...	12	4	<10	9	4	5	<10	.0	.0	.0
JAN.										
12...	18	8	--	29	29	0	--	.3	.3	.0
14...	4	5	--	9	8	1	--	.0	.0	.0
17...	3	4	--	7	6	1	--	.0	.0	.0
MAY										
13...	2	1	--	3	0	3	--	--	--	--
JUNE										
17...	0	4	<10	0	0	0	<10	--	--	--
JULY										
14...	13	5	--	28	25	3	--	--	--	--
18...	3	4	--	11	11	0	--	--	--	--
21...	140	40	--	200	170	34	--	--	--	--
29...	1	5	--	3	3	0	--	--	--	--
AUG.										
26...	2	2	--	12	9	3	--	--	--	--
SEP.										
23...	1	5	--	8	6	2	--	--	--	--
24...	9	4	--	28	28	0	--	--	--	--
25...	8	4	--	15	15	0	--	--	--	--
26...	0	7	--	4	4	0	--	--	--	--
29...	0	6	--	7	4	3	--	--	--	--

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT.									
15...	.1	0	0	0	0	8	8	0	20
JAN.									
12...	--	0	0	0	--	70	60	7	--
14...	--	0	0	0	--	20	20	3	--
17...	--	0	0	0	--	10	10	0	--
MAY									
13...	--	--	--	--	--	10	0	10	--
JUNE									
17...	--	--	--	--	--	10	10	0	30
JULY									
14...	--	--	--	--	--	60	50	6	--
18...	--	--	--	--	--	30	30	5	--
21...	--	--	--	--	--	100	100	0	--
29...	--	--	--	--	--	20	20	0	--
AUG.									
26...	--	--	--	--	--	30	30	0	--
SEP.									
23...	--	--	--	--	--	30	30	0	--
24...	--	--	--	--	--	30	30	0	--
25...	--	--	--	--	--	10	10	0	--
26...	--	--	--	--	--	50	50	0	--
29...	--	--	--	--	--	10	10	0	--

02102500 Cape Fear River at Lillington, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	197	106	94	80	82	74	128	86	176	84	143
2	175	206	159	85	80	82	69	120	78	176	85	143
3	183	194	157	92	80	83	64	110	74	176	87	143
4	175	194	127	95	80	83	67	108	79	176	85	145
5	154	193	124	95	74	81	78	113	82	176	88	143
6	143	189	117	92	59	88	78	112	92	186	96	148
7	142	191	106	96	66	93	78	111	86	176	98	148
8	138	202	63	99	77	95	80	111	98	147	97	148
9	146	216	85	92	76	85	82	111	97	142	110	168
10	152	219	135	83	73	83	80	111	94	122	130	168
11	152	215	88	87	70	83	80	112	96	157	120	158
12	156	205	90	65	72	85	92	113	98	103	120	163
13	155	201	88	59	74	82	95	113	98	114	100	158
14	164	202	88	59	82	75	98	113	98	46	98	133
15	170	212	89	58	81	47	75	114	108	51	100	153
16	156	222	84	61	57	48	92	114	118	50	99	153
17	162	227	96	66	72	49	91	113	125	51	99	141
18	172	227	97	68	76	55	90	111	132	52	101	133
19	175	185	101	70	72	57	90	110	132	55	102	138
20	195	132	101	71	80	57	98	66	132	64	112	133
21	195	179	116	72	79	48	90	74	132	63	122	87
22	204	193	99	74	79	54	93	84	142	61	128	74
23	216	212	105	60	81	59	96	78	147	62	163	80
24	204	210	108	62	85	57	95	82	142	64	163	77
25	221	175	108	63	89	57	90	82	152	66	160	62
26	215	159	110	63	83	62	92	88	167	66	131	56
27	228	170	105	65	93	64	112	90	168	78	117	61
28	225	172	92	66	86	65	112	100	167	75	117	64
29	206	172	102	64	---	64	116	111	171	79	133	67
30	189	84	97	69	---	64	120	108	171	86	148	71
31	186	---	97	72	---	69	---	78	---	74	148	---
MONTH	178	192	105	75	77	70	89	103	119	102	114	122

YEAR MAX 228 MIN 46 MEAN 112

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.0	18.5	12.5	10.5	9.5	10.5	15.0	19.5	25.5	28.0	28.5	28.0
2	19.0	19.5	8.0	9.5	9.5	11.0	14.5	18.5	23.0	26.0	28.0	29.0
3	15.0	19.5	6.0	9.0	9.0	8.5	14.5	19.5	23.0	27.0	28.0	28.0
4	14.5	20.0	6.0	10.0	8.5	7.5	13.0	19.5	24.0	28.0	29.0	29.0
5	16.0	18.0	6.0	9.5	8.0	8.0	14.0	19.0	24.0	26.0	29.0	29.0
6	16.5	18.0	6.0	8.0	7.5	8.0	14.5	19.0	25.0	26.0	30.0	28.0
7	17.0	16.0	7.5	9.0	8.0	9.0	13.5	20.0	26.0	27.5	29.0	28.0
8	17.0	14.0	10.0	7.5	7.5	10.5	12.5	20.0	26.0	28.0	27.0	26.0
9	15.0	13.0	8.5	8.0	7.5	10.5	13.0	20.0	24.5	28.0	28.0	26.0
10	18.5	15.0	9.5	9.0	7.0	11.0	14.0	20.0	24.5	28.5	28.0	28.0
11	18.0	13.0	7.5	10.5	7.5	9.5	14.5	21.0	24.5	28.0	28.0	27.0
12	19.0	16.0	7.5	11.0	8.0	9.0	15.0	21.0	23.0	29.5	26.0	27.0
13	19.5	14.0	8.0	9.0	8.0	9.0	14.5	21.0	24.0	29.0	28.0	26.0
14	19.5	12.0	10.5	9.0	8.0	10.0	14.5	20.0	25.0	25.0	28.0	28.0
15	22.0	13.0	8.0	7.5	9.0	9.5	14.0	21.0	25.0	26.0	28.0	25.0
16	21.0	13.5	9.0	7.5	11.0	9.5	14.0	22.0	25.0	25.0	29.0	24.0
17	18.0	12.0	8.0	7.5	9.5	10.0	14.0	22.0	25.0	25.0	28.0	25.0
18	19.0	12.0	7.5	6.5	10.5	10.0	14.5	21.0	26.0	25.0	28.0	23.0
19	18.5	12.0	7.5	7.5	12.0	10.5	14.0	21.0	26.0	28.0	28.5	23.0
20	16.0	12.0	8.5	9.0	10.5	10.0	14.5	19.0	27.0	28.0	28.0	27.0
21	13.0	11.0	8.5	7.0	10.0	11.0	15.5	21.0	28.0	27.0	29.0	23.0
22	11.5	9.0	8.5	7.5	9.5	13.0	16.0	23.0	27.0	25.0	29.0	24.0
23	14.0	4.5	7.0	7.5	10.5	14.0	16.0	23.0	25.5	25.0	28.0	23.0
24	14.0	12.0	8.0	7.0	11.0	12.0	17.0	24.0	26.0	26.0	29.0	23.0
25	14.0	11.0	10.0	8.0	10.5	13.5	20.0	23.5	26.0	26.0	28.0	24.0
26	17.0	8.0	9.5	10.5	10.0	13.5	16.0	24.5	27.0	26.0	30.0	23.0
27	17.5	7.0	9.0	8.0	9.0	12.5	20.0	24.5	28.0	25.0	31.0	26.0
28	18.0	10.0	9.5	9.0	9.5	16.0	20.0	25.0	29.0	25.5	28.0	21.0
29	18.0	9.0	9.0	10.0	---	10.0	20.0	26.0	28.0	26.0	28.0	21.0
30	18.0	10.0	10.0	10.0	---	10.0	20.0	25.5	28.0	26.5	29.0	20.0
31	17.5	---	9.5	9.5	---	13.5	---	24.5	---	26.5	27.0	---
MONTH	17.0	13.0	8.5	8.5	9.0	10.5	15.5	21.5	25.5	26.5	28.5	25.5

YEAR MAX 31.0 MIN 4.5 MEAN 17.5

02102500 Cape Fear River at Lillington, N. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
15...	1310	436	11	13
JAN.				
12...	1015	22700	386	23700
15...	1220	29400	125	9920
17...	1430	12700	120	4120
23...	1210	9850	59	1570
MAY				
13...	1000	1380	7	26
JUNE				
17...	1030	854	9	21
JULY				
14...	1000	34400	558	51800
16...	0915	46000	80	9940
21...	1145	14400	73	2840
29...	0900	4370	41	484
AUG.				
26...	1230	870	8	19
SEP.				
23...	1230	6260	69	1170
24...	0945	15800	329	14000
25...	1330	22100	229	13700
26...	1330	17000	112	5140
29...	0945	7570	53	1080

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
PERIOD JANUARY 1975 TO AUGUST 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)
JAN.										
28...	1110	11600	14	50	6.4	11.0	9.1	<25	.4	160
FEB.										
06...	1125	22100	15	40	6.4	10.0	10.1	<25	2.2	7000
10...	1355	8170	20	50	6.3	6.0	11.6	<25	1.0	1000
18...	1020	5630	24	60	7.2	13.0	11.4	<25	1.4	290
26...	1000	8520	23	50	7.5	10.0	11.8	<25	1.3	1000
MAR.										
04...	1335	2720	31	35	7.0	8.0	11.4	<25	1.0	110
10...	1635	2690	25	60	6.6	9.0	9.9	<25	1.1	150
18...	0925	30000	15	35	6.2	8.0	10.6	<25	1.7	1200
24...	0945	15300	16	45	6.2	15.0	11.6	<25	2.0	520
APR.										
02...	1530	9010	--	55	7.6	18.0	9.8	<25	2.6	760
09...	1535	2690	--	70	6.8	15.0	10.0	<25	1.2	90
16...	0955	5050	27	80	7.3	15.0	10.6	<25	1.8	190
24...	1000	1700	25	90	6.9	20.0	9.8	31	1.9	50
MAY										
07...	0935	2030	11	40	6.7	21.0	8.2	<25	7.0	15000
12...	1435	1440	34	120	6.6	22.0	8.8	<25	1.3	120
AUG.										
05...	1310	1020	25	80	6.5	29.0	9.0	<25	.9	10

02105769 Cape Fear River at Lock 1, near Kelly, N. C.
(National Stream Quality Accounting Network Station)

LOCATION.--Lat 34°24'15", long 78°17'38", Bladen County, water-quality recorder on right bank near downstream end of Lock No. 1, 200 ft (60 m) downstream from gaging station, 1.3 mi (2.1 km) upstream from Natmore Creek, 2.0 mi (3.2 km) upstream from bridge on State Highway 141, 4.6 mi (7.4 km) southeast of Kelly, and at mile 67 (108 km).

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

PERIOD OF RECORD.--Chemical analyses: January 1973 to September 1975.
Water temperatures: January 1973 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum, 138 micromhos July 15, Sept. 24; minimum, 41 micromhos July 19, 20.
Water temperatures: Maximum, 29.0°C Aug. 24-27; minimum, 5.5°C on several days during December, January, and February.

Period of record:
Specific conductance: Maximum recorded, 220 micromhos Dec. 18, 1973; minimum, 41 micromhos Feb. 6, 1973, July 19, 20, 1975.
Water temperatures: Maximum, 29.5°C on several days during August and September 1973; minimum, 3.0°C Jan. 15, 1973.

REMARKS.--Water-quality recorder installed May 18, 1973. Water-quality data available for period 1956-73 for station 2 mi (3.2 km) downstream, 02105771 Cape Fear River near Acme. Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT.												
09...	1030	1280	9.1	1200	660	--	130	20	110	4.3	1.9	10
NOV.												
05...	1115	1320	6.3	820	490	--	120	38	82	5.9	1.8	15
DEC.												
12...	1215	15700	9.0	5300	300	--	200	160	40	5.7	2.0	5.5
JAN.												
28...	1130	21900	8.0	--	--	--	--	--	--	4.4	1.5	3.9
FEB.												
25...	1230	9790	7.9	--	--	--	--	--	--	3.1	1.5	4.9
MAR.												
18...	1210	31100	6.4	2700	250	--	70	20	50	4.2	1.4	3.5
APR.												
16...	1055	6270	8.3	--	--	--	--	--	--	3.9	2.2	5.7
MAY												
06...	1050	3890	6.0	--	--	--	--	--	--	3.9	1.8	8.7
JUNE												
10...	1130	1880	9.3	2300	350	1000	130	20	110	3.1	1.6	5.3
JULY												
22...	1100	46600	6.8	--	--	--	--	--	--	3.8	1.6	2.8
AUG.												
12...	1215	2820	8.9	--	--	--	--	--	--	3.4	1.3	5.8
SEP.												
16...	1145	2380	6.5	790	310	--	120	30	90	2.8	1.6	12

DATE	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITROGEN (N) (MG/L)
OCT.											
09...	2.0	17	--	14	11	9.4	.1	.58	.58	--	.26
NOV.											
05...	2.4	36	--	30	13	13	.2	.49	.49	--	.16
DEC.											
12...	2.7	16	--	13	9.8	6.4	.2	.45	.45	--	.07
JAN.											
28...	1.6	12	--	10	7.4	4.1	.4	.33	.31	--	.07
FEB.											
25...	1.1	11	--	9	6.7	4.7	.1	.37	--	--	--
MAR.											
18...	1.6	10	--	8	8.8	3.7	.1	.35	--	--	--
APR.											
16...	1.2	16	0	13	7.3	5.1	.1	.42	--	--	--
MAY											
06...	1.6	20	0	16	8.2	7.2	.1	.47	--	--	--
JUNE											
10...	2.0	17	0	14	7.9	5.1	.1	.60	--	1.0	--
JULY											
22...	2.0	11	0	9	6.6	2.8	.3	.28	--	--	--
AUG.											
12...	1.8	13	0	11	6.4	5.7	.2	.43	--	--	--
SEP.											
16...	2.4	16	0	13	10	9.2	.0	.50	--	--	--

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT.											
09...	.24	.31	.57	.58	.83	.01	.82	--	1.4	6.2	.35
NOV.											
05...	.13	.17	.46	.45	.62	.04	.58	--	1.1	4.9	.21
DEC.											
12...	.28	.36	.39	.35	.46	.00	.63	--	.91	4.0	.06
JAN.											
28...	.03	.04	.64	.21	.71	.47	.24	--	1.0	4.6	.17
FEB.											
25...	--	--	--	--	.50	--	--	--	.87	3.9	.10
MAR.											
18...	--	--	--	--	.78	--	--	--	1.1	5.0	.19
APR.											
16...	--	--	--	--	.43	--	--	--	.85	3.8	.13
MAY											
06...	--	--	--	--	.45	--	--	--	.92	4.1	.15
JUNE											
10...	--	--	--	--	.59	--	--	120	1.2	5.3	.16
JULY											
22...	--	--	--	--	.55	--	--	--	.83	3.7	.12
AUG.											
12...	--	--	--	--	.59	--	--	--	1.0	4.5	.15
SEP.											
16...	--	--	--	--	.63	--	--	--	1.1	5.0	.25

DATE	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.											
09...	.37	.13	.32	.12	--	50	90	57	.07	173	2
NOV.											
05...	1.4	.51	.46	.47	--	71	75	80	.10	253	8
DEC.											
12...	.03	.03	.03	.01	--	69	60	52	.09	2930	180
JAN.											
28...	.09	.05	.07	.03	--	29	49	39	.04	1720	60
FEB.											
25...	--	--	--	--	--	50	51	35	.07	1320	26
MAR.											
18...	--	--	--	--	--	52	47	35	.07	4370	84
APR.											
16...	--	--	--	--	--	60	51	42	.08	1020	25
MAY											
06...	--	--	--	--	--	54	--	47	.07	567	--
JUNE											
10...	--	--	--	--	46	49	86	43	.07	249	33
JULY											
22...	--	--	--	--	--	45	49	32	.06	5660	34
AUG.											
12...	--	--	--	--	--	52	51	40	.07	396	12
SEP.											
16...	--	--	--	--	--	67	64	53	.09	431	8

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.											
09...	19	5	51	1.0	90	6.5	18.0	60	10	8.2	8.6
NOV.											
05...	22	0	56	1.4	117	6.6	18.0	60	7	8.1	14
DEC.											
12...	22	9	32	.5	59	6.5	8.0	100	100	10.8	8.1
JAN.											
28...	17	7	31	.4	55	6.2	9.5	100	30	--	12
FEB.											
25...	14	5	41	.6	57	6.4	11.0	--	20	10.4	7.0
MAR.											
18...	16	8	29	.4	55	6.1	9.5	--	80	9.9	13
APR.											
16...	19	6	38	.6	65	6.0	14.5	--	15	9.6	26
MAY											
06...	17	1	50	.9	75	6.5	20.5	--	6	8.1	10
JUNE											
10...	14	0	41	.6	64	6.7	25.0	--	2	7.3	5.4
JULY											
22...	16	7	25	.3	46	6.3	22.0	--	35	5.3	8.8
AUG.											
12...	14	3	44	.7	63	6.4	26.5	--	10	6.1	8.3
SEP.											
16...	14	0	61	1.4	88	6.4	24.5	--	7	6.6	10

DATE	TOTAL PHYTOPLANKTON (CELLS PER ML)	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
09...	240	--	--	30	30	--	--	11
NOV.								
05...	470	--	--	36	28	--	--	7.3
DEC.								
12...	2600	.1	.2	710	780	2.3	3.1	14
JAN.								
28...	600	--	--	450	1100	--	--	9.8
FEB.								
25...	310	--	--	230	70	--	--	--
MAR.								
18...	540	--	--	570	440	--	--	--
APR.								
16...	1100	--	--	80	30	--	--	--
MAY								
06...	5700	--	--	72	28	--	--	--
JUNE								
10...	4600	38	9.7	36	44	4.1	6.8	11
JULY								
22...	110	--	--	140	400	--	--	--
AUG.								
12...	31	--	--	140	280	--	--	--
SEP.								
16...	28	44	2.5	210	120	24	31	7.0

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUS-PENDED CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)
OCT.									
09...	12	--	.0	1	0	1	0	0	1
NOV.									
05...	--	--	.0	2	1	1	0	0	0
DEC.									
12...	--	--	.1	2	2	0	0	0	1
JAN.									
28...	--	--	.0	--	--	--	--	--	--
FEB.									
25...	--	--	--	--	--	--	--	--	--
MAR.									
18...	--	--	--	1	1	0	1	0	1
APR.									
16...	--	--	--	--	--	--	--	--	--
MAY									
06...	--	--	--	--	--	--	--	--	--
JUNE									
10...	--	1.1	--	1	1	0	2	0	2
JULY									
22...	--	--	--	--	--	--	--	--	--
AUG.									
12...	--	--	--	--	--	--	--	--	--
SEP.									
16...	--	--	--	2	1	1	0	0	0

DATE	TOTAL CHROMIUM (CR) (UG/L)	SUS-PENDED CHROMIUM (CR) (UG/L)	DIS-SOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
OCT.								
09...	<10	<9	1	--	1	0	1	6
NOV.								
05...	20	17	3	--	0	0	0	3
DEC.								
12...	40	40	0	--	3	3	0	8
JAN.								
28...	--	--	--	--	--	--	--	--
FEB.								
25...	--	--	--	--	--	--	--	--
MAR.								
18...	<10	<10	0	--	20	20	0	5
APR.								
16...	--	--	--	--	--	--	--	--
MAY								
06...	--	--	--	--	--	--	--	--
JUNE								
10...	<10	<9	1	<10	0	0	2	5
JULY								
22...	--	--	--	--	--	--	--	--
AUG.								
12...	--	--	--	--	--	--	--	--
SEP.								
16...	<10	<10	0	--	0	0	0	4

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)
OCT. 09...	3	3	--	4	3	1	--	.0
NOV. 05...	1	2	--	5	4	1	--	.0
DEC. 12...	3	5	--	15	10	5	--	.2
JAN. 28...	--	--	--	--	--	--	--	--
FEB. 25...	--	--	--	--	--	--	--	--
MAR. 18...	0	5	--	10	0	10	--	.3
APR. 16...	--	--	--	--	--	--	--	--
JUNE 10...	0	5	<10	2	0	3	<10	.0
JULY 22...	--	--	--	--	--	--	--	--
AUG. 12...	--	--	--	--	--	--	--	--
SEP. 16...	2	2	--	2	0	8	--	.2

DATE	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT. 09...	.0	.0	0	0	0	50	50	0	--
NOV. 05...	.0	.0	0	0	0	8	4	4	--
DEC. 12...	.2	.0	0	0	0	30	20	10	--
JAN. 28...	--	--	--	--	--	--	--	--	--
FEB. 25...	--	--	--	--	--	--	--	--	--
MAR. 18...	.1	.2	0	0	0	10	0	20	--
APR. 16...	--	--	--	--	--	--	--	--	--
JUNE 10...	.0	.0	0	0	0	20	0	20	10
JULY 22...	--	--	--	--	--	--	--	--	--
AUG. 12...	--	--	--	--	--	--	--	--	--
SEP. 16...	.2	.0	0	0	0	30	20	10	--

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
OCT. 09...	<1.0	.4	4.7	.6	3.7	.5	.05	.03
NOV. 05...	<.8	.4	3.8	<.4	3.0	<.4	.03	.04
DEC. 12...	1.2	9.3	5.2	5.4	4.1	4.3	.04	.04
JAN. 28...	1.5	3.8	3.2	1.6	2.6	1.4	.04	.02
FEB. 25...	1.0	1.7	3.3	1.1	2.7	.9	.05	.03
MAR. 18...	.9	4.0	4.2	3.0	3.4	2.5	.01	.04
APR. 16...	.9	1.6	2.9	1.1	2.3	.9	.06	.04
JUNE 10...	<.9	1.9	4.3	.8	3.4	.7	.06	.04
JULY 22...	<.6	1.2	4.0	.9	3.2	.8	.04	.04
AUG. 12...	1.3	.6	18	1.1	14	.9	.02	.03
SEP. 16...	1.1	.5	8.7	.6	6.9	.5	.03	.04

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	81	79	96	94	98	92	81	75	56	53	76	71
2	81	77	98	95	99	94	80	78	58	56	76	71
3	77	72	110	98	95	84	79	77	61	58	76	74
4	74	72	118	109	83	78	78	74	61	60	74	72
5	79	75	119	115	87	81	75	73	62	61	72	69
6	80	78	121	117	109	88	74	69	66	62	70	67
7	82	79	121	120	109	107	69	67	64	57	68	67
8	90	82	120	109	108	100	71	68	58	54	69	67
9	92	90	109	104	99	82	77	68	57	55	71	70
10	93	90	110	105	81	70	77	69	59	57	71	69
11	96	94	112	110	83	64	81	71	60	59	72	68
12	99	97	116	111	64	57	83	70	63	60	77	72
13	104	99	120	116	58	56	72	68	64	63	77	71
14	111	103	120	117	58	56	74	59	64	63	71	68
15	112	109	117	112	59	58	59	51	64	63	83	67
16	108	105	112	105	60	57	53	50	63	61	88	62
17	109	105	107	105	60	59	50	47	67	63	62	56
18	113	109	106	102	61	58	48	46	72	66	56	54
19	114	112	105	102	61	58	49	47	65	48	53	50
20	114	111	105	100	59	59	52	49	56	54	54	51
21	111	95	102	98	61	60	58	53	56	51	56	53
22	95	89	105	101	65	62	60	59	51	50	53	51
23	89	88	107	105	64	62	60	59	54	49	54	50
24	88	84	107	101	65	63	61	60	56	53	52	50
25	91	86	105	92	67	64	60	58	60	56	54	50
26	92	90	92	83	69	68	63	59	64	60	56	54
27	89	88	83	76	71	69	63	57	65	63	56	55
28	93	89	80	76	75	72	58	53	77	64	59	56
29	96	93	87	80	73	69	54	52	---	---	62	58
30	95	89	96	87	70	68	53	52	---	---	63	61
31	94	89	---	---	76	70	54	52	---	---	62	61
MONTH	114	72	121	76	109	56	83	46	77	48	88	50

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	61	60	70	66	68	67	72	70	64	62	88	85
2	67	60	68	64	67	65	75	70	64	61	88	86
3	74	68	65	63	65	64	81	75	62	61	95	87
4	68	64	69	64	65	64	85	81	62	61	97	94
5	64	59	73	68	65	63	82	77	62	61	98	96
6	60	59	75	71	64	63	80	77	63	61	104	96
7	61	59	75	71	65	63	81	79	63	62	111	103
8	62	61	77	72	65	63	79	76	63	62	111	107
9	64	62	73	69	65	65	83	76	64	62	112	107
10	64	63	71	69	65	63	84	82	64	62	112	106
11	65	64	78	71	64	60	83	78	64	63	105	87
12	68	64	73	70	66	59	100	83	64	62	85	68
13	66	66	72	70	70	62	119	100	69	62	83	68
14	66	65	71	69	75	67	136	100	72	61	88	83
15	65	64	70	69	74	72	138	87	84	73	88	86
16	66	64	71	70	76	70	84	47	89	84	89	86
17	71	66	71	68	73	68	47	44	90	87	93	85
18	71	67	69	67	69	64	46	43	86	81	102	93
19	66	63	68	67	68	63	45	41	81	79	123	103
20	70	64	67	66	72	66	45	41	82	79	135	123
21	65	64	66	65	75	70	46	43	85	81	134	105
22	68	65	65	64	77	72	47	43	88	84	127	108
23	68	66	66	62	74	70	50	47	93	87	116	100
24	66	65	64	62	68	62	51	49	90	83	138	95
25	70	65	66	62	64	62	53	50	83	78	85	60
26	73	69	70	65	63	61	53	50	77	75	81	55
27	73	69	75	69	63	62	57	52	75	72	54	51
28	69	66	75	73	65	61	54	52	75	71	51	49
29	74	65	73	72	68	63	69	53	78	74	49	49
30	69	66	73	71	72	68	67	63	80	77	54	49
31	---	---	71	68	---	---	65	63	85	80	---	---
MONTH	74	59	78	62	77	59	138	41	93	61	138	49
YEAR	138	41										

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

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	20.5	16.5	15.5	8.5	8.0	9.5	8.5	9.5	9.0	11.0	10.5
2	20.5	20.0	16.0	15.5	8.0	7.5	9.0	9.0	9.5	9.5	10.5	10.0
3	20.0	18.5	16.0	15.5	7.5	7.0	9.0	8.5	9.5	9.0	10.0	9.5
4	18.5	18.0	16.5	15.5	7.0	6.5	9.0	9.0	9.0	8.5	9.0	9.0
5	18.0	17.5	17.0	16.0	6.5	6.5	9.0	8.5	8.5	8.0	9.0	8.5
6	18.0	17.5	17.0	16.5	6.5	6.0	8.5	8.5	8.0	7.0	8.5	8.5
7	18.0	17.5	17.0	16.5	6.0	5.5	8.5	7.5	7.0	6.0	8.5	8.0
8	18.0	17.5	16.5	15.5	6.0	5.5	7.5	7.5	6.0	5.5	8.5	8.0
9	18.0	17.5	15.5	15.0	6.0	6.0	7.5	7.5	6.0	5.5	8.5	8.0
10	18.0	17.5	15.0	14.5	6.5	5.5	7.5	7.0	6.0	6.0	8.5	8.5
11	18.0	17.5	15.0	14.5	7.0	5.5	7.5	7.5	6.5	6.0	8.5	8.5
12	18.0	17.5	15.0	14.5	6.0	5.5	8.0	7.5	7.0	6.5	9.0	8.5
13	18.0	17.5	14.5	14.0	6.5	6.0	9.0	8.0	7.0	6.5	9.5	9.0
14	18.5	18.0	14.0	14.0	6.5	6.0	9.5	8.5	7.5	6.5	10.5	9.5
15	18.0	18.0	14.0	13.5	6.0	6.0	9.5	8.5	7.5	7.0	10.5	10.0
16	18.5	18.0	13.5	13.0	6.5	6.0	8.5	7.5	8.0	7.5	10.0	10.0
17	18.5	18.0	13.0	13.0	6.5	6.5	7.5	6.5	8.5	8.0	10.0	9.5
18	18.5	18.0	13.0	12.5	6.5	6.0	6.5	6.0	9.0	8.0	9.5	9.5
19	18.0	17.0	12.5	12.5	6.5	6.0	6.5	6.0	10.5	9.5	9.5	9.0
20	17.0	16.5	12.5	12.0	6.5	6.0	6.5	6.5	10.5	10.5	10.0	9.5
21	16.5	15.5	12.0	11.5	6.5	6.5	6.5	6.0	11.5	10.5	10.0	9.5
22	15.5	15.0	11.5	10.5	6.5	6.5	6.5	6.0	11.0	10.5	10.5	10.0
23	15.0	14.5	10.5	10.0	6.5	6.5	6.0	5.5	11.0	10.5	11.0	10.5
24	14.5	14.5	10.0	10.0	7.0	6.5	5.5	5.5	11.5	11.0	12.0	11.0
25	15.0	14.5	10.5	10.0	8.0	7.0	6.5	6.0	11.0	11.0	12.5	12.0
26	15.0	14.5	10.0	9.5	8.0	7.5	6.5	6.0	11.5	11.0	12.0	12.0
27	15.5	14.5	9.5	9.5	8.0	7.5	7.5	6.5	12.0	11.5	12.0	11.5
28	15.5	15.0	9.5	9.0	8.0	7.5	8.0	7.5	11.0	10.5	12.0	11.5
29	15.5	15.0	9.0	8.5	8.0	8.0	8.5	8.0	---	---	12.0	12.0
30	16.0	15.5	8.5	8.0	8.5	8.0	9.0	8.5	---	---	12.0	12.0
31	16.0	15.5	---	---	9.0	8.5	9.0	8.5	---	---	12.0	12.0
MONTH	21.0	14.5	17.0	8.0	9.0	5.5	9.5	5.5	12.0	5.5	12.5	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	12.0	21.0	20.5	26.5	26.0	26.5	25.5	24.5	23.5	28.0	27.5
2	12.5	12.0	21.5	21.0	26.0	25.5	26.5	25.5	25.5	24.5	28.0	27.0
3	13.0	12.5	21.5	21.0	25.5	24.0	26.5	25.5	26.0	25.0	28.0	27.0
4	13.0	13.0	21.0	21.0	24.5	24.0	27.0	26.0	26.0	25.0	28.5	27.0
5	13.0	12.5	21.0	20.0	24.0	23.5	27.0	26.0	26.0	25.0	28.0	27.0
6	13.0	12.0	21.5	20.0	24.5	23.5	27.0	26.0	26.0	25.0	28.5	27.0
7	12.5	12.0	21.5	21.0	25.0	24.0	26.5	26.0	26.5	26.0	27.5	27.0
8	12.0	11.5	21.0	20.5	25.5	25.0	26.5	26.0	26.5	26.0	27.5	27.0
9	12.5	12.0	21.0	20.5	25.5	25.0	27.0	26.0	26.5	26.0	27.5	26.5
10	12.5	12.5	21.0	20.5	25.0	24.0	27.0	26.5	26.0	25.0	27.0	26.5
11	12.5	12.5	21.5	20.5	25.0	24.5	26.5	26.0	26.5	26.0	27.0	26.5
12	13.0	12.5	22.0	21.0	25.0	24.5	26.0	25.5	26.5	26.0	26.5	25.5
13	13.5	12.5	22.0	21.5	25.5	24.5	25.5	25.5	26.5	26.0	25.5	25.0
14	13.5	13.0	22.5	22.0	25.5	25.0	25.5	25.0	26.5	25.5	25.0	24.5
15	13.5	13.0	22.5	22.0	26.0	25.5	25.0	23.5	27.0	26.5	24.5	23.5
16	14.5	13.0	23.5	22.0	26.5	26.0	23.0	21.5	27.5	27.0	23.5	23.0
17	14.5	14.0	23.5	22.5	27.0	26.0	21.5	21.0	28.0	27.0	23.0	23.0
18	15.0	14.5	23.5	23.0	27.5	26.5	21.0	21.0	28.0	27.0	23.0	22.5
19	16.0	15.0	23.5	23.0	27.5	26.5	21.0	18.5	28.0	27.0	23.0	22.5
20	16.0	15.5	23.5	22.0	27.5	27.0	21.5	21.0	28.0	27.0	23.0	23.0
21	16.5	16.0	22.0	21.0	27.0	27.0	22.0	21.5	28.0	27.0	23.0	23.0
22	17.0	16.0	21.0	20.0	27.0	26.5	22.5	22.0	28.0	27.0	23.0	22.5
23	17.5	16.5	21.5	21.0	27.0	26.0	22.5	22.5	28.5	27.5	23.0	22.5
24	18.5	17.5	23.0	21.5	26.5	25.5	23.0	22.5	29.0	28.0	23.0	22.5
25	19.0	18.5	23.5	22.5	26.0	25.5	23.0	23.0	29.0	28.0	22.0	22.0
26	19.5	19.0	23.5	23.5	26.5	25.5	23.5	23.0	29.0	28.0	22.0	20.5
27	19.5	19.0	24.5	23.5	26.0	25.5	23.5	23.0	29.0	28.0	20.5	20.0
28	20.0	19.5	25.5	24.5	26.0	25.5	23.5	23.0	28.5	28.0	20.0	20.0
29	20.5	19.5	26.0	25.5	26.0	25.0	24.0	23.5	28.5	27.5	20.0	19.5
30	21.0	20.5	26.0	25.5	26.5	25.5	24.0	23.5	28.5	27.5	19.5	19.0
31	---	---	26.0	25.5	---	---	24.0	23.5	28.0	27.5	---	---
MONTH	21.0	11.5	26.0	20.0	27.5	23.5	27.0	18.5	29.0	23.5	28.5	19.0
YEAR	29.0	5.5										

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

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT.					
09...	1030	1280	14	48	100
NOV.					
05...	1115	1320	46	164	100
DEC.					
12...	1215	15700	186	7890	97
JAN.					
28...	1130	21900	78	4610	80
FEB.					
25...	1230	9790	26	687	99
MAR.					
18...	1210	31100	100	8400	100
APR.					
16...	1055	6270	28	474	88
MAY					
06...	1050	3890	20	210	100
JUNE					
10...	1130	1880	37	188	100
JULY					
22...	1100	46600	35	4400	99
AUG.					
07...	1335	2020	15	82	95
SEP.					
16...	1145	2380	17	109	100

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL MERCURY (HG) (UG/L)
OCT.											
02...	1010	2560	27	--	6.4	23.0	7.6	34	1.7	110	--
02...	1515	2360	12	60	6.5	21.0	7.3	72	1.5	80	--
07...	1215	1410	19	80	6.7	21.0	8.8	49	.6	110	--
16...	1115	1200	25	70	6.8	24.0	7.6	<25	1.0	90	--
21...	1230	1900	17	80	6.5	14.0	10.3	27	1.5	30	--
28...	1100	1400	26	70	7.0	19.0	7.8	<25	2.0	390	--
NOV.											
05...	1030	1290	11	110	6.7	21.0	8.6	31	1.4	30	--
12...	1350	1220	23	100	6.7	18.0	8.3	<25	.6	80	--
20...	1030	2120	31	90	7.6	19.0	9.6	28	.8	160	--
DEC.											
18...	1500	5000	21	35	7.2	9.0	8.2	<25	1.3	50	--
JAN.											
23...	1030	18700	14	40	6.5	6.0	8.8	<25	1.2	550	--
29...	1110	25000	14	50	6.1	13.0	8.0	32	1.1	530	--
FEB.											
20...	1045	15200	20	40	7.4	10.0	8.8	<25	1.0	2100	--
27...	1040	12100	21	50	6.7	12.0	11.4	<25	.7	1700	--
MAR.											
03...	1230	7060	25	50	7.2	5.0	10.3	<25	1.2	60	--
11...	1245	3030	16	50	6.2	12.0	9.0	<25	.7	80	--
17...	1245	23400	15	20	6.4	10.0	9.2	27	2.0	600	--
APR.											
10...	1500	5660	--	--	6.2	18.0	9.2	<25	1.4	--	--
14...	1430	4880	12	50	6.7	16.0	8.8	<25	1.6	140	--
21...	1235	5660	19	50	7.1	18.0	10.7	31	1.8	40	--
MAY											
05...	1420	3880	14	40	6.6	21.0	7.4	<25	1.5	100	--
JUNE											
09...	1315	2150	17	72	5.3	27.0	10.2	<25	1.1	130	--
18...	1050	1910	13	70	6.3	27.0	6.8	<25	.8	20	--
23...	1300	1460	11	20	7.3	23.0	8.6	<25	.8	1200	--
JULY											
09...	1500	1580	12	90	6.6	28.0	7.2	<25	--	<10	1.0
28...	1400	17700	18	50	6.3	25.0	6.1	<25	1.0	400	--
AUG.											
26...	1135	1340	14	80	6.3	31.0	7.2	<25	.9	20	--
SEP.											
02...	1440	1460	17	80	6.5	28.0	7.0	<25	1.3	40	--
09...	1410	1170	22	130	6.8	29.0	6.2	<25	.9	30	--
15...	1100	2070	48	100	7.0	24.0	7.0	<25	.8	80	--
23...	1030	6740	38	110	6.8	24.0	7.7	<25	.9	160	--
29...	1430	19500	31	65	6.8	21.0	7.9	<25	.2	110	--

02116500 Yadkin River at Yadkin College, N. C.

LOCATION.--Lat 35°51'24", long 80°23'10", Davidson County, water-quality recorder at gaging station near left bank on downstream end of pier of bridge on U. S. Highway 64, 1.5 mi (2.4 km) south of Yadkin College, 6.2 mi (10.0 km) downstream from Reedy Creek, and 295 mi (475 km) upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--2,280 mi^2 (5,910 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1943 to September 1944, October 1950 to September 1951, October 1955 to September 1967, water years 1968-70 (partial-record station), October 1970 to September 1975.
Water temperatures: October 1943 to September 1944, October 1950 to September 1951, October 1955 to September 1967, October 1970 to September 1975.
Sediment records: January 1951 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 100 micromhos May 19; minimum daily, 34 micromhos Mar. 31.
Water temperatures: Maximum, 27.0°C Sept. 5; minimum, 4.0°C Jan. 17-19, Feb. 10.
Sediment concentrations: Maximum daily, 1,560 mg/l Mar. 30; minimum daily, 10 mg/l Nov. 29, 30.
Sediment discharge: Maximum daily, 113,000 tons Mar. 15; minimum daily, 47 tons Nov. 29, 30.

Period of record:
Dissolved solids (1943-44, 1950-51, 1955-67): Maximum, 85 mg/l Nov. 1-10, 1950; minimum, 32 mg/l Mar. 21-31, 1944.
Hardness (1943-44, 1950-51, 1955-67): Maximum, 26 mg/l Mar. 6, 1959; minimum, 8 mg/l Dec. 25, 1962.
Specific conductance (1955-67, 1970-75): Maximum daily, 815 micromhos Aug. 26, 1971; minimum daily, 20 micromhos Nov. 2, 16, 28, Dec. 1, 6, 7, 1971.
Dissolved oxygen (1970-73): Maximum recorded, 13.0 mg/l Jan. 21, 1971; minimum recorded, 0.0 mg/l Oct. 15, 16, 1970.
Water temperatures: Maximum, 31.0°C Aug. 24, 1959; minimum, freezing point on many days during most winter months.
Sediment concentrations: Maximum daily, 2,970 mg/l May 26, 1952; minimum daily, 1 mg/l Dec. 3, 1953.
Sediment discharge: Maximum daily, 182,000 tons June 22, 1972; minimum daily, 3 tons Dec. 3, 1953.

REMARKS.--Miscellaneous chemical data published for water years 1947-49, 1955. Because of equipment malfunctions, once-daily observer data are used instead of water-quality recorder data. Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)
OCT.											
02...	1430	2120	14	1400	100	5400	37	37	0	110	4.6
DEC.											
11...	1210	2670	--	--	--	--	--	--	--	--	--
JAN.											
09...	1225	2370	13	--	--	--	--	--	--	--	4.2
11...	0815	6860	10	22000	110	--	300	290	10	--	3.5
11...	1715	12600	8.9	6900	190	--	730	700	30	--	5.6
12...	1615	7100	10	12000	140	--	180	180	0	--	3.6
13...	1300	12400	8.8	11000	120	--	260	260	0	--	8.6
23...	1230	2730	13	--	--	--	--	--	--	--	5.6
MAR.											
31...	1315	41100	4.4	19000	90	--	--	--	--	--	2.7
JUNE											
19...	1230	3260	13	3200	150	8600	--	--	--	--	3.7
SEP.											
04...	1300	1640	14	3700	130	--	--	--	--	--	4.8

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
02...	1.2	5.1	2.2	20	--	16	4.5	3.7	.1	.39	.38
DEC.											
11...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
09...	1.3	5.5	2.1	22	--	18	4.9	5.0	.1	--	--
11...	1.6	5.6	3.4	18	--	15	5.9	4.2	.2	--	--
11...	1.6	3.3	2.9	12	--	10	6.2	3.0	.0	.35	.33
12...	1.4	3.3	2.2	15	--	12	5.2	3.1	.1	.42	.41
13...	1.6	2.5	2.5	12	--	10	6.3	3.1	.1	.45	.43
23...	1.5	4.8	2.2	18	--	15	5.1	3.7	.3	.43	.50
MAR.											
31...	.8	.5	2.2	8	--	7	5.2	1.4	.3	--	--
JUNE											
19...	1.3	4.8	2.1	17	0	14	3.7	4.3	.2	.47	.44
SEP.											
04...	1.3	6.5	2.8	22	0	18	4.9	4.9	.1	.40	.40

02116500 Yadkin River at Yadkin College, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)
OCT.											
02...	.0	.04	.00	.00	.35	.25	.39	.14	.25	130	.78
DEC.											
11...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
09...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	.19	.09	.12	.71	.30	.90	.51	.39	--	1.3
12...	--	.14	.07	.09	1.2	.22	1.3	1.0	.29	--	1.7
13...	--	.14	.08	.10	.50	.23	.64	.33	.31	--	1.1
23...	--	.11	.11	.14	.39	.18	.50	.21	.29	--	.93
MAR.											
31...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
19...	.0	.05	.02	.03	.71	1.1	.76	.00	1.1	890	1.2
SEP.											
04...	--	.04	.04	.05	.40	.14	.44	.26	.18	--	.84

DATE	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT.											
02...	3.5	.19	.34	.12	.12	.11	79	63	45	.09	361
DEC.											
11...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
09...	--	--	--	--	--	--	--	53	47	.07	339
11...	--	--	--	--	--	--	--	31	43	.04	574
11...	5.5	.19	.09	.05	.10	.03	--	41	38	.06	1390
12...	7.6	.32	.06	.03	.08	.02	--	34	38	.05	652
13...	4.8	.42	.06	.06	.09	.02	--	48	40	.07	1610
23...	4.1	.15	.18	.06	.07	.06	--	29	45	.04	214
MAR.											
31...	--	--	--	--	--	--	--	39	22	.05	4330
JUNE											
19...	5.4	.22	.12	.06	.05	.04	410	50	44	.07	440
SEP.											
04...	3.7	.25	.43	.15	.16	.14	--	52	53	.07	230

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
02...	16	0	37	.5	58	6.6	17.0	20	8.2	8.0
DEC.										
11...	--	--	--	--	67	6.3	4.5	--	11.9	--
JAN.										
09...	16	0	39	.6	65	7.0	7.0	60	--	3.5
11...	15	1	38	.6	68	6.3	--	500	--	14
11...	21	11	23	.3	55	6.3	--	400	--	9.6
12...	15	2	29	.4	50	6.6	--	300	--	6.0
13...	28	18	15	.2	50	6.4	7.0	300	--	7.6
23...	20	5	31	.5	60	6.4	5.5	50	12.1	11
MAR.										
31...	10	3	8	.1	34	6.1	12.5	550	--	10
JUNE										
19...	15	1	38	.5	44	6.6	23.0	11	6.8	6.8
SEP.										
04...	17	0	40	.7	70	6.9	--	80	--	4.4

PEE DEE RIVER BASIN

02116500 Yadkin River at Yadkin College, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)
OCT.												
02...	--	--	--	2.5	--	1.7	.0	0	0	0	1	1
DEC.												
11...	2300	3.8	4.6	--	--	--	--	--	--	--	--	--
JAN.												
11...	--	--	--	--	--	--	--	2	2	0	--	0
11...	--	--	--	22	9.0	--	--	6	6	0	--	3
12...	--	--	--	7.9	6.8	--	--	3	3	0	--	3
13...	--	--	--	4.9	--	--	.1	1	1	0	--	0
23...	--	--	--	1.9	--	--	.0	--	--	--	--	--
MAR.												
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE												
19...	--	--	--	--	--	1.4	.0	--	--	--	--	--
SEP.												
04...	--	--	--	15	15	--	.0	--	--	--	--	--

DATE	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT.												
02...	0	2	<10	<10	<10	0	10	2	0	2	<10	4
DEC.												
11...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
11...	0	0	--	40	40	0	--	8	8	0	--	20
11...	3	0	--	30	30	0	--	18	18	0	--	31
12...	3	0	--	<10	<10	0	--	10	10	0	--	14
13...	0	0	--	20	20	0	--	3	1	2	--	9
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
31...	--	--	--	20	20	0	--	--	--	--	--	12
JUNE												
19...	--	--	--	<10	<7	3	10	--	--	--	--	11
SEP.												
04...	--	--	--	20	20	0	--	--	--	--	--	5

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
02...	5	3	20	7	5	2	<10	.0	.0	.0
JAN.										
11...	16	4	--	42	42	0	--	.0	.0	.4
11...	24	7	--	63	61	2	--	.5	.5	.0
12...	6	8	--	29	27	2	--	1.4	.9	.5
13...	3	6	--	17	17	0	--	.0	.0	.1
MAR.										
31...	10	2	--	32	32	0	--	--	--	--
JUNE										
19...	6	5	10	10	10	0	<10	--	--	--
SEP.										
04...	4	1	--	14	14	0	--	--	--	--

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT.									
02...	.0	0	0	0	0	20	20	0	20
JAN.									
11...	--	0	0	0	--	70	60	10	--
11...	--	0	0	0	--	90	80	7	--
12...	--	0	0	0	--	30	30	3	--
13...	--	0	0	0	--	10	3	7	--
MAR.									
31...	--	--	--	--	--	40	40	4	--
JUNE									
19...	--	--	--	--	--	30	30	0	60
SEP.									
04...	--	--	--	--	--	20	20	3	--

02116500 Yadkin River at Yadkin College, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	76	69	56	62	54	42	54	47	48	69	71
2	64	80	52	58	62	55	39	59	44	56	66	58
3	73	67	51	58	61	53	44	57	38	58	67	57
4	76	65	55	65	65	53	47	58	40	58	65	61
5	72	67	62	60	68	57	49	48	47	60	67	74
6	73	66	70	62	64	58	51	60	55	56	66	73
7	66	69	68	64	61	62	50	50	49	58	61	82
8	75	73	62	64	59	60	48	54	48	50	57	63
9	71	72	56	65	52	56	53	57	48	55	63	66
10	76	69	54	70	49	55	54	56	50	55	65	66
11	75	64	57	74	50	66	54	54	49	55	63	69
12	76	67	60	58	53	56	57	50	53	60	67	67
13	70	62	68	58	56	62	52	54	49	54	63	65
14	66	65	64	53	57	48	48	54	39	57	65	61
15	76	76	63	55	56	38	50	58	45	58	71	67
16	71	68	66	57	54	47	50	69	47	54	80	65
17	84	66	51	58	54	41	56	60	46	56	69	68
18	75	62	56	61	54	41	54	62	51	61	67	77
19	73	58	63	63	53	49	56	100	45	64	70	77
20	70	65	63	61	54	48	54	49	54	62	77	48
21	67	65	63	61	57	47	50	59	51	59	78	51
22	72	56	60	57	57	50	50	57	51	53	79	43
23	66	62	60	62	56	51	54	66	49	58	74	51
24	73	65	56	65	57	39	57	62	50	68	74	56
25	75	63	55	64	48	46	57	52	55	67	71	54
26	80	69	57	56	49	49	56	55	55	66	81	50
27	71	59	55	53	46	51	52	52	69	55	73	57
28	71	65	59	54	48	51	50	51	61	54	77	61
29	71	65	58	56	---	49	52	55	57	59	78	61
30	68	63	57	59	---	43	54	53	52	61	82	62
31	73	---	56	62	---	34	---	49	---	68	71	---
MONTH	72	66	60	60	56	51	51	57	50	58	70	63
YEAR	MAX	100	MIN	34	MEAN	60						

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.0	19.0	7.0	11.0	10.0	9.0	12.0	17.0	20.5	22.0	26.0	25.0
2	15.0	18.0	5.0	8.0	8.0	7.0	12.0	17.0	20.0	22.0	26.0	24.0
3	13.0	18.0	6.0	7.0	7.0	6.0	14.0	17.0	20.0	23.0	25.0	23.0
4	13.0	19.0	5.0	7.0	6.0	5.0	11.0	18.0	20.5	24.0	25.0	24.0
5	14.0	18.0	5.0	7.0	5.0	5.0	12.0	17.0	21.0	24.0	26.0	27.0
6	14.0	16.0	6.0	5.0	7.0	5.0	9.0	17.0	21.0	23.0	25.0	24.0
7	15.0	14.0	5.0	5.0	7.0	7.0	10.0	19.0	21.0	22.0	24.0	23.0
8	16.0	14.0	7.0	5.0	6.0	8.0	10.0	17.0	20.5	24.0	23.0	23.0
9	16.0	14.0	7.0	7.0	6.0	7.0	13.0	18.0	21.0	22.0	22.0	21.0
10	16.0	11.0	5.0	7.0	4.0	7.0	14.0	18.0	20.5	23.0	24.0	22.0
11	16.0	11.0	5.0	11.0	6.0	7.0	14.0	18.0	19.5	23.0	23.0	23.0
12	16.5	13.0	7.0	10.0	9.0	8.0	13.0	20.0	19.5	22.0	23.0	23.0
13	16.5	10.0	7.0	8.0	9.0	10.0	9.0	18.0	20.0	22.0	23.0	21.0
14	17.0	10.0	7.0	5.0	8.0	9.0	13.0	18.0	20.5	21.0	24.0	18.0
15	18.0	9.0	7.0	5.0	8.0	8.0	13.0	20.0	21.0	21.0	25.0	22.0
16	18.5	9.0	7.0	5.0	9.0	9.0	12.0	20.0	21.5	20.0	25.0	18.0
17	18.0	8.0	7.0	4.0	9.0	9.0	13.0	20.0	22.0	21.0	25.0	18.0
18	18.0	9.0	6.0	4.0	10.0	9.0	15.0	18.0	23.0	21.0	25.0	20.0
19	16.0	10.0	5.0	4.0	11.0	10.0	12.0	18.0	23.5	21.0	25.0	19.0
20	13.0	12.0	6.0	6.0	10.0	11.0	16.0	20.0	23.0	23.0	25.0	20.0
21	11.0	10.0	6.0	5.0	9.0	11.0	14.0	20.0	22.0	23.0	24.0	21.0
22	10.0	9.0	5.0	5.0	9.0	12.0	16.0	22.0	21.5	25.0	24.0	19.0
23	11.0	10.0	6.0	5.0	10.0	12.0	16.0	23.0	21.5	25.0	25.0	18.0
24	12.0	10.0	8.0	7.0	11.0	14.0	18.0	22.0	21.5	24.0	26.0	18.0
25	14.0	10.0	9.0	10.0	10.0	14.0	19.0	23.0	23.0	24.0	25.0	18.0
26	14.0	8.0	7.0	8.0	10.0	11.0	21.0	23.0	23.5	23.0	26.0	19.0
27	14.0	7.0	8.0	7.0	9.0	11.0	18.0	22.0	23.0	23.0	26.0	18.0
28	14.0	8.0	8.0	7.0	9.0	12.0	18.0	22.0	22.5	23.0	25.0	17.0
29	16.0	9.0	10.0	10.0	---	12.0	18.0	21.5	23.0	25.0	26.0	17.0
30	17.0	8.0	10.0	9.0	---	14.0	18.0	21.0	23.0	25.0	24.0	17.0
31	17.0	---	10.0	9.0	---	11.0	---	20.5	---	25.0	24.0	---
MONTH	15.0	11.5	6.5	7.0	8.5	9.5	14.0	19.5	21.5	23.0	24.5	20.5
YEAR	MAX	27.0	MIN	4.0	MEAN	15.0						

PEE DEE RIVER BASIN

02116500 Yadkin River at Yadkin College, N. C.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2150	60	348	1730	19	89	5200	485	6810
2	2050	59	327	1680	22	100	4840	420	5490
3	1980	41	219	1680	21	95	3480	228	2140
4	1860	36	181	1670	24	108	2710	70	512
5	1890	45	230	1670	25	113	2350	48	305
6	1900	44	226	1680	26	118	2170	45	264
7	1890	25	128	1670	24	108	2110	65	370
8	1950	21	111	1650	18	80	6590	600	10700
9	1850	40	200	1630	15	66	5040	459	6250
10	1820	45	221	1640	18	80	3390	394	3610
11	1800	50	243	1650	12	53	2670	132	952
12	1810	34	166	1660	21	94	2410	69	449
13	1790	30	145	1730	22	103	2280	47	289
14	1790	28	135	1740	21	99	2180	57	336
15	1760	29	138	1800	20	97	2110	69	393
16	1790	29	140	1900	26	133	2560	79	546
17	1990	30	161	1740	20	94	3460	159	1490
18	2260	33	201	1740	21	99	3030	145	1190
19	2030	50	274	1940	31	162	2500	97	655
20	1890	32	163	2320	61	382	2300	55	342
21	1810	20	98	2720	130	955	2250	45	273
22	1740	17	80	2520	90	612	2160	22	128
23	1750	19	90	2030	45	247	2090	35	198
24	1760	25	119	1870	39	197	2010	20	109
25	1750	25	118	1800	32	156	2030	41	225
26	1770	25	119	1840	45	224	2060	35	195
27	1740	20	94	1790	18	87	2060	28	156
28	1720	20	93	1760	11	52	2220	32	192
29	1730	24	112	1740	10	47	2580	69	481
30	1730	20	93	1730	10	47	2450	72	476
31	1740	19	89	--	--	--	2280	58	357
TOTAL	57490	--	5062	54720	--	4897	87570	--	45883

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2120	32	183	2550	110	757	2840	120	920
2	2060	37	206	2530	110	751	2700	110	802
3	2000	48	259	2540	110	754	2630	90	639
4	2100	20	113	2610	110	775	2500	78	527
5	2170	29	170	4790	200	2590	2390	78	503
6	2130	28	161	6170	353	5880	2380	80	514
7	2180	25	147	7440	381	7650	2370	80	512
8	2120	20	114	5630	349	5310	2600	80	562
9	2340	59	373	4320	300	3500	2500	82	554
10	2290	88	544	3440	238	2210	2410	73	475
11	8670	901	21100	3100	110	921	2480	50	335
12	8990	489	11900	2950	100	797	2620	74	523
13	11800	629	20000	3000	108	875	9770	687	18100
14	9850	560	14900	2860	139	1070	25800	830	57800
15	5210	421	5920	2700	128	933	43100	970	113000
16	3740	309	3120	2560	72	498	27000	262	19100
17	3040	212	1740	2720	86	632	15500	318	13300
18	2780	138	1040	2950	105	836	13500	302	11000
19	2580	58	404	2940	109	865	16000	605	26100
20	3260	98	863	2840	110	843	23800	775	49800
21	3900	208	2190	2640	92	656	7990	485	10500
22	3260	200	1760	2570	81	562	5290	350	5000
23	2730	170	1250	2520	57	388	6210	382	6400
24	2530	137	936	3070	90	746	9290	675	16900
25	4520	358	4370	6730	730	13300	9890	660	17600
26	6580	467	8300	5120	578	7990	6620	450	8040
27	4560	310	3820	4680	382	4830	5330	405	5830
28	3730	285	2870	3610	228	2220	4920	470	6240
29	3120	190	1600	--	--	--	6310	600	10200
30	2870	128	992	--	--	--	17600	1560	74100
31	2650	115	823	--	--	--	37300	1060	107000
TOTAL	121880	--	112168	101580	--	69139	321640	--	582876

02116500 Yadkin River at Yadkin College, N. C.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	14500	458	17900	3250	86	755	11400	1040	32000
2	10400	440	12400	3160	75	640	16600	950	42600
3	7880	390	8300	3090	75	626	9950	660	17700
4	5630	305	4640	4580	262	3240	7450	540	10900
5	5040	300	4080	5470	301	4450	4780	429	5540
6	4330	271	3170	3870	150	1570	4920	465	6180
7	4190	261	2950	3210	94	815	5620	565	8570
8	4010	248	2690	3040	85	698	4270	388	4470
9	3850	240	2490	3060	82	677	3560	250	2400
10	3790	234	2390	3140	95	805	3320	185	1660
11	3720	228	2290	3160	86	734	3530	228	2170
12	3790	212	2170	3170	93	796	5860	490	7750
13	3660	202	2000	3080	121	1010	11500	1100	34200
14	3490	180	1700	2920	120	946	9150	730	18000
15	3650	147	1450	2970	120	962	5310	431	6180
16	3640	90	885	4850	390	5110	4320	320	3730
17	3430	80	741	7030	400	7590	3790	225	2300
18	3370	75	682	6070	285	4670	3530	212	2020
19	3310	84	751	7000	403	7620	3320	195	1750
20	3380	98	894	6620	340	6080	3710	200	2000
21	3220	60	522	4540	278	3410	3580	204	1970
22	3100	52	435	3540	167	1600	3420	161	1490
23	3040	70	575	3310	130	1160	3120	180	1520
24	3050	70	576	4130	301	3360	3160	220	1880
25	3050	63	519	3500	330	3120	2460	120	797
26	3220	85	739	4000	361	3900	2970	178	1430
27	3180	90	773	3380	350	3190	2560	162	1120
28	3010	72	585	3460	320	2990	3060	188	1550
29	2940	79	627	3230	305	2660	2720	155	1140
30	3170	95	813	6250	700	11800	2710	120	878
31	--	--	--	9570	1040	26900	--	--	--
TOTAL	130040	--	80737	131650	--	113884	155650	--	225895

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3010	150	1220	2300	159	987	1470	55	218
2	2650	140	1000	2160	148	863	2230	138	831
3	2390	140	903	2060	126	712	1970	129	686
4	2360	135	860	2000	100	540	1670	94	424
5	2500	130	878	1890	90	459	1550	50	209
6	2470	115	767	2590	164	1150	1460	42	166
7	2450	130	860	2970	177	1420	2140	161	930
8	2980	210	1690	2810	177	1340	2690	274	1990
9	2910	250	1960	2170	145	850	2110	168	957
10	2690	237	1720	2030	117	641	1770	98	468
11	2740	237	1750	1930	112	584	1810	87	425
12	3320	285	2550	2000	144	778	2230	135	813
13	3820	380	3920	2240	162	980	3960	488	5220
14	4220	424	4830	1930	134	698	2560	325	2250
15	5250	536	7600	1810	82	401	1970	214	1140
16	9590	850	22000	1900	110	564	1690	150	684
17	4270	421	4850	1850	89	445	1670	75	338
18	2920	267	2110	1810	72	352	1910	78	402
19	2620	162	1150	1650	67	298	7530	804	16300
20	2840	188	1440	1870	78	394	8370	1220	27600
21	3470	292	2740	1940	82	430	4140	660	7380
22	3100	268	2240	1730	76	355	6320	910	15500
23	2490	211	1420	1640	70	310	6420	790	13700
24	4150	600	6720	1640	62	275	7540	745	15200
25	8720	980	23100	1680	71	322	6220	630	10600
26	7130	930	17900	1600	58	251	4930	544	7240
27	3230	418	3650	1530	55	227	3090	352	2940
28	2820	257	1960	1490	65	261	2450	170	1120
29	2420	171	1120	1600	59	255	2330	130	818
30	2200	127	754	1590	57	245	2170	121	709
31	2150	138	801	1500	55	223	--	--	--
TOTAL	109880	--	126463	59910	--	17610	98370	--	137258

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1430380
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 1521672

02116500 Yadkin River at Yadkin College, N. C.--Continued

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CaCO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
07...	1025	2020	--	55	--	15.0	9.4	45	2.0	110
16...	0945	1940	--	55	--	18.0	--	<25	2.4	--
23...	1120	2010	--	50	--	11.0	10.3	27	.2	30
28...	0910	1720	--	55	--	14.0	9.0	<25	2.3	50
NOV.										
04...	1029	1680	--	95	--	10.0	8.5	<25	1.8	50
12...	1300	1660	--	60	--	12.0	10.2	<25	1.1	10
JAN.										
23...	0905	2790	--	45	--	5.0	12.0	--	--	--
30...	1020	2900	--	50	--	10.0	10.1	59	12	40
FEB.										
05...	0845	4910	--	45	--	3.0	12.0	--	--	6500
10...	1100	3490	--	40	--	4.0	12.0	<25	1.4	60
18...	1125	2970	--	40	--	10.0	9.6	<25	2.8	370
25...	1230	8060	--	40	--	10.0	9.6	<25	2.6	1400
MAR.										
03...	1310	2610	--	45	--	5.0	10.3	<25	1.4	20
12...	1035	2580	--	50	--	7.0	9.8	<25	3.8	100
20...	1410	26200	--	35	--	12.0	9.0	27	1.9	2100
26...	1110	6790	--	40	--	10.0	9.4	39	2.2	9100
APR.										
01...	1525	9370	--	--	--	14.0	9.1	<25	1.5	1200
08...	1040	4030	--	--	--	11.0	10.2	<25	1.2	80
15...	0920	3580	--	50	--	12.0	--	<25	2.4	400
24...	1335	3050	--	50	--	19.0	9.2	31	4.9	820
30...	0940	3030	--	55	--	19.0	7.7	<25	4.6	2800
MAY										
07...	1420	3060	--	55	--	20.0	8.0	<25	3.2	920
13...	1420	3060	--	55	--	20.0	8.0	<25	2.4	920
28...	0800	3540	--	60	--	21.0	8.3	74	2.0	4500
JUNE										
04...	1430	7650	25	--	7.2	23.0	7.1	<25	1.2	1300
09...	1135	3620	--	--	--	22.0	7.5	<25	1.2	1000
19...	1000	3240	--	60	--	24.0	7.3	<25	1.7	3400
24...	0925	3370	--	60	--	23.0	6.2	<25	1.8	1100
JULY										
02...	0930	2710	--	--	7.0	24.0	6.4	<25	1.5	600
22...	1345	3060	--	--	--	27.0	7.1	<25	2.2	4700
29...	0950	2400	--	--	--	27.0	7.5	<25	1.6	6800
AUG.										
14...	1130	1980	--	35	6.4	25.0	7.0	74	2.0	--
SEP.										
08...	1530	2740	--	--	--	20.0	7.3	<25	1.7	--
16...	1400	1500	--	--	--	19.0	7.8	<25	1.2	1000

02129000 Pee Dee River near Rockingham, N. C.
(National Stream Quality Accounting Network Station)

LOCATION.--Lat 34°56'46", long 79°52'11", Richmond County, at gaging station on left bank at bridge on U. S. Highway 74, 2.5 mi (4.0 km) upstream from Falling Creek, 3.3 mi (5.3 km) downstream from Blewett Falls hydroelectric plant, 6 mi (10 km) west of Rockingham, and 192 mi (309 km) upstream from mouth in Winyah Bay.

DRAINAGE AREA.--6,870 mi^2 (17,790 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1946 to September 1948, October 1957 to September 1967, water years 1968-69, 1973 (partial-record station), October 1969 to September 1972, July to September 1973, March 1974 to September 1975.
Water temperatures.--October 1946 to September 1948, October 1957 to September 1967, July to September 1973, March 1974 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 110 micromhos Dec. 3; minimum daily, 48 micromhos July 15.
Water temperatures: Maximum, 30.5°C Aug. 30; minimum, 7.5°C Jan. 20, 21, 23, Feb. 5.

Period of record:
Dissolved solids (1946-48, 1957-67): Maximum, 84 mg/l Jan. 1-31, 1966; minimum, 38 mg/l Mar. 1-10, 1948.
Hardness (1946-48, 1957-67): Maximum, 27 mg/l Mar. 1-14, 1963; minimum, 11 mg/l Feb. 1-10, 1958.
Specific conductance (1957-67, 1973-75): Maximum daily, 152 micromhos Nov. 17, 1959; minimum daily, 41 micromhos Mar. 17, 1964.
Water temperatures: Maximum, 30.5°C Aug. 30, 1975; minimum, freezing point on many days in 1961-62.

REMARKS.--Miscellaneous chemical data published for water years 1945, 1955-56. Flow regulated by Blewett Falls Lake and five other reservoirs upstream. Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT.											
16...	1115	8630	11	890	0	--	110	110	0	4.5	1.9
NOV.											
06...	1125	7940	11	720	40	--	94	82	12	4.8	1.8
DEC.											
11...	1215	13500	11	1100	120	--	370	310	60	6.2	2.0
JAN.											
29...	1200	14600	11	--	--	--	--	--	--	3.3	2.0
FEB.											
24...	1300	11100	11	--	--	--	--	--	--	4.5	2.2
MAR.											
24...	1120	15100	8.6	3900	20	--	110	100	10	3.5	1.5
APR.											
16...	1115	14400	9.2	--	--	--	--	--	--	3.5	2.2
MAY											
28...	0958	9500	11	--	--	--	--	--	--	4.7	1.9
JUNE											
10...	0950	9700	12	2400	140	3200	120	70	50	3.5	1.8
JULY											
29...	1135	9850	11	--	--	--	--	--	--	--	--
AUG.											
12...	1230	8590	11	--	--	--	--	--	--	4.3	2.0
SEP.											
10...	0930	10100	12	2000	70	--	120	0	140	4.5	2.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)
OCT.											
16...	7.0	2.5	25	--	21	6.1	5.2	.2	.33	.33	--
NOV.											
06...	7.7	2.5	32	--	26	6.8	7.9	.1	.27	.26	--
DEC.											
11...	4.8	2.5	21	--	17	6.7	5.5	.2	.52	.56	--
JAN.											
29...	3.9	1.8	15	--	12	6.7	4.0	.3	.49	.46	--
FEB.											
24...	5.4	1.7	20	--	16	6.2	5.4	.1	.48	--	--
MAR.											
24...	3.5	1.7	15	--	12	6.4	4.1	.1	.48	--	--
APR.											
16...	3.3	1.6	16	0	13	5.3	3.2	.1	.45	--	--
MAY											
28...	5.0	1.8	21	0	17	6.3	4.4	.1	.52	--	--
JUNE											
10...	6.2	1.9	24	0	20	6.0	4.6	.2	.53	--	1.0
JULY											
29...	--	--	23	0	19	5.3	4.9	.5	.40	--	--
AUG.											
12...	7.1	2.2	24	0	20	5.9	5.4	.3	.25	--	--
SEP.											
10...	7.0	2.6	27	0	22	7.2	5.3	.2	.27	--	--

02129000 Pee Dee River near Rockingham, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)
OCT. 16...	.05	.04	.05	.32	.35	.37	.00	.39	--	.70	3.1
NOV. 06...	.07	.04	.05	.30	.37	.37	.00	.41	--	.64	2.8
DEC. 11...	.17	.14	.18	.71	.41	.88	.33	.55	--	1.4	6.2
JAN. 29...	.08	.07	.09	.33	.21	.41	.13	.28	--	.90	4.0
FEB. 24...	--	--	--	--	--	.32	--	--	--	.80	3.5
MAR. 24...	--	--	--	--	--	--	--	--	--	--	--
APR. 16...	--	--	--	--	--	.30	--	--	--	.75	3.3
MAY 28...	--	--	--	--	--	.41	--	--	--	.93	4.1
JUNE 10...	--	--	--	--	--	.31	--	--	200	.84	3.7
JULY 29...	--	--	--	--	--	.42	--	--	--	.82	3.6
AUG. 12...	--	--	--	--	--	.48	--	--	--	.73	3.2
SEP. 10...	--	--	--	--	--	.57	--	--	--	.84	3.7

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)
OCT. 16...	.06	.06	.03	.02	.02	--	45	51	.06	1050	19
NOV. 06...	.06	.12	.18	.01	.04	--	65	60	.09	1390	19
DEC. 11...	.29	.15	.08	.12	.05	--	66	52	.09	2410	24
JAN. 29...	.10	.06	.04	.05	.02	--	46	40	.06	1810	16
FEB. 24...	.10	--	--	--	--	--	50	46	.07	1500	20
MAR. 24...	.12	--	--	--	--	--	49	37	.07	2000	15
APR. 16...	.11	--	--	--	--	--	53	36	.07	2060	18
MAY 28...	.09	--	--	--	--	--	66	46	.09	1690	20
JUNE 10...	.09	--	--	--	--	100	57	48	.08	1490	16
JULY 29...	.08	--	--	--	--	--	66	--	.09	1760	--
AUG. 12...	.06	--	--	--	--	--	66	50	.09	1530	19
SEP. 10...	.11	--	--	--	--	--	58	54	.08	1580	19

02129000 Pee Dee River near Rockingham, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
16...	0	41	.7	75	6.8	19.8	20	20	7.8	6.3
NOV.										
06...	0	43	.8	75	6.9	19.0	20	10	8.4	6.4
DEC.										
11...	7	28	.4	72	6.5	8.5	80	30	11.6	11
JAN.										
29...	4	31	.4	64	6.5	9.5	200	50	13.5	7.6
FEB.										
24...	4	34	.5	67	6.7	14.0	--	50	10.2	6.4
MAR.										
24...	3	31	.4	68	6.6	15.0	--	80	9.4	6.0
APR.										
16...	5	27	.3	50	6.5	14.0	--	85	8.7	8.1
MAY										
28...	2	33	.5	68	6.4	23.0	--	40	8.0	13
JUNE										
10...	0	42	.7	74	6.9	24.0	--	35	5.7	4.8
JULY										
29...	--	--	--	68	6.3	26.5	--	25	5.9	18
AUG.										
12...	0	42	.7	76	6.9	27.0	--	15	5.1	4.8
SEP.										
10...	0	40	.7	80	6.5	25.5	--	35	4.4	14

DATE	TOTAL PHYTOPLANKTON (CELLS PER ML)	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)
OCT.												
16...	310	--	--	50	60	--	--	4.1	--	.0	1	0
NOV.												
06...	570	--	--	--	200	--	--	4.4	--	.0	7	6
DEC.												
11...	190	--	--	520	1100	--	--	6.1	--	.0	1	0
JAN.												
29...	190	--	--	260	600	--	--	4.8	--	.1	--	--
FEB.												
24...	79	--	--	120	330	--	--	--	--	--	--	--
MAR.												
24...	130	--	--	100	30	--	--	4.8	--	--	2	1
APR.												
16...	25	--	--	32	76	--	--	--	--	--	--	--
MAY												
28...	1400	--	--	56	20	--	--	--	--	--	--	--
JUNE												
10...	830	--	--	80	32	--	--	6.9	4.6	--	1	1
JULY												
29...	150	--	--	48	60	--	--	--	--	--	--	--
AUG.												
12...	5600	8.1	3.1	8	80	24	27	--	--	--	--	--
SEP.												
10...	8900	--	--	52	110	--	--	15	--	--	1	1

02129000 Pee Dee River near Rockingham, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
OCT.												
16...	1	0	0	0	0	0	0	--	5	0	6	13
NOV.												
06...	1	1	1	0	<10	<10	0	--	1	1	0	1
DEC.												
11...	1	0	0	0	25	25	0	--	0	0	0	3
JAN.												
29...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
24...	1	0	0	0	<10	<9	1	--	1	0	1	5
APR.												
16...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
28...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE												
10...	0	0	0	0	20	20	0	<10	2	1	1	5
JULY												
29...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
12...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
10...	0	0	0	0	<10	<10	0	--	0	0	0	6

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)
OCT.									
16...	10	3	--	8	4	4	--	.0	.0
NOV.									
06...	0	3	--	4	2	2	--	.0	.0
DEC.									
11...	0	4	--	6	4	2	--	.1	.1
MAR.									
24...	3	2	--	4	4	0	--	.3	.1
JUNE									
10...	1	4	<10	5	4	1	<10	.1	.0
SEP.									
10...	3	3	--	5	0	7	--	.1	.1

DATE	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT.								
16...	.0	0	0	0	8	8	0	--
NOV.								
06...	.0	0	0	0	10	2	8	--
DEC.								
11...	.0	0	0	0	20	10	10	--
MAR.								
24...	.2	0	0	0	60	50	10	--
JUNE								
10...	.1	0	0	0	10	0	20	20
SEP.								
10...	.0	0	0	0	20	20	0	--

02129000 Pee Dee River near Rockingham, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	74	98	84	68	69	49	60	60	72	63	76
2	94	76	104	80	65	67	53	78	64	73	62	74
3	92	75	110	83	66	71	51	69	64	74	66	82
4	77	74	87	81	64	71	55	69	63	79	69	105
5	76	74	83	81	63	69	62	66	66	72	70	91
6	72	81	85	79	63	73	59	62	65	72	70	100
7	71	92	85	88	66	70	56	64	68	71	70	100
8	68	87	84	87	67	69	60	62	67	78	68	88
9	66	87	86	86	70	75	57	61	73	74	73	100
10	69	82	76	85	66	70	56	61	79	76	84	77
11	68	87	74	85	68	78	55	66	71	66	80	77
12	72	90	73	80	67	73	61	63	72	80	80	73
13	76	85	75	70	70	70	56	67	66	67	80	71
14	70	86	75	64	69	58	64	78	74	55	78	68
15	73	82	77	59	73	57	57	67	73	48	78	70
16	83	83	78	62	69	56	58	70	76	58	78	79
17	75	86	77	67	72	56	61	70	67	56	76	88
18	72	91	84	64	72	57	57	62	72	56	76	80
19	74	92	74	64	68	55	56	62	75	58	76	64
20	73	94	77	66	72	54	59	58	73	56	73	68
21	69	96	75	68	76	53	58	62	88	63	79	78
22	73	96	75	69	75	52	57	64	79	67	81	73
23	89	90	79	70	75	52	66	66	70	62	90	68
24	81	85	80	68	71	60	60	68	73	62	88	64
25	79	100	82	58	68	51	54	68	75	61	88	64
26	78	104	83	59	70	55	59	71	76	67	81	69
27	78	106	84	60	71	54	63	67	72	70	77	66
28	76	103	74	63	67	56	58	68	72	68	80	68
29	80	101	73	68	---	57	61	66	74	70	78	73
30	83	102	73	69	---	55	64	66	72	66	79	73
31	84	---	74	70	---	55	---	72	---	70	74	---
MONTH	76	89	81	72	69	62	58	66	71	67	76	78
YEAR	MAX	110	MIN	48	MEAN	72						

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.0	20.0	10.0	10.0	10.5	10.0	12.5	18.5	23.0	27.0	27.5	29.5
2	22.0	18.0	9.0	10.0	9.5	10.0	13.5	20.0	22.5	27.0	27.5	28.5
3	22.0	18.0	9.0	10.0	8.5	9.0	13.0	18.0	23.5	27.0	28.0	29.5
4	21.0	20.0	9.0	9.5	8.5	9.0	13.5	18.0	24.0	27.5	27.5	29.0
5	18.0	19.0	9.5	9.0	7.5	9.5	13.5	18.0	25.0	27.0	28.0	28.0
6	17.0	19.0	9.0	8.5	8.0	10.0	14.0	19.0	25.0	27.0	28.0	28.0
7	21.0	26.0	9.0	8.5	8.0	10.5	14.0	19.0	26.5	26.0	27.0	27.0
8	20.0	17.0	9.0	8.5	8.5	9.5	14.5	20.0	25.0	27.0	27.5	28.5
9	20.0	15.0	8.5	8.5	8.5	12.5	14.5	19.0	25.0	27.0	26.5	28.0
10	21.0	15.0	9.0	9.0	8.5	9.5	14.5	19.5	24.0	27.0	27.5	27.0
11	21.0	17.0	8.5	9.5	9.0	10.0	14.0	17.5	23.5	26.0	29.5	27.0
12	18.0	17.0	8.5	9.5	10.0	10.0	14.5	19.5	24.5	26.0	29.0	27.5
13	18.0	16.0	10.0	9.5	9.5	10.0	14.5	21.0	25.5	25.5	29.0	26.0
14	21.0	15.0	9.0	8.5	9.5	12.0	14.5	21.5	26.0	23.5	29.0	26.0
15	21.0	15.0	9.0	8.5	10.0	12.0	14.5	20.5	26.0	22.5	29.0	26.0
16	21.0	13.0	9.5	8.5	10.0	10.5	14.5	21.0	25.5	23.0	28.5	24.5
17	21.0	13.0	9.5	8.0	10.5	10.5	15.5	20.5	26.5	23.0	28.5	24.0
18	21.0	13.0	9.5	8.0	10.5	10.0	16.0	21.0	26.0	22.0	28.5	24.5
19	18.0	14.0	8.0	8.0	11.0	11.0	15.5	19.5	26.0	23.5	28.5	24.0
20	18.0	14.0	8.0	7.5	10.0	11.0	14.0	21.0	27.0	25.0	29.0	24.5
21	18.0	13.0	8.5	7.5	11.0	11.5	18.0	22.5	26.0	26.0	29.0	25.0
22	18.0	11.0	9.0	8.0	11.0	11.5	17.0	23.0	26.0	26.0	29.0	25.0
23	18.0	12.0	9.0	7.5	13.0	11.0	17.0	23.0	26.0	26.5	29.5	25.0
24	18.0	12.0	9.0	8.0	11.0	12.5	18.0	23.0	26.5	26.0	30.0	23.0
25	18.0	12.0	9.0	8.5	11.0	12.5	18.0	24.0	26.0	26.5	29.0	22.5
26	16.0	12.0	9.0	9.5	11.0	11.5	22.0	24.0	26.5	26.0	30.0	23.5
27	17.0	12.0	9.0	9.5	10.0	13.5	22.0	24.5	25.5	26.5	29.0	24.0
28	18.0	12.0	9.0	10.5	10.5	14.0	19.0	24.5	27.0	27.0	29.0	23.5
29	19.0	11.0	9.0	11.5	---	14.0	19.5	24.0	27.5	27.0	29.5	22.5
30	19.0	9.0	9.0	11.5	---	13.5	19.0	24.0	26.5	27.5	30.5	23.0
31	19.0	---	9.0	12.0	---	12.0	---	23.0	---	27.5	29.5	---
MONTH	19.5	15.0	9.0	9.0	10.0	11.0	16.0	21.0	25.5	26.0	28.5	26.0
YEAR	MAX	30.5	MIN	7.5	MEAN	18.0						

02129000 Pee Dee River near Rockingham, N. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT.					
16...	1115	8630	14	326	100
NOV.					
06...	1125	7940	10	214	100
DEC.					
11...	1215	13500	30	1090	97
JAN.					
29...	1200	14600	51	2010	100
FEB.					
24...	1300	11100	38	1140	100
MAR.					
24...	1120	15100	76	3100	98
APR.					
16...	1115	14400	71	2760	100
MAY					
28...	0958	9500	45	1150	98
JUNE					
10...	0950	9700	43	1130	99
JULY					
29...	1135	9850	36	957	100
AUG.					
12...	1230	8590	24	557	100
SEP.					
10...	0930	10100	39	1060	98

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
PERIOD JANUARY 1975 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CaCO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)
JAN.										
28...	1420	17,400	17	30	6.6	12.0	9.8	<25	.4	400
FEB.										
03...	1320	12,300	24	30	7.1	7.0	12.4	<25	.6	60
08...	1615	8630	23	80	6.6	27.0	7.0	<25	.3	10
13...	1610	11100	19	50	6.8	11.0	10.9	<25	.7	30
17...	1540	10500	25	50	6.5	13.0	11.8	<25	.8	30
24...	1030	11700	21	60	6.9	18.0	8.1	<25	.6	60
MAR.										
05...	1345	9500	24	50	7.1	8.0	9.8	<25	.6	10
13...	1410	15100	22	45	7.2	12.0	10.1	<25	1.1	100
20...	1400	57600	18	40	7.0	12.0	11.2	<25	1.1	870
27...	1620	10200	15	25	6.8	17.0	10.0	<25	.8	--
APR.										
03...	1140	24700	--	20	6.5	15.0	11.5	<25	1.0	<10
08...	1530	9900	17	45	7.2	15.0	10.8	<25	1.4	10
15...	1220	12500	13	40	6.7	16.0	9.9	<25	4.8	210
22...	1305	914	21	50	7.2	17.0	11.5	<25	.7	10
29...	0910	5350	15	--	6.7	18.0	9.0	<25	1.4	<10
MAY										
06...	1515	14700	15	60	6.9	21.0	9.0	<25	1.0	360
JUNE										
05...	1600	13300	17	70	6.2	26.0	8.4	<25	.9	10
17...	1500	9800	17	40	6.7	28.0	7.2	<25	1.0	10
26...	1530	8770	17	75	6.8	27.0	7.8	<25	.7	40
JULY										
17...	1555	44700	18	50	6.3	23.0	9.4	47	1.0	8000
22...	1415	9600	27	55	6.8	27.0	7.6	<25	1.3	70
AUG.										
06...	1030	5790	30	70	6.2	26.0	16.2	27	1.1	60
11...	1400	9250	33	90	6.7	28.0	7.8	<25	1.2	20
20...	1615	8770	17	80	7.6	29.0	--	--	--	--
25...	1630	8630	26	100	6.5	30.0	6.8	<25	.7	20
SEP.										
03...	1420	7620	30	120	6.6	29.0	12.6	<25	.6	50
11...	1420	9000	28	90	6.8	28.0	6.2	<25	.9	<10
16...	1315	7340	23	70	7.5	23.0	8.3	<25	.9	<10
30...	1000	8950	39	70	7.8	21.0	7.4	<25	.3	60

02134500 Lumber River at Boardman, N. C.

LOCATION.--Lat 34°26'32", long 78°57'38", Robeson County, at bridge on U. S. Highway 74, 50 ft (15 m) upstream from gaging station, 1 mi (2 km) downstream from Seaboard Coastline Railroad bridge at Boardman, 1.5 mi (2.4 km) downstream from Big Swamp, and 40.5 mi (65.2 km) upstream from mouth.

DRAINAGE AREA.--1,220 mi^2 (3,160 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1946 to September 1947, October 1956 to September 1957, water years 1968-69 (partial-record station), October 1969 to June 1973, October 1974 to September 1975.
Water temperatures: October 1946 to September 1947, October 1974 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 109 micromhos Nov. 16; minimum daily, 39 micromhos Apr. 2, July 25.
Water temperatures: Maximum, 27.0°C July 11, 12, Aug. 31; minimum, 6.0°C Dec. 4, 5, 11, 18.

Period of record:
Dissolved solids (1946-47): Maximum, 59 mg/l Sept. 21-30, 1947; minimum, 28 mg/l Mar. 1-10, 1947.
Hardness (1946-47): Maximum, 11 mg/l Nov. 21-30, 1946, Aug. 21-31, 1947; minimum, 6 mg/l on many days in 1947.
Water temperatures: Maximum, 28.0°C June 11, 1947; minimum, 2.0°C Feb. 11, 1947.

REMARKS.--Miscellaneous chemical data published for water years 1948-50, 1955-56, 1958-67. Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)
OCT.											
04...	1050	924	9.1	1000	690	600	10	0	12	<10	2.4
NOV.											
07...	1150	508	7.2	--	--	--	--	--	--	--	4.1
JAN.											
13...	1235	2150	3.9	--	--	--	--	--	--	--	1.7
22...	1630	4300	4.3	540	250	--	33	23	10	--	1.7
FEB.											
25...	1030	5360	1.5	--	--	--	--	--	--	--	2.9
APR.											
16...	1430	2220	1.3	380	330	--	--	--	--	--	1.6
MAY											
13...	1140	948	4.7	760	440	--	--	--	--	--	1.5
JULY											
14...	1330	698	6.7	560	300	--	--	--	--	--	5.9
18...	1345	1770	7.2	620	300	--	--	--	--	--	3.5
22...	1530	2930	7.1	740	480	--	--	--	--	--	2.5
29...	1230	3280	6.7	820	550	--	--	--	--	--	2.6
AUG.											
04...	1215	1500	7.6	1100	500	--	--	--	--	--	2.5
26...	0800	725	7.6	800	430	--	--	--	--	--	2.5
SEP.											
24...	1220	817	8.8	760	430	--	--	--	--	--	2.2

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
04...	.9	10	1.3	12	--	10	6.7	10	.2	.14	.16
NOV.											
07...	.9	14	1.9	22	--	18	8.1	13	.4	.17	.16
JAN.											
13...	.2	5.5	1.1	6	--	5	5.8	6.5	.1	.14	.14
22...	.5	4.4	1.1	6	--	5	6.1	5.8	.1	.27	.26
FEB.											
25...	.9	5.0	1.4	6	--	5	8.0	5.3	.2	--	--
APR.											
16...	1.4	5.4	1.0	5	0	4	5.3	6.5	.2	.15	.16
MAY											
13...	.9	6.2	.9	6	0	5	5.0	6.8	.3	.23	.26
JULY											
14...	1.3	10	1.6	26	0	21	11	10	.2	.32	.33
18...	1.1	6.6	1.2	5	0	4	13	6.5	.3	.09	.08
22...	1.2	4.3	1.1	5	0	4	7.2	4.9	.3	.08	.06
29...	.8	4.3	1.1	4	0	3	6.4	5.9	.6	--	--
AUG.											
04...	.8	6.3	1.2	6	0	5	5.7	7.4	.4	.10	.13
26...	.9	9.2	1.6	10	0	8	8.8	7.4	.2	--	.21
SEP.											
24...	.7	8.5	1.4	9	0	7	7.3	8.1	.2	.10	.09

02134500 Lumber River at Boardman, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJEL-DAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL KJEL. NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL NITROGEN (N) (MG/L)
OCT.											
04...	1.5	.03	.08	.10	1.6	.79	1.6	.73	.87	170	1.7
NOV.											
07...	--	.01	.01	.01	.41	.62	.42	.00	.63	--	.59
JAN.											
13...	--	.01	.01	.01	.33	.37	.34	.00	.38	--	.48
22...	--	.00	.04	.05	.41	.41	.41	.00	.45	--	.68
FEB.											
25...	--	--	--	--	--	--	--	--	--	--	--
APR.											
16...	--	.03	.02	.03	.44	.48	.47	.00	.50	--	.62
MAY											
13...	--	.05	.04	.05	.54	.50	.59	.05	.54	--	.82
JULY											
14...	--	.05	.01	.01	.40	.43	.45	.01	.44	--	.77
18...	--	.05	.01	.01	.38	.35	.43	.07	.36	--	.52
22...	--	.01	.01	.01	.60	.45	.61	.15	.46	--	.69
29...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
04...	--	.01	.02	.03	.62	.58	.63	.03	.60	--	.73
26...	--	--	.02	.03	--	1.2	--	--	1.2	--	--
SEP.											
24...	--	.01	.00	.00	.60	.59	.61	.22	.39	--	.71

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM MATERIAL (MG/KG)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
OCT.											
04...	7.7	.09	.15	.07	.07	.05	200	68	47	.09	170
NOV.											
07...	2.6	.19	.52	.18	.14	.17	--	68	62	.09	93.3
JAN.											
13...	2.1	.04	.06	.04	.02	.02	--	43	28	.06	250
22...	3.0	.02	.06	.06	.01	.02	--	23	27	.03	267
FEB.											
25...	--	--	--	--	--	--	--	44	28	.06	637
APR.											
16...	2.7	.06	.06	.05	.04	.02	--	50	26	.07	300
MAY											
13...	3.6	.14	.25	.10	.09	.08	--	64	30	.09	164
JULY											
14...	3.4	.14	.25	.09	.09	.08	--	55	60	.07	104
18...	2.3	.07	.09	.05	.05	.03	--	58	42	.08	277
22...	3.1	.06	.09	.04	.04	.03	--	60	32	.08	475
29...	--	--	--	--	--	--	--	66	31	.09	585
AUG.											
04...	3.2	.08	.15	.06	.06	.05	--	68	35	.09	275
26...	--	--	.21	.09	--	.07	--	51	44	.07	99.8
SEP.											
24...	3.1	.11	.15	.08	.06	.05	--	70	43	.10	154

02134500 Lumber River at Boardman, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
04...	10	0	66	1.4	60	5.5	12.0	100	8.3	61
NOV.										
07...	14	0	65	1.6	90	6.5	17.0	200	6.3	11
JAN.										
13...	5	0	65	1.1	49	5.6	10.5	80	7.1	24
22...	6	1	55	.8	46	5.7	8.0	100	--	19
FEB.										
25...	11	6	46	.7	45	6.4	13.0	100	--	3.8
APR.										
16...	10	6	52	.8	43	5.6	15.0	140	7.4	20
MAY										
13...	7	3	61	1.0	46	5.7	20.0	150	7.0	19
JULY										
14...	20	0	50	1.0	79	6.0	25.0	90	7.0	42
18...	13	9	49	.8	64	5.4	23.0	110	6.2	32
22...	11	7	43	.6	41	5.4	25.0	200	5.9	32
29...	10	7	46	.6	40	5.6	24.0	130	6.0	16
AUG.										
04...	10	5	55	.9	50	5.8	25.5	200	6.1	15
26...	10	2	63	1.3	68	6.2	26.0	100	5.5	10
SEP.										
24...	8	1	65	1.3	63	6.2	24.0	110	5.3	9.1

DATE	TOTAL PHYTOPLANKTON (CELLS PER ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
OCT.											
04...	--	10	--	1.6	.0	1	0	1	3	0	0
NOV.											
07...	--	--	--	--	.0	--	--	--	--	--	--
JAN.											
13...	--	8.8	--	--	.0	--	--	--	--	--	--
22...	--	10	--	--	.1	1	1	0	--	0	0
APR.											
16...	--	12	--	--	.0	--	--	--	--	--	--
MAY											
13...	47	11	--	--	.0	--	--	--	--	--	--
JULY											
14...	--	9.6	8.4	--	.0	--	--	--	--	--	--
18...	--	15	13	--	.0	--	--	--	--	--	--
22...	--	17	18	--	.0	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
04...	--	19	19	--	.1	--	--	--	--	--	--
26...	--	14	13	--	.0	--	--	--	--	--	--
SEP.											
24...	--	14	14	--	.0	--	--	--	--	--	--

02134500 Lumber River at Boardman, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT.											
04...	0	<10	<10	<9	1	<10	1	0	1	<10	2
NOV.											
07...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
13...	--	--	--	--	--	--	--	--	--	--	--
22...	1	--	<10	<7	3	--	0	0	1	--	7
APR.											
16...	--	--	<10	<10	0	--	--	--	--	--	1
MAY											
13...	--	--	<10	<8	2	--	--	--	--	--	2
JULY											
14...	--	--	10	8	2	--	--	--	--	--	2
18...	--	--	<10	<10	0	--	--	--	--	--	3
22...	--	--	<10	<10	0	--	--	--	--	--	4
29...	--	--	<10	<10	0	--	--	--	--	--	4
AUG.											
04...	--	--	<10	<10	0	--	--	--	--	--	2
26...	--	--	<10	<10	0	--	--	--	--	--	3
SEP.											
24...	--	--	<10	<9	1	--	--	--	--	--	4

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
04...	0	3	<10	5	2	3	<10	.2	.2	.0
JAN.										
22...	2	5	--	4	0	5	--	.0	.0	.0
APR.										
16...	0	2	--	4	2	2	--	--	--	--
MAY										
13...	0	2	--	2	0	3	--	--	--	--
JULY										
14...	0	4	--	8	7	1	--	--	--	--
18...	1	2	--	7	7	0	--	--	--	--
22...	2	2	--	13	13	0	--	--	--	--
29...	0	4	--	1	0	1	--	--	--	--
AUG.										
04...	1	1	--	1	1	0	--	--	--	--
26...	2	1	--	6	0	7	--	--	--	--
SEP.										
24...	2	2	--	14	6	8	--	--	--	--

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT.									
04...	.1	0	0	1	0	20	20	4	<10
JAN.									
22...	--	0	0	0	--	20	20	0	--
APR.									
16...	--	--	--	--	--	20	20	3	--
MAY									
13...	--	--	--	--	--	20	10	10	--
JULY									
14...	--	--	--	--	--	20	10	7	--
18...	--	--	--	--	--	20	20	0	--
22...	--	--	--	--	--	30	30	0	--
29...	--	--	--	--	--	10	10	0	--
AUG.									
04...	--	--	--	--	--	10	0	60	--
26...	--	--	--	--	--	20	20	0	--
SEP.									
24...	--	--	--	--	--	20	20	0	--

02134500 Lumber River at Boardman, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	84	57	54	45	43	46	60	49	---	54	69
2	55	91	60	45	43	41	39	70	66	---	54	65
3	55	95	59	49	41	44	40	66	69	---	51	63
4	60	91	60	49	40	42	41	64	49	---	50	73
5	78	84	65	48	40	45	43	60	61	53	49	85
6	81	81	69	50	45	46	41	54	66	52	50	82
7	93	95	64	51	48	50	42	54	57	52	98	85
8	76	97	66	53	49	47	42	61	48	57	67	---
9	72	98	69	51	52	49	43	56	47	61	71	---
10	86	100	59	51	56	41	46	53	47	68	69	---
11	87	91	57	52	46	41	51	55	47	75	69	---
12	98	76	62	51	48	50	43	54	51	87	68	---
13	94	79	64	51	51	47	45	49	55	80	61	---
14	99	94	64	47	44	46	43	56	59	76	68	---
15	88	100	64	50	47	47	41	69	57	73	73	---
16	81	109	59	51	43	45	43	67	53	78	74	---
17	86	108	60	51	43	44	54	65	52	83	82	---
18	98	91	52	51	43	42	65	63	64	77	74	---
19	95	76	54	49	42	41	53	52	71	71	74	---
20	94	91	56	47	43	40	62	60	74	55	75	---
21	102	91	57	43	50	41	62	58	82	44	75	---
22	85	90	53	45	43	42	63	55	80	49	86	---
23	81	88	48	47	45	41	62	47	---	45	84	---
24	83	86	50	48	43	43	61	93	---	40	86	---
25	85	79	52	51	44	41	60	59	---	39	69	---
26	86	77	50	49	42	41	62	44	---	42	67	---
27	89	69	48	49	40	44	63	41	---	43	69	---
28	88	75	48	49	49	44	63	42	---	45	69	---
29	69	58	45	48	---	43	62	43	---	42	67	---
30	70	64	45	48	---	42	60	46	---	46	64	52
31	81	---	50	46	---	43	---	49	---	50	77	---
MONTH	82	87	57	49	45	44	52	57	---	59	69	---
YEAR	MAX	109	MIN	39	MEAN	60						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	16.0	9.0	10.0	14.0	13.0	---	19.0	24.0	---	25.0	25.0
2	14.0	19.0	9.0	10.0	12.0	11.0	---	19.0	24.0	---	25.0	25.0
3	14.0	20.0	7.0	9.0	10.0	9.0	---	19.0	24.0	---	25.0	26.0
4	14.0	18.0	6.0	9.0	7.0	8.0	---	19.0	25.0	---	24.0	25.0
5	14.0	18.0	6.0	8.0	8.0	9.0	---	21.0	24.0	24.0	23.0	25.0
6	13.0	18.0	7.0	8.0	8.0	8.0	---	20.0	23.0	25.0	25.0	25.0
7	15.0	18.0	9.0	7.0	9.0	9.0	---	20.0	23.0	25.0	25.0	25.0
8	17.0	16.0	7.0	8.0	7.0	10.0	---	20.0	23.0	26.0	24.0	---
9	16.0	14.0	6.0	9.0	9.0	9.0	---	20.0	24.0	26.0	23.0	---
10	16.0	13.0	7.0	9.0	10.0	9.0	---	19.0	23.0	26.0	23.0	---
11	17.0	12.0	6.0	10.0	10.0	10.0	---	19.0	22.0	27.0	23.0	---
12	18.0	14.0	7.0	10.0	10.0	12.0	---	20.0	23.0	27.0	23.0	---
13	18.0	12.0	8.0	10.0	9.0	12.0	---	20.0	24.0	26.0	24.0	---
14	18.0	12.0	9.0	10.0	9.0	12.0	---	20.0	25.0	25.0	24.0	---
15	18.0	11.0	10.0	7.0	10.0	---	---	20.0	25.0	25.0	24.0	---
16	19.0	12.0	10.0	7.0	12.0	---	15.0	20.5	25.0	25.0	24.0	---
17	19.0	12.0	9.0	8.0	13.0	---	14.0	21.0	24.0	24.0	23.0	---
18	19.0	12.0	6.0	7.0	14.0	---	17.0	22.0	25.0	23.0	24.0	---
19	18.0	13.0	8.0	8.0	15.0	---	18.0	23.0	24.0	23.0	23.0	---
20	15.0	13.0	9.0	9.0	14.0	---	---	23.5	26.0	25.0	24.0	---
21	13.0	13.0	10.0	6.0	12.0	---	---	24.0	23.0	25.0	24.0	---
22	12.0	10.0	9.0	8.0	11.0	---	---	24.0	23.0	25.0	25.0	---
23	13.0	9.0	9.0	8.0	13.0	---	---	23.0	---	25.0	26.0	---
24	13.0	10.0	10.0	8.0	14.0	---	---	23.0	---	25.0	26.0	---
25	13.0	10.0	10.0	10.0	13.0	---	---	24.0	---	25.0	25.0	---
26	15.0	9.0	9.0	10.0	14.0	---	---	24.0	---	25.0	26.0	---
27	16.0	7.0	10.0	10.0	13.0	---	---	24.0	---	25.0	25.0	---
28	16.0	7.0	10.0	10.0	13.0	---	---	24.0	---	25.0	25.0	---
29	17.0	7.0	10.0	12.0	---	---	---	24.0	---	25.0	25.0	---
30	17.0	8.0	12.0	14.0	---	---	---	23.0	---	25.0	25.0	20.0
31	17.0	---	11.0	13.0	---	---	---	24.0	---	25.0	27.0	---
MONTH	15.5	13.0	8.5	9.0	11.0	---	---	21.5	---	25.0	24.5	---
YEAR	MAX	27.0	MIN	6.0	MEAN	16.5						

02134500 Lumber River at Boardman, N. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
04...	1050	924	16	40
NOV.				
07...	1150	508	10	14
JAN.				
13...	1235	2150	5	29
APR.				
16...	1430	2220	6	36
JULY				
14...	1330	698	11	21
18...	1345	1770	15	72
22...	1530	2930	14	111
29...	1230	3280	12	106
AUG.				
04...	1215	1500	17	69
27...	1500	700	10	19
SEP.				
24...	1220	817	15	33

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
PERIOD JANUARY 1975 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)
JAN.										
29...	1635	3600	6	30	5.3	17.0	9.9	<25	.6	50
FEB.										
13...	1340	2860	--	35	--	11.0	7.2	43	1.0	30
17...	1145	2430	7	35	5.5	10.0	7.6	<25	.9	40
26...	1530	5040	6	35	6.1	14.0	10.2	<25	1.0	30
MAR.										
03...	1415	3310	4	30	5.3	7.0	8.4	<25	1.0	<10
11...	1500	2170	8	20	5.5	12.0	9.4	<25	.6	30
17...	1000	4240	10	30	6.2	10.0	8.3	27	1.0	40
26...	1235	5240	3	30	5.8	15.0	7.6	<25	1.3	40
APR.										
10...	1350	3050	--	--	5.6	17.0	6.6	<25	1.1	--
14...	1540	2310	6	20	6.0	15.0	6.7	<25	1.4	20
21...	1530	2160	10	25	6.4	19.0	10.2	39	1.3	40
MAY										
05...	1535	1100	7	50	6.2	20.0	7.2	44	1.3	40
AUG.										
04...	1545	1490	14	60	6.3	--	7.0	47	.8	70
SEP.										
23...	1230	720	13	65	6.3	24.0	6.8	47	1.3	160
29...	1535	1850	18	30	6.3	18.0	8.6	35	.3	210

02143040 Jacob Fork at Ramsey, N. C.

LOCATION.--Lat 35°35'26", long 81°34'02", Burke County, at gaging station on left bank 16 ft (5 m) downstream from bridge on Secondary Road 1924, 0.6 mi (1.0 km) downstream from Queen Creek, and 0.6 mi (1.0 km) north of Ramsey.

DRAINAGE AREA.--25.4 mi^2 (65.8 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1974 to September 1975.
Water temperatures: July 1974 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 37 micromhos July 6; minimum daily, 14 micromhos Mar. 20, May 30.
Water temperatures: Maximum, 23.0°C Aug. 4-6, 24, 25, 27; minimum, 1.0°C Dec. 18.

Period of record:
Specific conductance: Maximum daily, 37 micromhos July 6, 1975; minimum daily, 14 micromhos Mar. 20, May 30, 1975.
Water temperatures: Maximum, 23.0°C Aug. 4-6, 24, 25, 27, 1975; minimum, 1.0°C Dec. 18, 1974.

REMARKS.--Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
OCT.											
02...	1130	30	9.6	--	--	--	--	--	--	2.9	.7
DEC.											
18...	1100	41	--	--	--	--	--	--	--	--	--
JAN.											
10...	0900	37	8.2	220	10	--	10	10	0	1.2	.6
11...	0900	235	6.0	7000	50	--	260	260	0	1.2	.5
22...	1525	41	7.9	--	--	--	--	--	--	2.5	.5
MAR.											
13...	0900	895	4.4	7300	40	--	--	--	--	1.4	.3
13...	1300	965	3.9	--	--	--	--	--	--	1.7	.3
14...	1040	2670	3.2	8600	100	--	--	--	--	.7	.3
15...	0900	245	5.6	--	--	--	--	--	--	1.0	.4
17...	1020	127	6.7	--	--	--	--	--	--	.9	.3
MAY											
22...	1045	61	8.4	280	40	--	--	--	--	1.2	.6
JUNE											
23...	1000	48	8.9	300	40	1900	--	--	--	.8	.7
AUG.											
26...	0945	16	11	--	120	--	--	--	--	1.7	.7
SEP.											
22...	1330	28	8.9	1300	60	--	--	--	--	1.8	.6
23...	1300	167	7.1	11000	100	--	--	--	--	2.1	.1
24...	1225	172	6.3	2300	40	--	--	--	--	.3	.1
25...	1000	56	7.9	320	60	--	--	--	--	.8	.4
29...	0945	24	9.5	--	--	--	--	--	--	1.1	1.0

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)
OCT.											
02...	1.3	.8	10	--	8	2.8	1.0	.1	--	--	--
DEC.											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
10...	1.2	.8	8	--	7	1.9	.8	.1	--	--	--
11...	1.0	.9	5	--	4	2.9	1.6	.1	--	--	--
22...	.9	.7	7	--	6	1.8	.8	.2	.05	.05	--
MAR.											
13...	.8	.8	5	--	4	4.5	.9	.0	--	--	--
13...	.4	.7	4	--	3	4.0	1.4	.0	--	--	--
14...	.4	.8	3	--	2	3.2	.9	.0	.03	.03	--
15...	.4	.6	4	--	3	3.0	1.4	.0	--	--	--
17...	.5	.6	5	--	4	2.7	1.6	.1	.05	.06	--
MAY											
22...	1.4	.8	6	0	5	2.2	.9	.0	.05	.06	--
JUNE											
23...	1.3	.8	7	0	6	1.8	1.0	.1	.06	.13	.5
AUG.											
26...	1.8	1.0	10	0	8	1.4	1.3	.0	.06	.06	--
SEP.											
22...	1.7	1.3	9	0	7	2.3	1.0	.1	.08	.09	--
23...	1.5	1.1	7	0	6	2.4	.7	.1	.06	.06	--
24...	1.3	.7	5	0	4	2.3	.8	.1	.02	.01	--
25...	1.6	.8	6	0	5	2.2	1.0	.1	.04	.02	--
29...	1.5	.9	9	0	7	1.4	.9	.1	--	--	--

02143040 Jacob Fork at Ramsey, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)
OCT.											
02...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
10...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
22...	.00	.01	.01	.07	.14	.07	.00	.15	--	.12	.53
MAR.											
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
14...	.03	.01	.01	1.3	.00	1.3	1.3	.00	--	1.3	5.9
15...	--	--	--	--	--	--	--	--	--	--	--
17...	.00	.00	.00	.01	.00	.01	.01	.00	--	.06	.27
MAY											
22...	.02	.00	.00	.01	.00	.03	.03	.00	--	.08	.35
JUNE											
23...	.01	.07	.09	.15	.18	.16	.00	.25	60	.22	.97
AUG.											
26...	.03	.02	.03	.97	.18	1.0	.80	.20	--	1.1	4.7
SEP.											
22...	.00	.00	.00	.25	.13	.25	.12	.13	--	.33	1.5
23...	.01	.01	.01	.68	.28	.69	.40	.29	--	.75	3.3
24...	.00	.00	.00	.21	.13	.21	.08	.13	--	.23	1.0
25...	.00	.00	.00	.06	.08	.08	.00	.08	--	.12	.53
29...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT.										
02...	--	--	--	--	--	--	15	24	.02	1.21
DEC.										
18...	--	--	--	--	--	--	--	--	--	--
JAN.										
10...	--	--	--	--	--	--	14	19	.02	1.40
11...	--	--	--	--	--	--	8	17	.01	5.08
22...	.01	.00	.00	.00	.00	--	24	19	.03	2.66
MAR.										
13...	--	--	--	--	--	--	24	16	.03	58.0
13...	--	--	--	--	--	--	14	14	.02	36.5
14...	.27	.00	.00	.03	.00	--	19	11	.03	137
15...	--	--	--	--	--	--	16	14	.02	10.6
17...	.01	.00	.01	.00	.00	--	12	16	.02	4.11
MAY										
22...	.01	.00	.00	.00	.00	--	32	19	.04	5.27
JUNE										
23...	.01	.06	.01	.01	.02	82	22	19	.03	2.85
AUG.										
26...	.01	.00	.01	.04	.00	--	36	24	.05	1.56
SEP.										
22...	.04	.00	.02	.00	.00	--	26	23	.04	1.97
23...	.13	.00	.03	.00	.00	--	23	19	.03	10.4
24...	.04	.00	.01	.00	.00	--	16	14	.02	7.43
25...	.01	.00	.01	.00	.00	--	22	18	.03	3.33
29...	--	--	--	--	--	--	20	21	.03	1.30

02143040 Jacob Fork at Ramsey, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
02...	10	2	20	.2	19	6.3	12.0	20	9.2	8.0
DEC.										
18...	--	--	--	--	18	6.8	2.0	--	12.6	--
JAN.										
10...	5	0	29	.2	21	6.2	10.0	8	--	8.1
11...	5	1	26	.2	18	6.0	10.0	60	--	8.0
22...	8	3	18	.1	17	6.5	7.0	0	14.6	3.5
MAR.										
13...	5	1	23	.2	17	6.3	9.0	100	--	4.0
13...	5	2	12	.1	15	6.0	12.5	50	13.8	6.4
14...	3	1	18	.1	14	5.6	10.5	100	13.8	12
15...	4	1	15	.1	15	5.9	7.0	20	--	8.1
17...	3	0	20	.1	16	6.1	9.5	0	12.8	6.4
MAY										
22...	5	1	32	.3	18	6.5	16.5	2	--	3.0
JUNE										
23...	5	0	32	.3	19	7.4	17.0	9	7.6	.4
AUG.										
26...	7	0	32	.3	24	6.3	20.0	5	8.0	8.0
SEP.										
22...	7	0	30	.3	26	6.4	17.0	32	8.4	5.7
23...	6	0	32	.3	20	6.3	16.0	65	8.8	5.6
24...	1	0	58	.5	16	6.2	18.0	17	8.5	5.0
25...	4	0	43	.4	19	6.5	16.0	11	8.3	3.0
29...	7	0	29	.3	21	6.4	14.5	0	8.6	5.7

DATE	TOTAL PHYTOPLANKTON (CELLS PER ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)
OCT.											
02...	38	3.9	6.2	--	--	--	--	--	--	--	--
DEC.											
18...	50	.80	1.5	--	--	--	--	--	--	--	--
JAN.											
10...	--	--	--	--	--	--	--	0	0	0	0
11...	--	--	--	--	--	--	--	1	1	0	0
22...	--	--	--	.7	--	--	.0	--	--	--	--
MAR.											
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	24	7.6	--	.1	--	--	--	--
17...	--	--	--	5.4	--	--	.1	--	--	--	--
MAY											
22...	--	--	--	3.8	--	--	.0	--	--	--	--
JUNE											
23...	--	--	--	4.6	1.1	1.2	.0	--	--	--	--
AUG.											
26...	--	--	--	3.4	2.8	--	.0	--	--	--	--
SEP.											
22...	--	--	--	2.4	3.6	--	.0	--	--	--	--
23...	--	--	--	11	4.6	--	.0	--	--	--	--
24...	--	--	--	4.6	1.8	--	.0	--	--	--	--
25...	--	--	--	4.7	--	--	.0	--	--	--	--

02143040 Jacob Fork at Ramsey, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
OCT.										
02...	--	--	--	--	--	--	--	--	--	--
DEC.										
18...	--	--	--	--	--	--	--	--	--	--
JAN.										
10...	0	1	<10	<9	1	--	3	2	1	0
11...	0	0	20	20	0	--	4	4	0	4
22...	--	--	--	--	--	--	--	--	--	--
MAR.										
13...	--	--	15	13	2	--	--	--	--	9
14...	--	--	20	20	0	--	--	--	--	13
17...	--	--	--	--	--	--	--	--	--	--
MAY										
22...	--	--	<10	<10	0	--	--	--	--	0
JUNE										
23...	--	--	<10	<10	0	<10	--	--	--	0
AUG.										
26...	--	--	--	--	0	--	--	--	--	--
SEP.										
22...	--	--	<10	<10	0	--	--	--	--	2
23...	--	--	20	19	1	--	--	--	--	7
24...	--	--	<10	<10	0	--	--	--	--	1
25...	--	--	<10	<9	1	--	--	--	--	0

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)
JAN.									
10...	0	0	--	2	2	0	--	.0	.0
11...	2	2	--	12	10	2	--	.0	.0
MAR.									
13...	7	2	--	15	8	7	--	--	--
14...	11	2	--	25	23	2	--	--	--
MAY									
22...	0	0	--	4	1	3	--	--	--
JUNE									
23...	0	3	<10	7	7	0	<10	--	--
AUG.									
26...	--	1	--	--	--	7	--	--	--
SEP.									
22...	2	0	--	3	0	3	--	--	--
23...	5	2	--	15	15	0	--	--	--
24...	1	0	--	7	5	2	--	--	--
25...	0	0	--	1	1	0	--	--	--

DATE	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
JAN.								
10...	.3	0	0	0	3	0	3	--
11...	.0	0	0	0	7	4	3	--
MAR.								
13...	--	--	--	--	20	20	4	--
14...	--	--	--	--	40	40	0	--
MAY								
22...	--	--	--	--	20	0	30	--
JUNE								
23...	--	--	--	--	20	20	0	10
AUG.								
26...	--	--	--	--	--	--	10	--
SEP.								
22...	--	--	--	--	0	0	0	--
23...	--	--	--	--	30	30	0	--
24...	--	--	--	--	20	20	3	--
25...	--	--	--	--	10	10	0	--

02143040 Jacob Fork at Ramsey, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	24	25	25	20	19	20	21	15	21	29	28
2	22	25	24	25	20	19	17	20	25	21	27	27
3	22	26	27	25	19	19	21	31	19	21	29	27
4	23	26	25	26	19	21	22	21	20	21	28	26
5	22	26	27	24	24	19	21	20	20	21	28	27
6	22	29	24	23	20	23	17	19	18	37	28	28
7	22	31	25	23	19	21	20	25	18	32	28	26
8	22	28	23	19	19	24	23	20	21	30	28	31
9	22	25	25	19	19	23	18	21	20	35	28	29
10	22	24	22	21	18	25	18	19	21	27	30	31
11	22	26	23	18	20	21	18	19	19	29	24	26
12	22	28	23	18	18	29	21	20	18	27	27	23
13	23	24	23	15	20	17	20	20	16	27	26	24
14	23	25	22	18	18	16	19	20	25	30	24	27
15	24	24	23	18	29	17	19	20	18	29	27	27
16	26	26	23	17	19	21	19	16	29	26	27	28
17	26	24	23	18	18	19	20	16	19	33	25	28
18	25	25	23	19	18	17	19	18	20	30	27	28
19	25	24	24	19	20	17	20	16	19	27	29	22
20	24	26	25	20	19	14	19	17	20	29	24	23
21	23	26	23	18	18	17	19	18	20	27	28	26
22	25	24	23	18	19	20	20	19	20	28	25	24
23	24	24	24	19	20	21	20	19	20	28	27	26
24	24	26	23	19	24	20	20	19	20	28	27	34
25	23	25	25	21	16	16	22	19	20	28	28	19
26	25	26	23	16	26	16	20	20	20	27	26	20
27	24	25	24	17	24	19	21	24	25	27	29	21
28	24	26	26	19	29	17	24	20	21	26	26	22
29	23	24	23	29	---	26	20	18	22	28	25	22
30	23	25	24	19	---	18	23	14	21	27	26	31
31	24	---	26	20	---	18	---	22	---	29	29	---
MONTH	23	26	24	20	20	20	20	20	20	28	27	26

YEAR MAX 37 MIN 14 MEAN 23

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	13.0	5.0	10.0	10.0	5.0	11.0	15.0	19.0	20.0	21.0	22.0
2	12.0	14.0	5.0	5.0	10.0	4.0	10.0	15.0	16.0	20.0	21.0	20.0
3	9.0	13.0	5.0	4.0	6.5	4.0	11.0	15.0	17.0	20.0	21.0	20.0
4	9.0	13.0	3.5	4.0	4.0	4.0	7.0	14.0	16.0	20.0	23.0	20.0
5	9.0	15.0	3.0	5.0	5.0	4.0	6.0	13.0	17.0	18.0	23.0	20.0
6	10.0	12.0	3.0	4.0	5.0	4.0	7.0	14.0	18.0	20.0	23.0	21.0
7	12.0	10.0	3.5	5.0	5.0	7.0	7.0	16.0	18.0	19.0	22.0	21.0
8	12.0	10.0	6.0	5.0	5.0	6.0	8.0	15.0	15.0	20.0	20.0	20.0
9	11.0	7.0	5.0	7.0	5.0	5.0	10.0	15.0	17.0	20.0	21.0	20.0
10	11.0	8.0	3.0	10.0	5.0	5.0	10.0	13.0	18.0	20.0	21.0	20.0
11	12.0	7.0	3.0	10.0	5.0	5.5	11.0	13.0	17.0	21.0	20.0	20.0
12	13.0	10.0	5.0	11.0	10.0	8.0	10.0	13.0	19.0	20.0	20.0	21.0
13	13.0	7.0	7.0	9.0	7.0	9.0	10.0	15.0	17.0	20.0	20.0	19.5
14	14.5	7.0	5.0	4.0	5.0	9.0	10.0	14.0	17.0	20.0	21.0	18.0
15	16.5	6.0	5.0	2.0	5.0	7.0	10.0	16.0	18.0	20.0	21.0	16.0
16	18.0	5.0	6.0	3.0	8.0	10.0	9.0	16.0	18.0	20.0	21.0	16.0
17	13.0	6.0	4.0	3.0	10.0	10.0	10.0	17.0	18.0	20.0	21.0	18.0
18	12.0	8.0	1.0	3.5	10.5	10.0	13.0	16.0	20.0	20.0	20.0	18.0
19	13.0	10.5	5.0	5.0	12.0	9.0	15.0	16.0	18.0	20.0	21.0	19.0
20	10.0	12.0	6.0	9.0	9.0	9.0	13.0	15.0	19.0	22.0	21.0	18.0
21	8.0	9.0	7.0	4.0	9.0	9.0	11.0	17.0	19.0	21.0	21.0	20.0
22	8.0	7.0	5.0	5.0	6.0	10.0	10.0	18.0	20.0	20.0	20.0	20.0
23	9.0	6.0	4.5	5.0	9.0	10.0	13.0	18.0	18.0	21.0	21.0	18.0
24	9.0	5.0	8.0	6.0	8.0	14.0	15.0	18.0	18.0	22.0	23.0	18.0
25	11.0	8.0	10.0	8.5	7.0	10.0	15.0	18.0	19.0	22.0	23.0	15.0
26	10.5	5.0	6.0	7.0	5.0	8.0	15.0	19.0	20.0	21.0	21.5	15.0
27	12.0	4.0	7.0	5.0	8.0	8.0	15.0	19.0	20.0	21.0	23.0	14.0
28	11.5	4.0	9.0	7.0	6.0	8.0	15.0	18.0	20.0	21.0	21.0	13.0
29	12.0	4.0	9.0	9.0	---	11.0	16.0	18.0	20.0	20.0	21.0	15.0
30	14.0	5.0	9.0	9.5	---	13.0	17.0	18.0	20.0	21.0	21.0	15.0
31	14.0	---	11.0	10.0	---	11.0	---	18.0	---	21.0	20.0	---
MONTH	11.5	8.5	5.5	6.5	7.0	8.0	11.5	16.0	18.0	20.5	21.0	18.5

YEAR MAX 23.0 MIN 1.0 MEAN 12.5

02143040 Jacob Fork at Ramsey, N. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN.				
22...	1525	41	5	.55
MAR.				
13...	0900	895	479	1160
13...	1300	965	2600	6770
14...	1040	2670	777	5600
15...	0900	245	89	59
17...	1020	127	23	7.9
MAY				
22...	1045	61	5	.82
JUNE				
23...	1000	48	6	.78
AUG.				
26...	0945	16	6	.26
SEP.				
22...	1330	28	28	2.1
23...	1300	167	273	123
24...	1225	172	57	26
25...	1000	56	9	1.4
29...	0945	24	3	.19

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
23...	1210	19	--	45	--	10.0	9.7	43	1.5	250
28...	1000	18	--	50	--	13.0	8.7	<25	1.4	180
NOV.										
02...	1230	17	22	40	6.8	13.0	8.3	<25	.9	450
04...	0950	18	--	50	--	15.0	7.9	<25	1.2	240
25...	1040	22	12	20	7.0	9.0	10.2	<25	.8	20
DEC.										
05...	1330	32	7	15	6.9	5.0	12.7	<25	.6	40
11...	1000	33	8	20	6.5	2.0	9.1	<25	1.2	<10
17...	1115	52	12	18	6.9	4.0	13.7	<25	.8	<10
JAN.										
15...	1130	63	8	15	6.8	4.0	10.8	<25	.3	10
23...	1600	39	9	15	7.3	7.0	12.8	<25	.5	<10
FEB.										
11...	1015	50	10	21	6.4	6.0	12.5	<25	.1	<10
19...	1545	69	--	12	6.0	12.4	9.4	<25	.3	<10
25...	1450	122	6	15	7.4	10.9	10.0	<25	.6	<10
MAR.										
06...	1035	41	14	15	7.3	6.0	12.8	<25	.6	<10
11...	1015	40	11	19	7.8	5.0	13.0	<25	.2	<10
20...	1600	127	15	15	6.9	13.0	10.6	<25	1.0	10
27...	1100	90	15	15	7.4	8.0	10.8	<25	1.4	<10
APR.										
03...	1640	103	17	19	7.2	14.0	9.4	--	--	--
08...	1600	77	22	20	6.9	14.0	10.7	<25	.7	<10
14...	1000	63	14	15	7.3	10.0	11.0	<25	.9	<10
23...	1500	48	12	19	7.5	17.0	9.7	<25	.7	<10
28...	1000	46	20	20	8.0	15.0	10.0	<25	.3	<10
MAY										
07...	1300	48	17	70	7.2	16.0	9.7	<25	.4	20
13...	1530	56	--	22	7.1	18.0	9.8	<25	1.0	60
29...	1530	45	10	10	7.3	23.0	9.0	<25	.3	210
JUNE										
11...	1130	69	10	9	7.1	16.0	9.5	<25	1.0	220
19...	1530	200	8	10	6.4	21.0	8.4	47	3.1	30000
23...	1030	47	8	10	6.7	20.0	9.1	<25	.4	130
JULY										
09...	0900	34	9	10	6.5	20.0	8.7	<25	.5	50
17...	1000	33	10	10	6.5	19.0	8.9	<25	.7	50
24...	1100	30	6	30	6.4	20.0	7.4	<25	.3	1000
30...	1630	29	8	--	6.9	21.0	--	<25	1.1	70
AUG.										
06...	1100	34	0	10	6.7	22.0	8.4	<25	.6	200
14...	1030	20	9	23	6.8	22.0	8.5	<25	.5	210
21...	1500	18	10	23	6.4	25.0	8.6	<25	.5	410
28...	1115	31	11	35	7.4	23.0	--	<25	1.3	1300
SEP.										
03...	1000	17	9	--	6.7	25.0	10.6	<25	.9	130
08...	1430	21	12	10	7.2	23.0	8.5	<25	.9	120
17...	0930	21	12	10	7.0	17.0	9.0	<25	1.1	390
29...	1215	24	7	10	6.0	15.0	10.1	<25	.3	80

02146800 Sugar Creek near Fort Mill, S. C.

LOCATION.--Lat 35°00'21", long 80°54'09", York County, at gaging station at bridge on State Highway 160, 3,500 ft (1,070 m) downstream from Clems Branch, and 2.6 mi (4.2 km) east of Fort Mill, S. C.

DRAINAGE AREA.--262 mi^2 (679 km^2).

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1972, water year 1973 (partial-record station), July 1973 to September 1975.
Water temperatures: July 1973 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 407 micromhos Nov. 10; minimum daily, 49 micromhos Sept. 23.
Water temperatures: Maximum, 28.0°C Aug. 16; minimum, 4.0°C Feb. 5.

Period of record:
Specific conductance (1973-75): Maximum daily, 445 micromhos Sept. 1, 1974; minimum daily, 49 micromhos Sept. 23, 1975.
Water temperatures: Maximum, 28.0°C Aug. 16, 1975; minimum, 4.0°C Dec. 23, 1973, Feb. 5, 1975.

REMARKS.--Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)
OCT. 15...	1000	116	22	990	110	4100	270	60	210	200	18
APR. 10...	0830	237	19	1500	150	--	--	--	--	--	16
JUNE 24...	0930	136	21	1900	40	2200	--	--	--	--	19
AUG. 27...	1400	113	22	1000	130	--	--	--	--	--	18
SEP. 23...	1200	15400	4.3	24000	110	--	--	--	--	--	4.9

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT. 15...	5.8	40	6.3	110	--	90	37	28	.9	3.1	3.0
APR. 10...	5.7	22	4.0	92	0	75	22	16	.6	1.3	1.3
JUNE 24...	5.5	29	5.4	90	0	74	29	22	.8	3.0	2.9
AUG. 27...	5.0	36	7.0	59	0	48	31	29	.9	2.9	2.9
SEP. 23...	1.1	2.2	2.4	19	0	16	5.5	2.3	.2	.33	.27

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL KJEL. NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL NITROGEN (N) (MG/L)
OCT. 15...	.0	7.0	7.2	9.3	1.1	.50	8.1	.30	7.8	47	11
APR. 10...	--	3.6	3.6	4.6	1.1	1.0	4.7	.10	4.6	--	6.0
JUNE 24...	3.0	3.4	3.5	4.5	--	.20	3.4	.00	3.7	57	6.4
AUG. 27...	--	4.6	4.6	5.9	.60	.80	5.2	.00	5.4	--	8.1
SEP. 23...	--	.24	.14	.18	.86	.20	1.1	.76	.34	--	1.4

02146800 Sugar Creek near Fort Mill, S. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT.											
15...	50	3.3	9.5	3.2	3.3	3.1	690	219	213	.30	68.6
APR.											
10...	27	1.5	4.0	1.3	1.3	1.3	--	153	151	.21	97.9
JUNE											
24...	28	2.2	6.1	2.0	2.0	2.0	380	204	176	.28	74.9
AUG.											
27...	36	3.3	9.2	3.1	3.0	3.0	--	241	178	.33	73.5
SEP.											
23...	6.3	.54	.25	.10	.30	.08	--	40	32	.05	1660

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
15...	69	0	53	2.1	380	7.2	18.0	20	6.5	11
APR.										
10...	63	0	41	1.2	250	6.7	15.0	15	6.9	29
JUNE										
24...	70	0	45	1.5	300	7.5	24.0	15	4.0	4.6
AUG.										
27...	66	17	51	1.9	348	7.9	28.0	13	1.3	1.2
SEP.										
23...	17	1	19	.2	50	6.9	21.0	600	7.0	3.8

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)
OCT.											
15...	--	.0	--	.2	.1	12	2	10	11	0	0
APR.											
10...	--	--	--	--	.1	2	--	--	--	--	--
JUNE											
24...	470	13	12	.8	.1	6	1	5	2	--	--
AUG.											
27...	--	--	44	--	.2	14	4	10	--	--	--
SEP.											
23...	--	14	14	--	.0	9	7	2	--	--	--

02146800 Sugar Creek near Fort Mill, S. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT.											
15...	0	<10	0	0	1	20	6	1	5	<10	11
APR.											
10...	--	--	<10	<10	0	--	--	--	--	--	7
JUNE											
24...	--	--	<10	<10	0	10	--	--	--	--	8
AUG.											
27...	--	--	10	10	0	--	--	--	--	--	8
SEP.											
23...	--	--	20	20	0	--	--	--	--	--	34

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
15...	6	5	<10	9	4	5	<10	.0	.0	.0
APR.										
10...	0	7	--	65	62	3	--	--	--	--
JUNE										
24...	2	6	<10	17	17	0	20	--	--	--
AUG.										
27...	3	5	--	8	0	9	--	--	--	--
SEP.										
23...	29	5	--	76	76	0	--	--	--	--

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT.									
15...	.1	0	0	0	0	40	10	30	40
APR.									
10...	--	--	--	--	--	80	50	30	--
JUNE									
24...	--	--	--	--	--	50	40	10	30
AUG.									
27...	--	--	--	--	--	50	20	30	--
SEP.									
23...	--	--	--	--	--	100	80	20	--

02146800 Sugar Creek near Fort Mill, S. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	242	394	80	204	238	240	146	237	109	330	274	296
2	281	375	106	206	246	210	159	136	111	310	267	86
3	318	375	170	240	200	212	133	162	116	320	272	163
4	343	375	216	230	160	253	148	61	120	310	284	224
5	356	348	244	200	73	234	189	91	122	335	318	245
6	357	342	259	175	99	251	195	152	122	330	299	296
7	351	351	248	125	141	255	201	182	265	205	158	86
8	328	372	190	105	173	123	210	212	245	200	201	102
9	342	396	130	87	203	198	245	222	255	255	269	171
10	352	407	144	70	200	196	250	227	255	150	289	226
11	346	385	197	58	199	166	255	231	284	175	142	250
12	366	353	227	90	213	156	170	217	230	230	240	260
13	367	363	227	81	192	81	193	187	167	125	269	260
14	367	372	248	112	224	62	210	207	240	200	311	245
15	341	375	248	157	230	77	190	227	265	110	328	265
16	300	294	97	171	209	135	170	83	250	72	338	275
17	260	342	138	190	184	104	217	131	216	150	257	300
18	300	342	153	211	180	136	233	111	249	195	176	301
19	355	219	211	233	129	109	244	74	112	205	211	236
20	385	160	238	188	158	125	265	146	245	240	216	250
21	348	139	178	99	208	166	265	174	260	245	299	295
22	357	219	198	150	221	185	256	202	284	250	333	301
23	342	278	205	190	225	148	254	237	284	280	343	49
24	361	312	216	218	173	177	265	146	284	230	358	71
25	377	332	218	81	167	114	286	202	296	53	363	143
26	385	316	194	110	206	175	291	131	309	145	333	194
27	380	353	205	143	232	198	286	155	255	200	323	235
28	383	385	194	168	248	218	286	182	304	225	81	250
29	376	375	143	202	---	218	284	162	314	235	181	245
30	349	385	167	224	---	106	231	153	314	140	265	245
31	372	---	188	235	---	104	---	90	---	250	304	---
MONTH	345	334	190	160	190	166	224	165	229	216	268	219
YEAR	MAX	407	MIN	49	MEAN	226						

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	18.0	7.0	12.0	13.0	11.0	14.0	18.0	19.0	24.0	25.0	25.0
2	15.0	17.0	6.0	10.0	10.0	8.0	14.0	18.0	21.0	23.0	25.0	23.0
3	14.0	17.0	6.0	7.0	8.0	5.0	15.0	16.0	22.0	23.0	25.0	23.0
4	12.0	17.0	7.0	8.0	6.0	10.0	12.0	18.0	21.0	27.0	26.0	25.0
5	12.0	17.0	6.0	8.0	4.0	7.0	11.0	18.0	23.0	24.0	26.0	25.0
6	13.0	17.0	5.0	8.0	7.0	8.0	11.0	17.0	17.0	24.0	26.0	26.0
7	14.0	14.0	6.0	8.0	8.0	10.0	12.0	19.0	23.0	23.0	24.0	23.0
8	16.0	12.0	8.0	8.0	7.0	10.0	12.0	18.0	20.0	24.0	23.0	23.0
9	14.0	12.0	7.0	8.0	8.0	8.0	13.0	18.0	19.0	24.0	23.0	24.0
10	14.0	10.0	7.0	10.0	7.0	9.0	15.0	18.0	21.0	24.0	24.0	24.0
11	16.0	10.0	7.0	13.0	9.0	8.0	15.0	17.0	21.0	25.0	23.0	23.0
12	15.0	12.0	7.0	10.0	12.0	10.0	14.0	18.0	20.0	24.0	23.0	24.0
13	16.0	11.0	9.0	8.0	10.0	10.0	13.0	19.0	20.0	23.0	25.0	23.0
14	17.0	10.0	10.0	6.0	9.0	12.0	14.0	19.0	23.0	23.0	25.0	21.0
15	18.0	11.0	7.0	6.0	10.0	11.0	14.0	19.0	19.0	22.0	27.0	18.0
16	18.0	9.0	7.0	7.0	11.0	11.0	13.0	19.0	20.0	21.0	28.0	20.0
17	18.0	9.0	7.0	7.0	12.0	10.0	14.0	20.0	21.0	22.0	27.0	21.0
18	16.0	10.0	7.0	7.0	13.0	11.0	14.0	20.0	21.0	22.0	25.0	21.0
19	15.0	11.0	5.0	8.0	13.0	9.0	17.0	19.0	19.0	22.0	25.0	23.0
20	13.0	11.0	8.0	10.0	11.0	11.0	18.0	20.0	21.0	24.0	25.0	24.0
21	11.0	12.0	9.0	8.0	9.0	13.0	15.0	21.0	21.0	25.0	25.0	25.0
22	9.0	10.0	8.0	8.0	9.0	14.0	16.0	23.0	21.0	24.0	25.0	24.0
23	10.0	9.0	7.0	8.0	12.0	13.0	17.0	22.0	24.0	25.0	25.0	21.0
24	10.0	9.0	8.0	9.0	13.0	16.0	18.0	21.0	24.0	25.0	27.0	21.0
25	12.0	10.0	12.0	9.0	11.0	14.0	19.0	23.0	23.0	22.0	25.0	21.0
26	13.0	9.0	10.0	8.0	11.0	13.0	18.0	22.0	25.0	24.0	25.0	21.0
27	15.0	6.0	8.0	8.0	10.0	12.0	19.0	21.0	24.0	24.0	25.0	21.0
28	15.0	6.0	10.0	9.0	10.0	13.0	19.0	21.0	25.0	25.0	19.0	19.0
29	15.0	7.0	10.0	13.0	---	14.0	20.0	20.0	24.0	25.0	20.0	19.0
30	18.0	17.0	12.0	13.0	---	16.0	20.0	20.0	24.0	23.0	25.0	20.0
31	18.0	---	13.0	13.0	---	14.0	---	19.0	---	25.0	25.0	---
MONTH	14.5	11.5	8.0	9.0	10.0	11.0	15.0	19.5	21.5	23.5	24.5	22.5
YEAR	MAX	28.0	MIN	4.0	MEAN	16.0						

02146800 Sugar Creek near Fort Mill, S. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT. 15...	1000	116	10	3.1
APR. 10...	0830	237	25	16
JUNE 24...	0930	135	43	16
AUG. 27...	1400	113	23	7.0
SEP. 23...	1200	15400	1100	45700

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
07...	1000	124	92	295	7.2	15.0	6.9	--	4.7	6700
15...	1145	114	96	340	7.1	17.0	5.2	53	7.1	3500
21...	1000	107	102	288	7.4	9.0	7.4	46	6.5	1800
29...	1000	112	95	350	7.3	16.0	4.8	<25	4.0	2300
NOV.										
05...	1130	114	99	310	7.3	18.0	4.4	43	>7.8	1500
14...	1020	108	100	281	7.4	11.0	6.4	<25	6.9	2000
JAN.										
08...	1015	322	59	140	7.5	7.0	9.6	<25	4.9	240
23...	1400	340	59	148	7.0	10.0	10.0	<25	5.3	1300
28...	1015	441	54	132	7.4	10.0	9.9	<25	3.4	460
FEB.										
12...	1000	268	70	175	7.2	12.0	7.9	<25	1.9	400
18...	1410	301	64	158	7.4	14.0	9.7	<25	6.6	1400
24...	1000	240	59	140	7.5	14.0	7.6	39	6.6	20
MAR.										
04...	1000	180	75	168	7.6	6.0	6.7	<25	3.7	400
12...	1045	257	67	130	7.5	10.0	8.9	43	6.8	1200
20...	0945	280	53	95	7.4	11.0	8.7	31	4.6	2200
25...	1015	895	50	110	7.3	15.0	7.3	39	6.4	6500
APR.										
02...	1130	367	74	150	7.7	17.0	6.9	<25	6.1	350
09...	1015	241	80	180	7.7	14.0	6.9	32	2.0	2000
14...	1605	210	65	180	7.1	14.0	6.5	<25	1.4	1900
22...	0945	186	77	230	6.8	16.0	5.9	<25	.9	800
29...	1030	162	90	275	7.4	21.0	5.0	<25	--	1100
MAY										
07...	1455	358	52	185	6.8	20.0	6.1	--	--	--
14...	1615	231	72	215	7.4	21.0	6.0	<25	7.3	2300
28...	1615	326	54	180	7.3	22.0	5.1	35	7.0	5700
JUNE										
05...	1015	236	82	225	7.3	23.0	5.3	--	--	--
11...	1015	582	71	88	7.3	20.0	3.2	64	8.4	15000
19...	1000	632	42	138	7.2	22.0	4.3	<25	3.3	19000
26...	1100	132	84	305	7.2	24.0	3.6	<25	4.6	1400
30...	1330	102	80	360	7.3	23.0	2.6	27	4.6	--
JULY										
09...	1510	242	52	275	7.2	25.0	3.3	<25	3.4	2200
17...	0915	5300	41	155	7.2	21.0	5.2	<25	4.2	97000
22...	1100	151	69	215	7.2	26.0	3.5	<25	6.2	7100
29...	0915	240	82	235	7.3	22.0	3.5	<25	4.2	11000
AUG.										
06...	0945	146	79	330	7.4	22.0	3.5	31	3.9	4600
26...	1510	108	88	295	8.4	33.0	8.6	<25	4.7	1400
SEP.										
03...	1410	186	47	190	7.3	25.0	5.3	<25	5.4	16000
10...	1245	206	58	240	7.0	24.0	5.2	<25	3.3	8300
17...	0915	186	78	290	7.3	21.0	4.3	<25	3.8	15000
29...	0915	219	74	210	7.3	19.0	5.9	<25	2.1	10000

02149540 Pulliam Creek near Tryon, N. C.

LOCATION.--Lat 35°16'54", long 82°20'15", Polk County, temperature recorder at gaging station at end of foot trail, 135 ft (41 m) upstream from small tributary, 0.4 mi (0.6 km) upstream from mouth, 1.0 mi (1.6 km) downstream from bridge on Secondary Road 1154, and 7.5 mi (12.1 km) northwest of Tryon.

DRAINAGE AREA.--2.27 mi^2 (5.88 km^2).

PERIOD OF RECORD.--Water temperatures: July 1972 to September 1975 (discontinued).

EXTREMES.--1974-75:
Water temperatures: Maximum, 21.5°C May 24, 25, Aug. 5; minimum, freezing point on many days during October, November, December, and March.

Period of record:
Water temperatures: Maximum, 21.5°C May 24, 25, Aug. 5, 1975; minimum, freezing point on many days during winter period.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	13.0	6.5	0.0	0.0	13.5	8.0	14.5	11.0	7.0	2.0
2	---	---	14.0	8.0	0.0	0.0	7.0	4.0	13.0	8.0	6.5	2.0
3	---	---	14.0	8.5	0.0	0.0	8.0	3.0	8.0	5.0	4.5	0.0
4	---	---	13.0	7.0	0.0	0.0	9.0	5.5	5.0	3.0	4.0	0.5
5	---	---	14.0	9.5	0.0	0.0	6.0	3.5	4.5	4.0	5.0	1.0
6	---	---	10.0	6.0	0.0	0.0	4.5	3.0	6.5	4.0	6.5	5.0
7	---	---	6.5	3.0	0.0	0.0	6.5	4.0	5.5	3.0	9.5	6.5
8	10.0	6.0	8.0	4.0	2.5	0.0	6.5	5.5	6.5	3.0	10.0	8.0
9	9.5	4.5	6.5	0.5	0.0	0.0	9.5	5.5	7.0	4.0	9.5	3.5
10	10.0	5.5	5.5	0.0	0.0	0.0	10.5	6.5	5.5	3.0	9.0	6.0
11	11.0	5.5	5.5	0.0	0.0	0.0	11.5	8.5	10.0	5.0	11.5	6.0
12	11.0	6.5	5.5	2.5	1.0	0.0	8.5	7.0	9.5	5.0	10.0	6.0
13	12.0	8.5	3.0	0.0	2.0	0.0	7.0	3.5	6.0	1.5	---	---
14	12.0	8.5	3.5	0.0	1.0	0.0	3.5	3.0	5.5	0.5	---	---
15	13.5	10.5	1.0	0.0	0.0	0.0	4.5	3.0	8.5	2.0	---	---
16	14.0	10.5	1.0	0.0	1.0	0.0	7.0	3.0	8.0	4.5	---	---
17	11.0	6.5	5.0	0.0	4.0	0.0	4.5	3.0	11.0	7.0	---	---
18	11.5	6.5	6.0	2.5	3.5	3.0	8.5	3.5	9.0	6.5	7.5	6.5
19	10.0	5.0	8.0	5.0	5.5	3.0	10.5	4.5	10.0	5.5	11.0	6.5
20	8.5	3.0	9.0	4.5	6.0	4.5	9.5	4.0	8.0	3.5	15.0	7.5
21	4.5	0.0	4.5	2.0	8.0	4.0	5.0	3.0	8.0	1.0	16.5	7.5
22	5.5	0.0	4.5	0.0	6.0	3.0	8.0	3.5	5.5	1.0	15.0	11.5
23	8.0	0.5	4.0	0.0	8.0	3.0	8.0	4.0	10.5	5.5	17.0	8.0
24	9.5	3.0	5.0	0.0	10.5	7.0	10.0	6.5	11.5	4.5	15.5	12.5
25	10.0	4.5	4.0	0.0	13.0	8.0	11.0	8.5	9.5	3.0	14.5	7.5
26	12.0	6.5	0.5	0.0	7.0	4.5	9.0	6.0	9.0	3.0	12.5	5.0
27	11.0	5.5	0.0	0.0	10.0	6.5	10.5	4.0	7.0	3.5	12.0	5.5
28	11.0	4.5	0.0	0.0	11.5	10.0	13.5	7.0	7.0	1.5	13.5	7.0
29	11.5	5.5	0.5	0.0	11.5	9.5	15.5	9.5	---	---	14.5	11.0
30	14.0	9.5	0.0	0.0	13.5	9.5	14.5	9.5	---	---	15.0	9.5
31	14.0	8.0	---	---	13.0	11.0	16.0	9.0	---	---	12.0	6.5
MONTH	---	---	14.0	0.0	13.5	0.0	16.0	3.0	14.5	0.5	17.0	0.0

02149540 Pulliam Creek near Tryon, N. C.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	7.5	16.5	15.0	20.0	18.5	19.0	16.5	19.0	16.5	19.0	16.0
2	14.5	8.5	20.0	14.5	20.0	16.0	19.0	16.0	18.5	16.0	18.5	15.0
3	13.0	7.0	17.5	15.0	20.0	16.0	19.5	16.5	19.5	16.5	19.5	15.5
4	10.5	4.5	18.0	14.0	20.0	16.0	19.0	16.5	20.0	17.5	19.5	16.0
5	12.0	5.0	18.0	11.5	20.5	16.5	19.5	15.5	21.5	17.5	19.5	16.5
6	12.5	5.0	19.0	11.5	19.5	14.5	18.5	17.5	19.0	18.0	19.0	16.5
7	13.5	5.5	16.5	15.0	18.5	14.5	19.0	17.5	18.0	16.5	17.5	16.5
8	12.0	7.5	16.5	14.5	18.0	14.0	19.5	17.5	17.5	16.0	19.0	16.5
9	14.0	7.5	16.0	15.0	16.0	13.5	20.0	18.0	18.0	14.5	19.0	16.5
10	14.0	10.5	17.5	14.5	15.5	15.0	20.0	16.5	17.5	16.0	18.5	16.5
11	13.5	9.0	16.0	11.5	15.0	14.5	19.0	17.5	18.5	15.5	18.0	17.5
12	13.0	6.5	16.5	14.5	18.0	15.0	18.5	16.5	19.0	16.0	19.0	17.5
13	14.0	4.0	19.0	14.5	18.0	14.5	18.0	16.0	19.5	16.0	17.5	14.5
14	10.0	8.5	17.5	12.0	18.5	14.0	18.0	16.5	19.0	16.5	14.0	10.5
15	13.5	8.0	16.0	15.5	18.5	14.5	18.5	17.5	19.5	17.5	12.0	9.0
16	14.5	6.5	19.0	15.0	19.0	15.5	18.5	16.5	19.5	17.5	14.0	11.5
17	17.5	7.0	17.5	16.0	19.0	15.0	18.5	16.5	19.0	17.5	14.0	14.0
18	16.5	11.0	18.5	16.5	20.0	16.5	19.5	17.5	19.0	17.5	16.0	14.0
19	18.0	13.0	19.0	15.5	18.0	15.5	20.0	18.0	18.5	17.5	18.0	14.5
20	17.5	9.0	20.0	15.5	18.5	16.5	19.0	18.0	19.5	17.5	18.0	14.0
21	16.5	9.0	20.5	16.0	19.5	16.5	19.5	18.0	19.5	16.5	17.5	14.5
22	18.0	6.5	20.5	18.0	18.5	17.5	19.0	16.0	19.5	16.5	15.5	14.5
23	17.5	10.0	20.0	18.0	18.5	14.5	19.0	16.5	20.0	18.0	16.5	14.5
24	19.5	14.0	21.5	18.0	18.5	14.0	19.5	17.5	20.0	18.5	16.5	14.0
25	19.5	15.0	21.5	18.0	19.0	14.5	18.5	17.5	20.5	18.0	14.0	11.0
26	20.5	12.0	20.0	17.5	19.0	16.5	18.5	16.5	20.5	18.0	14.5	10.5
27	19.5	12.0	20.5	17.5	19.0	16.5	18.5	17.5	20.0	18.5	14.0	10.5
28	20.0	14.0	20.0	16.5	20.0	16.5	19.0	16.5	19.0	17.5	13.0	8.5
29	20.0	15.0	20.0	18.0	19.5	17.5	19.5	16.0	18.5	15.0	13.0	9.0
30	18.0	16.0	20.5	18.5	19.5	18.0	19.0	16.0	18.5	14.5	14.5	10.5
31	---	---	20.0	19.0	---	---	18.5	15.5	18.5	15.5	---	---
MONTH	20.5	4.0	21.5	11.5	20.5	13.5	20.0	15.5	21.5	14.5	19.5	8.5
YEAR	21.5	0.0										

02149702 Green River near Saluda, N. C.

LOCATION.--Lat 35°18'20", long 82°16'31", Polk County, temperature recorder at gaging station on left bank 90 ft (27 m) upstream from bridge on Secondary Road 1151, 2,100 ft (640 m) downstream from Laurel Branch, and 6.5 mi (10.5 km) northeast of Saluda.

DRAINAGE AREA.--104 mi^2 (269 km^2).

PERIOD OF RECORD.--Water temperatures: August 1972 to September 1975 (discontinued).

EXTREMES.--1974-75:
Water temperatures: Maximum, 23.5°C Aug. 24, 25, 26; minimum observed, 4.0°C on several days during January, February and March.

Period of record:
Water temperatures: Maximum, 23.5°C Aug. 24, 25, 26, 1975; minimum, 2.0°C Jan. 13, 14, 15, 1973.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	14.5	14.5	13.5	---	---	10.0	7.5	10.5	9.5	8.5	7.0
2	14.5	13.5	14.5	13.5	---	---	7.5	5.5	10.0	7.5	8.0	5.5
3	13.5	12.0	15.0	13.5	---	---	6.5	4.5	7.5	6.0	6.0	4.0
4	12.0	11.5	15.0	13.5	---	---	7.5	6.0	6.0	5.0	6.5	4.0
5	11.5	11.0	15.0	14.0	---	---	6.0	5.0	6.0	5.0	7.0	4.0
6	13.0	11.5	14.5	12.0	---	---	5.0	4.5	7.0	6.0	7.5	6.0
7	14.0	12.0	12.0	11.0	---	---	6.0	4.5	7.0	5.0	7.5	7.0
8	14.0	13.5	11.5	11.0	---	---	6.0	5.5	6.0	4.0	8.0	7.0
9	14.0	13.5	11.0	10.5	---	---	7.0	5.5	6.5	5.0	7.5	4.5
10	14.0	13.5	10.5	10.5	---	---	7.0	7.0	6.0	4.0	7.0	5.0
11	14.0	13.5	10.5	10.0	---	---	8.5	7.0	8.5	6.0	7.0	6.0
12	14.5	14.0	10.5	10.0	---	---	7.5	7.0	10.0	8.5	8.0	7.0
13	15.5	14.0	10.5	10.0	---	---	7.0	5.0	8.5	6.0	9.5	8.0
14	15.0	14.0	10.0	10.0	---	---	5.0	4.5	7.0	5.5	10.0	9.0
15	15.5	15.0	10.0	10.0	---	---	5.0	4.0	8.0	6.0	9.0	7.5
16	16.0	15.5	10.0	10.0	---	---	6.0	4.0	8.0	7.5	9.0	8.5
17	15.5	14.0	10.0	10.0	---	---	6.0	4.0	9.0	8.0	10.0	8.5
18	14.5	13.5	11.0	10.0	---	---	6.0	5.0	9.0	8.5	10.0	9.0
19	14.5	13.5	11.5	10.5	---	---	7.0	6.0	9.5	9.0	9.0	8.0
20	13.5	11.0	11.5	11.0	---	---	7.5	6.0	9.0	7.0	10.5	8.5
21	11.5	11.0	11.0	10.5	---	---	6.0	5.0	8.0	6.0	11.5	9.0
22	11.5	11.0	10.5	10.0	---	---	6.0	5.0	8.0	6.0	11.5	10.5
23	11.5	10.5	---	---	5.5	5.0	6.5	5.5	9.0	7.5	12.0	9.5
24	12.0	11.0	---	---	7.5	5.5	7.0	6.5	10.5	9.0	12.0	12.0
25	13.0	11.5	---	---	9.5	7.5	8.5	7.0	9.0	7.5	12.0	10.0
26	13.5	12.0	---	---	8.5	6.0	7.5	6.5	9.0	7.0	11.0	8.5
27	13.5	13.0	---	---	7.5	6.0	7.0	5.0	8.5	7.5	10.5	8.5
28	13.5	13.0	---	---	9.0	7.5	8.0	6.5	8.5	7.0	11.0	9.0
29	13.5	12.0	---	---	8.5	6.0	9.0	8.0	---	---	11.5	11.0
30	15.0	13.5	---	---	9.0	8.0	10.0	9.0	---	---	12.5	11.0
31	15.0	14.0	---	---	9.5	8.5	10.0	8.5	---	---	11.0	9.0
MONTH	16.0	10.5	---	---	---	---	10.0	4.0	10.5	4.0	12.5	4.0

02149702 Green River near Saluda, N. C.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.0	14.0	14.0	18.5	17.0	---	---	22.0	19.5	22.0	19.5
2	12.0	10.0	16.0	14.0	18.0	16.0	---	---	21.5	19.5	21.5	19.5
3	12.0	10.5	16.0	14.0	18.5	16.0	---	---	23.0	20.0	22.0	19.5
4	10.5	8.0	16.0	14.0	19.0	16.0	---	---	23.0	20.5	22.5	20.0
5	10.5	8.0	15.0	13.0	18.5	16.0	---	---	23.0	21.0	22.5	20.0
6	11.0	8.0	16.0	13.0	18.5	16.5	---	---	22.5	20.0	21.0	20.0
7	11.0	8.0	16.0	15.0	19.0	16.5	---	---	20.5	19.5	20.0	19.0
8	11.0	9.5	15.5	14.0	19.0	16.0	---	---	20.0	19.0	21.0	20.0
9	11.5	9.5	15.5	15.0	18.5	16.0	---	---	20.0	18.5	22.0	20.0
10	12.0	11.0	16.0	15.0	17.5	16.0	---	---	20.0	19.5	21.0	20.0
11	12.0	10.5	15.5	13.5	16.5	16.0	---	---	21.5	19.0	20.5	19.0
12	12.0	9.5	16.0	14.5	19.0	16.5	---	---	22.0	19.5	21.5	19.5
13	12.0	8.0	16.5	14.0	19.0	16.5	---	---	22.0	20.0	21.0	19.0
14	12.0	10.0	16.5	14.0	19.5	16.0	---	---	21.5	20.0	19.5	16.5
15	12.0	10.0	16.0	15.0	19.0	16.5	---	---	22.0	20.0	17.5	15.0
16	12.0	9.0	17.5	15.0	19.5	17.0	---	---	22.5	20.0	18.5	16.5
17	13.0	10.0	17.0	15.5	20.0	17.0	---	---	22.0	20.0	18.5	17.0
18	13.0	12.0	16.5	15.0	21.0	18.5	---	---	21.5	20.0	---	---
19	14.5	13.0	17.0	15.0	20.0	18.0	---	---	21.5	20.0	20.5	18.5
20	13.5	11.0	18.0	15.0	19.0	17.0	---	---	22.0	20.0	20.5	18.0
21	13.5	11.0	18.0	15.0	19.5	17.5	---	---	22.0	20.0	20.0	19.0
22	14.0	11.0	18.0	16.0	19.0	18.0	21.5	19.0	22.5	20.0	20.0	19.0
23	14.0	11.5	18.0	16.0	19.5	17.0	21.5	19.5	22.5	20.5	19.0	18.5
24	15.5	13.5	19.0	17.0	19.5	17.0	21.5	20.0	23.5	21.0	19.0	19.0
25	15.0	14.5	18.5	16.0	19.5	17.5	20.5	19.0	23.5	21.0	19.0	17.5
26	16.0	14.0	18.0	16.0	20.0	18.0	21.0	19.0	23.5	21.0	18.0	16.5
27	15.5	14.0	18.0	16.0	20.0	18.5	21.0	19.5	23.0	21.0	18.0	16.5
28	15.5	14.0	18.0	16.0	---	---	22.0	19.0	21.0	19.5	17.5	16.0
29	15.5	14.0	18.0	17.0	---	---	22.0	19.5	21.0	19.0	17.5	16.0
30	15.0	14.0	19.0	17.0	---	---	21.5	20.0	21.5	19.0	18.0	16.5
31	---	---	18.5	17.0	---	---	21.0	19.0	21.5	20.0	---	---
MONTH	16.0	8.0	19.0	13.0	21.0	16.0	---	---	23.5	18.5	22.5	15.0
YEAR	23.5	4.0										

02151000 Second Broad River at Cliffside, N. C.

LOCATION.--Lat 35°14'08", long 81°45'57", Rutherford County, at bridge on U. S. 221A at Cliffside, 0.2 mi (0.3 km) upstream from gaging station, and 1.3 mi (2.1 km) upstream from mouth.

DRAINAGE AREA.--211 mi^2 (546 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1948 to September 1949, October 1956 to September 1960, water years 1968-73 (partial-record station), October 1974 to September 1975.
Water temperatures: October 1948 to September 1949, October 1956 to September 1960, October 1974 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 95 micromhos November 9; minimum daily, 22 micromhos March 15.
Water temperatures: Maximum, 25.0°C Aug. 5, 6, 26, 27; minimum, 3.0°C Apr. 7, 8.

Period of record:
Dissolved solids (1948-49, 1956-60): Maximum, 77 mg/l Oct. 11-20, 1956; minimum, 36 mg/l Nov. 21-30, 1948.
Hardness (1948-49, 1956-60): Maximum, 23 mg/l Oct. 21-31, 1957; minimum, 6 mg/l June 2, 1959.
Specific conductance (1956-60, 1974-75): Maximum daily, 137 micromhos Oct. 5, 1956; minimum daily, 22 micromhos Mar. 15, 1975.
Water temperatures: Maximum, 26.5°C June 26-29, July 28, 1949; minimum, freezing point Feb. 17-19, 1958, Jan. 22, 1960.

REMARKS.--Miscellaneous chemical data published for water years 1945, 1955-56, 1961-67. Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)
OCT.											
01...	1640	222	16	2300	100	2800	63	51	12	30	5.7
DEC.											
18...	1230	275	--	--	--	--	--	--	--	--	--
JAN.											
08...	0830	306	17	--	--	--	--	--	--	--	3.2
11...	0815	795	13	3800	110	--	60	60	0	--	3.7
11...	1645	1040	12	--	--	--	--	--	--	--	2.9
12...	1155	645	12	5300	100	--	110	110	0	--	4.3
22...	1250	340	14	--	--	--	--	--	--	--	4.4
MAR.											
13...	0830	1910	11	5300	100	--	--	--	--	--	2.8
13...	1430	3020	6.1	--	--	--	--	--	--	--	2.3
14...	0220	4990	5.0	7400	120	--	--	--	--	--	2.0
14...	1825	7290	4.7	--	--	--	--	--	--	--	1.6
15...	0850	11400	4.1	39000	120	--	--	--	--	--	1.1
16...	0830	1410	9.6	11000	180	--	--	--	--	--	2.2
17...	1530	994	11	--	--	--	--	--	--	--	3.0
JUNE											
10...	1200	380	16	2300	140	2300	--	--	--	--	2.5
AUG.											
26...	1300	187	18	1400	100	--	--	--	--	--	4.1
SEP.											
22...	1530	305	15	2300	210	--	--	--	--	--	3.5
24...	0830	1930	10	27000	100	--	--	--	--	--	2.6
25...	1300	760	11	5300	100	--	--	--	--	--	2.5
29...	1230	315	15	1500	170	--	--	--	--	--	3.7

02151000 Second Broad River at Cliffside, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVEL SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
01...	1.5	6.2	1.7	23	--	19	4.5	5.0	.0	.29	.28
DEC.											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
08...	1.3	5.6	1.2	23	--	19	2.8	3.0	.1	--	--
11...	1.3	3.7	1.7	17	--	14	3.4	2.7	.1	--	--
11...	1.3	3.6	1.7	16	--	13	3.7	3.4	.1	--	--
12...	1.3	2.8	1.6	14	--	11	4.0	2.0	.0	--	--
22...	1.5	5.0	1.9	20	--	16	3.3	3.3	.3	.30	.30
MAR.											
13...	1.3	3.6	1.4	16	--	13	4.7	4.7	.1	.32	.32
13...	.8	1.6	1.8	10	--	8	5.9	3.2	.1	--	--
14...	.8	1.3	1.9	8	--	7	5.2	2.5	.1	.25	.23
14...	.8	1.0	1.8	8	--	7	5.0	2.2	.1	--	--
15...	.5	.7	1.4	6	--	5	4.2	.8	.0	.12	.16
16...	.8	1.9	1.4	10	--	8	4.7	2.7	.0	.24	.23
17...	1.3	2.2	1.3	13	0	11	3.5	2.5	.0	--	--
JUNE											
10...	1.4	4.7	1.3	22	0	18	3.2	3.7	.3	.33	.72
AUG.											
26...	1.5	6.0	1.5	29	0	24	3.2	4.1	.0	.30	.31
SEP.											
22...	1.3	4.4	1.5	20	0	16	2.4	2.7	.1	.29	.29
24...	.8	3.8	1.9	14	0	11	3.8	3.2	.1	.24	.21
25...	.8	3.6	1.8	14	0	11	3.9	2.7	.1	.25	.21
29...	1.3	4.3	1.4	22	0	18	2.3	2.8	.1	--	--

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)
OCT.											
01...	.0	.07	.00	.00	.45	.17	.52	.35	.17	28	.81
DEC.											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
08...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
22...	--	.13	.11	.14	.25	.12	.38	.15	.23	--	.68
MAR.											
13...	--	.10	.07	.09	.50	.11	.60	.42	.18	--	.92
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	.22	.15	.19	1.5	.16	1.7	1.4	.31	--	2.0
14...	--	--	--	--	--	--	--	--	--	--	--
15...	--	.25	.11	.14	1.9	.04	2.1	2.0	.15	--	2.2
16...	--	.08	.03	.04	.49	.09	.57	.45	.12	--	.81
17...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
10...	.0	.06	.07	.09	.29	.06	.35	.22	.13	120	.68
AUG.											
26...	--	.04	.06	.08	.96	.94	1.0	.00	1.0	--	1.3
SEP.											
22...	--	.02	.03	.04	.25	.14	.27	.10	.17	--	.56
24...	--	.12	.14	.18	.81	.49	.93	.30	.63	--	1.2
25...	--	.03	.00	.00	.33	.27	.36	.09	.27	--	.61
29...	--	--	--	--	--	--	--	--	--	--	--

02151000 Second Broad River at Cliffside, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT.											
01...	3.6	.12	.15	.06	.08	.05	33	51	52	.07	30.6
DEC.											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
08...	--	--	--	--	--	--	--	50	46	.07	41.3
11...	--	--	--	--	--	--	--	35	38	.05	75.1
11...	--	--	--	--	--	--	--	24	37	.03	67.4
12...	--	--	--	--	--	--	--	29	35	.04	50.5
22...	3.0	.09	.12	.06	.06	.04	--	30	44	.04	27.5
MAR.											
13...	4.1	.15	.06	.03	.05	.02	--	39	38	.05	201
13...	--	--	--	--	--	--	--	40	27	.05	326
14...	8.6	.47	.03	.01	.09	.01	--	28	24	.04	377
14...	--	--	--	--	--	--	--	26	21	.04	512
15...	9.8	.54	.03	.01	.12	.01	--	31	16	.04	954
16...	3.6	.16	.00	.01	.04	.00	--	35	28	.05	133
17...	--	--	--	--	--	--	--	44	31	.06	118
JUNE											
10...	3.0	.05	.03	.02	.02	.01	65	55	47	.07	56.4
AUG.											
26...	5.8	.06	.15	.03	.05	.05	--	52	54	.07	26.3
SEP.											
22...	2.5	.06	.03	.04	.02	.01	--	45	42	.06	37.1
24...	5.2	.28	.00	.03	.09	.00	--	42	34	.06	219
25...	2.7	.11	.00	.02	.03	.00	--	40	34	.05	82.1
29...	--	--	--	--	--	--	--	44	42	.06	37.4

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
01...	20	2	37	.6	60	6.6	15.0	50	9.3	9.2
DEC.										
18...	--	--	--	--	51	6.8	4.0	--	12.1	--
JAN.										
08...	13	0	45	.7	59	7.0	6.0	4	--	3.7
11...	15	1	32	.4	49	6.6	10.0	300	--	6.8
11...	13	0	35	.4	48	6.6	11.0	300	--	6.4
12...	16	5	25	.3	42	6.6	9.0	300	13.2	5.6
22...	17	1	36	.5	52	6.7	6.0	30	13.8	6.4
MAR.										
13...	12	0	36	.4	50	6.6	10.0	80	--	6.4
13...	9	1	24	.2	37	6.3	10.0	700	--	8.0
14...	8	2	21	.2	30	6.4	--	500	--	5.1
14...	7	1	19	.2	29	5.2	9.0	300	--	8.1
15...	5	0	19	.1	22	6.1	12.0	700	--	7.6
16...	9	1	26	.3	35	6.6	14.0	200	--	4.0
17...	13	2	25	.3	40	6.7	14.0	100	--	4.2
JUNE										
10...	12	0	43	.6	60	7.7	18.0	10	9.6	.7
AUG.										
26...	16	0	42	.6	65	6.8	25.5	34	6.0	7.4
SEP.										
22...	14	0	37	.5	53	6.8	20.0	20	8.1	5.1
24...	10	0	40	.5	45	6.6	20.0	560	8.3	5.6
25...	10	0	40	.5	45	6.5	19.0	200	8.3	7.1
29...	15	0	36	.5	60	7.1	17.0	33	8.3	2.8

02151000 Second Broad River at Cliffside, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)
OCT.												
01...	--	--	--	4.6	--	.1	.0	0	0	0	3	0
DEC.												
18...	60	.80	2.3	--	--	--	--	--	--	--	--	--
JAN.												
11...	--	--	--	--	--	--	--	2	2	0	--	0
12...	--	--	--	--	--	--	--	0	0	0	--	0
22...	--	--	--	1.9	--	--	.1	--	--	--	--	--
MAR.												
13...	--	--	--	6.0	6.8	--	.1	--	--	--	--	--
14...	--	--	--	16	8.8	--	.0	--	--	--	--	--
15...	--	--	--	30	8.7	--	.0	--	--	--	--	--
16...	--	--	--	7.8	7.0	--	.1	--	--	--	--	--
JUNE												
10...	--	--	--	2.0	--	.2	.0	--	--	--	--	--
AUG.												
26...	--	--	--	--	3.6	--	.0	--	--	--	--	--
SEP.												
22...	--	--	--	6.6	5.8	--	.0	--	--	--	--	--
24...	--	--	--	5.6	6.0	--	.0	--	--	--	--	--
25...	--	--	--	5.0	--	--	.0	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT.												
01...	0	1	<10	<10	<10	0	<10	0	0	0	<10	17
DEC.												
18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
11...	0	0	--	<10	<10	0	--	3	3	0	--	4
12...	0	0	--	<10	<10	0	--	2	2	0	--	5
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
13...	--	--	--	<10	<10	0	--	--	--	--	--	4
14...	--	--	--	18	18	0	--	--	--	--	--	6
15...	--	--	--	30	30	0	--	--	--	--	--	29
16...	--	--	--	18	18	0	--	--	--	--	--	14
JUNE												
10...	--	--	--	0	0	1	<10	--	--	--	--	2
AUG.												
26...	--	--	--	10	10	0	--	--	--	--	--	2
SEP.												
22...	--	--	--	<10	<10	0	--	--	--	--	--	1
24...	--	--	--	<10	<9	1	--	--	--	--	--	26
25...	--	--	--	<10	<10	0	--	--	--	--	--	4
29...	--	--	--	<10	<10	0	--	--	--	--	--	2

02151000 Second Broad River at Cliffside, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
01...	14	3	<10	6	4	2	<10	.0	.0	.0
JAN.										
11...	1	3	--	9	9	0	--	.2	.0	.3
12...	3	2	--	8	7	1	--	.3	.0	.4
MAR.										
13...	3	1	--	20	20	0	--	--	--	--
14...	2	4	--	12	4	8	--	--	--	--
15...	27	2	--	22	21	1	--	--	--	--
16...	12	2	--	15	10	5	--	--	--	--
JUNE										
10...	1	1	<10	9	5	4	<10	--	--	--
AUG.										
26...	0	2	--	4	4	0	--	--	--	--
SEP.										
22...	1	0	--	7	7	0	--	--	--	--
24...	24	2	--	35	35	0	--	--	--	--
25...	2	2	--	3	3	0	--	--	--	--
29...	2	0	--	5	5	0	--	--	--	--

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT.									
01...	.5	0	0	0	0	10	10	0	<10
JAN.									
11...	--	0	0	0	--	7	4	3	--
12...	--	0	0	0	--	3	0	3	--
MAR.									
13...	--	--	--	--	--	30	20	8	--
14...	--	--	--	--	--	100	100	0	--
15...	--	--	--	--	--	50	50	0	--
16...	--	--	--	--	--	50	50	0	--
JUNE									
10...	--	--	--	--	--	80	30	50	10
AUG.									
26...	--	--	--	--	--	3	3	0	--
SEP.									
22...	--	--	--	--	--	8	8	0	--
24...	--	--	--	--	--	50	40	10	--
25...	--	--	--	--	--	10	10	0	--
29...	--	--	--	--	--	50	50	0	--

02151000 Second Broad River at Cliffside, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	85	45	53	57	49	43	57	34	60	82	63
2	76	88	43	55	54	48	49	59	36	57	78	55
3	85	80	54	55	60	46	51	53	48	60	77	62
4	81	67	58	60	54	48	51	53	51	60	80	73
5	81	63	63	55	53	51	52	48	49	60	61	78
6	69	80	62	53	52	53	54	53	51	59	77	84
7	60	83	62	55	48	55	48	57	54	52	75	82
8	60	86	58	60	56	52	53	59	50	57	70	60
9	75	95	59	62	49	49	53	61	48	69	75	54
10	74	84	63	59	49	48	58	60	55	69	75	73
11	75	63	71	47	51	50	58	57	54	91	67	75
12	86	61	73	42	54	54	55	49	55	84	62	57
13	76	84	76	43	56	46	57	46	39	72	74	68
14	65	84	81	45	57	28	50	46	49	62	75	56
15	60	88	80	47	56	22	53	53	51	65	82	59
16	86	87	57	50	51	33	55	37	48	68	82	77
17	88	82	59	51	48	36	56	40	52	80	82	70
18	81	64	65	54	47	41	58	44	56	72	77	62
19	84	58	61	51	58	40	56	24	56	73	63	45
20	77	69	61	48	53	33	55	39	56	72	86	53
21	62	64	61	54	52	41	50	42	58	67	75	55
22	59	58	55	58	52	44	52	52	53	60	80	54
23	77	64	54	58	46	43	58	53	50	71	81	57
24	84	64	54	56	50	47	57	54	53	77	86	46
25	83	56	51	52	37	41	59	52	71	79	80	43
26	83	55	50	38	44	45	59	47	75	72	65	48
27	78	74	50	43	49	50	60	49	69	70	81	53
28	62	74	51	45	49	50	53	54	68	62	70	57
29	59	76	49	53	---	52	53	54	70	61	58	54
30	76	67	53	55	---	46	57	42	64	70	67	56
31	80	---	57	56	---	35	---	38	---	70	78	---
MONTH	74	73	59	52	52	44	54	49	54	68	75	61
YEAR	MAX	95	MIN	22	MEAN	60						

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	20.0	5.0	7.0	10.0	10.0	4.0	18.0	20.0	22.0	23.0	22.0
2	15.0	15.0	6.0	5.0	10.0	10.0	5.0	17.0	20.0	21.0	23.0	23.0
3	12.0	15.0	5.0	5.0	10.0	5.0	5.0	16.0	19.0	21.0	24.0	22.0
4	10.0	15.0	5.0	8.0	7.0	5.0	4.0	16.0	18.0	23.0	24.0	22.0
5	11.0	15.0	5.0	6.0	7.0	5.0	4.0	16.0	18.0	21.0	25.0	23.0
6	10.0	15.0	4.0	5.0	5.0	7.0	5.0	16.0	20.0	22.0	25.0	23.0
7	14.0	13.0	5.0	5.0	8.0	8.0	3.0	17.0	19.0	20.0	23.0	23.0
8	13.0	11.0	5.0	6.0	5.0	10.0	3.0	16.0	19.0	21.0	22.0	21.0
9	13.0	13.0	6.0	7.0	5.0	8.0	4.0	17.0	19.0	23.0	21.0	22.0
10	14.0	10.0	5.0	8.0	10.0	8.0	7.0	16.0	18.0	22.0	21.0	22.0
11	13.0	9.0	5.0	10.0	7.0	7.0	6.0	16.0	17.0	23.0	22.0	23.0
12	15.0	10.0	5.0	9.0	10.0	8.0	6.0	16.0	18.0	21.0	22.0	21.0
13	15.0	10.0	7.0	7.0	9.0	10.0	4.0	16.0	19.0	20.0	22.0	20.0
14	15.0	10.0	7.0	5.0	7.0	12.0	5.0	17.0	19.0	22.0	22.0	20.0
15	16.0	8.0	7.0	4.0	8.0	9.0	5.0	18.0	20.0	21.0	23.0	17.0
16	18.0	9.0	7.0	4.0	9.0	10.0	5.0	16.0	19.0	20.0	24.0	18.0
17	16.0	9.0	6.0	5.0	10.0	10.0	5.0	18.0	20.0	21.0	24.0	21.0
18	15.0	9.0	5.0	5.0	12.0	11.0	8.0	16.0	20.0	21.0	24.0	19.0
19	15.0	12.0	5.0	5.0	13.0	10.0	10.0	16.0	20.0	22.0	24.0	20.0
20	12.0	14.0	6.0	9.0	10.0	8.0	9.0	18.0	20.0	24.0	22.0	20.0
21	10.0	12.0	10.0	5.0	12.0	10.0	8.0	18.0	20.0	23.0	23.0	20.0
22	10.0	9.0	5.0	5.0	10.0	15.0	7.0	19.0	20.0	24.0	23.0	20.0
23	9.0	8.0	10.0	5.0	15.0	10.0	13.0	19.0	20.0	24.0	23.0	19.0
24	10.0	8.0	5.0	7.0	13.0	16.0	16.0	19.0	20.0	24.0	24.0	19.0
25	10.0	9.0	5.0	10.0	10.0	11.0	19.0	20.0	20.0	24.0	24.0	19.0
26	12.0	8.0	5.0	10.0	10.0	10.0	19.0	20.0	20.0	24.0	25.0	16.0
27	15.0	6.0	5.0	6.0	10.0	10.0	19.0	19.0	21.0	23.0	25.0	16.0
28	18.0	5.0	8.0	6.0	10.0	12.0	19.0	19.0	23.0	23.0	24.0	16.0
29	18.0	5.0	5.0	10.0	---	13.0	20.0	20.0	21.0	23.0	23.0	16.0
30	19.0	5.0	6.0	10.0	---	14.0	20.0	20.0	22.0	24.0	23.0	16.0
31	19.0	---	7.0	10.0	---	13.0	---	20.0	---	23.0	22.0	---
MONTH	14.0	10.5	6.0	6.5	9.5	10.0	9.0	18.0	19.5	22.5	23.0	20.0
YEAR	MAX	25.0	MIN	3.0	MEAN	14.0						

02151000 Second Broad River at Cliffside, N. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
JAN.				
22...	1250	340	15	14
MAR.				
13...	0830	1910	162	835
13...	1430	3020	963	7850
14...	0220	4990	908	12200
14...	1825	7290	728	14300
15...	0850	11400	1080	33200
16...	0830	1410	154	586
17...	1530	994	104	279
JUNE				
10...	1200	380	61	63
AUG.				
26...	1300	187	23	12
SEP.				
22...	1530	305	32	26
24...	0830	1930	1050	5470
25...	1300	760	95	195
29...	1230	315	22	19

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
PERIOD JANUARY 1975 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL MERCURY (HG) (UG/L)
JAN.												
23...	1200	325	28	55	6.8	6.0	--	12.1	<25	.7	20	--
27...	1130	540	18	42	6.8	8.0	--	11.7	<25	1.0	240	<.5
FEB.												
06...	1330	816	18	--	6.9	7.0	--	13.4	<25	.7	10000	--
13...	1115	365	23	36	6.7	7.0	--	9.9	--	--	--	--
19...	1515	483	16	34	6.9	10.0	--	8.7	<25	.1	420	--
26...	1030	644	16	--	6.9	9.0	--	13.1	<25	1.5	480	--
MAR.												
03...	1330	360	20	--	7.1	5.0	--	14.3	<25	.9	780	--
11...	1400	325	29	--	7.3	7.0	--	8.6	<25	.4	360	--
17...	1045	1100	19	--	7.3	9.0	--	11.3	<25	.7	1700	--
APR.												
08...	1115	459	16	--	7.0	11.0	--	10.7	--	--	--	--
17...	1400	370	26	61	7.1	15.0	--	9.1	<25	1.1	30	--
28...	1015	350	21	--	7.1	18.0	--	9.0	<25	.6	330	--
MAY												
06...	1545	360	18	29	6.9	14.0	--	8.7	<25	.5	970	--
12...	1050	375	12	--	6.3	17.0	--	9.1	<25	1.2	1400	--
19...	1000	7960	10	--	6.2	20.0	--	9.5	32	2.1	380	--
22...	1200	340	27	60	6.7	14.0	--	8.9	<25	.5	770	--
28...	1300	413	19	38	7.1	15.0	21	8.9	<25	.1	1300	--
JUNE												
05...	1030	534	21	--	6.3	23.0	--	7.9	<25	1.1	700	--
12...	1030	711	18	41	7.2	21.0	--	7.8	<25	1.2	5800	--
17...	1130	447	19	--	7.3	22.0	--	8.2	<25	.6	870	--
24...	1230	375	16	--	6.6	22.0	--	8.6	<25	1.1	1200	--
30...	1130	360	23	36	7.1	27.0	40	6.9	<25	.4	390	--
JULY												
10...	1100	320	19	--	7.3	25.0	--	7.1	<25	.9	320	--
17...	1100	325	23	39	7.2	22.0	--	7.6	<25	.6	580	--
23...	1130	276	17	43	6.9	23.0	--	7.6	<25	1.1	1100	--
29...	1030	266	26	--	7.2	28.0	--	6.2	<25	.7	7100	--
AUG.												
11...	1300	222	21	42	7.3	28.0	--	6.9	<25	.7	830	--
27...	1030	315	24	--	6.8	24.0	--	7.6	<25	1.4	1200	--
28...	1300	489	--	--	--	24.0	--	7.8	<25	1.9	4200	--
SEP.												
04...	0930	201	14	36	6.9	24.0	--	7.6	<25	.9	28000	--
17...	1445	262	19	--	6.5	19.0	24	8.6	<25	1.3	1400	--
25...	1240	781	--	--	--	19.0	--	8.4	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
CHOWAN RIVER BASIN										
02053021 - JACKS SWAMP NR PLEASANT HILL N C (LAT 36 30 55 LONG 077 32 35)										
JAN., 1975										
13...	1702	5.3	3.1	.8	2.4	2.1	2	--	2	8.2
MAY										
14...	1245	11	1.7	.9	5.7	1.6	9	0	7	5.4
JULY										
14...	1545	5.6	2.2	.8	2.3	1.2	1	0	1	8.5
02053249 - DEEP CREEK AT N C 45 NR COFIELD N C (LAT 36 22 25 LONG 076 56 00)										
JAN., 1975										
13...	1537	4.1	2.0	1.3	3.1	3.2	4	--	3	8.7
ROANOKE RIVER BASIN										
02070806 - HUFFINES MILL CR NR BETHANY N C (LAT 36 20 00 LONG 079 51 26)										
JAN., 1975										
13...	1245	6.0	2.0	.9	1.7	2.6	4	--	3	8.3
JULY										
14...	1205	8.4	3.0	.9	1.7	2.3	7	0	6	5.1
02077629 - MAYO CREEK TRIB NEAR ALLENSVILLE N C (LAT 36 23 55 LONG 078 54 05)										
MAR., 1975										
14...	1045	3.3	2.6	1.2	1.4	2.8	6	--	5	8.8
MAY										
14...	1305	25	3.1	1.5	5.6	.9	22	0	18	1.5
JULY										
14...	1508	7.4	3.1	1.1	2.2	2.8	6	0	5	7.3
02081082 - HARDISON CREEK NR ROBERSON STORE N C (LAT 35 43 20 LONG 076 57 30)										
JAN., 1975										
13...	1340	7.9	2.0	.9	4.0	1.0	0	--	0	9.4
PAMLICO RIVER BASIN										
02082824 - FISHING CREEK NEAR MIDDLEBURG N C (LAT 36 23 06 LONG 078 19 05)										
MAR., 1975										
14...	0930	4.4	2.3	.9	2.1	2.8	5	--	4	8.7
MAY										
14...	1430	19	2.0	.9	5.4	1.4	16	0	13	2.1
JULY										
14...	1145	4.3	2.0	.8	2.0	3.1	4	0	3	8.3

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)
CHOWAN RIVER BASIN--Continued										
02053021 - JACKS SWAMP NR PLEASANT HILL N C (LAT 36 30 55 LONG 077 32 35)										
JAN., 1975										
13...	2.6	.1	.06	.04	.05	.01	.69	.34	.74	.39
MAY										
14...	5.3	.3	--	--	--	--	--	--	--	--
JULY										
14...	1.9	.1	.01	.01	.02	.00	.45	.24	.47	.23
02053249 - DEEP CREEK AT N C 45 NR COFIELD N C (LAT 36 22 25 LONG 076 56 00)										
JAN., 1975										
13...	3.4	.3	--	--	--	--	--	--	--	--
ROANOKE RIVER BASIN--Continued										
02070806 - HUFFINES MILL CR NR BETHANY N C (LAT 36 20 00 LONG 079 51 26)										
JAN., 1975										
13...	2.4	.1	--	--	--	--	--	--	--	--
JULY										
14...	1.3	.0	.19	.18	.06	.00	.44	.21	.50	.29
02077629 - MAYO CREEK TRIB NEAR ALLENSVILLE N C (LAT 36 23 55 LONG 078 54 05)										
MAR., 1975										
14...	2.2	.2	--	--	--	--	--	--	--	--
MAY										
14...	4.0	.1	--	--	--	--	--	--	--	--
JULY										
14...	2.2	.0	.44	.44	.15	.12	.74	.63	.89	.14
02081082 - HARDISON CREEK NR ROBERSON STORE N C (LAT 35 43 20 LONG 076 57 30)										
JAN., 1975										
13...	5.1	.2	.79	.80	.01	.01	.54	.38	.55	.16
PAMLICO RIVER BASIN--Continued										
02082824 - FISHING CREEK NEAR MIDDLEBURG N C (LAT 36 23 06 LONG 078 19 05)										
MAR., 1975										
14...	2.8	.2	--	--	--	--	--	--	--	--
MAY										
14...	3.6	.3	--	--	--	--	--	--	--	--
JULY										
14...	2.2	.3	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
CHOWAN RIVER BASIN--Continued										
02053021 - JACKS SWAMP NR PLEASANT HILL N C (LAT 36 30 55 LONG 077 32 35)										
JAN., 1975										
13...	.35	.80	3.5	.10	.03	.02	.05	.01	21	26
MAY										
14...	--	--	--	--	--	--	--	--	60	36
JULY										
14...	.24	.48	2.1	.06	.00	.01	.03	.00	58	23
02053249 - DEEP CREEK AT N C 45 NR COFIELD N C (LAT 36 22 25 LONG 076 56 00)										
JAN., 1975										
13...	--	--	--	--	--	--	--	--	35	28
ROANOKE RIVER BASIN--Continued										
02070806 - HUFFINES MILL CR NR BETHANY N C (LAT 36 20 00 LONG 079 51 26)										
JAN., 1975										
13...	--	--	--	--	--	--	--	--	46	26
JULY										
14...	.21	.69	3.1	.13	.00	.01	.05	.00	48	27
02077629 - MAYO CREEK TRIB NEAR ALLENSVILLE N C (LAT 36 23 55 LONG 078 54 05)										
MAR., 1975										
14...	--	--	--	--	--	--	--	--	40	25
MAY										
14...	--	--	--	--	--	--	--	--	57	53
JULY										
14...	.75	1.3	5.9	.14	.09	.04	.07	.03	38	31
02081082 - HARDISON CREEK NR ROBERSON STORE N C (LAT 35 43 20 LONG 076 57 30)										
JAN., 1975										
13...	.39	1.3	5.9	.01	.00	.01	.01	.00	37	31
PAMLICO RIVER BASIN--Continued										
02082824 - FISHING CREEK NEAR MIDDLEBURG N C (LAT 36 23 06 LONG 078 19 05)										
MAR., 1975										
14...	--	--	--	--	--	--	--	--	38	27
MAY										
14...	--	--	--	--	--	--	--	--	46	43
JULY										
14...	--	--	--	--	--	--	--	--	58	25

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
CHOWAN RIVER BASIN--Continued										
02053021 - JACKS SWAMP NR PLEASANT HILL N C (LAT 36 30 55 LONG 077 32 35)										
JAN., 1975										
13...	.03	11	9	28	.3	35	5.0	6.5	300	32
MAY										
14...	.08	8	1	55	.9	34	5.8	15.5	200	23
JULY										
14...	.08	9	8	33	.3	35	4.7	--	170	32
02053249 - DEEP CREEK AT N C 45 NR COFIELD N C (LAT 36 22 25 LONG 076 56 00)										
JAN., 1975										
13...	.05	10	7	32	.4	42	5.4	7.5	300	25
ROANOKE RIVER BASIN--Continued										
02070806 - HUFFINES MILL CR NR BETHANY N C (LAT 36 20 00 LONG 079 51 26)										
JAN., 1975										
13...	.06	9	5	24	.3	36	6.0	6.5	500	6.4
JULY										
14...	.07	11	5	21	.2	33	6.2	19.5	100	7.1
02077629 - MAYO CREEK TRIB NEAR ALLENSVILLE N C (LAT 36 23 55 LONG 078 54 05)										
MAR., 1975										
14...	.05	11	7	17	.2	44	6.0	8.5	400	9.6
MAY										
14...	.08	14	0	45	.7	55	6.7	16.0	15	7.0
JULY										
14...	.05	12	7	23	.3	42	6.3	21.5	33	4.8
02081082 - HARDISON CREEK NR ROBERSON STORE N C (LAT 35 43 20 LONG 076 57 30)										
JAN., 1975										
13...	.05	9	9	47	.6	36	4.0	11.5	70	.0
PAMLICO RIVER BASIN--Continued										
02082824 - FISHING CREEK NEAR MIDDLEBURG N C (LAT 36 23 06 LONG 078 19 05)										
MAR., 1975										
14...	.05	9	5	26	.3	41	5.7	8.0	200	16
MAY										
14...	.06	9	0	53	.8	43	6.6	17.0	40	6.4
JULY										
14...	.08	8	5	26	.3	39	5.6	--	230	16

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
PAMLICO RIVER BASIN--Continued										
02082920 - WHITE OAK SWAMP NEAR ACTON N C (LAT 36 09 59 LONG 078 00 05)										
JAN., 1975										
13...	1900	4.8	2.7	1.1	1.5	2.1	4	--	3	7.0
MAY										
14...	1130	22	3.7	2.2	4.5	1.1	28	0	23	1.8
JULY										
14...	1350	4.2	2.6	.9	1.1	1.6	3	0	2	5.7
NEUSE RIVER BASIN										
02086300 - ROCKY CREEK NEAR BAHAMA N C (LAT 36 10 30 LONG 078 49 20)										
MAR., 1975										
14...	1130	3.9	2.3	1.1	1.3	.9	5	--	4	8.1
MAY										
14...	1340	20	6.1	2.9	5.5	.5	32	0	26	2.4
JULY										
14...	1600	6.6	3.0	1.1	1.7	.7	5	0	4	6.9
02087173 - HORSE CREEK TRIB AT SR 1140 NR POCOMOKE N C (LAT 36 02 33 LONG 078 31 03)										
JAN., 1975										
13...	1745	6.4	1.3	.9	1.5	1.6	4	--	3	6.0
MAY										
14...	1530	24	3.1	1.7	4.3	.9	25	0	21	1.0
JULY										
14...	1005	5.7	1.9	1.0	1.0	2.0	3	0	2	4.7
02087499 - NEUSE RIVER TRIB ABOVE SR 1705 NEAR CLAYTON N C (LAT 35 39 05 LONG 078 24 11)										
JAN., 1975										
12...	1300	13	2.7	2.0	4.4	1.1	18	--	15	4.4
MAY										
14...	1030	19	3.8	2.5	4.6	.9	30	0	25	1.8
02088314 - BEAVERDAM CREEK NEAR DOBBERSVILLE N C (LAT 35 17 56 LONG 078 15 57)										
JAN., 1975										
14...	1640	5.2	3.3	1.6	3.4	1.4	2	--	2	5.2
MAY										
14...	1125	6.9	1.8	1.4	3.8	.9	7	0	6	2.3
JULY										
15...	1515	7.5	1.8	1.6	3.9	1.3	2	0	2	7.8
02089168 - MILL CREEK NEAR SEVENS SPRINGS N C (LAT 35 14 14 LONG 077 52 57)										
JAN., 1975										
14...	1528	9.1	2.7	.8	3.0	1.0	1	--	1	9.4
MAY										
14...	1305	8.9	.5	.8	2.4	.7	0	0	0	8.2
JULY										
15...	1400	8.7	1.1	.6	2.5	.7	0	0	0	7.8
02090666 - WHITE OAK SWAMP NEAR MOUNT PLEASANT N C (LAT 35 48 55 LONG 078 04 42)										
JAN., 1975										
13...	2001	3.8	3.3	1.3	3.2	2.1	4	--	3	6.6
MAY										
14...	1030	5.5	1.9	1.3	3.8	.8	8	0	7	1.1
JULY										
14...	1430	4.8	2.4	1.0	3.6	1.6	12	0	10	5.6

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)
PAMLICO RIVER BASIN--Continued										
02082920 - WHITE OAK SWAMP NEAR ACTON N C (LAT 36 09 59 LONG 078 00 05)										
JAN., 1975										
13...	2.4	.2	--	--	--	--	--	--	--	--
MAY										
14...	2.9	.1	--	--	--	--	--	--	--	--
JULY										
14...	1.7	.1	--	--	--	--	--	--	--	--
NEUSE RIVER BASIN--Continued										
02086300 - ROCKY CREEK NEAR BAHAMA N C (LAT 36 10 30 LONG 078 49 20)										
MAR., 1975										
14...	1.9	.2	--	--	--	--	--	--	--	--
MAY										
14...	5.9	.0	--	--	--	--	--	--	--	--
JULY										
14...	1.7	.2	.12	.11	.01	.00	.45	.30	.46	.16
02087173 - HORSE CREEK TRIB AT SR 1140 NR POCOMOKE N C (LAT 36 02 33 LONG 078 31 03)										
JAN., 1975										
13...	1.5	.1	--	--	--	--	--	--	--	--
MAY										
14...	2.5	.2	--	--	--	--	--	--	--	--
JULY										
14...	1.3	.0	.50	.50	.03	.01	.67	.33	.70	.36
02087499 - NEUSE RIVER TRIB ABOVE SR 1705 NEAR CLAYTON N C (LAT 35 39 05 LONG 078 24 11)										
JAN., 1975										
12...	3.8	.1	--	--	--	--	--	--	--	--
MAY										
14...	3.4	.0	--	--	--	--	--	--	--	--
02088314 - BEAVERDAM CREEK NEAR DOBBERSVILLE N C (LAT 35 17 56 LONG 078 15 57)										
JAN., 1975										
14...	6.6	.3	--	--	--	--	--	--	--	--
MAY										
14...	5.8	.3	--	--	--	--	--	--	--	--
JULY										
15...	5.8	.0	.74	.78	.00	.01	.48	.39	.48	.08
02089168 - MILL CREEK NEAR SEVENS SPRINGS N C (LAT 35 14 14 LONG 077 52 57)										
JAN., 1975										
14...	3.8	.0	.09	.09	.01	.01	.24	.00	.25	.25
MAY										
14...	3.5	.0	--	--	--	--	--	--	--	--
JULY										
15...	3.1	.1	.07	.07	.00	.01	.10	.09	.10	.00
02090666 - WHITE OAK SWAMP NEAR MOUNT PLEASANT N C (LAT 35 48 55 LONG 078 04 42)										
JAN., 1975										
13...	6.2	.1	.97	.97	.04	.02	.96	.53	1.0	.45
MAY										
14...	4.4	.2	--	--	--	--	--	--	--	--
JULY										
14...	3.7	.1	.81	.74	.03	.01	.88	.74	.91	.16

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
PAMLICO RIVER BASIN--Continued										
02082920 - WHITE OAK SWAMP NEAR ACTON N C (LAT 36 09 59 LONG 078 00 05)										
JAN., 1975										
13...	--	--	--	--	--	--	--	--	29	24
MAY										
14...	--	--	--	--	--	--	--	--	57	52
JULY										
14...	--	--	--	--	--	--	--	--	70	19
NEUSE RIVER BASIN--Continued										
02086300 - ROCKY CREEK NEAR BAHAMA N C (LAT 36 10 30 LONG 078 49 20)										
MAR., 1975										
14...	--	--	--	--	--	--	--	--	40	22
MAY										
14...	--	--	--	--	--	--	--	--	62	59
JULY										
14...	.30	.58	2.6	.03	.00	.01	.01	.00	44	24
02087173 - HORSE CREEK TRIB AT SR 1140 NR POCOMOKE N C (LAT 36 02 33 LONG 078 31 03)										
JAN., 1975										
13...	--	--	--	--	--	--	--	--	15	21
MAY										
14...	--	--	--	--	--	--	--	--	51	50
JULY										
14...	.34	1.2	5.3	.08	.00	.01	.02	.00	44	19
02087499 - NEUSE RIVER TRIB ABOVE SR 1705 NEAR CLAYTON N C (LAT 35 39 05 LONG 078 24 11)										
JAN., 1975										
12...	--	--	--	--	--	--	--	--	28	40
MAY										
14...	--	--	--	--	--	--	--	--	57	51
02088314 - BEAVERDAM CREEK NEAR DOBBERSVILLE N C (LAT 35 17 56 LONG 078 15 57)										
JAN., 1975										
14...	--	--	--	--	--	--	--	--	34	28
MAY										
14...	--	--	--	--	--	--	--	--	45	27
JULY										
15...	.40	1.2	5.4	.02	.00	.01	.01	.00	57	34
02089168 - MILL CREEK NEAR SEVENS SPRINGS N C (LAT 35 14 14 LONG 077 52 57)										
JAN., 1975										
14...	.00	.34	1.5	.04	.00	.00	.00	.00	30	30
MAY										
14...	--	--	--	--	--	--	--	--	30	25
JULY										
15...	.10	.17	.75	.01	.00	.00	.00	.00	52	25
02090666 - WHITE OAK SWAMP NEAR MOUNT PLEASANT N C (LAT 35 48 55 LONG 078 04 42)										
JAN., 1975										
13...	.55	2.0	8.7	.15	.06	.04	.05	.02	19	29
MAY										
14...	--	--	--	--	--	--	--	--	49	23
JULY										
14...	.75	1.7	7.6	.11	.06	.04	.05	.02	54	29

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
PAMLICO RIVER BASIN--Continued										
02082920 - WHITE OAK SWAMP NEAR ACTON N C (LAT 36 09 59 LONG 078 00 05)										
JAN., 1975										
13...	.04	11	8	19	.2	32	5.6	6.5	300	16
MAY										
14...	.08	18	0	33	.5	54	6.6	15.0	15	11
JULY										
14...	.10	10	8	16	.2	27	5.4	--	220	19
NEUSE RIVER BASIN--Continued										
02086300 - ROCKY CREEK NEAR BAHAMA N C (LAT 36 10 30 LONG 078 49 20)										
MAR., 1975										
14...	.05	10	6	20	.2	31	5.6	8.0	100	20
MAY										
14...	.08	27	1	30	.5	75	6.7	17.0	25	10
JULY										
14...	.06	12	8	22	.2	33	5.6	21.0	150	20
02087173 - HORSE CREEK TRIB AT SR 1140 NR POCOMOKE N C (LAT 36 02 33 LONG 078 31 03)										
JAN., 1975										
13...	.02	7	4	27	.2	29	5.8	8.5	200	10
MAY										
14...	.07	15	0	37	.5	47	6.8	18.0	19	6.3
JULY										
14...	.06	9	6	16	.1	28	5.6	--	53	12
02087499 - NEUSE RIVER TRIB ABOVE SR 1705 NEAR CLAYTON N C (LAT 35 39 05 LONG 078 24 11)										
JAN., 1975										
12...	.04	15	0	37	.5	55	6.4	10.0	30	11
MAY										
14...	.08	20	0	32	.5	60	7.1	15.0	11	3.8
02088314 - BEAVERDAM CREEK NEAR DOBBERSVILLE N C (LAT 35 17 56 LONG 078 15 57)										
JAN., 1975										
14...	.05	15	13	31	.4	49	5.1	6.5	60	25
MAY										
14...	.06	10	5	42	.5	38	5.9	17.0	20	14
JULY										
15...	.08	11	9	40	.5	51	4.9	23.5	85	40
02089168 - MILL CREEK NEAR SEVENS SPRINGS N C (LAT 35 14 14 LONG 077 52 57)										
JAN., 1975										
14...	.04	10	9	37	.4	44	4.6	9.5	0	40
MAY										
14...	.04	5	5	49	.5	44	4.2	16.0	1	.0
JULY										
15...	.07	5	5	47	.5	48	4.0	21.0	15	.0
02090666 - WHITE OAK SWAMP NEAR MOUNT PLEASANT N C (LAT 35 48 55 LONG 078 04 42)										
JAN., 1975										
13...	.03	14	10	30	.4	48	5.5	8.0	90	20
MAY										
14...	.07	10	4	43	.5	40	6.2	16.0	40	8.1
JULY										
14...	.07	10	0	39	.5	41	5.9	--	40	24

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
NEUSE RIVER BASIN--Continued										
02091476 - RAINBOW CREEK AT US 258 NEAR BROWNTOWN N C (LAT 35 24 00 LONG 077 34 50)										
JAN., 1975										
13...	1125	6.1	2.7	1.3	3.4	1.8	1	--	1	11
MAY										
14...	1405	9.6	1.7	1.1	3.5	1.7	6	0	5	5.3
JULY										
15...	1130	13	9.1	3.0	5.3	2.3	0	0	0	36
02091949 - CLAYFOOT SWAMP NEAR SHELMERDINE N C (LAT 35 27 16 LONG 077 13 12)										
JAN., 1975										
13...	1235	9.4	2.0	.8	3.9	.4	1	--	1	5.7
02092551 - CROOKED RUN AT SR 1123 NEAR TRENTON N C (LAT 35 02 25 LONG 077 22 07)										
JAN., 1975										
14...	1135	5.6	1.2	.5	2.6	.1	0	--	0	9.9
JULY										
15...	1245	5.7	1.6	.5	2.5	.4	0	0	0	12
02092569 - BRICE CREEK AT SR 1100 AT CROATAN N C (LAT 34 57 56 LONG 076 58 26)										
JAN., 1975										
14...	1245	5.6	2.7	.9	3.8	.3	0	--	0	9.6
CAPE FEAR RIVER BASIN										
02096845 - CANE CREEK NEAR BUCKHORN N C (LAT 36 01 19 LONG 079 10 29)										
JAN., 1975										
12...	1630	8.6	3.3	1.1	2.5	.4	6	--	5	6.2
MAY										
14...	1430	19	4.7	2.0	4.2	.3	32	0	26	.9
JULY										
14...	1335	7.8	3.1	1.0	1.6	.3	6	0	5	5.5
02096975 - WARD CREEK NEAR BYNUM N C (LAT 35 46 40 LONG 079 05 44)										
JAN., 1975										
13...	1000	6.6	2.7	1.1	2.1	1.0	6	--	5	6.5
MAY										
14...	1530	29	5.2	2.4	6.7	.7	39	0	32	1.1
JULY										
14...	1055	5.9	2.8	1.1	2.0	.7	5	0	4	5.7
02097715 - NEW HOPE CR TRIB AT SR 1715 NR FARRINGTON N C (LAT 35 47 08 LONG 079 01 50)										
MAR., 1975										
14...	1400	6.8	2.6	.7	1.8	.3	6	--	5	7.8
MAY										
14...	1600	22	4.1	2.0	6.6	.3	29	0	24	1.2
JULY										
14...	1210	8.8	3.2	1.1	2.4	.3	6	0	5	5.5
02100459 - SANDY CREEK AT MELANCTON N C (LAT 35 50 40 LONG 079 39 40)										
MAY , 1975										
14...	1120	22	4.8	2.6	4.7	.6	32	0	26	1.9
JULY										
14...	1630	6.6	4.0	1.6	1.4	2.7	12	0	10	5.8

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)
NEUSE RIVER BASIN--Continued										
02091476 - RAINBOW CREEK AT US 258 NEAR BROWNTOWN N C (LAT 35 24 00 LONG 077 34 50)										
JAN., 1975										
13...	6.3	.2	.52	.52	.19	.18	.74	.51	.93	.24
MAY										
14...	5.4	.3	--	--	--	--	--	--	--	--
JULY										
15...	6.4	.2	.39	.39	.49	.48	.51	.07	1.0	.45
02091949 - CLAYFOOT SWAMP NEAR SHELMERDINE N C (LAT 35 27 16 LONG 077 13 12)										
JAN., 1975										
13...	5.7	.1	--	--	--	--	--	--	--	--
02092551 - CROOKED RUN AT SR 1123 NEAR TRENTON N C (LAT 35 02 25 LONG 077 22 07)										
JAN., 1975										
14...	4.5	.5	.01	.00	.01	.01	.50	.39	.51	.11
JULY										
15...	11	.2	--	--	--	--	--	--	--	--
02092569 - BRICE CREEK AT SR 1100 AT CROATAN N C (LAT 34 57 56 LONG 076 58 26)										
JAN., 1975										
14...	6.4	.2	--	--	--	--	--	--	--	--
CAPE FEAR RIVER BASIN--Continued										
02096845 - CANE CREEK NEAR BUCKHORN N C (LAT 36 01 19 LONG 079 10 29)										
JAN., 1975										
12...	2.0	.1	.01	.01	.01	.00	.35	.23	.36	.13
MAY										
14...	2.8	.0	--	--	--	--	--	--	--	--
JULY										
14...	1.4	.2	--	--	--	--	--	--	--	--
02096975 - WARD CREEK NEAR BYNUM N C (LAT 35 46 40 LONG 079 05 44)										
JAN., 1975										
13...	2.2	.1	--	--	--	--	--	--	--	--
MAY										
14...	4.3	.1	--	--	--	--	--	--	--	--
JULY										
14...	1.4	.1	--	--	--	--	--	--	--	--
02097715 - NEW HOPE CR TRIB AT SR 1715 NR FARRINGTON N C (LAT 35 47 08 LONG 079 01 50)										
MAR., 1975										
14...	2.1	.1	--	--	--	--	--	--	--	--
MAY										
14...	7.4	.1	--	--	--	--	--	--	--	--
JULY										
14...	1.8	.2	.01	.01	.01	.00	.35	.30	.36	.06
02100459 - SANDY CREEK AT MELANCTON N C (LAT 35 50 40 LONG 079 39 40)										
MAY , 1975										
14...	3.1	.0	--	--	--	--	--	--	--	--
JULY										
14...	1.7	.1	--	--	--	--	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
NEUSE RIVER BASIN--Continued										
02091476 - RAINBOW CREEK AT US 258 NEAR BROWNTOWN N C (LAT 35 24 00 LONG 077 34 50)										
JAN., 1975										
13...	.69	1.5	6.4	.19	.34	.13	.12	.11	26	33
MAY										
14...	--	--	--	--	--	--	--	--	52	32
JULY										
15...	.55	1.4	6.2	.15	.15	.06	.08	.05	104	76
02091949 - CLAYFOOT SWAMP NEAR SHELMERDINE N C (LAT 35 27 16 LONG 077 13 12)										
JAN., 1975										
13...	--	--	--	--	--	--	--	--	27	29
02092551 - CROOKED RUN AT SR 1123 NEAR TRENTON N C (LAT 35 02 25 LONG 077 22 07)										
JAN., 1975										
14...	.40	.52	2.3	.02	.06	.03	.02	.02	40	25
JULY										
15...	--	--	--	--	--	--	--	--	76	34
02092569 - BRICE CREEK AT SR 1100 AT CROATAN N C (LAT 34 57 56 LONG 076 58 26)										
JAN., 1975										
14...	--	--	--	--	--	--	--	--	33	30
CAPE FEAR RIVER BASIN--Continued										
02096845 - CANE CREEK NEAR BUCKHORN N C (LAT 36 01 19 LONG 079 10 29)										
JAN., 1975										
12...	.23	.37	1.6	.03	.00	.01	.01	.00	23	27
MAY										
14...	--	--	--	--	--	--	--	--	49	50
JULY										
14...	--	--	--	--	--	--	--	--	75	24
02096975 - WARD CREEK NEAR BYNUM N C (LAT 35 46 40 LONG 079 05 44)										
JAN., 1975										
13...	--	--	--	--	--	--	--	--	13	25
MAY										
14...	--	--	--	--	--	--	--	--	69	69
JULY										
14...	--	--	--	--	--	--	--	--	17	22
02097715 - NEW HOPE CR TRIB AT SR 1715 NR FARRINGTON N C (LAT 35 47 08 LONG 079 01 50)										
MAR., 1975										
14...	--	--	--	--	--	--	--	--	48	25
MAY										
14...	--	--	--	--	--	--	--	--	73	58
JULY										
14...	.30	.37	1.6	.02	.00	.00	.01	.00	66	26
02100459 - SANDY CREEK AT MELANCTON N C (LAT 35 50 40 LONG 079 39 40)										
MAY , 1975										
14...	--	--	--	--	--	--	--	--	58	55
JULY										
14...	--	--	--	--	--	--	--	--	30	30

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
NEUSE RIVER BASIN--Continued										
02091476 - RAINBOW CREEK AT US 258 NEAR BROWNTOWN N C (LAT 35 24 00 LONG 077 34 50)										
JAN., 1975										
13...	.04	12	11	34	.4	57	4.8	12.0	100	25
MAY										
14...	.07	9	4	41	.5	44	5.6	18.0	90	24
JULY										
15...	.14	35	35	23	.4	128	4.4	22.0	30	.0
02091949 - CLAYFOOT SWAMP NEAR SHELMERDINE N C (LAT 35 27 16 LONG 077 13 12)										
JAN., 1975										
13...	.04	8	7	49	.6	45	4.7	12.5	60	32
02092551 - CROOKED RUN AT SR 1123 NEAR TRENTON N C (LAT 35 02 25 LONG 077 22 07)										
JAN., 1975										
14...	.05	5	5	52	.5	73	4.0	8.5	200	.0
JULY										
15...	.10	6	6	45	.4	70	3.8	23.0	140	.0
02092569 - BRICE CREEK AT SR 1100 AT CROATAN N C (LAT 34 57 56 LONG 076 58 26)										
JAN., 1975										
14...	.04	10	10	43	.5	59	4.1	9.5	100	.0
CAPE FEAR RIVER BASIN--Continued										
02096845 - CANE CREEK NEAR BUCKHORN N C (LAT 36 01 19 LONG 079 10 29)										
JAN., 1975										
12...	.03	13	8	29	.3	36	6.2	9.0	100	6.1
MAY										
14...	.07	20	0	31	.4	59	6.8	18.0	15	8.1
JULY										
14...	.10	12	7	22	.2	31	5.9	20.5	110	12
02096975 - WARD CREEK NEAR BYNUM N C (LAT 35 46 40 LONG 079 05 44)										
JAN., 1975										
13...	.02	11	6	27	.3	35	5.9	10.0	100	12
MAY										
14...	.09	23	0	38	.6	74	7.0	17.0	23	6.2
JULY										
14...	.02	12	7	26	.3	32	5.7	22.0	100	16
02097715 - NEW HOPE CR TRIB AT SR 1715 NR FARRINGTON N C (LAT 35 47 08 LONG 079 01 50)										
MAR., 1975										
14...	.07	9	4	29	.3	30	5.9	9.5	100	12
MAY										
14...	.10	18	0	43	.7	70	6.8	17.0	15	7.4
JULY										
14...	.04	13	8	29	.3	32	5.9	21.5	100	12
02100459 - SANDY CREEK AT MELANCTON N C (LAT 35 50 40 LONG 079 39 40)										
MAY , 1975										
14...	.08	23	0	30	.4	63	6.9	16.0	9	6.4
JULY										
14...	.04	17	7	13	.2	45	6.8	20.5	230	3.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
CAPE FEAR RIVER BASIN--Continued										
02100749 - DEEP RIVER TRIB #4 NEAR JUGTOWN N C (LAT 35 29 10 LONG 079 36 13)										
JAN., 1975										
12...	1620	6.8	2.7	2.0	5.3	2.8	13	--	11	10
MAY										
14...	1210	14	7.1	3.1	8.0	1.9	42	0	34	2.3
JULY										
15...	1320	6.6	4.3	1.5	3.0	2.0	8	0	7	7.4
02101357 - BIG GOVERNORS CR AT SR 1660 NR CARTHAGE N C (LAT 35 23 10 LONG 079 19 27)										
MAR., 1975										
14...	1230	5.0	2.4	.8	1.4	1.0	6	--	5	6.8
MAY										
14...	1120	12	5.6	2.9	4.8	1.0	35	0	29	1.8
JULY										
15...	1450	9.5	3.3	1.3	2.5	1.2	8	0	7	4.9
02102908 - FLAT CREEK NEAR INVERNESS N C (LAT 35 10 54 LONG 079 10 40)										
JAN., 1975										
13...	1100	3.8	.7	.3	.7	.4	0	--	0	3.2
MAY										
14...	1448	4.0	.4	.5	.5	1.1	1	0	1	1.3
JULY										
15...	1100	5.3	.8	.3	.9	.1	2	0	2	1.9
02107154 - SOUTH RIVER TRIB AT N C 41 AT TOMAHAWK N C (LAT 34 42 15 LONG 078 20 25)										
JAN., 1975										
13...	1520	4.8	1.3	.5	1.4	.3	0	--	0	7.6
JULY										
15...	1112	5.8	.9	.5	1.6	.4	0	0	0	8.8
02108608 - LILLINGTON CREEK NEAR ST HELENA N C (LAT 34 30 27 LONG 077 48 57)										
JAN., 1975										
13...	1700	4.5	4.0	.8	3.2	.5	1	--	1	8.5
JULY										
15...	1300	4.2	3.7	.7	2.7	.3	1	0	1	10
WACCAMAW RIVER BASIN										
02109481 - JUNIPER CREEK AT N C 211 NEAR PROSPECT N C (LAT 34 06 07 LONG 078 18 25)										
JAN., 1975										
14...	0840	2.0	.5	.3	2.5	.0	0	--	0	9.2
JULY										
15...	1430	1.3	3.3	.3	1.7	.8	0	0	0	8.5
PEE DEE RIVER BASIN										
02112202 - GRAYS CREEK NEAR CLINGMAN N C (LAT 36 10 27 LONG 080 58 03)										
JAN., 1975										
12...	1230	10	2.0	1.3	2.1	2.1	8	--	7	2.7

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)
CAPE FEAR RIVER BASIN--Continued										
02100749 - DEEP RIVER TRIB #4 NEAR JUGTOWN N C (LAT 35 29 10 LONG 079 36 13)										
JAN., 1975										
12...	6.9	.2	--	--	--	--	--	--	--	--
MAY										
14...	8.1	.2	--	--	--	--	--	--	--	--
JULY										
15...	2.9	.2	.44	.46	.03	.00	.85	.66	.88	.22
02101357 - BIG GOVERNORS CR AT SR 1660 NR CARTHAGE N C (LAT 35 23 10 LONG 079 19 27)										
MAR., 1975										
14...	2.3	.1	--	--	--	--	--	--	--	--
MAY										
14...	5.4	.0	--	--	--	--	--	--	--	--
JULY										
15...	2.5	.1	--	--	--	--	--	--	--	--
02102908 - FLAT CREEK NEAR INVERNESS N C (LAT 35 10 54 LONG 079 10 40)										
JAN., 1975										
13...	1.5	.1	--	--	--	--	--	--	--	--
MAY										
14...	1.2	.2	--	--	--	--	--	--	--	--
JULY										
15...	1.4	.0	.01	.02	.00	.00	.21	.12	.21	.09
02107154 - SOUTH RIVER TRIB AT N C 41 AT TOMAHAWK N C (LAT 34 42 15 LONG 078 20 25)										
JAN., 1975										
13...	4.3	.2	--	--	--	--	--	--	--	--
JULY										
15...	3.6	.3	.01	.01	.04	.01	.48	.41	.52	.10
02108608 - LILLINGTON CREEK NEAR ST HELENA N C (LAT 34 30 27 LONG 077 48 57)										
JAN., 1975										
13...	6.0	.3	.04	.03	.02	.01	.54	.52	.56	.03
JULY										
15...	5.3	.4	--	--	--	--	--	--	--	--
WACCAMAW RIVER BASIN--Continued										
02109481 - JUNIPER CREEK AT N C 211 NEAR PROSPECT N C (LAT 34 06 07 LONG 078 18 25)										
JAN., 1975										
14...	5.4	.3	--	--	--	--	--	--	--	--
JULY										
15...	5.4	.3	.01	.01	.01	.01	.44	.47	.45	.00
PEE DEE RIVER BASIN--Continued										
02112202 - GRAYS CREEK NEAR CLINGMAN N C (LAT 36 10 27 LONG 080 58 03)										
JAN., 1975										
12...	2.5	.1	--	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
CAPE FEAR RIVER BASIN--Continued										
02100749 - DEEP RIVER TRIB #4 NEAR JUGTOWN N C (LAT 35 29 10 LONG 079 36 13)										
JAN., 1975										
12...	--	--	--	--	--	--	--	--	54	43
MAY										
14...	--	--	--	--	--	--	--	--	71	65
JULY										
15...	.66	1.3	5.8	.20	.43	.17	.17	.14	52	32
02101357 - BIG GOVERNORS CK AT SR 1660 NR CARTHAGE N C (LAT 35 23 10 LONG 079 19 27)										
MAR., 1975										
14...	--	--	--	--	--	--	--	--	27	23
MAY										
14...	--	--	--	--	--	--	--	--	60	51
JULY										
15...	--	--	--	--	--	--	--	--	77	29
02102908 - FLAT CREEK NEAR INVERNESS N C (LAT 35 10 54 LONG 079 10 40)										
JAN., 1975										
13...	--	--	--	--	--	--	--	--	14	11
MAY										
14...	--	--	--	--	--	--	--	--	24	10
JULY										
15...	.12	.22	.97	.01	.00	.01	.00	.00	7	12
02107154 - SOUTH RIVER TRIB AT N C 41 AT TOMAHAWK N C (LAT 34 42 15 LONG 078 20 25)										
JAN., 1975										
13...	--	--	--	--	--	--	--	--	30	21
JULY										
15...	.42	.53	2.3	.02	.00	.01	.01	.00	46	22
02108608 - LILLINGTON CREEK NEAR ST HELENA N C (LAT 34 30 27 LONG 077 48 57)										
JAN., 1975										
13...	.53	.60	2.7	.04	.03	.02	.02	.01	26	28
JULY										
15...	--	--	--	--	--	--	--	--	71	28
WACCAMAW RIVER BASIN--Continued										
02109481 - JUNIPER CREEK AT N C 211 NEAR PROSPECT N C (LAT 34 06 07 LONG 078 18 25)										
JAN., 1975										
14...	--	--	--	--	--	--	--	--	38	21
JULY										
15...	.48	.46	2.0	.01	.00	.01	.01	.00	71	22
PEE DEE RIVER BASIN--Continued										
02112202 - GRAYS CREEK NEAR CLINGMAN N C (LAT 36 10 27 LONG 080 58 03)										
JAN., 1975										
12...	--	--	--	--	--	--	--	--	22	27

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
CAPE FEAR RIVER BASIN--Continued										
02100749 - DEEP RIVER TRIB #4 NEAR JUGTOWN N C (LAT 35 29 10 LONG 079 36 13)										
JAN., 1975										
12...	.07	15	4	38	.6	72	6.4	--	200	8.3
MAY										
14...	.10	31	0	35	.6	100	7.3	16.5	40	3.4
JULY										
15...	.07	17	10	25	.3	47	5.9	21.0	250	16
02101357 - BIG GOVERNORS CR AT SR 1660 NR CARTHAGE N C (LAT 35 23 10 LONG 079 19 27)										
MAR., 1975										
14...	.04	9	4	22	.2	31	5.6	10.5	100	24
MAY										
14...	.08	26	0	28	.4	76	6.7	16.0	48	11
JULY										
15...	.10	14	7	26	.3	37	6.1	21.5	140	10
02102908 - FLAT CREEK NEAR INVERNESS N C (LAT 35 10 54 LONG 079 10 40)										
JAN., 1975										
13...	.02	3	3	30	.2	23	4.3	10.5	90	.0
MAY										
14...	.03	3	2	20	.1	9	4.7	16.0	48	32
JULY										
15...	.01	3	2	37	.2	16	4.4	21.0	50	127
02107154 - SOUTH RIVER TRIB AT N C 41 AT TOMAHAWK N C (LAT 34 42 15 LONG 078 20 25)										
JAN., 1975										
13...	.04	5	5	35	.3	53	3.8	11.0	200	.0
JULY										
15...	.06	4	4	42	.3	56	3.9	23.0	250	.0
02108608 - LILLINGTON CREEK NEAR ST HELENA N C (LAT 34 30 27 LONG 077 48 57)										
JAN., 1975										
13...	.04	13	12	33	.4	42	4.7	12.5	400	32
JULY										
15...	.10	12	11	32	.3	44	4.3	23.5	350	80
WACCAMAW RIVER BASIN--Continued										
02109481 - JUNIPER CREEK AT N C 211 NEAR PROSPECT N C (LAT 34 06 07 LONG 078 18 25)										
JAN., 1975										
14...	.05	2	2	69	.7	61	3.8	10.0	200	.0
JULY										
15...	.10	9	9	26	.2	50	3.8	24.0	150	.0
PEE DEE RIVER BASIN--Continued										
02112202 - GRAYS CREEK NEAR CLINGMAN N C (LAT 36 10 27 LONG 080 58 03)										
JAN., 1975										
12...	.03	10	4	26	.3	42	6.3	8.5	50	6.4

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
PEE DEE RIVER BASIN--Continued										
02112401 - ENDICOTT CREEK NEAR BLEVINS STORE N C (LAT 36 28 15 LONG 080 50 06)										
JAN., 1975										
13...	1720	8.3	.6	.9	1.3	.4	8	--	7	.8
02114256 - EAST PRONG LITTLE YADKIN R TRIB NEAR CAPELLA N C (LAT 36 21 49 LONG 080 21 08)										
JAN., 1975										
13...	1900	11	3.3	.9	1.9	1.4	8	--	7	5.6
JULY										
14...	1300	17	2.7	.9	2.5	1.7	15	0	12	2.5
02115496 - LITTLE FORBUSH CREEK NEAR FORBUSH N C (LAT 36 11 13 LONG 080 34 59)										
JAN., 1975										
12...	1130	13	4.7	1.9	2.9	2.2	20	--	16	6.0
02115946 - FRYES CREEK TRIB AT SR 1506 NEAR MIDWAY N C (LAT 35 57 30 LONG 080 14 32)										
JAN., 1975										
12...	1450	11	4.7	2.0	3.3	3.5	16	--	13	9.1
JULY										
14...	1430	10	3.8	1.8	2.7	3.6	15	0	12	7.4
02117485 - OLIN CREEK AT SR 1868 NEAR UNION GROVE N C (LAT 35 59 15 LONG 080 55 16)										
JAN., 1975										
12...	1320	7.7	1.7	1.3	1.3	1.1	8	--	7	3.0
02124193 - PARK CREEK AT SR 1614 NEAR KANNAPOLIS N C (LAT 35 29 53 LONG 080 42 58)										
JAN., 1975										
13...	1600	12	5.0	2.0	3.0	3.1	16	--	13	10

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)
PEE DEE RIVER BASIN--Continued										
02112401 - ENDICOTT CREEK NEAR BLEVINS STORE N C (LAT 36 28 15 LONG 080 50 06)										
JAN., 1975										
13...	.6	.0	--	--	--	--	--	--	--	--
02114256 - EAST PRONG LITTLE YADKIN R TRIB NEAR CAPELLA N C (LAT 36 21 49 LONG 080 21 08)										
JAN., 1975										
13...	1.9	.0	.09	.09	.01	.00	.21	.15	.22	.07
JULY										
14...	1.4	.0	--	--	--	--	--	--	--	--
02115496 - LITTLE FORBUSH CREEK NEAR FORBUSH N C (LAT 36 11 13 LONG 080 34 59)										
JAN., 1975										
12...	2.9	.0	--	--	--	--	--	--	--	--
02115946 - FRYES CREEK TRIB AT SR 1506 NEAR MIDWAY N C (LAT 35 57 30 LONG 080 14 32)										
JAN., 1975										
12...	3.2	.1	.29	.32	.14	.01	.74	.25	.88	.62
JULY										
14...	2.3	.0	.42	.42	.25	.15	.72	.21	.97	.61
02117485 - OLIN CREEK AT SR 1868 NEAR UNION GROVE N C (LAT 35 59 15 LONG 080 55 16)										
JAN., 1975										
12...	1.8	.1	.28	.23	.01	.12	.02	.00	.03	.00
02124193 - PARK CREEK AT SR 1614 NEAR KANNAPOLIS N C (LAT 35 29 53 LONG 080 42 58)										
JAN., 1975										
13...	2.9	.0	.57	.55	.05	.00	.63	.33	.68	.35

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
PEE DEE RIVER BASIN--Continued										
02112401 - ENDICOTT CREEK NEAR BLEVINS STORE N C (LAT 36 28 15 LONG 080 50 06)										
JAN., 1975 13...	--	--	--	--	--	--	--	--	8	17
02114256 - EAST PRONG LITTLE YADKIN R TRIB NEAR CAPELLA N C (LAT 36 21 49 LONG 080 21 08)										
JAN., 1975 13...	.15	.31	1.4	.03	.03	.01	.01	.01	36	30
JULY 14...	--	--	--	--	--	--	--	--	62	36
02115496 - LITTLE FORBUSH CREEK NEAR FORBUSH N C (LAT 36 11 13 LONG 080 34 59)										
JAN., 1975 12...	--	--	--	--	--	--	--	--	37	43
02115946 - FRYES CREEK TRIB AT SR 1506 NEAR MIDWAY N C (LAT 35 57 30 LONG 080 14 32)										
JAN., 1975 12...	.26	1.2	5.2	.24	.03	.02	.14	.01	39	45
JULY 14...	.36	1.4	6.2	.30	.00	.01	.11	.00	52	39
02117485 - OLIN CREEK AT SR 1868 NEAR UNION GROVE N C (LAT 35 59 15 LONG 080 55 16)										
JAN., 1975 12...	.04	.31	1.4	.02	.03	.01	.01	.01	27	22
02124193 - PARK CREEK AT SR 1614 NEAR KANNAPOLIS N C (LAT 35 29 53 LONG 080 42 58)										
JAN., 1975 13...	.33	1.3	5.5	.12	.03	.03	.05	.01	40	46

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
PEE DEE RIVER BASIN--Continued										
02112401 - ENDICOTT CREEK NEAR BLEVINS STORE N C (LAT 36 28 15 LONG 080 50 06)										
JAN., 1975										
13...	.01	5	0	33	.2	16	6.3	5.0	6	6.4
02114256 - EAST PRONG LITTLE YADKIN R TRIB NEAR CAPELLA N C (LAT 36 21 49 LONG 080 21 08)										
JAN., 1975										
13...	.05	12	5	23	.2	42	6.8	6.0	50	2.0
JULY										
14...	.08	10	0	30	.3	33	6.5	18.5	55	7.6
02115496 - LITTLE FORBUSH CREEK NEAR FORBUSH N C (LAT 36 11 13 LONG 080 34 59)										
JAN., 1975										
12...	.05	20	3	22	.3	60	6.6	8.0	300	8.0
02115946 - FRYES CREEK TRIB AT SR 1506 NEAR MIDWAY N C (LAT 35 57 30 LONG 080 14 32)										
JAN., 1975										
12...	.05	20	7	23	.3	59	6.1	8.5	900	20
JULY										
14...	.07	17	5	21	.3	54	6.2	21.0	900	15
02117485 - OLIN CREEK AT SR 1868 NEAR UNION GROVE N C (LAT 35 59 15 LONG 080 55 16)										
JAN., 1975										
12...	.04	10	3	20	.2	27	6.3	8.0	100	6.4
02124193 - PARK CREEK AT SR 1614 NEAR KANNAPOLIS N C (LAT 35 29 53 LONG 080 42 58)										
JAN., 1975										
13...	.05	21	8	21	.3	61	6.5	8.0	300	8.1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
PEE DEE RIVER BASIN--Continued										
02129028 - BONES FORK CREEK NEAR HOFFMAN N C (LAT 35 01 26 LONG 079 38 02)										
JAN., 1975										
13...	1205	4.5	.0	.5	1.0	.1	0	--	0	3.4
MAY										
14...	1345	3.6	.5	.6	.8	.2	1	0	1	1.1
JULY										
15...	1200	4.6	3.6	.6	.8	.2	3	0	2	4.2
SANTEE RIVER BASIN										
02142122 - LOWER LITTLE R TRIB AT SR 1124 NR TAYLORSVILLE N (LAT 35 53 24 LONG 081 13 52)										
JAN., 1975										
13...	1445	8.6	1.1	.7	1.2	.9	4	--	3	2.1
02142692 - KILLIAN CREEK AT SR 1349 NEAR DENVER N C (LAT 35 32 10 LONG 080 03 13)										
JAN., 1975										
13...	1700	10	2.7	1.4	2.2	2.4	15	--	12	6.4
02142988 - HENRY FORK TRIB AT SR 1924 NR PLEASANT GROVE N C (LAT 35 39 07 LONG 081 36 28)										
JAN., 1975										
14...	1200	6.4	.5	.5	.9	.7	4	--	3	2.2
02149716 - SILVER CREEK NEAR MILL SPRING N C (LAT 35 18 35 LONG 082 12 10)										
JAN., 1975										
14...	1000	15	2.9	1.4	2.5	.7	16	--	13	2.3
02152514 - LITTLE HARRIS CREEK AT SR 1821 NEAR CAMPBELL N C (LAT 35 22 34 LONG 081 35 45)										
JAN., 1975										
14...	0800	8.5	2.4	1.1	1.5	1.7	8	--	7	3.8

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)
PEE DEE RIVER BASIN--Continued										
02129028 - BONES FORK CREEK NEAR HOFFMAN N C (LAT 35 01 26 LONG 079 38 02)										
JAN., 1975										
13...	2.5	.3	.05	.05	.01	.01	.31	.11	.32	.20
MAY										
14...	2.1	.0	--	--	--	--	--	--	--	--
JULY										
15...	2.2	.0	--	--	--	--	--	--	--	--
SANTEE RIVER BASIN--Continued										
02142122 - LOWER LITTLE R TRIB AT SR 1124 NR TAYLORSVILLE N (LAT 35 53 24 LONG 081 13 52)										
JAN., 1975										
13...	1.9	.0	.08	.08	.01	.01	.06	.03	.07	.03
02142692 - KILLIAN CREEK AT SR 1349 NEAR DENVER N C (LAT 35 32 10 LONG 080 03 13)										
JAN., 1975										
13...	2.6	.1	--	--	--	--	--	--	--	--
02142988 - HENRY FORK TRIB AT SR 1924 NR PLEASANT GROVE N C (LAT 35 39 07 LONG 081 36 28)										
JAN., 1975										
14...	.9	.0	.06	.04	.00	.01	.05	.07	.05	.00
02149716 - SILVER CREEK NEAR MILL SPRING N C (LAT 35 18 35 LONG 082 12 10)										
JAN., 1975										
14...	1.1	.0	--	--	--	--	--	--	--	--
02152514 - LITTLE HARRIS CREEK AT SR 1821 NEAR CAMPBELL N C (LAT 35 22 34 LONG 081 35 45)										
JAN., 1975										
14...	2.7	.0	.46	.45	.02	.01	.15	.09	.17	.07

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
PEE DEE RIVER BASIN--Continued										
02129028 - BONES FORK CREEK NEAR HUFFMAN N C (LAT 35 01 26 LONG 079 38 02)										
JAN., 1975										
13...	.12	.37	1.6	.01	.00	.01	.00	.00	12	13
MAY										
14...	--	--	--	--	--	--	--	--	20	9
JULY										
15...	--	--	--	--	--	--	--	--	60	18
SANTEE RIVER BASIN--Continued										
02142122 - LOWER LITTLE R TRIB AT SR 1124 NR TAYLORSVILLE N (LAT 35 53 24 LONG 081 13 52)										
JAN., 1975										
13...	.04	.15	.66	.02	.00	.00	.01	.00	10	18
02142692 - KILLIAN CREEK AT SR 1349 NEAR DENVER N C (LAT 35 32 10 LONG 080 03 13)										
JAN., 1975										
13...	--	--	--	--	--	--	--	--	20	35
02142988 - HENRY FORK TRIB AT SR 1924 NR PLEASANT GROVE N C (LAT 35 39 07 LONG 081 36 28)										
JAN., 1975										
14...	.08	.11	.49	.00	.00	.00	.01	.00	8	14
02149716 - SILVER CREEK NEAR MILL SPRING N C (LAT 35 18 35 LONG 082 12 10)										
JAN., 1975										
14...	--	--	--	--	--	--	--	--	20	34
02152514 - LITTLE HARRIS CREEK AT SR 1821 NEAR CAMPBELL N C (LAT 35 22 34 LONG 081 35 45)										
JAN., 1975										
14...	.10	.63	2.8	.03	.03	.01	.01	.01	17	26

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CARBON DIOXIDE (CO2) (MG/L)
PEE DEE RIVER BASIN--Continued										
02129028 - BONES FORK CREEK NEAR HOFFMAN N C (LAT 35 01 26 LONG 079 38 02)										
JAN., 1975										
13...	.02	2	2	50	.3	23	4.3	10.0	90	.0
MAY										
14...	.03	4	3	30	.2	13	4.9	18.5	65	20
JULY										
15...	.08	11	9	13	.1	23	4.1	21.5	120	381
SANTEE RIVER BASIN--Continued										
02142122 - LOWER LITTLE R TRIB AT SR 1124 NR TAYLORSVILLE N (LAT 35 53 24 LONG 081 13 52)										
JAN., 1975										
13...	.01	6	2	28	.2	17	6.1	7.0	30	5.1
02142692 - KILLIAN CREEK AT SR 1349 NEAR DENVER N C (LAT 35 32 10 LONG 080 03 13)										
JAN., 1975										
13...	.03	13	0	24	.3	44	6.5	9.5	100	7.6
02142988 - HENRY FORK TRIB AT SR 1924 NR PLEASANT GROVE N C (LAT 35 39 07 LONG 081 36 28)										
JAN., 1975										
14...	.01	3	0	32	.2	15	6.2	5.0	0	4.0
02149716 - SILVER CREEK NEAR MILL SPRING N C (LAT 35 18 35 LONG 082 12 10)										
JAN., 1975										
14...	.03	13	0	28	.3	33	6.8	4.5	7	4.1
02152514 - LITTLE HARRIS CREEK AT SR 1821 NEAR CAMPBELL N C (LAT 35 22 34 LONG 081 35 45)										
JAN., 1975										
14...	.02	11	4	20	.2	32	6.4	6.0	90	5.1

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
CHOWAN RIVER BASIN				
02053200 - POTECASI CREEK NEAR UNION, N. C. (LAT 36 22 14 LONG 077 01 36)				
AUG., 1975				
26...	1700	4.2	8	.09
02053500 - AHOSKIE CREEK AT AHOSKIE N C (LAT 36 16 50 LONG 077 00 00)				
AUG., 1975				
27...	0730	4.3	10	.12
ROANOKE RIVER BASIN				
02080500 - ROANOKE RIVER AT ROANOKE RAPIDS, N.C. (LAT 36 28 04 LONG 077 37 18)				
SEP., 1975				
02...	0845	2250	16	97
PAMLICO RIVER BASIN				
02083000 - FISHING CREEK NEAR ENFIELD, N. C. (LAT 36 09 00 LONG 077 42 00)				
SEP., 1975				
03...	0830	681	70	129
02083800 - CONETOE CREEK NEAR BETHEL, N. C. (LAT 35 46 30 LONG 077 27 40)				
AUG., 1975				
28...	1600	5.1	2	.03
02084500 - HERRING RUN NEAR WASHINGTON N C (LAT 35 34 03 LONG 077 01 09)				
AUG., 1975				
28...	1920	.82	5	.01

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)

NEUSE RIVER BASIN

02091500 - CONTENTNEA CREEK AT HOOKERTON, N. C. (LAT 35 25 40 LONG 077 35 10)

SEP., 1975				
04...	1430	207	14	7.8

02091700 - LITTLE CONTENTNEA CREEK NEAR FARMVILLE, N. C. (LAT 35 32 08 LONG 077 30 41)

AUG., 1975				
24...	1059	.74	3	.01

02092000 - SWIFT CREEK NEAR VANCEBORO N C (LAT 35 20 42 LONG 077 11 45)

AUG., 1975				
29...	1505	12	16	.52

02092020 - PALMETTO SWAMP NEAR VANCEBORO N. C. (LAT 35 20 18 LONG 077 10 16)

DEC.				
17...	1300	16	4	.17
JAN.				
07...	0810	33	5	.45
13...	1530	144	20	7.8
14...	1015	161	16	7.0
15...	1055	119	21	6.7
24...	1240	54	6	.87
FEB.				
03...	1300	32	8	.69
MAR.				
03...	1540	21	8	.45
APR.				
03...	0915	9.6	9	.23
28...	1400	5.6	9	.14
JUNE				
04...	1250	6.4	21	.36
JULY				
09...	1225	.95	15	.04

02092500 - TRENT RIVER NEAR TRENTON, N.C. (LAT 35 03 54 LONG 077 27 24)

AUG., 1975				
26...	1440	13	2	.10

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
CAPE FEAR RIVER BASIN				
02102908 - FLAT CREEK NEAR INVERNESS N C (LAT 35 10 54 LONG 079 10 40)				
JULY, 1975				
30...	1730	10	11	.30
AUG.				
28...	1115	8.9	6	.14
02105500 - CAPE FEAR R AT WILM O HUSKE LOCK NR TARHEEL N C (LAT 34 50 05 LONG 078 49 27)				
AUG., 1975				
07...	1545	1930	22	115
02106000 - LITTLE COHARIE CREEK NEAR ROSEBORO, N. C. (LAT 34 57 13 LONG 078 29 17)				
AUG., 1975				
25...	1000	20	10	.54
02106500 - BLACK RIVER NEAR TOMAHAWK N C (LAT 35 45 17 LONG 078 17 21)				
AUG., 1975				
25...	1420	366	21	21
02107000 - SOUTH RIVER NEAR PARKERSBURG, N. C. (LAT 34 48 45 LONG 018 27 26)				
AUG., 1975				
25...	1115	49	11	1.5
02107600 - NORTHEAST CAPE FEAR RIVER NEAR SEVEN SPRINGS, N. (LAT 35 10 20 LONG 077 55 56)				
SEP., 1975				
05...	1140	12	11	.36
02108000 - NORTHEAST CAPE FEAR RIVER NEAR CHINQUAPIN, N. C. (LAT 34 49 45 LONG 077 49 57)				
AUG., 1975				
26...	1015	168	24	11
02108500 - ROCKFISH CREEK NEAR WALLACE, N. C. (LAT 34 44 32 LONG 078 02 22)				
AUG., 1975				
26...	1045	6.7	12	.22
WACCAMAW RIVER BASIN				
02109500 - WACCAMAW RIVER AT FREELAND, N. C. (LAT 34 05 43 LONG 078 32 56)				
AUG., 1975				
27...	1120	134	16	5.8
PEE DEE RIVER BASIN				
02133500 - DROWNING CREEK NEAR HOFFMAN, N. C. (LAT 35 03 38 LONG 079 29 39)				
JULY, 1975				
30...	1630	270	11	8.0
AUG.				
28...	1300	139	31	12

03448000 French Broad River at Bent Creek, N. C.

LOCATION.--Lat 35°30'07", long 82°35'35", Buncombe County, temperature recorder on right bank opposite gaging station, 50 ft (15 m) downstream from Bent Creek, 0.5 mi (0.8 km) southeast of village of Bent Creek, 6.2 mi (10.0 km) upstream from Hominy Creek, 6.7 mi (10.8 km) south of Asheville, and at mile 157.7 (253.7 km).

DRAINAGE AREA.--676 mi^2 (1751 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1967, water years 1971-72 (partial-record station). Water temperatures: October 1968 to September 1975.

EXTREMES.--1974-75::
Water temperatures: Maximum, 24.0°C July 23, Aug. 24, 25, 26; minimum, 3.5°C Nov. 30, Dec. 1, 6, 18, 19, Mar. 4.

Period of record:
Water temperatures: Maximum, 25.5°C July 17, 1970; minimum, freezing point on several days during most winters.

REMARKS.--Miscellaneous chemical data published for water years 1955-57. Samples for the 1972 water year were collected by USGS personnel 3.0 mi (4.8 km) upstream at Long Shoals bridge (03447861 French Broad River near Arden), and the analyses were made and furnished by the Tennessee Valley Authority. Chemical data published for Long Shoals bridge for 1954 water year. Temperature data for current year were furnished by the Tennessee Valley Authority.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	13.5	15.0	13.0	4.0	3.5	10.0	7.0	11.0	10.0	8.0	6.5
2	14.5	12.0	15.0	13.0	4.5	4.0	8.5	6.5	10.5	9.5	6.5	5.0
3	13.0	10.5	15.0	13.0	5.5	4.0	6.5	6.0	9.5	7.0	5.5	4.5
4	12.0	9.5	15.0	13.0	5.0	4.0	7.0	6.0	7.0	6.0	5.5	3.5
5	12.0	9.5	15.5	14.0	5.0	4.0	6.5	5.5	6.0	5.0	6.0	4.5
6	13.0	9.5	14.5	12.0	4.5	3.5	5.5	5.0	6.5	6.0	6.5	5.0
7	13.5	10.0	12.0	10.5	4.5	4.0	6.0	5.0	6.5	5.5	7.0	6.0
8	13.5	11.0	11.5	10.0	5.5	4.5	5.5	5.5	5.5	5.0	7.0	6.0
9	14.0	11.0	11.0	9.0	6.0	4.5	7.0	5.5	5.5	5.0	6.5	5.0
10	14.5	11.5	10.0	8.0	4.5	4.0	8.0	6.5	5.5	4.5	6.0	5.5
11	14.5	11.5	9.5	8.0	4.0	4.0	9.0	8.0	6.5	5.0	5.5	5.5
12	14.0	12.0	9.5	8.5	5.0	4.0	9.0	6.5	9.0	6.5	8.0	5.5
13	15.0	13.0	9.5	8.0	6.5	5.0	6.5	6.0	9.5	8.0	10.0	8.0
14	15.5	13.5	8.5	7.0	6.5	5.5	6.0	4.5	8.0	6.5	11.5	10.0
15	15.0	14.0	7.0	6.0	6.0	5.5	4.5	4.0	8.0	6.5	10.0	8.5
16	15.5	14.5	7.0	5.5	6.0	5.0	4.5	4.0	8.5	8.0	9.5	8.5
17	15.0	13.5	8.5	6.0	5.5	4.0	5.0	4.5	9.5	8.5	9.5	8.5
18	14.5	13.0	9.0	7.0	4.5	3.5	5.0	4.5	10.0	9.5	9.5	8.5
19	13.5	11.5	10.0	9.0	4.5	3.5	6.5	5.0	10.0	9.5	8.5	8.0
20	11.5	9.5	11.0	10.0	5.0	4.0	7.0	6.5	9.5	9.0	9.5	8.0
21	10.5	8.5	10.0	8.0	6.5	5.0	6.5	6.0	9.0	8.0	10.5	9.5
22	10.0	8.0	8.5	7.0	6.0	5.0	6.0	5.5	8.0	7.0	11.0	10.5
23	10.0	7.0	8.5	6.5	5.5	4.5	6.0	5.5	8.5	7.0	11.5	10.5
24	10.5	8.0	8.5	6.5	7.0	5.5	7.0	6.0	10.5	8.5	12.0	11.5
25	11.5	9.0	8.0	6.0	8.5	7.0	8.5	6.5	10.0	8.5	11.5	10.5
26	12.0	10.0	7.0	5.5	8.0	6.5	8.0	6.5	9.0	8.0	10.5	9.0
27	13.0	10.5	6.0	4.5	7.0	6.5	6.5	6.0	8.5	8.0	9.0	9.0
28	13.0	10.5	6.0	4.5	8.5	7.0	8.0	6.0	8.0	7.0	10.0	9.0
29	13.0	11.0	5.5	4.0	8.5	8.5	9.0	8.0	---	---	11.0	10.0
30	14.5	11.5	4.5	3.5	9.5	8.5	9.5	9.0	---	---	11.5	11.0
31	15.0	13.0	---	---	10.0	9.5	10.5	9.0	---	---	11.0	10.0
MONTH	15.5	7.0	15.5	3.5	10.0	3.5	10.5	4.0	11.0	4.5	12.0	3.5

TENNESSEE RIVER BASIN

03448000 French Broad River at Bent Creek, N. C.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	10.0	16.5	15.5	18.0	17.0	22.0	19.5	21.5	20.0	22.0	20.0
2	11.5	11.0	16.0	15.5	18.0	17.0	21.0	19.5	22.0	20.0	23.0	19.5
3	11.0	10.0	16.5	15.5	17.0	16.5	21.0	19.5	23.0	20.0	23.0	19.5
4	10.0	8.5	16.0	15.0	18.0	16.0	21.0	19.5	23.0	20.5	23.0	19.5
5	8.5	8.0	16.0	14.5	19.0	16.5	21.5	19.0	22.0	20.5	23.0	20.0
6	9.0	8.5	16.5	14.5	19.5	17.0	20.0	19.0	21.0	19.5	21.5	20.0
7	9.5	8.5	16.0	15.0	20.0	18.0	20.0	19.5	19.5	19.0	20.0	19.0
8	10.0	9.5	16.5	15.0	19.5	16.0	21.0	19.0	19.5	18.5	21.0	19.0
9	10.0	9.5	17.0	15.5	18.5	16.5	21.5	19.5	20.0	18.5	21.5	19.0
10	11.0	10.0	18.5	16.0	16.0	15.5	21.5	19.5	19.5	18.5	21.0	19.5
11	11.5	11.0	18.0	16.0	16.0	16.0	21.0	19.5	21.0	18.5	20.5	19.5
12	11.5	10.0	16.0	15.5	19.0	16.0	20.5	19.0	21.5	19.0	20.5	19.0
13	11.5	10.0	17.0	15.5	19.0	17.0	20.5	19.0	22.0	19.5	20.5	18.0
14	10.5	9.5	17.0	15.5	20.0	17.0	20.0	19.0	21.5	20.0	19.5	17.0
15	10.0	9.5	16.0	15.5	19.0	17.0	20.5	19.0	23.5	20.0	19.0	16.0
16	11.5	9.5	16.0	15.0	20.0	18.0	21.0	19.0	23.0	20.5	16.5	16.0
17	13.0	10.5	16.0	15.5	20.5	17.0	21.0	19.5	22.0	20.5	16.0	16.0
18	13.5	12.0	17.0	15.5	20.5	18.0	21.5	19.5	23.0	20.5	16.5	16.0
19	14.5	13.0	18.5	16.0	20.0	18.0	22.0	20.0	23.0	20.5	17.0	16.5
20	14.5	13.0	19.0	17.0	21.0	18.5	21.5	20.0	23.0	20.5	18.5	17.0
21	14.0	11.5	18.5	17.0	21.0	19.0	23.0	20.0	23.5	20.5	19.5	18.0
22	14.5	12.0	18.0	16.5	20.5	18.5	23.5	20.5	23.5	20.5	18.0	16.5
23	15.0	13.0	18.5	17.0	20.5	18.0	24.0	21.0	23.5	20.5	16.5	16.0
24	15.5	13.5	18.5	16.5	20.0	17.0	23.5	21.0	24.0	20.5	18.0	16.5
25	16.0	14.5	19.0	17.0	20.0	18.0	23.5	21.0	24.0	21.0	17.0	16.5
26	17.0	15.0	18.5	16.5	20.5	19.0	22.0	20.5	24.0	21.0	16.5	16.0
27	17.0	15.0	18.0	16.5	21.5	19.0	22.0	20.0	23.5	20.5	16.0	15.5
28	17.0	15.5	18.0	16.5	21.5	19.0	21.5	20.0	21.5	20.5	15.5	14.5
29	17.0	16.0	18.0	16.5	21.0	19.5	23.0	20.5	21.0	20.0	15.0	14.5
30	16.5	16.0	18.0	16.5	21.0	19.5	22.0	20.5	21.5	19.5	16.0	14.5
31	---	---	18.5	18.0	---	---	21.0	20.0	21.0	20.0	---	---
MONTH	17.0	8.0	19.0	14.5	21.5	15.5	24.0	18.5	24.0	18.5	23.0	14.5
YEAR	24.0	3.5										

03453500 French Broad River at Marshall, N. C.

LOCATION.--Lat 35°47'10", long 82°39'39", Madison County, at gaging station on right bank 0.7 mi (1.1 km) upstream from Hayes Creek, 1 mi (1.6 km) downstream from Ivy River, 1.5 mi (2.4 km) southeast of Marshall, and at mile 126.7 (203.9 km).

DRAINAGE AREA.--1,332 mi^2 (3,450 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1956 to September 1967, August 1973 to September 1975. Water temperatures: October 1957 to September 1967, August 1973 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 132 micromhos Dec. 8; minimum daily, 35 micromhos May 20.
Water temperatures: Maximum, 24.0°C on several days during July and August; minimum, 3.0°C on several days during winter months.

Period of record:
Specific conductance: Maximum daily, 270 micromhos Oct. 24, 31, 1963; minimum daily, 35 micromhos May 20, 1975.
Water temperatures: Maximum, 28.5°C Aug. 8, 1964; minimum, freezing point during most winters.

REMARKS.--Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)
OCT.											
02...	0945	1480	11	930	140	4000	50	40	10	210	6.6
DEC.											
19...	1020	1960	--	--	--	--	--	--	--	--	--
FEB.											
22...	0800	3050	11	--	--	--	--	--	--	--	5.8
24...	0915	7740	9.2	--	--	--	--	--	--	--	4.7
24...	1340	9000	8.3	16000	140	--	--	--	--	--	5.2
25...	1000	8100	7.4	--	--	--	--	--	--	--	3.9
27...	1000	6120	8.1	--	--	--	--	--	--	--	3.7
MAR.											
14...	0930	26200	6.9	51000	130	--	--	--	--	--	3.4
JUNE											
09...	1130	2460	10	1300	70	3800	--	--	--	--	3.7
AUG.											
26...	1100	1260	9.7	1200	130	--	--	--	--	--	6.9
SEP.											
23...	0600	3130	9.5	18000	80	--	--	--	--	--	5.2
23...	0945	4520	--	27000	90	--	--	--	--	--	--
23...	1600	5670	9.0	21000	70	--	--	--	--	--	5.2
23...	2330	9500	--	70000	120	--	--	--	--	--	--
24...	0100	14600	--	55000	120	--	--	--	--	--	--
24...	0215	17600	6.7	66000	90	--	--	--	--	--	6.1
25...	1230	8110	6.4	8000	70	--	--	--	--	--	3.2
29...	1045	2790	9.4	1700	70	--	--	--	--	--	4.1

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
02...	1.3	12	1.5	23	--	19	22	2.6	.1	.45	.46
DEC.											
19...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
22...	1.6	7.0	1.4	18	0	15	13	3.0	.1	--	--
24...	1.5	6.1	1.7	15	--	12	13	3.6	.2	--	--
24...	1.5	6.0	1.8	15	--	12	13	3.1	.2	.39	.38
25...	1.2	4.0	1.3	9	--	7	7.7	2.0	.1	.39	.38
27...	1.1	4.5	1.0	11	--	9	8.6	.9	.2	--	--
MAR.											
14...	1.3	2.4	2.1	13	--	11	8.5	2.7	.1	.58	.52
JUNE											
09...	.9	6.0	1.1	17	0	14	7.9	2.5	.1	.34	.35
AUG.											
26...	1.6	11	1.7	24	0	20	18	4.4	.3	.59	.60
SEP.											
23...	.4	6.8	2.2	18	0	15	12	3.7	.1	2.4	.47
23...	--	--	--	18	0	15	--	--	--	--	--
23...	.8	6.3	2.4	17	0	14	11	3.0	.1	.50	.48
23...	--	--	--	17	0	14	--	--	--	--	--
24...	--	--	--	16	0	13	--	--	--	--	--
24...	.6	4.1	2.8	16	0	13	8.9	3.0	.1	.64	.66
25...	.7	2.6	2.0	11	0	9	6.0	1.9	.2	.44	.43
29...	1.0	5.6	1.3	13	0	11	10	2.3	.2	--	--

03453500 French Broad River at Marshall, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	DIS-SOLVED ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	SUS-PENDED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	TOTAL KJEL. NITRO-GEN IN BOTTOM MAT. (MG/KG)	TOTAL NITRO-GEN (N) (MG/L)
OCT.											
02...	6.0	.22	.16	.21	.29	.28	.51	.07	.44	120	.96
DEC.											
19...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
22...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	1.6	1.2	.36	--	2.0
25...	--	--	--	--	--	--	1.0	.67	.33	--	1.4
27...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
14...	--	.18	.10	.13	3.1	.28	3.3	2.9	.38	--	3.9
JUNE											
09...	2.0	.07	.03	.04	.25	.19	.32	.10	.22	200	.66
AUG.											
26...	--	.04	.02	.03	1.2	1.2	1.2	.00	1.2	--	1.8
SEP.											
23...	--	.17	.07	.09	1.2	.31	1.4	1.0	.38	--	3.8
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	.16	.01	.01	.70	.32	.86	.53	.33	--	1.4
23...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	.25	.09	.12	4.0	.32	4.2	3.8	.41	--	4.8
25...	--	.10	.00	.00	.78	.37	.88	.51	.37	--	1.3
29...	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL NITRO-GEN (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
OCT.											
02...	4.3	.15	.21	.09	.08	.07	100	78	69	.11	312
DEC.											
19...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
22...	--	--	--	--	--	--	--	60	52	.08	494
24...	--	--	--	--	--	--	--	61	47	.08	1280
24...	8.8	.42	.03	.06	.07	.01	--	60	48	.08	1460
25...	6.2	.23	.03	.03	.04	.01	--	46	34	.06	1010
27...	--	--	--	--	--	--	--	26	34	.04	430
MAR.											
14...	17	.92	.03	.02	.11	.01	--	52	34	.07	3680
JUNE											
09...	2.9	.09	.03	.04	.04	.01	240	54	42	.07	359
AUG.											
26...	7.9	.17	.18	.09	.10	.06	--	66	66	.09	225
SEP.											
23...	17	.44	.06	.06	.01	.02	--	54	49	.07	456
23...	--	--	--	--	--	--	--	--	--	--	--
23...	6.0	.17	.03	.05	.06	.01	--	54	48	.07	827
23...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	21	1.2	.03	.06	.22	.01	--	50	40	.07	2380
25...	5.8	.21	.00	.04	.04	.00	--	36	30	.05	788
29...	--	--	--	--	--	--	--	46	40	.06	347

03453500 French Broad River at Marshall, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
02...	22	3	52	1.1	110	5.8	13.0	7	10.9	58
DEC.										
19...	--	--	--	--	--	--	3.0	--	--	--
FEB.										
22...	21	6	40	.7	70	6.8	7.0	5	--	4.6
24...	18	6	40	.6	75	6.0	10.5	100	10.8	24
24...	19	7	38	.6	71	5.9	10.5	100	10.6	30
25...	15	7	35	.5	48	5.2	9.0	100	11.2	91
27...	14	5	39	.5	48	6.3	7.0	40	11.8	8.8
MAR.										
14...	14	3	24	.3	52	5.3	10.0	600	10.8	104
JUNE										
09...	13	0	48	.7	55	6.6	20.0	6	9.0	6.8
AUG.										
26...	24	4	48	1.0	95	7.4	25.0	12	9.0	1.5
SEP.										
23...	15	0	46	.8	75	6.5	18.0	110	10.0	9.1
23...	--	--	--	--	70	6.4	17.0	--	11.2	11
23...	16	2	41	.7	69	6.5	17.5	100	11.1	8.6
23...	--	--	--	--	67	6.8	18.0	--	10.5	4.3
24...	--	--	--	--	69	6.3	17.5	--	10.6	13
24...	18	5	30	.4	63	6.4	18.0	330	10.5	10
25...	11	2	30	.3	43	6.7	18.0	50	10.2	3.5
29...	14	4	43	.6	67	6.3	15.5	12	10.9	10

DATE	TOTAL PHYTOPLANKTON (CELLS PER ML)	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)
OCT.												
02...	1700	18	21	8.4	--	<.1	.0	1	0	1	2	0
DEC.												
19...	--	3.1	4.6	--	--	--	--	--	--	--	--	--
FEB.												
24...	--	--	--	13	5.2	--	.0	--	--	--	--	--
25...	--	--	--	9.2	3.6	--	.0	--	--	--	--	--
MAR.												
14...	--	--	--	34	12	--	.0	--	--	--	--	--
JUNE												
09...	1900	--	--	5.0	--	2.2	.1	--	--	--	--	--
AUG.												
26...	--	--	--	4.4	--	--	.0	--	--	--	--	--
SEP.												
23...	--	--	--	15	13	--	.1	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	10	--	--	.0	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	44	15	--	.0	--	--	--	--	--
25...	--	--	--	12	8.4	--	.0	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--

03453500 French Broad River at Marshall, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT.												
02...	0	0	<10	<10	<10	0	<10	1	1	0	<10	3
DEC.												
19...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
24...	--	--	--	20	20	0	--	--	--	--	--	19
25...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
14...	--	--	--	60	60	0	--	--	--	--	--	58
JUNE												
09...	--	--	--	<10	<10	0	<10	--	--	--	--	15
AUG.												
26...	--	--	--	10	10	0	--	--	--	--	--	8
SEP.												
23...	--	--	--	<10	<10	0	--	--	--	--	--	39
23...	--	--	--	60	60	0	--	--	--	--	--	38
23...	--	--	--	10	10	0	--	--	--	--	--	28
23...	--	--	--	90	90	0	--	--	--	--	--	71
24...	--	--	--	50	50	0	--	--	--	--	--	51
24...	--	--	--	70	70	0	--	--	--	--	--	230
25...	--	--	--	<10	<10	0	--	--	--	--	--	23
29...	--	--	--	<10	<10	0	--	--	--	--	--	12

DATE	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
OCT.										
02...	0	3	<10	4	2	2	<10	.0	.0	.0
FEB.										
24...	15	4	--	33	32	1	--	--	--	--
MAR.										
14...	49	9	--	51	48	3	--	--	--	--
JUNE										
09...	9	6	<10	46	36	10	<10	--	--	--
AUG.										
26...	0	8	--	38	18	20	--	--	--	--
SEP.										
23...	37	2	--	75	75	0	--	--	--	--
23...	35	3	--	20	20	0	--	--	--	--
23...	26	2	--	52	52	0	--	--	--	--
23...	68	3	--	90	88	2	--	--	--	--
24...	49	2	--	78	76	2	--	--	--	--
24...	230	4	--	250	250	0	--	--	--	--
25...	22	1	--	88	87	1	--	--	--	--
29...	12	0	--	72	69	3	--	--	--	--

DATE	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT.									
02...	.0	0	0	1	0	140	90	50	60
FEB.									
24...	--	--	--	--	--	210	190	20	--
MAR.									
14...	--	--	--	--	--	330	320	6	--
JUNE									
09...	--	--	--	--	--	40	30	10	40
AUG.									
26...	--	--	--	--	--	30	30	0	--
SEP.									
23...	--	--	--	--	--	130	130	1	--
23...	--	--	--	--	--	150	150	4	--
23...	--	--	--	--	--	140	140	0	--
23...	--	--	--	--	--	400	390	10	--
24...	--	--	--	--	--	360	360	0	--
24...	--	--	--	--	--	440	430	10	--
25...	--	--	--	--	--	80	80	0	--
29...	--	--	--	--	--	30	30	0	--

03453500 French Broad River at Marshall, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	114	110	108	96	61	41	67	62	86	71	107
2	110	110	100	108	99	60	46	68	45	85	72	90
3	99	100	98	105	92	73	50	68	44	81	79	98
4	107	100	121	121	99	73	50	68	51	82	78	89
5	104	90	121	129	87	73	50	61	55	87	84	102
6	100	99	121	107	70	71	50	64	59	82	84	111
7	96	92	121	110	78	74	48	70	61	83	84	112
8	100	98	132	117	73	80	50	74	60	82	59	112
9	101	100	102	121	68	73	50	71	62	80	69	102
10	102	95	90	121	70	65	52	72	63	85	77	103
11	103	90	102	106	75	73	54	70	70	86	80	108
12	103	88	106	85	80	71	60	66	59	87	80	112
13	100	89	111	72	78	65	54	68	56	88	86	92
14	93	92	110	61	76	54	54	64	53	85	92	100
15	100	110	116	66	78	40	54	64	60	89	92	94
16	111	120	112	75	77	37	50	66	56	94	98	98
17	100	118	99	85	76	41	58	47	60	94	92	111
18	90	118	105	89	69	49	63	52	69	96	82	112
19	86	120	109	88	74	52	60	41	72	88	86	55
20	88	110	110	90	69	48	57	35	72	89	99	48
21	87	98	112	94	68	47	56	37	71	88	96	63
22	86	90	114	94	70	52	57	45	76	86	98	69
23	89	96	110	96	75	54	62	50	74	90	97	75
24	90	110	121	98	74	54	60	54	73	92	102	50
25	90	115	116	96	50	48	61	56	83	99	107	42
26	89	115	108	80	47	44	64	56	81	94	95	41
27	89	128	105	68	49	50	68	58	84	98	102	42
28	87	130	104	79	57	50	58	58	82	90	102	55
29	86	130	102	90	---	54	68	65	82	59	102	59
30	99	122	99	90	---	64	68	64	83	73	102	65
31	100	---	101	92	---	60	---	60	---	89	96	---
MONTH	97	106	109	95	74	58	56	60	66	87	88	84
YEAR	MAX	132	MIN	35	MEAN	82						

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	14.0	5.0	11.0	10.0	7.0	10.0	17.0	19.0	21.0	22.0	22.0
2	12.0	15.0	4.0	6.0	11.0	5.0	11.0	17.0	18.0	21.0	23.0	21.0
3	11.0	15.0	4.0	5.0	9.0	3.0	10.0	17.0	18.0	22.0	23.0	22.0
4	10.0	14.0	4.0	7.0	7.0	3.0	7.0	16.0	18.0	22.0	23.0	22.0
5	11.0	16.0	3.0	5.0	6.0	3.0	8.0	15.0	18.0	20.0	23.0	23.0
6	12.0	13.0	3.0	4.0	7.0	5.0	9.0	15.0	19.0	22.0	22.0	23.0
7	13.0	11.0	4.0	5.0	5.0	6.0	8.0	17.0	19.0	20.0	20.0	21.0
8	13.0	10.0	6.0	6.0	4.0	6.0	9.0	16.0	19.0	21.0	20.0	20.0
9	13.0	10.0	4.0	6.0	5.0	4.0	10.0	17.0	18.0	22.0	20.0	21.0
10	13.0	9.0	3.0	7.0	3.0	5.0	11.0	18.0	19.0	22.0	21.0	22.0
11	14.0	9.0	3.0	9.0	5.0	5.0	11.0	18.0	18.0	22.0	20.0	23.0
12	14.0	10.0	4.0	8.0	7.0	7.0	11.0	18.0	18.0	21.0	21.0	21.0
13	14.0	8.0	5.0	6.0	7.0	9.0	10.0	17.0	17.0	20.0	22.0	20.0
14	15.0	9.0	6.0	3.0	6.0	10.0	11.0	16.0	18.0	20.0	23.0	18.0
15	15.0	6.0	6.0	3.0	8.0	9.0	10.0	18.0	19.0	22.0	23.0	21.0
16	16.0	5.0	6.0	4.0	8.0	9.0	9.0	17.0	20.0	21.0	23.0	18.0
17	15.0	7.0	4.0	3.0	8.0	9.0	10.0	17.0	20.0	21.0	23.0	18.0
18	14.0	8.0	3.0	4.0	10.0	9.0	13.0	17.0	21.0	22.0	22.0	17.0
19	13.0	9.0	4.0	5.0	8.0	8.0	14.0	17.0	21.0	22.0	22.0	18.0
20	10.0	11.0	4.0	7.0	8.0	8.0	12.0	18.0	21.0	23.0	22.0	18.0
21	8.0	9.0	5.0	5.0	7.0	9.0	12.0	19.0	21.0	23.0	23.0	20.0
22	9.0	7.0	5.0	5.0	7.0	11.0	11.0	19.0	21.0	23.0	23.0	18.0
23	9.0	7.0	4.0	5.0	9.0	11.0	13.0	19.0	20.0	23.0	24.0	18.0
24	9.0	7.0	7.0	6.0	11.0	14.0	15.0	19.0	20.0	24.0	24.0	17.0
25	9.0	8.0	8.0	9.0	9.0	10.0	16.0	20.0	20.0	24.0	24.0	16.0
26	9.0	5.0	6.0	7.0	6.0	8.0	16.0	20.0	21.0	24.0	24.0	16.0
27	10.0	5.0	8.0	6.0	7.0	8.0	16.0	19.0	21.0	24.0	24.0	15.0
28	12.0	5.0	8.0	7.0	6.0	10.0	16.0	19.0	21.0	22.0	23.0	14.0
29	13.0	5.0	9.0	8.0	---	11.0	17.0	19.0	22.0	22.0	22.0	15.0
30	14.0	5.0	9.0	8.0	---	11.0	18.0	20.0	22.0	22.0	21.0	15.0
31	15.0	---	10.0	8.0	---	9.0	---	20.0	---	22.0	23.0	---
MONTH	12.0	9.0	5.5	6.0	7.5	8.0	12.0	18.0	19.5	22.0	22.5	19.0
YEAR	MAX	24.0	MIN	3.0	MEAN	13.5						

03453500 French Broad River at Marshall, N. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
02...	0945	1480	19	76
FEB.				
24...	0915	7740	751	15700
24...	1340	9000	799	19400
25...	1000	8100	336	7350
27...	1000	6120	151	2500
MAR.				
14...	0930	26200	2690	190000
JUNE				
09...	1130	2460	33	219
AUG.				
26...	1100	1260	29	99
SEP.				
18...	1130	3600	349	3390
18...	1415	5130	769	10700
18...	1745	5790	897	14000
23...	1600	5670	1430	21900
23...	2330	9500	3970	102000
24...	0100	14600	6900	272000
24...	0215	17600	10800	513000
25...	1230	8110	799	17500
29...	1045	2790	93	701

03453500 French Broad River at Marshall, N. C.--Continued

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL MERCURY (HG) (UG/L)
OCT.												
07...	1015	1300	16	--	7.2	12.0	--	10.3	38	1.4	20	--
15...	1515	1170	17	100	7.2	15.0	--	10.1	48	1.7	460	--
23...	1430	1360	17	--	7.3	10.0	--	11.2	<25	1.8	120	--
NOV.												
04...	1515	1180	22	32	7.2	12.0	--	9.6	<25	2.8	4700	--
JAN.												
14...	1000	6260	--	--	--	3.0	--	9.4	32	3.3	3000	<.5
FEB.												
06...	1630	5810	23	34	7.1	6.0	--	10.2	<25	2.2	4000	--
10...	1355	3150	21	30	7.2	4.0	--	9.9	<25	1.4	620	--
17...	1600	3980	16	27	6.8	7.0	--	8.9	<25	3.2	2200	--
27...	1030	6140	15	--	7.2	7.0	--	13.7	<25	1.7	1500	--
MAR.												
03...	1500	3260	4	50	6.3	3.0	--	14.7	<25	1.8	400	--
12...	1500	3560	12	30	6.7	5.0	--	10.4	<25	2.2	2200	--
17...	1630	8910	19	34	6.8	8.0	--	10.1	<25	1.7	1700	--
25...	0900	10100	23	--	6.9	11.0	--	10.9	40	2.5	10000	--
APR.												
01...	1030	8600	16	--	6.7	10.0	--	10.7	<25	.9	1000	--
07...	1330	4170	12	--	6.3	9.0	--	12.0	<25	1.7	150	--
14...	0900	3200	14	--	7.1	11.0	--	11.1	<25	1.5	210	--
22...	1115	2650	12	--	7.0	12.0	--	10.6	<25	1.5	200	--
29...	0930	2430	183	--	8.1	17.0	--	9.5	<25	3.9	1800	--
MAY												
05...	1030	2670	--	--	8.3	15.0	--	9.2	<25	2.1	950	<.5
19...	1500	9080	0	--	6.3	20.0	--	8.6	--	--	--	--
29...	0900	2770	--	--	--	19.0	--	9.1	<25	2.4	1300	--
JUNE												
03...	1130	5080	27	32	7.4	26.0	--	7.3	<25	.7	7200	--
04...	0900	3680	17	--	6.7	18.0	34	8.9	<25	1.9	2200	--
11...	0845	2940	17	--	7.5	18.0	--	8.7	<25	2.0	9500	--
18...	1300	2580	--	--	--	24.0	22	8.4	<25	1.2	2900	--
23...	0830	2110	21	--	6.7	21.0	--	8.2	<25	1.6	2500	--
JULY												
07...	1230	2110	18	--	6.8	23.0	--	8.1	<25	1.4	--	--
14...	1030	1670	21	--	7.4	22.0	--	8.1	<25	2.1	--	--
21...	0930	2080	24	--	7.1	24.0	43	7.8	<25	1.2	1200	--
28...	1300	2670	22	--	6.8	25.0	64	7.7	<25	2.3	1700	--
AUG.												
04...	1000	1710	20	--	6.8	25.0	59	7.8	<25	1.7	1500	--
11...	1045	1710	24	--	6.9	22.0	--	8.3	<25	1.7	3500	--
20...	1100	1480	24	--	6.9	24.0	--	7.7	<25	1.5	760	--
25...	1000	1320	--	--	--	25.0	--	7.8	<25	2.0	510	--
SEP.												
04...	1000	1170	--	--	--	23.0	--	7.7	<25	2.1	1400	--
08...	0900	1520	25	--	7.1	21.0	--	7.7	<25	1.8	1200	--
16...	0930	1110	18	--	6.8	18.0	6	8.3	<25	1.7	570	--
22...	1440	1950	19	--	7.0	19.0	24	8.7	<25	2.0	1700	--
29...	1500	2740	11	--	6.3	16.0	--	9.9	<25	1.1	810	--

03460000 Cataloochee Creek near Cataloochee, N. C.
(Hydrologic bench-mark and pesticide station)

LOCATION.--Lat 35°40'02", long 83°04'23", Haywood County, in Great Smoky Mountains National Park, water-quality recorder at gaging station on left bank 20 ft (6 m) downstream from bridge on State Highway 284, 500 ft (152 m) upstream from Little Cataloochee Creek, 2 mi (3.2 km) north of Cataloochee, and 3.7 mi (6.0 km) upstream from mouth.

DRAINAGE AREA.--49.2 mi^2 (127.4 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1962 to September 1971, water years 1972-73 (partial-record station) August 1973 to September 1975.
Water temperatures: October 1962 to September 1975.

EXTREMES.--1974-75:
Specific conductance: Maximum daily, 25 micromhos July 4, Aug. 22; minimum daily, 10 micromhos Jan. 12, 13, Feb.2, 8, 10.
Water temperatures: Maximum, 20.5°C Aug. 26; minimum, freezing point on several days during Dec., March.

Period of record:
Specific conductance (1973-75): Maximum daily, 43 micromhos June 13, 1974; minimum daily, 10 micromhos Jan. 12, 13, Feb. 2, 8, 10, 1975.
Water temperatures: Maximum, 20.5°C June 22, 1964, Aug. 26, 1975; minimum, freezing point on several days during winter months of most years.

REMARKS.--Miscellaneous chemical data published for 1945 water year. Chemical and biological data shown in last table were furnished by the North Carolina Department of Natural and Economic Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM MATERIAL (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM MATERIAL (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)
OCT.											
01...	1045	36	9.0	130	40	4300	0	0	10	130	2.0
DEC.											
18...	1300	75	7.5	70	0	--	0	0	0	--	2.6
JAN.											
25...	0800	600	5.3	--	--	--	--	--	--	--	2.7
25...	1100	1610	4.2	--	--	--	--	--	--	--	2.7
25...	2010	790	5.4	--	--	--	--	--	--	--	1.9
28...	1300	281	6.9	--	--	--	--	--	--	--	.9
APR.											
15...	1130	140	7.4	20	10	--	--	--	--	--	.9
JUNE											
18...	1100	60	8.3	90	10	4000	0	--	--	--	2.4
AUG.											
27...	1130	46	9.6	--	--	--	--	--	--	--	1.5

DATE	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
01...	.3	1.0	.6	4	--	3	2.0	1.0	.0	.08	.09
DEC.											
18...	.4	1.0	.5	5	--	4	2.3	.5	.2	.13	.14
JAN.											
25...	.2	.5	.8	4	--	3	2.6	.8	.0	.25	.25
25...	.5	.4	.8	4	--	3	2.5	.8	.0	.21	.23
25...	.2	.4	.6	3	--	2	1.8	.3	.0	.21	.21
28...	1.1	.6	.6	5	--	2	2.1	1.0	.0	.17	.17
APR.											
15...	.9	1.0	.5	8	0	7	.7	.6	.1	.14	.15
JUNE											
18...	1.1	1.5	.6	6	0	5	.6	.6	.1	.18	.18
AUG.											
27...	.4	1.2	.8	8	0	7	1.5	.5	.1	.09	.09

03460000 Cataloochee Creek near Cataloochee, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRITE PLUS NITRATE IN BOT. MAT. (MG/KG)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	SUSPENDED KJEL. NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL KJEL. NITROGEN IN BOTTOM MAT. (MG/KG)	TOTAL NITROGEN (N) (MG/L)
OCT.											
01...	.0	.03	.00	.00	.07	.12	.10	.00	.12	97	.18
DEC.											
18...	--	.00	.01	.01	.04	.07	.04	.00	.08	--	.17
JAN.											
25...	--	.01	.01	.01	.58	.08	.59	.50	.09	--	.84
25...	--	.00	.02	.03	1.5	.25	1.5	1.2	.27	--	1.7
25...	--	.00	.00	.00	.11	.00	.11	.11	.00	--	.32
28...	--	.00	.00	.00	.18	.16	.18	.02	.16	--	.35
APR.											
15...	--	.00	.01	.01	.03	.00	.03	.03	.00	--	.17
JUNE											
18...	.0	.00	.00	.00	.12	.10	.12	.02	.10	64	.30
AUG.											
27...	--	.00	.01	.01	.31	.19	.31	.11	.20	--	.40

DATE	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO PHOSPHATE (P04) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM MATERIAL (MG/KG)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
OCT.											
01...	.80	.01	.00	.01	.00	.00	80	16	18	.02	1.56
DEC.											
18...	.75	.01	.03	.01	.01	.01	--	17	18	.02	3.44
JAN.											
25...	3.7	.06	.03	.01	.00	.01	--	18	15	.02	29.2
25...	7.6	.14	.00	.01	.00	.00	--	15	14	.02	65.2
25...	1.4	.04	.00	.01	.00	.00	--	11	12	.02	23.5
28...	1.6	.00	.03	.00	.00	.01	--	5	15	.01	3.79
APR.											
15...	.75	.01	.00	.01	.00	.00	--	16	16	.02	6.05
JUNE											
18...	1.3	.02	.03	.02	.01	.01	110	40	18	.05	6.48
AUG.											
27...	1.8	.00	.03	.00	.01	.01	--	20	20	.03	2.48

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
01...	6	3	24	.2	16	5.2	8.0	7	11.4	40
DEC.										
18...	8	4	20	.2	12	5.1	.5	5	13.6	64
JAN.										
25...	8	4	11	.1	16	6.0	9.0	20	--	6.4
25...	9	6	8	.1	15	5.7	8.0	30	--	13
25...	6	3	12	.1	14	5.8	7.0	10	--	7.6
28...	7	4	15	.1	11	5.7	7.0	3	11.6	9.6
APR.										
15...	6	0	25	.2	13	5.4	7.5	1	11.2	51
JUNE										
18...	11	6	22	.2	16	5.8	17.0	8	9.3	15
AUG.										
27...	5	0	29	.2	20	7.8	17.0	5	10.2	.2

03460000 Cataloochee Creek near Cataloochee, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	TOTAL ALDRIN (UG/L)
OCT.												
01...	12000	23	4	67	3.9	6.2	11	--	.2	.00	.0	.00
DEC.												
18...	320	100	10	4	1.5	2.3	1.7	--	--	--	.0	--
JAN.												
25...	--	--	--	--	--	--	9.6	--	--	--	.0	--
25...	--	--	--	--	--	--	15	4.9	--	--	.0	--
25...	--	--	--	--	--	--	7.2	--	--	--	.0	--
28...	--	--	--	--	--	--	5.0	--	--	--	.0	--
APR.												
15...	--	37	2	2	--	--	3.6	--	--	--	.0	--
JUNE												
18...	260	--	--	--	2.2	2.8	3.4	--	2.2	.00	.0	--
AUG.												
27...	--	88	28	63	--	--	3.6	3.6	--	--	.0	--

DATE	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (1G/KG)
OCT.												
01...	.0	.0	0	.00	.0	.00	.0	.00	.0	.00	.00	.0
DEC.												
18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE												
18...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
27...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)
OCT.												
01...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.00	.00	.0
DEC.												
18...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
15...	--	--	--	--	--	--	--	--	--	--	--	--
JUNE												
18...	--	--	--	--	--	--	--	--	--	--	--	--
AUG.												
27...	--	--	--	--	--	--	--	--	--	--	--	--

03460000 Cataloochee Creek near Cataloochee, N. C.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	PCB IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL BARIUM (BA) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
OCT.											
01...	0	.00	.00	.00	1	1	0	1	200	0	0
DEC.											
18...	--	--	--	--	0	0	0	--	--	1	0
JAN.											
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
APR.											
15...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
18...	--	--	--	--	0	--	--	--	0	0	--
AUG.											
27...	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT.											
01...	0	<10	<10	<9	1	<10	1	0	1	<10	1
DEC.											
18...	1	--	1	1	0	--	0	0	0	--	0
JAN.											
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
APR.											
15...	--	--	<10	<10	0	--	--	--	--	--	6
JUNE											
18...	--	--	<10	<10	0	<10	--	--	--	--	23
AUG.											
27...	--	--	--	--	--	--	--	--	--	--	--

DATE	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)
OCT.										
01...	1	0	<10	1	0	1	<10	.0	.0	.0
DEC.										
18...	0	1	--	0	0	0	--	.1	.1	.0
APR.										
15...	6	0	--	30	28	2	--	--	--	--
JUNE										
18...	23	0	<10	88	88	0	10	.1	--	--

DATE	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
OCT.										
01...	.0	0	0	0	0	0	5	5	0	20
DEC.										
18...	--	0	0	0	--	--	30	30	0	--
APR.										
15...	--	--	--	--	--	--	10	10	0	--
JUNE										
18...	--	0	--	--	--	0	40	40	0	20

03460000 Cataloochee Creek near Cataloochee, N. C.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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

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

03460000 Cataloochee Creek near Cataloochee, N. C.--Continued

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	7.5	12.0	9.5	2.0	1.5	9.5	5.0	10.0	7.0	5.0	2.5
2	9.5	7.0	12.0	9.5	1.5	1.0	4.5	1.0	9.5	7.5	3.5	1.0
3	7.0	5.0	12.5	9.5	1.5	0.5	4.0	1.5	8.0	3.5	1.5	0.0
4	7.0	3.5	11.5	9.5	1.0	0.0	5.5	2.0	4.0	2.0	2.0	0.0
5	8.5	4.5	13.0	11.0	0.5	0.0	4.0	1.5	6.0	2.5	3.5	0.5
6	9.5	5.5	11.0	8.0	1.0	0.0	4.5	2.0	5.5	3.0	4.0	1.0
7	10.5	7.0	8.0	6.0	3.5	1.0	4.0	2.0	5.5	2.0	5.0	2.0
8	11.0	8.5	8.0	5.5	4.5	3.5	5.5	4.0	4.0	1.0	4.0	1.5
9	9.5	6.5	6.5	3.5	4.5	1.0	5.0	2.5	4.5	3.5	4.0	1.0
10	10.0	6.5	6.0	3.0	1.0	0.0	3.0	2.5	4.5	1.0	4.0	1.5
11	10.0	7.0	8.0	5.5	3.5	0.5	7.5	4.0	5.0	2.5	5.0	2.0
12	10.5	8.5	8.0	5.5	5.0	3.5	4.5	2.0	6.0	3.5	6.0	4.0
13	11.5	9.0	5.0	3.0	5.0	4.5	5.0	1.0	3.5	2.0	8.0	5.5
14	12.0	9.5	4.0	3.0	4.5	3.0	3.0	0.5	4.5	1.0	7.5	5.0
15	11.0	9.0	3.0	1.5	3.5	3.0	3.5	1.0	5.5	2.5	6.5	4.0
16	12.5	11.5	2.5	0.5	5.0	3.5	4.5	3.0	6.5	4.5	6.5	5.5
17	11.0	9.0	5.0	2.0	4.0	1.5	4.5	1.5	8.5	6.0	9.0	6.0
18	10.0	7.0	6.5	4.0	1.5	0.5	5.0	3.5	7.0	6.0	8.0	6.0
19	9.5	7.0	8.5	6.0	4.0	1.0	5.5	2.0	7.0	5.0	7.0	6.0
20	8.5	5.5	9.5	7.0	4.0	3.0	5.5	1.5	5.5	2.5	8.5	5.0
21	6.0	3.5	7.0	4.0	4.0	3.0	3.5	1.5	5.5	2.5	10.0	5.5
22	6.5	2.5	5.0	2.5	2.5	1.0	3.5	1.0	6.5	3.5	10.0	8.0
23	6.5	3.0	5.5	2.5	3.5	1.0	4.0	1.0	9.0	6.5	10.5	6.0
24	8.0	4.0	6.5	3.5	6.0	2.5	6.5	2.5	9.0	4.5	10.5	8.5
25	9.0	6.0	6.0	3.5	6.5	3.0	7.0	4.0	7.0	3.5	8.5	5.5
26	9.5	6.5	4.0	1.5	4.0	1.5	4.0	2.0	6.0	2.0	7.0	2.5
27	10.0	7.0	3.5	1.0	6.5	3.5	4.5	2.0	6.0	3.5	9.0	4.5
28	9.0	6.0	3.5	2.0	7.0	5.0	7.0	1.5	6.5	2.0	10.0	6.0
29	10.0	7.0	3.5	1.0	7.5	4.5	9.0	5.5	---	---	10.0	8.5
30	12.0	9.5	3.5	1.5	9.0	6.0	8.5	5.0	---	---	9.5	6.0
31	11.5	10.0	---	---	9.5	6.5	9.5	5.5	---	---	7.0	4.5
MONTH	12.5	2.5	13.0	0.5	9.5	0.0	9.5	0.5	10.0	1.0	10.5	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	5.5	15.0	11.0	15.5	12.5	17.5	15.5	17.0	15.0	17.0	13.5
2	10.0	6.0	16.5	13.0	14.5	11.0	17.5	14.5	19.0	15.0	16.5	13.0
3	9.5	5.0	13.0	10.5	14.0	11.0	18.5	14.0	18.0	15.0	18.0	15.0
4	5.5	2.5	13.0	11.5	14.0	11.0	17.5	15.0	18.5	15.5	19.0	15.5
5	7.0	2.0	12.5	9.0	15.5	12.0	17.0	14.5	18.0	15.5	19.5	16.0
6	8.0	3.0	13.0	8.5	15.0	13.0	15.5	13.5	16.5	15.5	18.5	16.5
7	8.0	3.5	13.0	11.0	16.0	12.5	15.0	13.0	16.5	15.0	17.0	16.0
8	8.5	5.5	13.5	11.0	15.0	11.5	15.5	13.5	16.5	14.5	18.5	15.5
9	9.5	6.5	14.0	11.5	14.0	11.0	17.0	13.0	16.0	13.5	19.0	16.0
10	10.0	7.0	13.5	11.0	13.5	13.0	16.5	14.0	16.5	14.5	19.0	16.0
11	9.5	7.0	12.5	10.0	13.5	12.5	16.0	14.0	16.0	13.0	18.5	17.0
12	9.5	6.0	12.5	10.5	14.5	12.0	16.5	14.0	16.5	13.5	18.0	17.0
13	9.0	4.0	13.5	10.5	14.5	11.5	16.5	14.0	17.0	14.0	17.0	14.5
14	8.5	6.5	13.0	9.0	15.5	11.5	16.0	13.0	17.0	15.0	15.0	12.0
15	8.5	6.5	12.5	11.0	15.5	12.5	16.0	14.0	17.0	15.5	14.5	12.0
16	8.5	4.0	14.5	11.5	16.0	12.5	16.5	13.5	17.5	15.0	14.5	13.0
17	11.0	5.5	14.0	11.5	16.5	12.0	16.5	13.5	17.5	15.5	15.0	14.5
18	12.5	8.0	13.0	11.5	16.5	13.5	16.5	13.5	18.0	16.0	16.0	15.0
19	10.5	8.0	14.5	11.5	16.5	13.5	17.0	14.0	16.5	14.5	17.0	15.5
20	12.0	7.5	15.0	11.5	16.5	13.5	16.5	13.5	17.0	14.5	17.0	14.5
21	11.0	6.5	15.0	12.0	19.0	14.0	17.5	14.0	17.0	14.5	17.0	15.0
22	11.5	6.5	15.5	12.5	16.0	14.5	17.5	14.5	19.0	14.5	15.5	14.5
23	12.5	7.5	16.5	12.5	16.0	13.0	18.0	15.5	19.0	16.5	15.0	14.0
24	13.0	9.5	16.0	13.0	16.0	13.0	17.5	15.0	19.5	18.0	16.0	15.0
25	15.0	11.0	16.0	12.5	17.0	14.0	18.0	15.0	20.0	18.0	15.5	12.0
26	15.5	9.5	15.5	13.5	16.5	13.5	18.5	16.0	20.5	18.0	13.5	12.0
27	14.0	9.0	15.5	12.5	16.5	13.5	18.5	15.5	19.0	16.0	13.0	12.0
28	14.5	11.0	14.0	12.0	16.5	13.5	19.0	15.0	17.5	14.0	13.0	10.5
29	15.0	11.5	15.0	12.5	18.5	15.5	19.0	15.5	16.5	13.0	13.0	10.5
30	15.0	11.0	15.5	13.0	19.0	15.5	20.0	15.5	17.0	13.0	14.0	11.5
31	---	---	14.5	13.0	---	---	19.0	16.0	18.5	14.0	---	---
MONTH	15.5	2.0	16.5	8.5	19.0	11.0	20.0	13.0	20.5	13.0	19.5	10.5
YEAR	20.5	0.0										

03460000 Cataloochee Creek near Cataloochee, N. C.--Continued

INSTANTANEOUS SUSPENDED SEDIMENT DISCHARGE FOR SELECTED DAYS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.				
01...	1045	36	2	.19
DEC.				
18...	1300	75	2	.40
JAN.				
09...	1200	114	2	.62
25...	1100	1610	383	1670
25...	2010	790	39	83
28...	1300	281	3	2.3
FEB.				
19...	1400	293	4	3.2
MAR.				
20...	1200	279	5	3.8
APR.				
15...	1130	140	6	2.3
MAY				
07...	1110	93	3	.75
JUNE				
18...	1100	60	3	.49
JULY				
31...	1500	35	4	.38
AUG.				
27...	1130	46	4	.50

WATER QUALITY DATA FURNISHED BY NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)
OCT.											
07...	1410	37	5	--	7.0	9.5	--	10.7	34	.6	40
14...	1130	35	6	28	6.8	10.0	--	10.8	30	2.0	10
23...	1115	44	5	--	6.7	4.5	--	12.3	<25	1.5	<10
NOV.											
04...	1130	37	9	24	6.8	9.0	--	10.7	<25	.6	10
JAN.											
15...	1000	247	3	--	6.1	12.0	--	2.0	<25	.6	<10
22...	1145	204	7	28	6.4	3.0	--	13.7	<25	.3	<10
28...	1230	268	3	21	5.7	7.0	--	11.2	<25	.3	<10
FEB.											
06...	1130	439	3	25	6.5	7.0	--	11.1	<25	.2	<10
11...	1045	202	3	30	6.1	6.0	--	12.4	<25	.2	20
17...	1130	218	7	21	6.1	6.0	--	9.7	<25	.8	130
27...	1440	262	11	--	7.1	6.0	--	13.2	<25	1.0	<10
MAR.											
03...	1030	162	3	16	6.2	5.0	--	13.2	<25	.5	70
12...	1100	276	6	23	6.0	4.0	--	13.2	<25	.6	<10
17...	1200	391	6	21	6.2	7.0	--	11.1	<25	.5	<10
24...	1400	760	7	23	6.1	6.0	--	10.0	<25	.8	70
APR.											
02...	1230	415	4	21	6.2	7.0	--	11.8	<25	.5	<10
07...	1030	218	9	--	5.8	6.0	--	12.9	<25	.2	<10
15...	1100	140	7	21	6.3	7.0	--	1.1	<25	1.0	<10
21...	1045	113	6	20	6.1	6.0	--	12.5	<25	.5	<10
29...	1030	93	5	20	6.1	7.0	--	12.2	<25	.6	30
MAY											
12...	1100	99	7	22	6.4	11.0	--	10.8	<25	.2	10
27...	1430	86	6	31	6.8	14.0	--	10.1	<25	.6	10
JUNE											
02...	1130	99	8	22	6.3	13.0	2	10.2	<25	<.1	10
11...	1200	73	8	28	6.2	12.0	--	10.6	<25	1.0	150
16...	1045	65	9	25	6.1	14.0	--	10.0	<25	.9	<10
26...	1000	55	6	--	6.5	16.0	--	9.0	<25	.5	40
JULY											
01...	1130	46	8	26	6.1	13.0	--	10.3	<25	.4	<10
04...	1400	44	7	26	6.2	19.0	--	--	<25	.6	<10
07...	1130	51	6	31	6.3	12.0	--	10.7	<25	.2	<10
15...	1400	42	7	25	6.3	16.0	17	9.3	<25	1.0	2000
21...	1335	47	6	23	6.2	14.0	2	10.0	<25	.6	12000
28...	1100	38	9	--	6.2	19.0	--	9.0	<25	.5	<10
AUG.											
11...	1200	43	8	22	6.4	19.0	--	9.2	<25	1.0	80
18...	1130	38	9	23	6.3	21.0	--	8.8	<25	.8	<10
25...	1145	36	6	22	6.4	18.0	--	9.2	<25	1.3	30
SEP.											
03...	1115	28	6	23	6.3	19.0	1	9.0	<25	.8	<10
07...	1130	41	7	22	6.3	19.0	--	9.1	<25	.4	<10
16...	1300	29	7	--	6.2	15.0	1	9.6	<25	.5	10

03479269 Watauga River at Beech Creek, N. C.

LOCATION.--Lat 36°16'10", long 81°53'02", Watauga County, on right bank 50 ft (15 m) upstream from bridge on Secondary Road 1200, 0.6 mi (1.0 km) upstream from Beech Creek, 1.0 mi (1.6 km) northeast of village of Beech Creek, 6.1 mi (9.8 km) downstream from gaging station, and at mile 58.3 (93.8 km).

DRAINAGE AREA.--126 mi^2 (326 km^2).

PERIOD OF RECORD.--Water temperatures: July 1971 to September 1975.

EXTREMES.--1974-75:
Water temperatures: Maximum, 27.0°C Aug. 26; minimum, freezing point on many days during winter months.

Period of record:
Water temperatures: Maximum, 27.0°C Aug. 26, 1975; minimum, freezing point on many days during winter period.

REMARKS.--Temperature data furnished by the Tennessee Valley Authority.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	11.5	14.5	11.5	0.0	0.0	8.0	4.5	9.5	9.0	5.0	3.5
2	13.0	9.5	14.5	12.0	0.0	0.0	4.5	0.5	9.5	7.0	4.5	0.5
3	10.0	9.0	14.5	12.0	0.0	0.0	3.5	0.5	7.0	5.5	0.5	0.0
4	10.0	7.0	14.0	12.0	0.0	0.0	4.0	3.0	5.5	1.0	1.5	0.0
5	11.0	8.0	14.0	13.0	0.0	0.0	3.0	0.5	6.0	1.0	4.0	0.5
6	12.0	9.0	13.5	10.5	0.0	0.0	3.0	1.0	6.0	5.5	5.0	2.0
7	13.5	10.0	10.5	8.0	0.0	0.0	4.0	1.5	5.5	2.0	5.5	4.5
8	13.0	10.5	8.0	6.0	3.0	0.0	4.5	4.0	3.5	0.0	5.5	2.0
9	12.0	9.5	7.0	4.5	3.0	0.0	6.0	4.5	3.5	1.5	3.5	0.0
10	12.0	9.0	7.0	4.5	0.0	0.0	6.0	5.5	2.0	0.0	4.0	1.5
11	13.0	9.5	8.5	5.5	0.5	0.0	8.0	6.0	4.5	2.0	6.0	2.0
12	13.5	10.5	8.5	6.0	3.0	0.5	7.0	5.0	6.5	4.5	7.0	5.5
13	14.0	11.5	6.0	4.5	4.0	3.0	5.0	1.5	5.5	3.0	8.0	6.5
14	14.0	12.0	4.5	3.5	4.0	2.0	1.5	0.0	4.0	2.0	8.0	5.0
15	13.5	12.0	3.5	1.5	3.5	2.0	2.0	0.0	6.0	3.5	6.5	3.5
16	14.0	13.0	3.5	1.0	4.0	2.0	2.0	1.5	7.0	5.5	6.5	5.0
17	13.0	11.5	4.0	3.0	3.5	1.0	2.0	0.0	9.5	7.0	7.0	5.0
18	12.0	10.0	7.0	4.0	1.0	0.0	4.0	1.0	9.5	7.0	7.0	5.0
19	11.0	8.5	9.0	7.0	5.0	0.5	6.5	4.0	8.0	6.5	6.0	5.0
20	8.5	5.5	9.0	6.0	3.0	2.0	6.5	3.0	6.5	4.0	9.0	5.5
21	7.0	4.5	6.0	4.0	3.0	2.0	3.0	0.5	6.0	3.0	10.0	6.0
22	6.0	5.0	4.5	3.5	2.0	1.0	4.0	3.0	6.5	4.0	10.0	8.5
23	8.5	5.5	5.0	2.0	2.0	0.5	4.5	2.0	10.5	6.5	11.0	7.0
24	9.5	6.5	5.0	3.5	4.5	2.0	6.0	3.5	10.5	7.0	11.5	10.5
25	11.5	8.5	4.5	3.0	6.0	4.0	6.5	5.5	7.0	4.5	10.5	6.0
26	13.0	10.5	3.0	1.0	4.0	1.5	5.5	4.0	6.5	3.0	9.0	4.0
27	12.0	9.5	3.0	0.5	5.0	3.5	5.0	1.5	6.0	4.5	8.0	5.0
28	10.5	9.0	3.0	1.0	6.0	5.0	7.0	3.5	5.5	2.0	10.0	6.0
29	13.0	9.0	3.0	0.5	6.5	5.0	9.0	5.5	---	---	10.5	9.5
30	14.0	12.0	2.0	0.0	8.5	6.5	9.0	7.0	---	---	11.0	7.0
31	13.5	12.0	---	---	8.0	6.5	9.0	7.0	---	---	7.0	4.0
MONTH	14.0	4.5	14.5	0.0	8.5	0.0	9.0	0.0	10.5	0.0	11.5	0.0

03479269 Watauga River at Beech Creek, N. C.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
(CONTINUOUS ETHYL ALCOHOL-ACTUATED THERMOGRAPH)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	6.5	17.0	15.5	18.0	16.0	23.5	20.5	24.5	22.0	23.5	20.0
2	11.0	7.0	19.5	15.0	17.0	14.5	24.0	20.0	25.0	21.5	24.5	21.0
3	11.5	5.0	18.0	14.5	18.0	15.0	24.0	20.0	24.5	22.0	25.5	21.5
4	6.0	3.0	16.0	13.5	18.5	15.0	22.0	20.0	24.5	21.5	25.5	22.0
5	6.5	3.0	17.0	13.0	19.0	16.0	22.0	18.5	25.0	20.5	26.0	23.0
6	6.5	3.5	19.0	14.0	19.0	16.5	21.5	19.5	20.5	19.0	25.0	22.0
7	8.0	4.0	18.0	15.0	20.0	16.5	20.5	18.5	20.0	19.0	22.0	20.5
8	9.0	5.5	18.0	14.0	19.5	16.0	21.0	19.5	21.5	19.0	22.0	19.5
9	10.0	7.0	17.0	15.5	19.0	15.5	23.0	19.5	22.0	19.0	23.5	20.0
10	12.0	9.5	18.0	14.5	18.5	15.5	23.5	20.0	21.5	20.0	23.0	20.0
11	11.0	9.5	18.0	14.0	15.5	15.0	23.0	20.5	22.0	19.5	22.0	20.5
12	10.5	8.0	16.5	14.5	17.0	15.5	21.5	19.0	24.0	20.0	21.5	20.5
13	10.0	6.0	18.5	14.5	19.0	15.5	21.0	18.5	25.0	21.0	20.5	18.0
14	9.0	7.0	19.0	14.5	19.5	16.0	21.5	19.0	25.0	22.0	19.0	15.5
15	7.0	6.0	18.0	15.5	19.5	16.5	21.0	19.5	25.0	21.5	18.5	15.5
16	9.5	4.5	17.0	15.0	21.0	18.0	21.5	18.5	25.0	23.0	18.0	15.5
17	11.0	9.0	17.0	15.0	21.5	18.5	20.5	19.0	24.0	21.5	17.0	16.5
18	12.0	10.0	16.0	14.0	22.0	19.5	22.0	18.5	25.0	21.0	16.5	15.5
19	12.0	10.0	17.0	14.0	21.0	18.5	23.0	19.5	25.5	21.5	18.5	16.0
20	13.0	9.0	18.5	15.0	21.0	19.5	22.0	20.5	26.0	22.0	20.0	17.0
21	13.5	9.0	20.0	16.0	23.0	19.5	23.5	20.0	25.5	23.0	20.0	18.5
22	14.5	9.5	21.0	18.0	23.5	20.0	24.0	21.5	25.5	22.0	19.5	16.5
23	15.0	11.0	20.5	18.5	23.5	20.0	23.0	21.0	26.0	23.0	16.5	16.0
24	16.5	13.0	21.5	18.0	23.0	19.5	23.5	21.0	26.5	23.5	18.0	16.0
25	16.0	14.0	22.0	19.5	24.0	19.5	21.0	20.0	26.5	23.0	17.0	15.0
26	18.0	13.5	22.0	20.0	24.5	21.0	24.0	19.5	27.0	23.5	16.5	15.0
27	18.0	13.5	20.5	19.0	23.0	20.0	25.0	21.0	25.5	22.0	15.5	14.5
28	18.5	15.0	20.0	18.5	23.0	20.5	25.0	20.5	24.5	21.5	16.0	14.0
29	18.0	16.0	19.5	17.0	23.5	20.5	25.5	21.0	24.5	20.5	16.0	14.0
30	19.0	15.5	18.5	15.5	23.5	21.0	25.0	21.5	24.0	20.5	17.0	14.5
31	---	---	18.0	16.0	---	---	25.0	21.5	23.0	20.5	---	---
MONTH	19.0	3.0	22.0	13.0	24.5	14.5	25.5	18.5	27.0	19.0	26.0	14.0
YEAR	27.0	.0.0										

Section 3. GROUND-WATER RECORDS

WELL DESCRIPTIONS AND WATER-LEVEL MEASUREMENTS

Beaufort County

351932076480001. Local number NC-13. North Carolina Phosphate Co. No. 1. Near Aurora. Drilled unused artesian well in Castle Hayne Limestone of middle and late Eocene age, diam 4 in (10 cm), depth 167 ft (51 m), drilled to 186 ft (57 m), cased to 186 ft (57 m). Lsd 10 ft (3.0 m) above msl. MP top of casing, 0.13 ft (0.04 m) above lsd. Highest water level 1.38 ft (0.42 m) below lsd, Apr. 9, 1965; lowest 61.65 ft (18.79 m) below lsd, Sept. 26, 1968. Records available: 1964-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	53.32	53.13	54.51	---	55.62	54.91	56.10	54.97	56.09
10	---	---	---	53.16	53.03	54.68	---	55.46	54.66	56.20	55.54	55.77
15	---	---	---	52.94	52.95	---	---	55.13	54.57	56.39	55.90	55.59
20	---	---	---	52.72	53.19	---	55.87	55.05	54.91	56.69	55.80	55.05
25	---	---	---	---	53.80	---	55.67	55.01	55.14	56.36	55.98	54.80
EOM	---	---	---	---	54.39	---	55.66	55.51	55.34	54.97	56.15	55.32

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	55.91	56.35	55.34	56.59	56.84	56.70	56.15	56.19	57.99	58.85	58.72	59.13
10	55.89	56.30	55.38	56.17	56.82	56.69	55.87	56.78	58.65	58.58	58.62	59.02
15	55.86	55.36	55.43	56.29	56.78	56.69	55.74	57.13	58.56	58.48	58.67	58.87
20	56.11	55.39	56.29	56.33	56.75	56.32	56.15	57.14	59.04	58.54	58.66	58.58
25	56.47	55.38	56.59	56.85	56.73	56.36	55.99	57.17	58.91	58.71	58.87	58.42
EOM	56.43	55.43	56.66	57.17	56.72	55.98	56.28	57.94	58.84	58.72	58.91	58.70

353314077041001. Local number NC-14. City of Washington. Drilled unused artesian well in Castle Hayne Limestone of middle and late Eocene age, diam 8 in (20 cm), depth 111 ft (34 m), drilled to 158 ft (48 m), gravel walled to 90 ft (27 m). Lsd 9.42 ft (2.87 m) above msl. MP top of instrument shelf, at lsd. Highest water level 1.02 ft (0.31 m) above lsd, Apr. 10, 1964; lowest 25.37 ft (7.73 m) below lsd, July 22, 1972. Records available: 1948-61, 1963-75. Water levels affected by nearby pumping.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	15.46	---	---	15.76	20.42	---	16.82	18.12
10	---	---	---	---	14.51	---	20.37	19.97	19.77	18.31	16.35	17.89
15	---	---	---	---	15.51	---	15.33	19.82	20.97	14.06	19.61	11.33
20	---	---	---	14.43	14.19	---	23.30	19.98	20.29	17.00	17.93	17.96
25	---	---	---	15.72	---	---	20.05	21.37	19.04	18.82	14.83	21.14
EOM	---	---	---	15.56	---	---	16.88	21.06	19.14	18.77	14.74	19.46

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.85	21.29	20.61	13.00	17.67	20.25	19.01	19.16	20.13	11.45	19.42	21.07
10	21.36	17.77	20.11	19.54	19.20	18.50	19.81	19.01	19.53	19.10	10.72	21.36
15	19.84	21.57	17.23	18.69	19.09	20.27	17.83	20.21	11.86	20.59	17.99	16.80
20	17.01	20.25	19.38	17.04	19.72	19.87	13.14	19.68	20.55	19.50	20.89	15.90
25	18.64	18.88	9.20	15.58	20.17	19.61	19.78	16.46	18.20	21.00	15.37	19.51
EOM	21.26	12.60	8.87	19.54	20.39	18.04	19.48	20.16	20.34	17.60	11.43	20.94

353227076374001. Local number NC-15. City of Belhaven. Drilled unused artesian well in Castle Hayne Limestone of middle and late Eocene age, diam 4 in (10 cm), depth 246 ft (75 m), drilled to 260 ft (79 m), cased to 260 ft (79 m). Lsd 3.50 ft (1.07 m) above msl. MP top of recorder shelf, 5.00 ft (1.52 m) above lsd. Highest water level 0.25 ft (0.076 m) below lsd, July 24, 1965; lowest 14.87 ft (4.53 m) below lsd, Oct. 4, 1968. Records available: 1965-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	10.36	10.04	---	---	---	---	10.09	10.46	10.49
10	---	---	---	10.19	9.84	---	---	---	---	10.08	10.47	---
15	---	---	---	10.19	---	---	---	---	9.90	10.17	10.48	---
20	---	---	---	10.03	---	---	---	---	10.07	10.25	10.49	---
25	---	---	---	10.02	---	---	---	---	9.96	10.31	10.49	---
EOM	---	---	---	10.01	---	---	---	---	10.00	10.39	10.49	---

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	10.94	10.77	---	---	10.64	10.35	10.10	10.48	---	10.88
10	---	---	10.92	10.52	---	---	10.39	10.35	10.23	10.44	---	11.10
15	---	10.88	10.85	10.49	---	10.35	10.18	10.35	10.23	10.43	---	11.10
20	---	10.87	10.77	10.51	---	10.04	10.28	10.35	10.34	10.43	---	11.11
25	---	10.95	10.76	10.35	---	10.12	10.35	10.35	10.53	10.43	---	11.11
EOM	---	11.00	10.82	---	---	10.29	10.35	10.35	10.41	10.43	10.87	11.12

Beaufort County--Continued

353052077002201. Local number NC-49. Moose Club. Near Washington. Drilled unused artesian well in Castle Hayne Limestone of middle and late Eocene age, diam 4 in (10 cm), depth 185 ft (56 m), cased to 123 ft (37 m). Lsd 13.95 ft (4.25 m) above msl. MP top of casing, 1.00 ft (0.30 m) below lsd. Highest water level 5.17 ft (1.58 m) below lsd, Oct. 25, 1971; lowest 9.57 ft (2.92 m) below lsd, June 25, 1975. Records available: 1965-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	7.60	7.35	7.57	6.93	7.34	7.12	8.43	8.48	---
10	---	---	---	7.47	7.19	7.77	7.13	7.26	7.90	8.16	8.05	---
15	---	---	---	7.54	7.35	7.70	6.86	7.54	7.53	8.38	8.01	---
20	---	---	---	7.61	7.15	7.49	7.01	7.64	8.18	8.82	---	---
25	---	---	---	7.42	7.32	7.20	7.34	7.78	8.02	8.72	---	---
EOM	---	---	---	7.42	7.38	7.14	7.65	7.54	7.85	8.55	---	---

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.04	8.51	8.08	7.74	7.03	7.19	7.81	7.18	7.92	8.41	7.85	8.41
10	8.04	8.57	8.00	7.59	7.12	7.33	---	7.17	8.04	8.41	7.81	8.42
15	8.20	8.59	7.90	7.41	7.20	7.33	---	7.54	8.10	7.38	8.08	8.59
20	8.26	8.45	7.96	7.39	6.77	6.92	---	7.32	8.67	7.12	8.09	8.58
25	8.26	8.50	7.87	7.17	6.99	6.91	7.38	7.51	9.39	7.50	8.29	8.36
EOM	8.45	8.44	7.69	7.25	6.92	7.30	7.36	7.51	8.11	7.48	---	8.01

353112076482801. Local number NC-57. Jack Oden. Near Bath. Drilled unused artesian well in Castle Hayne Limestone of middle and late Eocene age, diam 3 in (7.6 cm), depth 98 ft (30 m), cased to 55 ft (17 m). Lsd 4.7 ft (1.4 m) above msl. MP top of casing, 1.42 ft (0.43 m) above lsd. Highest water level 0.43 ft (0.13 m) below lsd, June 27, 1974; lowest 9.64 ft (2.94 m) below lsd, Oct. 12, 15-16, 1968. Records available: 1965-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	7.12	5.51	5.98	6.11	6.22	6.35	6.11	6.76	4.26
10	---	---	---	6.95	5.52	6.19	6.10	6.24	6.31	6.11	5.04	4.27
15	---	---	---	6.86	5.49	6.18	5.78	6.36	3.62	6.40	5.30	4.47
20	---	---	---	6.85	5.39	6.01	6.00	6.53	3.94	6.62	5.70	4.51
25	---	---	---	5.54	5.60	6.05	6.08	6.55	4.33	6.78	3.64	4.63
EOM	---	---	---	5.40	5.85	6.08	6.21	6.36	5.72	6.87	4.18	4.64

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.81	5.61	5.70	4.62	4.16	5.04	5.13	5.09	5.59	6.09	6.62	7.14
10	4.89	5.64	3.92	4.47	4.73	5.19	5.10	5.30	5.74	6.01	6.73	7.19
15	5.16	5.82	4.72	3.98	4.91	5.15	4.25	5.47	5.87	5.81	6.99	7.31
20	5.20	5.64	4.44	4.53	3.74	4.12	4.75	5.47	6.10	5.97	6.94	7.22
25	5.41	5.74	4.82	4.57	4.59	4.66	4.95	5.55	6.37	6.16	7.07	7.09
EOM	5.53	5.79	4.58	4.52	4.75	4.92	5.11	5.35	5.96	6.37	7.24	7.01

353343076371801. Local number NC-75. Younce Farm. Belhaven. Drilled observation well in Yorktown Formation of late Miocene age, diam 2 in (5.1 cm), depth 145 ft (44 m), cased to 120 ft (37 m). Lsd, 3.8 ft (1.2 m) above msl. MP top of casing, 2.00 ft (0.61 m) above lsd. Highest water level 1.39 ft (0.42 m) below lsd, Jan. 14-15, 1968; lowest 13.66 ft (4.16 m) below lsd, Aug. 19, 1975. Records available: 1967-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	7.53	6.44	5.88	6.28	7.04	6.84	8.43	9.05	---
10	---	---	---	6.86	5.71	6.07	5.74	7.24	6.64	9.06	8.81	---
15	---	---	---	6.67	5.68	6.27	6.33	6.69	7.07	8.82	7.97	---
20	---	---	---	6.29	5.48	5.90	6.92	6.87	8.23	9.52	---	---
25	---	---	---	6.56	5.37	5.85	7.37	7.25	8.44	9.71	---	---
EOM	---	---	---	6.20	5.99	5.69	7.38	6.95	7.68	9.67	---	---

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.25	8.32	7.20	6.22	5.92	7.61	6.22	5.74	6.64	7.80	10.20	9.99
10	8.23	7.84	7.09	6.26	6.51	6.75	5.83	6.11	7.14	7.97	8.74	9.83
15	8.27	7.68	6.78	6.64	6.87	6.12	5.23	6.69	7.34	9.85	12.73	9.31
20	7.47	7.38	7.06	5.86	5.59	5.52	5.11	6.67	8.75	5.82	13.41	9.14
25	8.18	7.20	6.55	5.31	5.30	5.48	5.39	6.11	9.22	7.54	12.73	9.60
EOM	8.41	7.48	6.51	5.76	5.82	5.64	5.68	6.29	8.00	9.38	9.19	8.48

Beaufort County--Continued

352615077083401. Local number NC-137. N. C. Department of Transportation. Near Wilmar. Drilled unused artesian well in limestone of Castle Hayne Formation of Tertiary age, diam 4 in (10 cm), depth 142 ft (43 m), cased to 72 ft (22 m). MP top of casing, 57.64 ft (17.57 m) above msl. Highest water level, 36.94 ft (11.26 m) above msl, Feb. 3, 1972; lowest 30.86 ft (9.41 m) above msl, Dec. 7, 1973. Records available: 1972-75.

WATER LEVEL (ALTITUDE ABOVE MSL) , PERIOD JANUARY TO SEPTEMBER 1972
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	36.68	---	36.56	36.24	35.87	35.10	35.20	35.00
10	---	---	---	---	---	---	36.50	36.09	35.85	34.90	35.22	34.91
15	---	---	---	---	---	---	36.55	36.04	35.75	---	35.25	34.95
20	---	---	---	36.49	---	36.57	36.45	35.92	35.66	34.88	---	34.86
25	---	---	---	36.58	---	36.59	36.43	35.89	35.51	35.01	---	34.71
EOM	---	---	---	36.69	---	36.65	36.27	35.89	35.35	35.11	34.96	34.64

WATER LEVEL (ALTITUDE ABOVE MSL) , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	34.42	34.03	---	---	36.40	---	36.42	36.31	35.48	34.51	---	32.58
10	34.16	---	---	---	36.54	---	36.49	36.34	35.27	34.36	33.19	32.43
15	34.10	---	---	---	36.58	36.59	36.37	36.20	35.01	34.19	33.08	32.29
20	33.89	34.52	---	---	36.41	36.51	36.39	36.10	34.79	33.97	33.00	32.16
25	33.94	---	---	---	---	36.47	36.41	35.96	34.66	33.70	32.95	31.98
EOM	33.90	---	---	---	---	36.38	36.36	35.70	34.57	33.52	32.74	31.89

WATER LEVEL (ALTITUDE ABOVE MSL) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	31.90	31.50	30.97	33.40	35.00	35.24	---	35.78	35.33	34.58	33.45	34.94
10	31.90	31.38	31.16	33.81	35.18	---	---	35.66	35.34	34.47	33.57	35.20
15	31.81	31.32	---	34.10	35.38	---	---	35.53	35.35	34.25	33.72	35.32
20	31.77	31.19	31.77	34.34	35.37	---	36.05	35.43	35.27	33.98	33.99	35.49
25	31.75	31.13	32.24	34.54	35.18	---	36.05	35.35	35.01	33.77	34.32	35.51
EOM	31.69	30.97	32.93	34.85	35.10	---	35.90	35.33	34.86	---	34.63	35.64

WATER LEVEL (ALTITUDE ABOVE MSL) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	35.49	34.95	34.72	35.81	36.53	36.43	36.28	35.87	35.23	---	33.88	32.84
10	35.48	34.77	34.92	35.95	36.38	36.41	36.20	35.70	35.05	33.55	33.77	32.74
15	35.38	34.66	35.18	36.06	36.39	36.40	36.23	35.54	34.94	33.65	33.61	32.62
20	35.26	34.75	35.32	36.21	36.56	36.50	36.10	35.41	34.73	33.69	33.35	32.65
25	35.11	34.62	35.53	36.39	36.56	36.43	36.05	35.35	34.38	33.81	33.18	32.79
EOM	35.00	34.57	35.68	36.35	36.51	36.33	35.93	35.31	34.07	33.88	33.93	32.91

352615077083402. Local number NC-138. N. C. Department of Transportation. Near Wilmar. Drilled unused water-table well in fluvial deposits of sand and clay of Pleistocene age, diam 4 in (10 cm), depth 12 ft (4 m), cased to 7 ft (2 m). MP top of casing, 58.14 ft (17.72 m) above msl. Highest water level, 57.37 ft (17.49 m) above msl, Oct. 23, 1971; lowest 51.70 ft (15.76 m) above msl, Dec. 7, 1973. Records available: 1971-75.

WATER LEVEL (ALTITUDE ABOVE MSL) , WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	56.96	56.84	56.72	56.61	56.94	56.75	56.88	56.76	56.70	54.85	56.64	56.61
10	57.09	56.72	56.66	56.52	56.81	56.66	56.83	56.48	56.14	54.50	56.55	56.40
15	56.78	56.62	56.60	57.03	56.90	56.61	56.83	56.51	55.44	56.52	55.94	55.60
20	56.65	56.64	56.74	56.81	56.96	56.90	56.48	56.13	55.27	56.23	55.87	55.17
25	57.17	56.72	56.69	56.80	56.83	56.95	56.80	56.69	55.55	56.75	55.33	54.84
EOM	56.86	---	56.55	---	56.83	57.10	56.48	56.87	55.20	56.62	55.59	54.64

WATER LEVEL (ALTITUDE ABOVE MSL) , WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	54.36	56.16	56.76	56.97	56.87	56.99	56.95	56.79	55.03	54.85	53.69	52.98
10	54.30	56.08	56.85	56.91	56.90	56.84	56.96	56.86	54.65	54.20	53.26	52.83
15	54.08	55.84	56.82	56.91	57.22	56.74	56.73	56.56	54.70	53.82	53.14	52.73
20	54.81	56.50	56.75	57.03	56.91	56.62	56.51	56.08	55.18	53.60	53.27	52.83
25	55.51	56.48	56.86	56.89	56.79	---	56.14	56.10	55.63	53.30	53.53	52.63
EOM	56.36	56.81	56.95	56.84	57.01	56.82	56.88	55.71	55.49	53.47	53.32	52.52

Beaufort County--Continued

WATER LEVEL (ALTITUDE ABOVE MSL) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	52.84	52.05	51.73	56.50	56.82	56.60	57.05	55.76	56.85	54.42	54.78	56.84
10	52.75	52.00	52.56	56.53	56.80	54.35	56.92	56.32	56.55	54.73	56.57	56.70
15	52.52	51.93	52.96	56.44	56.80	56.52	57.00	55.72	55.80	54.07	56.60	56.27
20	52.35	51.87	55.05	56.38	56.93	56.99	56.68	56.53	55.08	53.65	56.69	56.43
25	52.25	51.82	56.27	56.60	56.78	57.05	56.50	56.42	54.54	53.41	56.86	55.89
EOM	52.15	51.76	56.27	56.81	56.72	56.98	55.93	56.58	55.26	---	56.67	56.26

WATER LEVEL (ALTITUDE ABOVE MSL) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	55.57	54.76	56.60	56.84	57.04	56.71	56.62	56.32	55.70	53.82	54.29	52.99
10	55.25	54.58	56.60	56.84	56.80	56.67	56.58	55.65	54.93	53.95	53.94	52.98
15	54.96	54.46	56.58	56.93	56.71	56.85	57.03	55.29	54.54	56.63	53.48	52.77
20	55.67	55.58	56.67	56.92	57.06	56.94	56.84	55.75	54.88	56.42	53.26	52.71
25	55.33	55.60	56.77	57.06	56.93	56.80	56.55	56.32	54.12	55.60	53.11	53.75
EOM	54.99	55.62	56.84	56.79	56.83	56.59	56.44	56.48	54.15	54.91	52.87	55.33

Bertie County

355930076570001. Local number NC-32. Town of Windsor. Drilled unused artesian well in sand of Black Creek Formation of late Cretaceous age, diam 8 in (20 cm), depth 78 ft (24 m), drilled to 350 ft (107 m), gravel-walled. Lsd 28.38 ft (8.65 m) above msl. MP top of instrument shelf 1.40 ft (0.43 m) above lsd. Highest water level 16.22 ft (4.99 m) below lsd, Aug. 14, 1958; lowest 32.75 ft (9.98 m) below lsd, June 3-4, 1975. Records available: 1955.75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	27.63	27.41	27.43	26.80	27.11	27.04	27.69	27.67	27.92
10	---	---	---	27.33	27.68	27.60	26.83	26.96	27.05	27.69	27.69	27.80
15	---	---	---	27.35	27.52	27.56	26.81	26.97	27.48	27.81	28.05	27.82
20	---	---	---	27.55	27.25	27.27	26.94	27.34	27.53	28.73	28.43	27.73
25	---	---	---	27.40	27.59	27.20	26.83	27.25	27.54	28.47	28.55	27.58
EOM	---	---	---	27.71	27.56	27.04	27.01	27.04	27.63	27.85	28.05	27.52

WATER LEVEL (FT. BELOW LSD) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	27.56	27.33	27.19	27.24	28.24	28.75	28.52	29.63	32.50	31.62	29.59	28.87
10	27.58	27.24	27.08	27.31	28.60	28.56	28.80	29.92	31.46	31.12	29.54	28.72
15	27.52	27.40	27.15	27.38	28.80	28.34	28.88	30.08	32.26	30.70	29.47	28.60
20	27.42	27.13	27.06	27.54	28.68	28.08	29.20	29.69	32.14	30.33	29.22	28.70
25	27.35	27.18	27.19	27.69	28.74	28.18	29.62	30.40	32.09	29.95	29.10	28.34
EOM	27.38	27.23	27.19	28.22	28.78	28.30	29.75	29.96	31.82	29.87	28.96	28.25

Brunswick County

335535078011001. Local number NC-22. Town of Southport. Drilled unused artesian well in Castle Hayne Limestone of middle and late Eocene age, diam 10 in (25 cm), depth 163 ft (50 m), cased to 60 ft (18 m). Lsd 20.5 ft (6.2 m) above msl. MP top of casing 5.27 ft (1.61 m) above lsd. Highest water level 15.14 ft (4.61 m) below lsd, Mar. 29, 1965; lowest 31.18 ft (9.50 m) below lsd, July 1, 1970. Records available: 1963-75.

WATER LEVEL (FT. BELOW LSD), PERIOD APRIL TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	---	20.48	23.01	22.22	22.47	21.74	23.43
10	---	---	---	---	---	---	21.58	22.22	22.59	22.52	21.49	24.20
15	---	---	---	---	---	---	22.85	22.06	22.92	22.61	21.44	21.11
20	---	---	---	---	---	---	22.86	22.70	23.33	22.29	21.26	20.91
25	---	---	---	---	---	---	23.20	22.04	23.15	22.08	21.33	20.89
EOM	---	---	---	---	---	---	23.04	21.87	21.82	22.24	21.64	20.20

WATER LEVEL (FT. BELOW LSD) , WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.85	---	21.20	21.23	20.67	20.97	20.61	20.34	21.68	22.33	22.75	22.04
10	20.73	---	21.18	21.26	20.79	21.09	21.14	20.71	21.85	22.38	22.82	22.00
15	20.78	20.82	20.91	21.43	21.08	21.11	20.93	20.83	21.43	21.52	22.82	22.23
20	---	20.96	20.79	21.40	21.16	21.00	20.98	20.94	22.15	21.63	22.81	21.78
25	---	21.10	20.88	21.56	20.83	20.84	20.93	21.34	22.45	21.55	22.33	21.63
EOM	---	21.17	21.17	20.97	21.31	20.76	20.83	21.50	21.70	22.19	21.93	21.77

Carteret County

344332076463101. Local number NC-67. Camp Glen Industrial Education Center. Morehead City. Drilled unused artesian well in Castle Hayne Limestone of middle and late Eocene age, diam 8 in (20 cm), depth 235 ft (72 m), cased to 172 ft (52 m). Lsd 27 ft (8.2 m) above msl (revised). MP top of instrument shelf, 3.20 ft (0.98 m) above lsd. Highest water level 16.74 ft (5.10 m) below lsd, Mar 17, 1972; lowest 20.70 ft (6.31 m) below lsd July 28, 1973. Records available: 1967-75. Well destroyed in June 1975.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	18.10	17.78	18.03	17.64	18.43	18.52	---	---	---
10	---	---	---	18.00	17.66	18.01	17.99	18.24	18.72	---	---	---
15	---	---	---	18.09	17.88	18.05	17.93	18.63	18.83	---	---	---
20	---	---	---	17.97	17.58	17.84	18.37	18.56	19.02	---	---	---
25	---	---	---	18.08	17.95	17.95	18.30	18.61	18.73	---	---	---
EOM	---	---	---	17.90	18.12	17.56	18.50	---	18.88	---	---	---

WATER LEVEL (FT. BELOW LSD, PERIOD OCTOBER 1974 TO JUNE 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	18.86	18.66	18.27	18.06	17.52	17.80	17.95	17.78	18.84	---	---	---
10	18.56	18.22	18.19	18.03	17.65	17.76	17.71	18.07	19.13	---	---	---
15	18.65	18.55	18.07	18.09	17.75	17.84	17.65	18.19	18.82	---	---	---
20	18.50	18.30	18.15	17.92	17.45	17.47	17.90	18.13	19.40	---	---	---
25	18.50	18.21	18.12	17.70	17.50	17.48	17.93	18.48	---	---	---	---
EOM	18.77	18.35	18.09	18.02	17.68	17.96	17.87	18.66	---	---	---	---

Chowan County

361842076364001. Local number NC-31. U. S. Geol. Survey. Near Gliden. Drilled observation artesian well in Beaufort Formation of Paleocene age, diam 2 in (5.1 cm), depth 242 ft (74 m), cased to 232 ft (71 m), screened from 232 ft (71 m) to 242 ft (74 m). Lsd 37.50 ft (11.43 m) above msl. MP top of casing, 2.05 ft (0.62 m) above lsd. Highest water level 15.12 ft (4.61 m) below lsd, Feb. 25, 1965; lowest 19.04 ft (5.80 m) below lsd, July 17, 1975. Records available: 1962-75. Recording removed June 3, 1975.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	16.81	16.75	16.90	16.77	16.94	16.99	17.17	16.97	17.06
10	---	---	---	16.80	16.76	16.92	16.81	16.90	16.98	17.16	16.95	17.01
15	---	---	---	16.81	16.89	16.93	16.79	16.98	17.03	17.21	17.01	17.05
20	---	---	---	16.81	16.79	16.84	16.93	17.03	17.07	17.24	16.96	17.07
25	---	---	---	16.81	16.84	16.90	16.92	17.01	17.05	17.24	16.98	17.08
EOM	---	---	---	16.74	16.91	16.77	16.96	16.96	17.08	16.98	17.00	17.07

WATER LEVEL (FT. BELOW LSD), PERIOD OCTOBER 1974 TO MAY 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	17.25	17.29	17.26	---	17.19	17.02	17.09	17.09	---	---	---	---
10	17.23	17.29	17.21	---	---	17.02	17.14	17.17	---	---	---	---
15	17.26	17.29	17.24	---	---	17.08	17.07	17.18	---	---	---	---
20	17.21	17.24	---	---	17.02	16.96	17.11	17.15	---	---	---	---
25	17.26	17.27	---	---	17.03	17.04	17.12	17.17	---	---	---	---
EOM	17.29	17.29	---	17.08	17.01	17.09	17.16	17.10	---	---	---	---

NOTE.--Water levels for June 3, 1975, 17.13 ft.; July 17, 1975, 19.04 ft.; and August 28, 1975, 17.67 ft., from taped measurements.

361427076393001. Local number NC-58. Chowan County High School. Near Icaria. Drilled unused artesian well in sands of Paleocene age, diam 8 in (20 cm), depth 320 ft (98 m), reported cased to 320 ft (98 m). Lsd 26.58 ft (8.10 m) above msl. MP top of casing, 0.90 ft (0.27 m) above lsd. Highest water level 7.91 ft (2.41 m) below lsd, Mar. 13, 1957; lowest 11.36 ft (3.46 m) below lsd, Aug. 28, 1975. Records available: 1955-75.

Date	Water level	Date	Water level	Date	Water level
Jan. 8, 1974	10.94	Aug. 8, 1974	10.67	Mar. 12, 1975	10.99
Feb. 12	10.87	Oct. 3	10.81	Apr. 23	10.89
Apr. 4	10.62	Nov. 13	10.79	June 3	11.06
May 14	10.68	Dec. 17	10.52	July 17	11.09
July 2	10.70	Jan. 30, 1975	11.20	Aug. 28	11.36

Chowan County--Continued

361350076392701. Local number NC-78. R. H. Hollowell. Near Tyner. Dug unused water-table well in sand of post-Miocene age, diam 36 in (91 cm), depth 14 ft (4.3 m), dug to 16 ft (4.9 m), cased to 16 ft (4.9 m), lined with concrete. Lsd 30 ft (9 m) above msl. MP top of instrument shelf, 2.35 ft (0.72 m) above lsd. Highest water level 0.78 ft (0.24 m) above lsd, Nov. 26, 1972; lowest 6.91 ft (2.11 m) below lsd, Dec. 6, 1973. Records available: 1962-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	0.75	1.11	1.77	0.49	2.92	1.28	4.65	0.39	2.83
10	---	---	---	0.65	1.11	2.26	0.81	2.91	2.24	1.38	0.55	0.98
15	---	---	---	1.14	1.27	1.65	1.06	3.66	3.50	3.44	1.72	1.92
20	---	---	---	1.29	0.66	0.70	2.05	4.05	3.52	4.12	0.54	2.50
25	---	---	---	0.49	1.18	0.83	2.67	4.02	3.73	1.74	1.04	1.60
EOM	---	---	---	1.02	1.41	0.57	3.34	2.00	4.08	0.42	1.81	2.37

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.31	4.58	---	0.63	0.43	1.29	1.35	2.47	2.92	5.43	4.02	5.92
10	3.86	4.85	---	0.77	1.11	1.62	2.11	3.38	4.05	3.27	4.20	6.06
15	4.20	---	---	0.55	1.45	0.46	0.84	3.94	4.38	0.67	4.47	6.23
20	2.98	---	2.35	0.69	0.64	0.43	1.33	2.42	4.77	1.01	4.87	6.21
25	3.97	---	0.90	0.45	0.50	0.92	2.20	3.13	5.23	1.34	5.30	3.56
EOM	4.32	---	0.88	1.17	1.11	1.66	2.80	1.30	5.51	3.09	5.75	3.16

Columbus County

341843078494001. Local number NC-23. Felton I. Granger. Chadbourn. Drilled unused artesian well in Peedee Formation of late Cretaceous age, diam 6 in (15 cm), depth 69 ft (21 m), drilled to 106 ft (32 m), cased to 77 ft (23 m). Lsd 101 ft (31 m) above msl. MP top of casing, 1.05 ft (0.32 m) above lsd. Highest water level 18.18 ft (5.54 m) below lsd, Apr. 3, 1975; lowest 29.70 ft (9.05 m) below lsd, Dec. 7-8, 1973. Records available: 1965-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	28.96	28.67	28.29	28.09	28.10	28.29	19.86	19.76	19.36
10	---	---	---	29.02	28.75	28.39	27.96	28.29	28.10	19.80	19.65	19.29
15	---	---	---	28.94	28.58	28.35	27.81	28.46	25.30	19.82	19.60	19.30
20	---	---	---	28.88	28.44	28.06	27.89	28.45	20.14	19.79	19.52	19.24
25	---	---	---	28.83	28.32	28.10	27.83	28.54	19.94	19.84	19.50	19.24
EOM	---	---	---	28.63	28.30	28.14	27.81	28.62	19.82	19.89	19.44	19.25

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.30	19.70	19.85	19.20	18.55	18.36	18.25	18.36	18.87	19.71	19.67	20.00
10	19.37	19.78	19.73	19.08	18.54	18.35	18.29	18.42	19.04	19.85	19.70	20.11
15	19.45	19.87	19.70	18.98	18.52	18.33	18.22	18.52	19.10	19.86	19.76	20.14
20	19.47	19.85	19.58	18.86	18.42	18.27	18.28	18.48	19.27	19.82	19.77	20.15
25	19.53	19.91	19.41	18.68	18.36	18.24	18.33	18.58	19.42	19.76	19.91	20.02
EOM	19.65	19.94	19.30	18.70	18.36	18.30	18.35	18.70	19.56	19.71	20.02	19.98

Craven County

352309077102901. Local number NC-16. W. L. Elkes, Near Wilmar. Drilled observation artesian well in Peedee Formation of late Cretaceous age, diam 2 in (5.1 cm), depth 322 ft (98 m), cased to 300 ft (91 m), screened 300-320 ft (92-98 m). Lsd 49 ft (15 m) above msl. MP top of casing, 0.30 ft (0.09 m) above lsd. Highest water level 15.01 ft below lsd (4.58 m), Aug. 23, 1966; lowest 21.25 ft (6.48 m) below lsd, Sept. 14, 1975. Records available: 1962-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	20.30	20.39	20.42	20.32	20.52	20.45	20.57	20.63	20.55
10	---	---	---	20.30	20.39	20.40	20.40	20.50	20.46	20.60	20.55	20.56
15	---	---	---	20.44	20.38	20.52	20.36	20.51	20.52	20.64	20.54	20.56
20	---	---	---	20.40	20.31	20.33	20.43	20.53	20.57	20.70	20.55	20.56
25	---	---	---	20.36	20.42	20.47	20.44	20.52	20.55	20.69	20.54	20.58
EOM	---	---	---	20.44	20.46	20.25	20.52	20.42	20.51	20.67	20.54	20.58

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	20.62	20.58	20.66	20.65	20.44	20.77	20.42	20.55	20.59	20.68	20.69	21.20
10	20.61	20.62	20.64	20.61	20.62	20.56	20.43	20.63	20.68	20.68	20.69	21.20
15	20.57	20.71	20.63	20.63	20.63	20.46	20.45	20.62	20.69	20.67	20.70	21.23
20	20.61	20.60	20.63	20.47	20.54	20.42	20.50	20.62	20.68	20.68	20.69	21.19
25	20.62	20.68	20.58	20.45	20.53	20.38	20.53	20.56	20.70	20.67	20.68	21.18
EOM	20.59	20.74	20.61	20.48	20.56	20.39	20.55	20.56	20.69	20.69	21.21	21.19

Craven County--Continued

351049077175501. Local number NC-44. City of New Bern. Cove City. Drilled observation artesian well in Black Creek Formation of late Cretaceous age, diam 2 in (5.1 cm), depth 854 ft (260 m), multi-screened. Screened intervals: 705-715 ft (215-218 m), 781-786 ft (238-240 m), 828-833 ft (252-254 m). Lsd 36.73 ft (11.20 m) above msl. MP top of instrument shelf, 2.06 ft (0.63 m) above lsd. Highest water level 6.01 ft (1.83 m) below lsd, Aug. 25-26, 1965; lowest 82.42 ft (25.12 m) below lsd, Aug. 25, 1975. Records available: 1965-75. Water levels affected by nearby pumping.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	60.83	60.98	60.52	61.16	62.31	63.63	65.90	65.70	66.84
10	---	---	---	62.02	60.23	60.97	60.95	62.34	63.82	65.96	65.57	66.31
15	---	---	---	62.00	60.17	61.10	60.83	62.91	64.44	65.89	65.78	66.09
20	---	---	---	---	60.24	60.75	61.47	62.87	65.95	66.41	65.88	65.68
25	---	---	---	---	60.01	62.53	62.03	63.53	65.11	65.96	65.50	65.64
EOM	---	---	---	---	60.41	60.83	62.58	63.44	64.94	66.04	66.28	65.70

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	65.75	65.55	65.74	65.29	64.85	65.31	65.63	66.10	---	---	---	---
10	66.49	65.43	65.37	65.38	65.11	65.21	65.41	67.03	---	---	---	---
15	66.34	65.68	64.93	---	65.40	65.59	65.01	67.60	---	---	---	---
20	67.28	65.20	64.64	---	65.08	65.23	65.40	67.86	---	---	---	---
25	66.96	65.16	64.87	---	65.44	65.47	66.17	67.72	---	---	---	---
EOM	65.96	65.46	65.26	65.75	65.35	65.31	66.01	68.49	---	---	---	---

350455077105001. Local number NC-45. O. D. SIMMONS. Near Tuscarora. Drilled observation water-table well in Castle Hayne Limestone of middle and late Eocene age, diam 8 in (20 cm), depth 45 ft (14 m), cased to 42 ft (13 m). Lsd 35 ft (11 m) above msl. MP top of casing, 1.32 ft (0.40 m) above lsd. Highest water level 2.10 ft (0.64 m) below lsd, Oct. 25, 1971; lowest 13.04 ft (3.97 m) below lsd, Oct. 16, 1968. Well was originally drilled to 1000 ft (305 m) as test well but was back filled to depth of about 47 ft (14 m). Records available: 1964-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	6.60	5.16	4.83	4.36	---	3.93	6.02	3.76	2.96
10	---	---	---	6.60	4.97	5.20	4.39	---	4.26	6.01	2.93	3.28
15	---	---	---	6.75	5.08	5.12	3.83	---	4.95	6.60	3.49	3.82
20	---	---	---	7.02	4.31	4.74	4.15	---	5.69	6.70	3.88	4.16
25	---	---	---	7.04	4.29	4.74	4.57	---	6.38	6.67	3.17	4.56
EOM	---	---	---	6.42	4.54	4.08	---	4.92	5.49	4.63	3.31	4.97

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.48	6.54	4.54	3.78	2.92	3.82	3.68	4.17	5.56	8.22	5.27	4.13
10	5.85	6.88	3.99	3.62	3.09	4.04	3.91	4.67	6.05	8.63	5.79	4.77
15	6.27	7.21	4.11	2.95	3.46	4.03	3.69	5.19	6.38	6.50	6.39	5.32
20	5.94	6.86	4.14	3.14	3.07	3.49	3.51	4.45	6.90	4.41	6.04	5.63
25	5.88	5.81	3.52	2.99	3.23	3.59	3.56	4.33	7.50	3.65	6.04	4.19
EOM	6.26	5.98	3.60	3.30	3.44	4.07	4.00	4.96	7.89	4.48	3.80	3.31

350904077130601. Local number NC-48. International Paper Company. Tuscarora. Drilled unused artesian well in sand of Black Creek formation of late Cretaceous age, diam 2 in (5.1 cm), depth 310 ft (94 m), drilled to 887 ft (270 m), cased to 440 ft (134 m). Lsd 38 ft (12 m) above msl. MP top of casing, 2.60 ft (0.79 m) above lsd. Highest water level 0.55 ft (0.17 m) above lsd, June 24, 1963; lowest 5.29 ft (1.61 m) below lsd, Aug. 18-19, 1975. Records available: 1962-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	4.41	4.47	4.24	4.14	4.29	4.28	4.47	4.42	4.43
10	---	---	---	4.43	4.29	4.19	4.16	4.28	4.28	4.47	4.36	4.45
15	---	---	---	4.49	4.30	4.17	4.14	4.32	4.31	4.49	4.43	4.47
20	---	---	---	4.46	4.17	4.08	4.24	4.36	4.42	4.56	4.45	4.47
25	---	---	---	4.47	4.21	4.13	4.21	4.34	4.41	4.57	4.42	---
EOM	---	---	---	4.48	4.28	4.03	4.29	4.28	4.39	4.46	4.42	---

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.68	4.70	4.56	4.63	4.61	4.74	4.69	---	4.86	5.07	5.21	5.16
10	4.61	4.71	4.54	4.60	4.68	4.75	4.79	---	5.02	5.12	5.18	5.08
15	4.65	4.68	4.53	4.59	4.71	4.68	4.69	---	4.99	5.15	5.18	5.03
20	4.66	4.66	4.56	4.57	4.63	4.59	4.77	---	5.06	5.22	5.24	5.10
25	4.69	4.64	4.57	4.55	4.63	4.69	4.86	---	5.14	5.25	5.18	5.23
EOM	4.69	4.63	4.63	4.68	4.73	4.72	---	---	5.08	5.22	5.16	5.20

Craven County--Continued

345417076534001. Local number NC-64. Cherry Point U. S. Marine Corps Building 164. Havelock. Drilled unused artesian well in Castle Hayne Limestone of middle and late Eocene age, diam 4 in (10 cm), depth 120 ft (37 m), drilled to 122 ft (37 m), cased to 94 ft (29 m). Lsd 25.11 ft (7.65 m) above msl. MP top of casing, at lsd. Highest water level 17.56 ft (5.35 m) below lsd, Feb. 19, 1972; lowest 21.63 ft (6.59 m), Aug. 27, 1968. Records available: 1967-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	18.97	18.75	18.52	18.47	18.74	18.31	19.05	19.33	19.22
10	---	---	---	19.09	18.42	18.61	18.60	18.90	18.26	18.95	19.77	19.05
15	---	---	---	18.90	18.58	18.64	18.25	19.02	18.56	18.96	19.69	19.13
20	---	---	---	18.87	18.23	18.57	18.49	18.89	18.90	19.10	19.33	19.49
25	---	---	---	19.07	18.36	18.38	18.76	18.96	18.88	19.05	19.36	19.38
EOM	---	---	---	18.91	18.53	18.09	18.88	18.68	18.73	19.38	19.58	19.23

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	19.01	19.00	19.27	18.59	18.24	18.39	18.90	18.50	19.27	20.27	19.73	20.03
10	18.80	18.85	19.12	18.66	18.11	18.13	18.88	18.71	19.53	20.31	19.90	20.01
15	18.71	18.91	18.99	18.53	18.21	18.48	18.65	18.66	19.29	20.02	20.38	19.64
20	18.82	18.85	19.01	18.27	17.94	18.30	18.66	18.69	19.66	19.87	20.11	19.89
25	18.91	18.85	18.52	18.28	17.93	18.46	18.73	18.61	19.72	19.94	19.98	19.80
EOM	19.02	19.00	18.70	18.57	18.37	18.40	18.63	19.03	21.39	19.47	19.88	19.47

Cumberland County

345803078564901. Local number NC-84. Robert Deaver. Hope Mills. Drilled unused artesian well in slate of Paleozoic age, diam 8 in (20 cm), depth 410 ft (125 m), drilled to 509 ft (155 m), cased to 238 ft (73 m). Lsd 110 ft (34 m) above msl. MP top of instrument shelf, 1.80 ft (0.55 m) above lsd. Highest water level 31.38 ft (9.56 m) below lsd, Apr. 3, 1975; lowest 92.03 ft (28.05 m) below lsd, June 3, 1967. Records available: 1966-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	32.52	32.68	32.35	32.15	32.23	32.45	32.90	32.68	32.47
10	---	---	---	32.51	32.60	32.41	32.27	32.17	32.48	32.82	32.58	32.39
15	---	---	---	32.55	32.69	32.35	32.15	32.20	32.59	32.89	32.56	32.39
20	---	---	---	32.56	32.52	32.25	32.27	32.29	32.62	32.84	32.54	32.37
25	---	---	---	32.60	32.46	32.38	32.26	32.24	32.67	32.74	32.48	32.34
EOM	---	---	---	32.53	32.40	32.20	32.24	32.31	32.79	32.76	32.50	32.33

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	32.49	32.32	32.27	32.18	31.88	31.97	31.61	31.58	31.73	31.87	31.86	32.03
10	32.40	32.40	32.16	32.06	31.96	31.75	31.60	31.67	31.91	31.86	31.91	32.07
15	32.41	32.42	32.16	32.06	32.02	31.75	31.53	31.68	31.83	31.75	31.94	32.11
20	32.39	32.16	32.15	31.94	31.85	31.55	31.59	31.67	31.76	31.70	32.00	32.01
25	32.61	32.21	32.09	31.83	31.88	31.55	31.59	31.68	31.85	31.73	32.02	31.86
EOM	32.42	32.29	32.16	32.01	31.97	31.62	31.64	31.66	31.87	31.89	32.05	31.91

Davie County

355339080332601. Local number NC-110. H. S. Larew. Near Mocksville. Dug unused water-table well in weathered granite of Paleozoic age, diam 36 in (91 cm), depth 28 ft (9 m), dug to 32 ft (10 m), lined with rock. Lsd 830 ft (253 m) above lsd (revised). MP top of wooden platform, 3.60 ft (1.10 m) above lsd. Highest water level 12.47 ft (3.80 m) below lsd, Apr. 1, 1973; lowest 28.66 ft (8.74 m) below lsd, Feb. 15, 1942. Records available: 1932-75.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 5, 1974	18.11	June 15, 1974	16.55	Nov. 30, 1974	19.74	May 3, 1975	16.14
12	17.83	22	16.73	Dec. 7	19.21	10	16.30
19	17.68	29	17.01	14	18.78	17	15.52
26	15.60	July 6	17.24	21	18.69	24	16.10
30	15.75	13	17.47	28	18.36	June 1	15.55
Feb. 11	15.93	20	17.70	Jan. 4, 1975	18.50	7	15.87
16	15.84	27	17.91	11	12.51	14	16.23
23	15.91	Aug. 3	18.18	18	17.14	21	16.52
Mar. 2	15.96	10	17.92	25	15.41	28	16.77
9	16.18	24	18.38	29	16.40	July 5	17.03
16	16.36	31	18.53	Feb. 10	15.79	12	17.30
23	15.33	Sept. 7	16.47	15	16.06	20	17.40
30	13.86	14	18.01	22	16.25	26	16.56
Apr. 6	14.71	21	18.18	Mar. 1	15.91	Aug. 2	17.78
13	15.25	28	17.76	9	16.27	10	18.04
20	15.68	Oct. 5	18.55	15	13.54	17	18.28
27	15.90	12	18.76	22	14.41	23	18.42
May 4	16.14	20	18.92	29	14.83	30	18.57
11	15.51	26	19.04	Apr. 5	15.02	Sept. 7	18.72
18	15.88	Nov. 2	19.20	12	15.32	13	18.70
25	15.98	9	19.36	19	15.54	20	19.00
June 1	16.09	16	19.54	26	15.88	29	18.62
8	16.41	23	19.60				

Duplin County

350030078060001. Local number NC-69. Old City Well. Warsaw. Drilled unused water-table well in Black Creek Formation of late Cretaceous age, diam 10 in (25 cm), depth 102 ft (31 m), believed cased to 102 ft (31 m). Lsd 145 ft (44 m) above msl. MP top of casing, 1.00 ft (0.30 m) above lsd. Highest water level 43.69 ft (13.32 m) below lsd, Feb. 23, 1967; lowest 49.89 ft (15.21 m) below lsd, Aug. 23, 1968. Records available: 1963-64, 1967-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	46.66	45.30	45.10	45.41	44.81	45.37	44.95	---	---
10	---	---	---	45.67	45.21	45.08	44.60	45.25	45.15	46.02	---	---
15	---	---	---	45.61	45.15	44.96	44.53	45.06	45.21	45.61	---	---
20	---	---	---	45.57	45.01	44.79	44.57	45.12	45.87	45.77	---	---
25	---	---	---	46.94	45.02	44.80	44.70	45.20	45.64	46.11	---	---
EOM	---	---	---	45.46	45.02	44.60	45.29	45.62	45.00	---	---	---

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	44.76	45.41	44.89	44.68	44.36	44.34	44.39	44.59	45.80	45.24	46.42	47.29
10	45.54	45.01	44.89	44.83	44.39	44.38	44.54	44.86	45.82	46.56	45.68	47.25
15	45.83	45.44	44.88	44.55	44.39	44.86	44.31	45.61	44.93	46.61	46.88	46.23
20	44.92	44.90	44.83	44.49	44.35	44.45	44.41	45.44	46.13	45.52	46.87	46.46
25	45.20	44.92	44.76	44.39	44.59	44.45	45.32	44.65	46.20	46.44	47.01	46.95
EOM	45.31	44.96	44.69	44.62	44.35	44.29	45.39	45.10	45.27	46.53	46.74	46.52

Edgecombe County

355845077264501. Local number NC-72. Melvin Howell. Speed. Drilled unused artesian well in sands of Tuscaloosa Formation of late Cretaceous age, diam 4 in (10 cm), depth 94 ft (29 m), drilled to 100 ft (30 m), cased to 95 ft (29 m). Lsd 54.51 ft (16.61 m) above msl. MP top of casing, 1.90 ft (0.58 m) above lsd. Highest water level, 0.17 ft (0.05 m) below lsd, Sept. 27, 1955; lowest 12.16 ft (3.71 m) below lsd, June 11, 1953. Records available: 1946-65, 1967-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	4.96	4.71	4.57	4.89	5.77	6.98	6.23	5.43
10	---	---	---	5.72	4.89	4.75	4.38	4.97	6.05	6.90	5.72	5.25
15	---	---	---	5.73	5.01	4.87	4.45	5.07	6.22	6.71	5.46	5.29
20	---	---	---	5.52	4.60	4.59	4.57	5.35	6.61	6.40	5.67	5.40
25	---	---	---	5.30	4.60	4.72	4.79	5.38	6.83	6.61	5.53	5.33
EOM	---	---	---	5.33	4.77	4.49	4.82	4.95	6.74	6.49	5.43	5.42

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.27	5.55	5.75	5.14	4.52	4.48	4.48	5.13	5.77	6.98	5.81	---
10	5.33	5.62	5.67	4.94	4.47	4.55	4.60	5.34	6.05	6.90	5.77	---
15	5.51	5.73	5.34	4.68	4.35	4.42	5.44	5.68	6.22	6.71	6.14	---
20	5.59	5.77	5.22	---	4.44	4.01	4.87	5.43	6.61	6.35	6.20	---
25	5.72	5.96	5.45	---	4.45	4.31	5.05	5.62	6.83	6.07	6.83	---
EOM	5.65	5.90	5.26	---	4.49	4.47	5.12	---	6.74	5.79	6.87	---

Gates County

362044076362301. Local number NC-30. Mrs. T. W. Blanchard. Hobbsville. Drilled unused artesian well in the Black Creek Formation of late Cretaceous age, diam 4 in (10 cm), depth 494 ft (151 m), believed cased to 494 ft (151 m). Lsd 38.16 ft (11.63 m) above msl. MP top of casing, 0.50 ft (0.15 m) above lsd. Highest water level 18.40 ft (5.61 m) below lsd, Mar. 8, 1962; lowest 22.58 ft (6.88 m) below lsd, Nov. 13, 1974. Records available: 1961-75.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8, 1974	21.90	Aug. 8, 1974	21.80	Jan. 30, 1975	21.70	June 4, 1975	21.74
Feb. 11	21.45	Oct. 1	21.75	Mar. 12	21.75	July 17	21.70
May 14	21.59	Nov. 13	22.58	Apr. 23	21.38	Aug. 28	22.28
July 2	21.95	Dec. 17	21.98				

Gates County--Continued

362751076484701. Local number NC-54. Town of Roduco. Drilled unused artesian well in Beaufort Formation of Paleocene age, diam 4 in (10 cm), depth 231 ft (70 m), cased to 217 ft (66 m). Lsd 37.35 ft (11.38 m) above msl (revised). MP top of recorder shelf, 1.80 ft (0.55 m) above lsd. Highest water level 12.84 ft (3.91 m) below lsd, Mar. 5, 1966; lowest 16.84 ft (5.13 m) below lsd, Sept. 22, 1975. Records available: 1965-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	14.85	14.96	---	14.90	15.14	15.17	15.47	15.31	15.70
10	---	---	---	14.92	14.94	---	15.02	15.04	15.12	15.42	15.29	15.47
15	---	---	---	14.84	---	---	14.21	15.14	15.21	15.64	15.37	15.48
20	---	---	---	14.91	---	---	14.31	15.27	15.21	15.86	15.45	15.62
25	---	---	---	14.89	---	---	15.10	15.13	15.28	15.72	15.54	15.52
EOM	---	---	---	14.85	---	---	15.13	15.04	15.25	15.43	15.65	15.73

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.62	15.54	15.35	15.36	15.14	15.31	15.33	15.65	15.41	15.78	16.02	15.71
10	15.60	15.68	15.30	15.29	15.26	15.48	15.46	15.83	15.53	15.84	15.64	15.75
15	15.80	15.85	15.35	15.23	15.24	15.25	15.50	16.03	15.56	15.39	15.70	15.76
20	15.68	15.49	15.27	15.10	15.12	15.12	15.56	15.93	15.52	15.38	15.82	15.71
25	15.52	15.49	15.35	15.05	15.16	15.23	15.52	15.54	15.63	15.58	15.73	15.74
EOM	15.53	15.57	15.44	15.26	15.30	15.39	15.54	15.39	15.75	15.56	15.76	15.56

Haywood County

352315084484401. Local number NC-40. Champion Paper and Fiber Co., Number 1. Near Cruso. Dug observation water-table well in phyllitic rock of the Snowbird Group of Precambrian age, diam 12 in (30 cm), depth 19 ft (5.8 m), cased to 19 ft (5.8 m). Lsd 3,148.26 ft (959.59 m) above msl. MP top of casing 1.00 ft (0.30 m) above lsd. Highest water level 1.40 ft (0.43 m) below lsd, June 20, 1972; lowest 6.27 ft (1.91 m) below lsd, Nov. 1, 1963. Records available: 1955-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	4.30	3.92	3.62	3.32	3.63	4.12	4.38	4.26	4.88
10	---	---	---	4.36	4.00	3.63	3.60	3.78	4.01	4.42	4.40	4.83
15	---	---	---	4.39	4.03	3.71	3.39	3.71	4.23	4.47	4.34	4.92
20	---	---	---	4.28	3.95	3.82	3.42	3.87	4.32	4.56	4.67	5.04
25	---	---	---	4.11	3.67	3.93	3.47	3.94	4.38	4.65	4.75	4.95
EOM	---	---	---	4.02	3.70	3.85	3.56	4.01	4.41	4.70	4.84	4.91

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.98	5.09	5.32	---	---	3.67	2.99	3.99	4.33	4.83	5.12	5.54
10	5.03	5.14	4.87	---	---	3.55	3.17	4.07	4.48	4.91	5.17	5.59
15	5.04	5.13	5.16	---	4.41	3.05	3.36	3.92	4.52	4.99	5.30	5.68
20	4.93	4.71	5.19	---	4.10	2.96	3.46	4.00	4.60	4.95	5.43	4.89
25	5.09	5.07	5.22	---	3.52	2.77	3.67	4.23	4.68	5.00	5.52	4.11
EOM	5.10	5.27	5.15	---	3.77	2.81	3.88	4.32	4.75	5.02	5.38	5.02

352419082541601. Local number NC-41. Champion Paper and Fiber Co., Number 2. Near Bethel. Dug observation water table well in phyllitic rock of the Snowbird Group of Precambrian age, diam 12 in (30 cm), depth 24 ft (7.3 m), cased to 24 ft (7.3 m). Lsd 3,080 ft (939 m) above msl. MP top of casing, 1.00 ft (0.30 m) above lsd. Highest water level 8.00 ft (2.44 m) below lsd, Mar. 18, 1973; lowest 14.10 ft (4.30 m) below lsd, Nov. 17-18, 1974. Records available: 1955-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	11.30	9.56	11.60	11.84	12.33	12.66	13.13
10	---	---	---	---	---	11.56	10.35	11.56	---	12.37	12.60	13.19
15	---	---	---	---	---	11.72	10.58	11.31	---	12.46	12.74	13.26
20	---	---	---	---	11.26	11.83	11.03	11.56	---	12.56	12.83	13.34
25	---	---	---	---	10.55	11.82	11.32	11.70	12.13	12.65	12.94	13.42
EOM	---	---	---	---	10.88	11.68	11.51	11.71	12.24	12.75	13.04	13.51

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.59	13.98	13.46	12.60	11.35	11.05	9.87	11.49	12.08	12.70	13.30	13.69
10	13.67	14.03	13.15	12.71	11.15	11.22	10.43	11.60	12.24	12.81	13.34	13.72
15	13.76	14.08	13.02	12.05	11.55	9.28	10.81	11.68	12.33	12.93	13.39	13.79
20	13.78	13.67	12.97	12.18	11.23	10.20	11.09	11.73	12.45	13.02	13.47	13.62
25	13.86	13.80	12.92	11.90	9.82	9.23	11.23	11.87	12.52	13.09	13.54	13.03
EOM	13.95	13.93	12.54	11.55	10.25	8.69	11.38	12.01	12.61	13.20	13.61	13.20

Haywood County--Continued

352508082552501. Local number NC-42. Champion Paper and Fiber Co., Number 3. Lake Logan. Dug observation water-table well in phyllitic rock of the Snowbird Group of Precambrian age, diam 24 in (61 cm), depth 22 ft (6.7 m), cased to 22 ft (6.7 m). Lsd 3,040.3 ft (926.7 m) above msl. MP top of casing, 1.00 ft (0.30 m) above lsd. Highest water level 6.71 ft (2.05 m) below lsd, Mar. 14, 1975; lowest 18.63 ft (5.68 m) below lsd, Jan. 20-25, 1956. Records available: 1955-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	11.24	11.56	11.71	9.54	12.35	12.95	14.01	15.14	15.69
10	---	---	---	11.58	11.44	12.12	10.69	12.38	12.89	14.22	15.21	15.81
15	---	---	---	11.89	11.64	12.47	10.83	12.24	13.09	14.43	15.27	15.92
20	---	---	---	12.24	11.62	12.72	11.36	12.35	13.29	14.64	15.34	16.05
25	---	---	---	12.42	11.17	12.93	11.72	12.51	13.50	14.83	15.45	16.15
EOM	---	---	---	12.09	11.39	12.83	12.04	12.73	13.78	15.02	15.57	16.25

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	16.38	16.82	16.93	16.10	11.34	11.49	10.39	13.00	14.25	15.24	16.15	16.62
10	16.44	16.87	16.82	15.87	11.74	11.73	11.12	13.27	14.43	15.40	16.22	16.70
15	16.53	16.90	16.69	15.26	12.10	8.87	11.67	13.51	14.55	15.59	16.31	16.78
20	16.57	16.90	16.63	14.80	11.58	10.58	12.10	13.76	14.76	15.73	16.39	16.77
25	16.66	16.89	16.62	14.33	9.83	10.40	12.41	13.96	14.92	15.86	16.46	15.58
EOM	16.76	16.95	16.31	12.60	10.84	8.20	12.74	14.12	15.08	16.04	16.52	15.78

Hertford County

362845077005501. Local number NC-55. Charles DeLoatch. Como. Drilled unused artesian well in sands of Tuscaloosa Formation of late Cretaceous age, diam 2 in (5 cm), depth 340 ft (104 m), cased to 340 ft (104 m). Lsd 28.40 ft (8.66 m) above msl. MP top of casing, 0.40 ft (0.12 m) above lsd. Highest water level, 48.36 ft (14.74 m) below lsd, May 30-31, 1966; lowest 83.72 ft (25.52 m) below lsd, Oct. 1, 1974. Records available: 1966-75.

Date	Water level	Date	Water level	Date	Water level
Jan. 10, 1974	82.63	Aug. 8, 1974	82.46	Mar. 11, 1975	82.24
Feb. 11	82.75	Oct. 1	83.72	Apr. 22	82.58
Apr. 3	82.59	Nov. 12	83.69	June 3	82.65
May 13	83.46	Dec. 16	82.98	July 17	81.37
July 1	83.48	Jan. 28, 1975	83.23	Aug. 26	83.70

362642077051501. Local number NC-81. Town of Murfreesboro. Murfreesboro. Drilled public-supply (standby) artesian well in Black Creek Formation of late Cretaceous age, diam 3 in (7.6 cm), depth 215 ft (66 m), cased to 215 ft (66 m). Lsd 13.09 ft (3.99 m) above msl. MP top of casing, 4.89 ft (1.49 m) above lsd. Highest water level 6.26 ft (1.91 m) above lsd, Apr. 8, 1964; lowest 1.12 ft (0.34 m) below lsd, Sept. 25, 1971. Records available: 1964-75.

WATER LEVEL (FT. ABOVE LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	3.21	3.33	3.09	3.02	2.84	2.96	2.81
10	---	---	---	---	---	3.15	3.21	3.09	3.03	2.86	3.00	2.88
15	---	---	---	---	3.17	3.16	3.20	3.09	2.95	2.81	2.91	2.96
20	---	---	---	---	3.28	3.24	3.20	3.03	2.91	2.96	2.89	2.81
25	---	---	---	---	3.24	3.15	3.08	3.08	2.94	2.96	2.91	2.79
EOM	---	---	---	---	3.19	3.32	3.09	3.10	2.90	2.96	2.89	2.78

WATER LEVEL (FT. ABOVE LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	2.61	2.68	2.57	2.83	2.83	---	---	2.76	2.66	2.29	---	2.33
10	2.65	2.68	2.59	2.83	2.76	---	---	2.69	2.53	2.39	---	---
15	2.61	2.55	2.61	2.83	2.78	2.82	---	2.66	2.58	2.58	---	---
20	2.63	2.59	2.76	2.83	2.86	3.69	---	2.73	2.52	---	---	---
25	2.68	2.55	2.83	2.73	2.93	---	2.77	2.71	2.34	---	---	---
EOM	2.68	2.53	2.83	2.77	2.84	---	2.70	2.70	2.28	---	2.36	---

Hertford County--Continued

362351076555401. Local number NC-82. Town of Winton. Drilled unused artesian well in sand of Black Creek Formation of late Cretaceous age, diam 8 in (20 cm), depth 283 ft (86 m), drilled to 309 ft (94.18 m), cased to 237 ft (72 m). Lsd 41.70 ft (12.71 m) above msl. MP top of instrument shelf, 0.70 ft (0.21 m) above lsd. Highest water level 27.58 ft (8.41 m) below lsd, Sept. 17, 1967; lowest 30.35 ft (9.25 m) below lsd, Mar. 18, 1973. Records available: 1966-75. Recording gage removed June 3, 1975.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	29.01	28.86	28.80	28.88	28.94	28.94	28.98	29.02
10	---	---	---	29.00	29.02	28.91	29.00	28.86	28.92	28.94	28.97	28.96
15	---	---	---	28.76	28.97	29.10	28.84	28.89	28.97	28.96	28.96	28.96
20	---	---	---	28.81	28.92	28.96	28.93	28.95	28.97	29.00	28.95	28.94
25	---	---	---	28.90	28.98	29.02	29.02	28.92	28.96	29.01	28.95	29.03
EOM	---	---	---	28.90	29.03	28.98	28.88	28.91	28.91	29.00	28.96	28.97

WATER LEVEL (FT. BELOW LSD), PERIOD OCTOBER 1974 TO MAY 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	29.15	29.06	29.17	29.17	29.05	29.12	29.07	28.82	---	---	---	---
10	29.12	29.22	29.20	29.06	29.10	28.42	---	28.86	---	---	---	---
15	29.04	29.17	29.09	29.15	29.04	28.89	---	28.86	---	---	---	---
20	29.23	29.02	29.11	29.04	28.94	28.72	---	28.86	---	---	---	---
25	29.12	29.09	29.03	28.98	28.91	28.68	28.77	28.88	---	---	---	---
EOM	29.10	29.27	29.10	29.00	29.00	28.88	28.84	28.83	---	---	---	---

NOTE.--Water levels for June 3, 1975, 28.87 ft.; July 16, 1975, 28.90 ft.; and August 27, 1975, 29.14 ft., from taped measurements.

Hoke County

350340079212501. Local number NC-35. North Carolina Tuberculosis Sanitarium. McCain. Drilled unused artesian well in Tuscaloosa Formation of late Cretaceous age, diam 24 in (61 cm), depth 76 ft (23 m), drilled to 309 ft (94 m), cased to 309 ft (94 m), gravel-walled. Lsd 355 ft (108 m) above msl. MP top of casing, 1.40 ft (0.43 m) above lsd. Highest water level 1.60 ft (0.49 m) below lsd, May 7, 1973; lowest 8.27 ft (2.52 m) below lsd, Oct. 14, 1968. Records available: 1963-75.

Date	Water level	Date	Water level	Date	Water level
Jan. 7, 1974	4.13	Aug. 9, 1974	5.38	Mar. 13, 1975	3.03
Feb. 25	3.94	Oct. 3	4.57	Apr. 23	3.20
Apr. 9	4.37	Nov. 18	5.10	June 5	3.35
May 20	4.91	Dec. 16	4.91	July 8	4.50
July 8	5.40	Jan. 27, 1975	3.71	Aug. 28	4.29

Jones County

350103077150601. Local number NC-73. Oak Grove Marine Air Station. Near Pollocksville. Driven water-table well in Castle Hayne Limestone Formation of middle and late Eocene age, diam 8 in (20 cm), depth 18 ft (5.5 m), cased to 18 ft (5.5 m). Lsd 11.31 ft (3.45 m) above msl. MP top of instrument shelf, 3.40 ft (1.04 m) above lsd. Highest water level 4.40 ft (1.34 m) below lsd, Nov. 5, 1971; lowest 10.12 ft (3.08 m) below lsd, Jan. 19-20, 1969. Records available: 1967-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	9.15	9.07	8.64	8.50	8.51	8.39	8.65	8.09	---
10	---	---	---	9.11	8.92	8.73	8.55	8.45	8.23	8.75	7.03	---
15	---	---	---	9.07	8.93	8.66	8.50	8.54	8.30	8.84	6.43	---
20	---	---	---	9.11	8.79	8.75	8.42	8.69	8.45	8.92	6.35	---
25	---	---	---	9.14	8.61	8.66	8.44	8.66	8.63	8.91	6.23	---
EOM	---	---	---	9.17	8.57	8.50	8.48	8.60	8.49	8.50	---	---

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.56	8.44	---	8.15	7.03	6.94	7.56	7.64	7.88	8.19	7.87	7.86
10	7.67	8.58	---	8.14	6.83	7.18	7.63	7.65	7.99	8.28	8.03	7.96
15	7.84	---	---	7.83	6.76	7.34	7.66	7.73	8.02	8.04	8.19	8.04
20	7.97	---	8.27	7.42	6.82	7.33	7.66	7.72	8.07	7.81	8.05	8.08
25	8.10	---	8.19	7.23	6.72	7.33	7.62	7.74	8.15	7.73	8.10	8.03
EOM	8.29	---	8.14	7.14	6.78	7.44	7.66	7.79	8.17	7.73	7.83	---

Lenoir County

350306077444201. Local number NC-51. Pink Hill School. Pink Hill. Drilled unused artesian water-table well in Peedee Formation of late Cretaceous age, diam 4 in (10 cm), depth 151 ft (46 m), drilled to 195 ft (59 m), cased to 125 ft (38 m). Lsd 134 ft (41 m) above msl. MP top of instrument shelf, 1.45 ft (0.44 m) above lsd. Highest water level 52.03 ft (15.86 m) below lsd, Apr. 8, 1973; lowest 59.64 ft (18.18 m) below lsd, July 20-21, 1970. Records available: 1963-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	54.61	54.07	53.67	53.28	53.24	53.15	53.45	53.40	53.16
10	---	---	---	54.54	54.01	53.67	53.30	53.24	53.14	53.36	53.27	53.09
15	---	---	---	54.49	53.93	53.66	53.14	53.30	53.18	53.39	53.28	53.13
20	---	---	---	54.43	53.74	53.47	53.28	53.28	53.28	53.55	53.22	53.14
25	---	---	---	54.36	53.74	53.51	53.24	53.24	53.29	53.46	53.13	53.17
EOM	---	---	---	54.17	53.76	53.30	53.24	53.18	53.34	53.56	53.16	53.17

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	53.46	52.94	53.02	53.00	52.84	53.14	53.85	54.36	54.64
10	---	---	---	53.34	53.10	53.02	52.94	47.96	53.33	53.94	54.53	54.68
15	---	---	---	53.32	53.07	52.97	---	52.15	53.39	54.05	54.63	54.75
20	---	---	53.54	53.13	52.88	52.83	---	52.17	53.53	54.06	54.77	54.59
25	---	---	53.47	53.00	52.65	41.18	52.85	52.23	53.72	54.10	54.85	54.50
EOM	---	---	53.47	53.10	52.91	52.98	52.87	53.12	53.76	54.29	54.75	54.45

351600077381001. Local number NC-128. City of Kinston. Kinston. Drilled unused artesian well in sands of Black Creek Formation of upper Cretaceous age, diam 10 in (25 cm), depth 300 ft (91 m), cased to 160 ft (49 m). Lsd 33.5 ft (10.2 m) above msl. MP top of casing, 2.10 ft (0.64 m) above lsd. Highest water level 34.83 ft (10.62 m) below lsd, Dec. 30, 1968; lowest 65.03 ft (19.82 m) below lsd, June 25, 1975. Records available: 1968-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	55.66	55.47	55.68	55.81	56.49	58.01	59.04	58.98	60.55
10	---	---	---	55.66	55.48	55.42	55.97	57.08	57.71	59.14	59.08	60.14
15	---	---	---	55.65	56.10	56.35	55.46	56.95	58.59	58.80	59.35	60.29
20	---	---	---	55.49	55.52	55.78	56.41	56.72	58.97	59.76	59.52	61.12
25	---	---	---	56.29	54.77	55.14	56.84	57.65	59.43	59.76	59.76	60.90
EOM	---	---	---	55.88	55.67	55.09	56.73	58.01	59.14	59.71	60.65	60.66

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	60.71	59.73	58.54	57.17	56.66	57.51	58.82	59.29	62.80	---	63.78	64.72
10	60.15	59.71	58.41	57.68	57.05	57.84	58.94	59.29	63.57	---	63.39	64.79
15	59.80	59.79	58.01	56.58	56.82	58.15	58.91	59.83	64.20	---	63.74	64.14
20	59.31	59.32	58.35	56.34	57.03	57.77	58.90	60.29	64.85	---	63.72	64.70
25	59.55	58.77	57.81	---	56.28	56.30	59.17	60.95	65.03	---	63.69	64.85
EOM	59.63	58.69	57.94	56.80	56.95	56.70	59.24	61.14	---	62.65	63.97	64.28

Macon County

351516083243701. Local number NC-117. Claude Leatherman. Wests Mill. Dug domestic water-table well in biotite gneiss of Paleozoic age, diam 30 in (76.2 cm), depth 64 ft (20 m) revised, lined with tile. Lsd 2120 ft (646 m) above msl (revised). MP top of concrete well top, 0.14 ft (0.04 m) above lsd. Highest water level 38.96 ft (11.88 m) below lsd, Sept. 17, 1962; lowest 59.98 ft (18.28 m) below lsd, Mar. 9, 1964. Records available: 1961-75.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 8, 1974	47.50	July 1, 1974	43.44	Nov. 12, 1974	47.38	June 5, 1975	48.33
Feb. 21	47.14	Aug. 13	44.14	Jan. 7 1975	52.08	July 8	45.40
Apr. 1	45.81	Sept.19	45.88	Feb. 12	53.53	Aug. 19	46.58
May 14	43.98						

Martin County

355734077180001. Local number NC-43. Martin County Board of Education. West Martin School. Oak City. Drilled unused artesian well in Black Creek Formation of late Cretaceous age, diam 4 in (10 cm), depth 88 ft (27 m), drilled to 88 ft (27 m), cased to 88 ft (27 m). Lsd 81.75 ft (24.92 m) above msl. MP top of instrument shelf, 1.73 ft (0.53 m) above lsd. Highest water level 11.67 ft (3.56 m) below lsd, June 8, 1961; lowest 19.32 ft (5.89 m), Nov. 8-9, 1968. Records available: 1959-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	13.07	12.67	12.44	12.31	13.26	13.62	14.20	14.65	12.96
10	---	---	---	12.81	12.51	12.65	12.30	13.40	13.50	14.45	13.70	13.04
15	---	---	---	12.72	12.55	12.84	12.34	13.49	13.53	14.63	13.17	13.05
20	---	---	---	12.71	12.45	12.83	12.51	13.63	13.68	15.02	12.92	13.12
25	---	---	---	12.72	12.30	12.76	12.75	13.77	13.80	15.20	12.87	13.16
EOM	---	---	---	12.69	12.33	12.40	12.89	13.76	13.99	15.09	12.90	13.10

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	13.12	14.04	14.58	13.03	12.24	12.41	12.66	13.26	14.10	---	13.27	14.69
10	13.25	14.12	14.15	12.85	12.25	12.48	12.78	13.62	---	---	13.43	14.69
15	13.52	14.37	13.72	12.50	12.30	12.68	12.94	13.80	---	---	13.77	14.70
20	13.69	14.36	13.44	12.37	12.32	12.49	12.96	13.87	---	14.30	13.99	14.69
25	13.72	14.51	13.33	12.28	12.33	12.40	13.08	13.88	---	13.82	14.20	14.36
EOM	13.93	14.84	13.20	12.25	12.37	12.50	13.17	14.01	---	13.37	14.69	14.14

Moore County

350636079283601. Local number NC-122. H. A. Keith. Pinebluff. Dug unused water-table well in sands of Tuscaloosa Formation of late Cretaceous age, diam 24 in (61 cm), depth 47 ft (14 m), cribbed with brick. Lsd 412 ft (126 m) above msl. MP top of wooden platform, 3.55 ft (1.08 m) above lsd. Highest water level 28.71 ft (8.75 m) below lsd, Oct. 8, 1971; lowest dry, several times, 1951-52. Records available: 1944-75.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7, 1974	33.09	July 8, 1974	39.43	Dec. 16, 1974	32.52	June 5, 1975	32.58
Feb. 25	32.26	Aug. 9	32.40	Jan. 27, 1975	31.85	July 8	33.24
Apr. 9	32.71	Oct. 3	33.00	Mar. 13	32.61	Aug. 28	33.61
May 20	34.02	Nov. 18	32.87	Apr. 23	32.34		

New Hanover County

341000077524201. Local number NC-20. Walter J. Hodder. Near Wilmington. Drilled unused artesian well in Peedee Formation of late Cretaceous age, diam 3 in (8 cm), depth 169 ft (52 m), drilled to 173 ft (53 m), cased to 173 ft (53 m). Lsd 21.30 ft (6.49 m) above msl. MP top of recorder shelf, 0.06 ft (0.02 m) above lsd. Highest water level 9.42 ft (2.87 m) below lsd, June 10, 1966; lowest 19.94 ft (6.08 m) below lsd, June 10, 1973. Records available: 1963-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	14.82	15.34	---	17.57	16.98	16.70	13.75
10	---	---	---	14.64	---	15.77	15.72	---	17.50	16.56	17.02	13.74
15	---	---	---	14.86	---	16.04	15.72	---	17.47	16.52	15.30	13.74
20	---	---	---	---	14.17	15.99	15.75	17.88	17.38	16.79	13.80	13.71
25	---	---	---	---	14.46	---	16.38	17.66	17.88	16.75	13.77	13.69
EOM	---	---	---	---	14.52	---	18.41	17.63	17.84	16.73	13.76	13.67

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	14.24	15.58	14.92	---	13.39	---	14.12	14.93	16.13	15.73	16.42	15.92
10	14.43	15.36	14.88	---	---	---	14.34	15.07	16.81	15.56	15.91	16.02
15	15.02	15.22	14.86	---	---	14.03	14.16	15.62	15.79	15.19	16.08	15.96
20	14.70	15.16	14.70	---	---	13.74	14.59	15.39	15.75	14.84	16.26	15.53
25	14.76	15.36	14.84	---	---	13.94	14.69	16.10	15.78	14.88	16.65	15.25
EOM	15.09	15.27	---	13.90	---	14.27	15.07	15.81	15.46	15.43	16.29	15.09

New Hanover County--Continued

342205077515401. Local number NC-61. Martin Marietta. Near Wilmington. Bored unused artesian well in limestone of Castle Hayne Formation of Tertiary age, diam 2 in (5 cm), depth 31 ft (9 m), bored to 85 ft (26 m), cased to 43 ft (13 m). Lsd 15.93 ft (4.86 m) above msl. MP top of casing, 2.00 ft (0.61 m) above lsd. Highest water level 1.86 ft (0.57 m) below lsd, Sept. 4, 1968; lowest 11.46 ft (3.49 m) below lsd, July 8, 1968. Records available: 1966-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	7.79	7.73	7.69	7.34	8.02	8.27	8.69	7.76	7.39
10	---	---	---	7.81	7.60	7.92	7.39	8.09	8.50	7.90	7.10	7.37
15	---	---	---	7.98	7.59	8.14	7.32	8.12	8.72	8.20	7.18	7.64
20	---	---	---	8.08	7.58	7.99	7.53	8.62	8.92	8.37	7.40	7.70
25	---	---	---	8.20	7.40	8.13	7.69	8.62	9.01	8.19	7.11	7.92
EOM	---	---	---	8.08	7.54	7.78	7.85	8.15	8.50	8.40	7.47	7.95

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	8.37	9.93	9.59	8.67	7.67	8.14	8.45	8.70	9.05	9.46	9.12	10.00
10	8.70	10.17	9.37	8.53	7.87	8.30	8.63	8.94	9.30	9.68	9.10	10.23
15	8.95	10.18	9.34	8.48	8.01	8.38	8.42	9.21	9.20	8.58	9.51	10.31
20	9.18	10.07	8.90	---	7.53	8.16	---	8.84	9.48	8.29	9.38	9.84
25	9.46	10.12	8.89	---	7.66	8.30	---	8.84	9.64	8.48	9.68	9.35
EOM	9.78	10.22	8.68	8.07	7.87	8.63	8.86	9.10	9.16	8.80	9.79	9.33

Northampton County

361608077162601. Local number NC-27. Boomer Ice Company. Rich Square. Drilled unused artesian well in sand of Tuscaloosa Formation of late Cretaceous age, diam 8 in (20 cm), depth 57 ft (17 m), drilled to 88 ft (27 m), cased to 78 ft (24 m). Lsd 74.44 ft (22.69 m) above msl. MP top of instrument shelf, 1.70 ft (0.52 m) above lsd. Highest water level 4.86 ft (1.48 m) below lsd, Feb. 25, 1960; lowest 14.36 ft (4.38 m) below lsd, Jan. 4, 1967. Records available: 1958-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	11.17	9.92	8.44	10.30	9.88	11.46	---	11.45
10	---	---	---	12.16	11.06	10.27	8.33	10.32	10.18	11.57	11.14	10.68
15	---	---	---	12.13	11.09	10.42	8.33	10.62	10.64	11.72	11.32	10.96
20	---	---	---	12.22	9.92	9.66	9.18	10.61	10.93	11.90	11.10	11.20
25	---	---	---	12.06	9.45	9.86	9.60	10.31	11.12	12.04	10.98	11.13
EOM	---	---	---	11.13	9.73	8.55	10.00	9.38	11.27	12.14	11.24	11.36

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.53	12.16	12.47	11.76	8.22	7.49	5.23	9.65	11.02	12.01	11.15	12.20
10	11.63	12.21	12.30	11.26	7.92	8.01	5.24	10.10	11.29	12.11	11.37	12.28
15	11.80	12.37	12.23	9.76	8.33	6.99	5.25	10.40	11.39	11.92	11.58	12.35
20	11.85	12.38	12.17	9.43	7.01	5.07	5.26	10.46	11.54	11.03	11.76	12.32
25	11.98	12.50	11.92	8.94	6.97	5.21	8.90	10.62	11.76	10.87	11.90	12.43
EOM	12.05	12.54	11.88	8.74	6.99	5.22	9.48	10.79	11.94	10.83	12.08	12.02

Onslow County

344425077272501. Local number NC-52. Camp Geiger, U. S. Marine Corps. Near Jacksonville. Drilled unused water-table well in Castle Hayne Limestone of middle and late Eocene age, diam 18 in (46 cm), depth 68 ft (21 m), drilled to 70 ft (21 m), cased to 23 ft (7.0 m). Lsd 24.45 ft (7.45 m) above msl. MP top of recorder shelf, 1.90 ft (0.58 m) above lsd. Highest water level 2.28 ft (0.69 m) below lsd, Aug. 25, 1974; lowest 10.44 ft (3.18 m) below lsd, Jan. 3, 1966. Records available: 1963-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	5.95	4.50	5.03	4.68	5.60	4.05	4.96	4.58	4.42
10	---	---	---	5.73	4.39	5.33	4.25	5.76	4.60	4.72	2.68	4.54
15	---	---	---	5.96	4.76	5.63	3.72	5.66	4.26	5.24	3.37	5.03
20	---	---	---	6.25	3.78	5.53	4.50	5.49	4.77	5.03	3.67	5.20
25	---	---	---	5.75	4.22	5.72	5.03	4.85	5.24	4.66	2.41	5.51
EOM	---	---	---	4.99	4.69	4.65	5.29	4.47	4.32	4.87	3.85	5.70

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.89	6.80	6.52	5.20	3.47	4.62	4.84	5.48	6.82	7.45	6.04	7.17
10	6.23	7.03	5.97	5.09	4.16	4.85	5.24	5.80	7.15	7.47	6.41	6.95
15	6.39	7.30	6.12	3.71	4.58	5.26	4.66	6.03	7.17	4.85	6.69	6.92
20	6.15	7.10	5.91	3.75	2.99	4.02	4.53	6.10	7.34	4.49	6.91	6.91
25	6.29	7.27	5.16	3.21	3.59	4.40	4.90	6.31	7.60	5.21	7.16	4.49
EOM	6.54	7.49	5.07	4.11	4.09	5.07	5.40	6.62	7.22	5.71	6.83	4.07

Onslow County--Continued

344525077254501. Local number NC-85. Carolina Power and Light Company. Jacksonville. Drilled unused water-table well in Castle Hayne Limestone of middle and late Eocene age diam 8 in (20 cm), depth 106 ft (32 m), cased to 106 ft (32 m). Lsd 20 ft (6.1 m) above msl. MP top of instrument shelf, 3.20 ft (0.98 m) above lsd. Highest water level 6.86 ft (2.09 m) below lsd, June 10, 1964; lowest 21.76 ft (6.63 m) below lsd; June 21, 1970. Records available: 1963-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	12.78	12.75	12.26	12.86	14.12	13.53	16.05	16.09	15.98
10	---	---	---	13.12	12.60	12.69	12.84	13.24	14.45	15.22	16.04	15.63
15	---	---	---	13.18	12.68	12.70	12.42	13.59	14.73	15.53	15.85	15.97
20	---	---	---	12.78	12.17	12.55	12.47	13.86	15.87	16.21	16.20	15.70
25	---	---	---	12.87	12.36	12.65	12.45	13.95	15.52	15.86	15.97	15.62
MEAN	---	---	---	12.66	11.93	12.76	13.80	13.30	15.21	15.85	16.31	15.59

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	15.39	15.01	13.69	11.74	11.04	10.56	11.50	10.35	11.85	12.86	12.60	12.99
10	14.98	14.57	13.63	11.56	11.19	10.60	11.45	10.51	12.26	13.14	12.77	12.89
15	14.74	14.32	13.55	11.41	11.36	10.43	11.12	10.93	12.03	12.89	13.21	12.82
20	14.05	13.91	13.45	11.12	10.78	10.62	10.61	10.95	12.71	12.67	13.17	12.39
25	14.45	13.92	13.10	11.09	10.63	10.93	10.47	11.16	13.29	12.47	12.97	12.24
MEAN	14.38	13.97	11.75	11.41	10.85	11.24	10.45	12.06	12.84	12.74	12.69	12.12

Orange County

355522079043001. Local number NC-126. McCauley. Chi Psi Fraternity. Chapel Hill. Dug unused water-table well in weathered granite of Paleozoic age, diam 36 in (91 cm), depth 48 ft (15 m), lined with rock. Lsd 511.50 ft (155.91 m) above msl. MP gage pointer, 3.24 ft (0.99 m) above lsd. Highest water level 36.43 ft (11.10 m) below lsd, May 9, 1960; lowest dry, Oct. 11-Dec. 31, 1940. Records available: 1938-75.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7, 1974	42.32	June 10, 1974	41.41	Nov. 18, 1974	43.22	Apr. 28, 1975	39.59
14	42.45	17	41.27	25	43.32	May 5	39.52
21	42.48	24	41.41	Dec. 2	43.32	12	39.52
28	42.53	July 8	41.53	9	43.39	19	39.51
Feb. 4	42.56	15	41.49	16	43.43	26	39.51
11	42.52	22	41.72	30	43.52	June 2	39.52
18	42.50	29	41.67	Jan. 6, 1975	43.59	9	39.59
25	42.53	Aug. 5	41.90	13	43.17	16	39.63
Mar. 4	42.46	12	41.86	20	42.92	23	39.81
11	42.51	19	42.02	27	42.32	30	39.90
18	42.38	26	42.12	Feb. 3	42.57	July 7	39.99
25	42.49	Sept. 2	42.23	10	42.33	14	39.99
Apr. 1	42.39	9	42.23	17	42.04	21	39.61
8	42.28	16	42.37	24	41.81	28	39.59
16	42.29	21	42.46	Mar. 3	41.76	Aug. 4	39.67
22	42.40	28	42.60	10	41.69	11	39.79
29	42.13	Oct. 7	42.63	17	41.18	18	39.67
May 6	41.97	14	42.76	24	40.61	25	39.58
13	42.17	21	42.92	31	40.21	Sept. 1	39.53
20	41.86	28	42.96	Apr. 7	39.99	8	39.53
28	41.57	Nov. 4	43.04	14	39.85	29	40.60
June 3	41.47	11	43.15	21	39.75		

Pamlico County

351523076335901. Local number NC-46. L. T. Sadler. Hobucken. Drilled unused artesian well in Castle Hayne Limestone of middle and late Eocene age, diam 1.5 in (3.8 cm), depth 29 ft (5.8 m), drilled to 219 ft (67 m), cased to 200 ft (61 m). Lsd 4 ft (1 m) above msl. MP top of instrument shelf, 3.20 ft (0.98 m) above lsd. Highest water level 0.10 ft (0.03 m) below lsd, Oct. 11, 1965; lowest 3.81 ft (1.16 m) below lsd, Dec. 11-14, 1968. Records available: 1965-75.

Date	Water level	Date	Water level	Date	Water level
Feb. 4, 1974	2.48	July 31, 1974	2.60	Apr. 2, 1975	2.41
Mar. 13	2.48	Oct. 3	2.59	Apr. 29	2.35
Apr. 18	2.54	Nov. 12	2.34	June 3	2.39
May 23	1.56	Dec. 17	2.49	Aug. 5	2.68
June 26	2.35	Feb. 4, 1975	2.46	Aug. 29	3.80

Pasquotank County

361833076173001. Local number NC-86. C. T. Winslow. Elizabeth City. Dug unused water-table well in sands of post-Miocene age, diam 18 in (46 cm), depth 8 ft (2.4 m), lined with tile. Lsd 12.53 ft (3.82 m) above msl. MP top of instrument shelf, 2.13 ft (0.65 m) above lsd (since Jan. 9, 1975). Highest water level 1.70 ft (0.52 m) above lsd, Feb. 28, 1968; lowest 8.00 ft (2.44 m) below lsd, Dec. 21, 1943. Records available: 1935-75.

WATER LEVEL (FT. ABOVE AND BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	-3.23	-1.28	-1.73	-0.09	-2.34	-1.09	-3.71	+0.12	-1.51
10	---	---	---	1.29	2.21	1.97	0.05	1.87	1.42	3.89	-0.51	0.47
15	---	---	---	1.78	2.92	1.47	0.45	2.33	2.02	4.24	1.08	1.30
20	---	---	---	-2.63	0.08	0.81	1.56	2.82	2.57	4.51	0.89	1.29
25	---	---	---	+0.04	1.17	-1.09	1.82	3.06	2.94	4.69	0.00	1.24
EOM	---	---	---	-0.71	1.44	+0.04	2.04	1.79	3.26	-2.10	0.93	-1.73

WATER LEVEL (FT. ABOVE AND BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	-2.19	-2.97	-2.73	-0.33	+0.12	-1.17	-3.88	-2.82	-3.02	-0.25	-3.45	-4.47
10	2.52	3.38	2.22	0.27	-0.84	1.63	4.63	2.85	3.61	4.25	3.96	4.72
15	2.91	3.72	2.29	0.09	1.16	0.30	4.21	3.14	3.84	0.49	4.29	4.88
20	1.87	3.75	2.10	-0.25	0.00	0.42	3.18	2.97	4.03	1.50	4.41	4.70
25	2.27	3.97	1.27	+0.07	0.07	2.20	3.44	2.61	4.31	2.15	4.64	4.71
EOM	2.73	4.12	1.02	-0.89	0.89	3.85	3.58	2.70	4.47	2.90	4.84	4.84

Pender County

342500077553001. Local number NC-26. Arvida Farms. Rocky Point. Drilled unused artesian well in Peedee Formation of late Cretaceous age, diam 6 in (15 cm), depth 141 ft (43 m), cased to 141 ft (43 m). Lsd 20 ft (6 m) above msl. MP top of casing, 1.00 ft (0.30 m) above lsd. Highest water level 0.97 ft (0.30 m) below lsd, May 14-15, 1966, Jan. 16, 1975; lowest 6.25 ft (1.91 m) below lsd, May 5, 1966. Records available: 1964-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	1.68	1.36	1.78	1.74	2.16	1.78	1.98	2.16	1.15
10	---	---	---	1.68	1.30	1.91	1.55	2.14	1.94	1.93	1.41	1.14
15	---	---	---	1.80	1.48	2.05	1.60	1.84	2.13	2.02	1.28	1.39
20	---	---	---	1.87	1.37	1.98	1.73	1.91	2.30	2.23	1.27	1.47
25	---	---	---	1.72	1.46	1.98	1.90	1.92	2.44	2.11	1.18	1.58
EOM	---	---	---	1.64	1.62	1.69	2.06	1.72	2.06	2.16	1.22	1.67

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1.84	2.05	1.80	1.30	1.74	2.07	2.18	2.28	2.46	2.08	2.11	2.84
10	1.96	2.14	1.42	1.21	1.71	2.22	2.23	2.36	2.55	2.95	2.34	2.77
15	2.07	2.17	1.41	1.01	1.59	2.27	2.26	2.47	2.62	2.34	2.50	2.67
20	1.94	2.09	1.40	1.23	1.82	2.18	2.20	2.50	2.72	1.65	2.65	2.35
25	1.89	1.96	1.23	1.34	1.81	2.08	2.22	2.45	2.89	1.77	2.77	1.53
EOM	1.97	2.00	1.23	1.62	1.88	2.15	2.32	2.44	2.94	1.86	2.81	1.36

Perquimans County

360546076201701. Local number NC-33. Harveys Point Defense Base. Harveys Neck. Drilled unused artesian well in Yorktown Formation of late Miocene age, diam 8 in (20 cm), depth 66 ft (20 m), cased to 66 ft (20 m). Lsd 3.30 ft (1.01 m) above msl. MP top of instrument shelf, 1.20 ft (0.37 m) above lsd. Highest water level 1.58 ft (0.48 m) below lsd, Mar. 18, 1968; lowest 18.13 ft (5.53 m) below lsd, Sept. 20, 1972. Records available: 1961-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	---	---	3.57	2.27	5.35	4.68	7.75	7.29	5.59
10	---	---	---	4.44	---	4.12	2.29	5.37	5.37	7.53	4.81	5.56
15	---	---	---	6.82	3.83	4.32	2.42	5.59	5.96	7.71	5.64	6.09
20	---	---	---	6.82	2.16	3.03	3.70	6.14	7.31	8.25	4.93	6.45
25	---	---	---	4.43	2.48	2.97	4.30	6.61	7.18	8.01	4.14	6.57
EOM	---	---	---	---	3.04	1.77	4.96	5.89	7.18	7.27	4.87	6.89

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.31	7.94	7.33	5.39	2.78	---	---	4.64	5.99	8.19	7.00	9.51
10	7.54	8.05	7.10	4.95	3.29	---	---	5.18	6.89	8.05	7.40	8.75
15	7.74	8.13	7.21	2.99	3.86	---	---	5.69	7.17	4.00	7.81	8.68
20	7.48	7.94	7.35	3.59	2.50	---	---	5.62	7.84	4.81	8.03	8.59
25	8.72	8.01	6.43	2.93	2.70	---	4.51	6.14	8.17	5.67	7.91	7.86
EOM	7.89	7.96	5.84	3.63	2.93	---	4.40	5.42	8.22	6.58	8.74	7.55

Sampson County

350030078194001. Local number NC-24. City of Clinton. Drilled unused artesian well in Tuscaloosa Formation of late Cretaceous age, diam 8 in (20 cm), depth 325 ft (99 m), multi-screened, top of screens 257 and 307 ft (78 and 94 m). Originally drilled to 385 ft (117 m). Lsd 157.5 ft (48.0 m) above msl. MP top of casing, 0.40 ft (0.12 m) above lsd (since Mar. 4, 1974). Highest water level 17.83 ft (5.43 m) below lsd, Oct. 13, 1964; lowest 28.69 ft (8.74 m) below lsd, Oct. 15, 1970. Records available: 1963-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	26.34	25.77	24.53	23.85	24.42	24.61	25.72	24.91	23.46
10	---	---	---	26.29	25.65	24.42	24.11	24.39	24.94	25.55	23.96	23.34
15	---	---	---	26.32	25.48	24.62	23.81	24.34	25.12	25.93	23.77	23.58
20	---	---	---	26.26	25.13	24.26	23.81	24.36	25.16	25.74	23.51	23.62
25	---	---	---	26.12	24.95	24.22	24.14	24.42	25.05	25.59	23.38	23.80
EOM	---	---	---	25.95	24.93	24.09	24.30	24.78	25.07	25.22	23.42	23.26

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	24.24	24.78	25.30	25.33	24.78	24.32	23.98	23.82	23.84	24.86	25.24	26.03
10	24.36	25.18	25.32	25.32	24.75	24.40	23.99	23.98	24.22	24.99	25.24	25.91
15	24.55	25.13	25.36	25.15	24.71	24.37	23.91	24.29	24.32	24.97	25.63	25.92
20	24.44	25.08	25.42	25.04	24.38	24.03	24.03	23.93	24.29	24.83	25.55	25.89
25	24.59	25.21	25.35	24.47	24.32	24.02	23.33	23.81	24.75	24.96	25.76	25.60
EOM	24.72	25.30	25.31	24.84	24.33	23.99	23.77	23.75	24.68	24.94	25.98	25.38

Transylvania County

351808082374301. Local number NC-127. Neal Hawkins. Blantyre. Dug unused water-table well in granite of Paleozoic age, diam 5 ft (1.5 m), depth 48 ft (15 m), lined with rock. Lsd 2,146.39 ft (654.22 m) above msl (revised). MP nail in 4" x 4" stringer, 1.00 ft (0.30 m) above lsd. Highest water level 25.84 ft (7.88 m) below lsd, May 21, 1973, May 13, 1974; lowest 41.32 ft (12.59 m) below lsd, Jan. 2, 1945, Dec. 25-27, 1954, Jan. 2, 3, 7, 1955. Records available: 1932-75.

Transylvania County--Continued

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Jan. 7, 1974	29.97	June 18, 1974	26.81	Nov. 18, 1974	31.43	Apr. 7, 1975	27.87
14	29.49	24	26.89	25	31.64	14	27.46
21	29.14	26	27.09	Dec. 2	31.81	30	27.46
28	28.64	July 1	27.28	9	31.96	May 12	26.76
Feb. 4	28.24	8	27.58	16	32.06	June 5	26.67
11	27.98	15	27.85	23	32.10	9	26.60
18	27.63	22	28.12	30	32.05	16	26.60
19	27.42	29	28.48	Jan. 6, 1975	31.91	23	26.66
25	27.26	Aug. 5	28.69	7	31.88	30	26.74
Mar. 4	27.02	12	28.98	13	31.74	July 7	26.98
11	26.74	19	29.06	20	31.54	14	27.32
18	26.53	26	29.05	27	31.29	21	27.75
25	26.48	Sept. 2	28.98	Feb. 3	31.14	28	28.20
Apr. 1	26.41	9	29.10	10	30.88	Aug. 11	29.00
8	26.40	16	29.27	12	31.71	18	29.31
15	26.38	23	29.48	17	30.62	20	29.52
22	26.35	30	29.64	24	30.23	25	29.66
24	26.20	Oct. 7	29.93	Mar. 3	29.84	Sept. 1	29.93
29	26.21	14	30.17	10	29.57	8	30.33
May 6	26.01	21	30.38	17	28.57	15	30.63
13	25.84	28	30.66	24	28.66	22	30.94
20	26.20	Nov. 4	30.93	27	28.57	29	31.00
27	26.23	11	31.20	31	28.07		

Washington County

354834076255001. Local number NC-65. M. V. Cahoon Farm. Near Creswell. Drilled unused artesian well in Castle Hayne Limestone Formation of middle and late Eocene age, diam 2 in (5.1 cm), depth 228 ft (69 m), drilled to 249 ft (76 m), cased to 249 ft (76 m). Lsd 6 ft (2 m) above msl. MP top of instrument shelf, 2.80 ft (0.85 m) above lsd. Highest water level 0.29 ft (0.09 m) above lsd, May 3, 1972; lowest 2.45 ft (0.75 m) below lsd, Oct. 20, 1970. Records available: 1967-75.

WATER LEVEL (FT. BELOW LSD), PERIOD JANUARY TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	---	---	1.76	1.60	1.55	1.42	1.48	1.53	1.62	1.65	1.48
10	---	---	---	1.71	1.59	1.55	1.41	1.48	1.52	1.53	1.53	1.52
15	---	---	---	1.80	1.63	1.55	1.39	1.51	1.53	1.48	1.56	1.52
20	---	---	---	1.73	1.49	1.43	1.46	1.55	1.56	1.62	1.50	1.53
25	---	---	---	1.81	1.51	1.50	1.43	1.54	1.46	1.67	1.47	1.55
EOM	---	---	---	1.65	1.65	1.27	1.54	1.47	1.56	1.61	1.46	1.54

WATER LEVEL (FT. BELOW LSD), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	1.75	1.70	1.66	1.69	1.63	1.50	1.40	1.50	1.64	1.92	1.78	1.94
10	1.67	1.72	1.65	1.66	1.51	1.60	1.60	1.58	1.65	1.79	1.85	1.89
15	1.72	1.73	1.69	1.56	1.56	1.52	1.60	1.62	1.77	1.78	1.88	1.89
20	1.62	1.72	1.66	1.60	1.43	1.36	1.47	1.64	1.85	1.73	---	1.84
25	1.75	1.73	1.70	1.59	1.42	1.35	1.70	1.65	2.04	1.67	---	1.70
EOM	1.74	1.78	1.71	1.55	1.47	1.44	1.61	1.64	1.97	1.73	2.07	1.71

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