BIBLIOGRAPHY OF SELECTED WATER-RESOURCES PUBLICATIONS BY THE U.S. GEOLOGICAL SURVEY FOR NORTH CAROLINA, 1886-1995

By

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ABSTRACT

More than 660 selected publications, written by scientists, engineers, and technicians of the U.S. Geological Survey during the period 1886-1995, compose the bulk of information about North Carolina's water resources . The bibliography includes interpretive reports on water resources, ground water, surface water, water quality, and public-water supply and water use, as well as data reports on the same subjects. The interpretive reports are organized by geographic areas of the State. These areas include statewide, physiographic province, major river basin, and county.

The data reports are listed by water-resource topic, and the introduction to each topic provides historical notes for data-collection and publication activities. Summary tables list Water-Supply Paper numbers for reports containing ground-water, surface-water, and water-quality data by calendar year or water year. A concluding section discusses the availability of U.S. Geological Survey publications.

INTRODUCTION

This bibliography brings together for the first time most of the important water-resources publications for North Carolina authored by scientists, engineers, and technicians of the U.S. Geological Survey (USGS), Water Resources Division, in the North Carolina District. Included are some early reports prepared by members of the Geologic Division of the USGS that are largely geologic in content, but also contain hydrologic data or observations. Several reports by other USGS authors who used hydrologic data in the State to prepare work on a national scale also are included. The early data reports were compiled by hydrographers in Washington, D.C., from data furnished by resident engineers and hydrographers in the State.

Water-resources reports for North Carolina come in a variety of formats. Most are in a single book form, but some are presented as map reports, booklets, brochures, abstracts, and individual fact sheets, or as part of larger reports; some are contained in scientific journals. This bibliography is a compilation of more than 660 reports that were published from 1886 through 1995, and is organized according to two general types of reports--those that are interpretive in nature and those that primarily contain data.

This compilation is not intended to be an exhaustive literature review. Not all papers and abstracts prepared for meetings or scientific journals, for example, are included here. Likewise, a search for theses and dissertations by USGS personnel was not done. Work initially published

in the USGS Open-File Report series that was later published in the formal USGS report series (Water-Supply or Professional Papers) is not included.

Cooperative support for most of the water-resources data and investigative reports was furnished by the North Carolina Department of Environment, Health, and Natural Resources (DEHNR) and its predecessor agencies; the North Carolina Department of Transportation; other State agencies; and many county and city governments. A number of other Federal agencies cooperatively supported some of the investigations.

BIBLIOGRAPHY OF INTERPRETIVE WATER-RESOURCES PUBLICATIONS

The bibliography of interpretive water-resources publications is organized by four geographic areas in the State: (1) statewide, (2) physiographic province, (3) major river basin, and (4) county. Reports are listed in descending chronological order, and are repeated if applicable to another area. For example, a report for a multicounty area is repeated for each county represented in that report.

Statewide reports are those for which the results or techniques are generally applicable throughout North Carolina, or the results are based on data collected at sites throughout the State. Ground-water, surface-water, or water-quality studies that include the State as part of a national or regional study also are included in the statewide category.

North Carolina is divided into the Blue Ridge, Coastal Plain, and Piedmont physiographic provinces (fig. 1). The hydrology of the State is influenced by the geology and topography represented in these provinces; consequently, many water-resources investigations of less than statewide scale were designed with this influence in mind. Similarly, some studies have focused on particular hydrologic problems within large areas of the Coastal Plain. For purposes of this report, these are the Albemarle-Pamlico studies region, the central Coastal Plain studies region, and the Outer Banks studies region (fig. 2).

Some water-resources investigations were conducted within the boundaries of river basins. The major river basins in North Carolina in which studies were undertaken include the Cape Fear, Catawba-Broad, French Broad, Little Tennessee-Hiwassee, Neuse, New, Roanoke-Chowan, Tar-Pamlico, Tennessee, and Yadkin-Peedee Basins (fig. 3).

Hydrologic studies in North Carolina also are structured on a county or multicounty basis. This bibliography includes water-resources reports pertinent to each of North Carolina's 100 counties (fig. 4); the counties are listed in alphabetical order for a convenient reference. For completeness of county coverage, reports for several counties that were prepared by the North Carolina Department of Water Resources and successor agencies are included.

For the convenience of the reader, additional key words follow some citations. These are shown as one or more words in brackets to supplement informational content of the title, as well as to aid computer searches. An index of authors is provided in the Appendix.

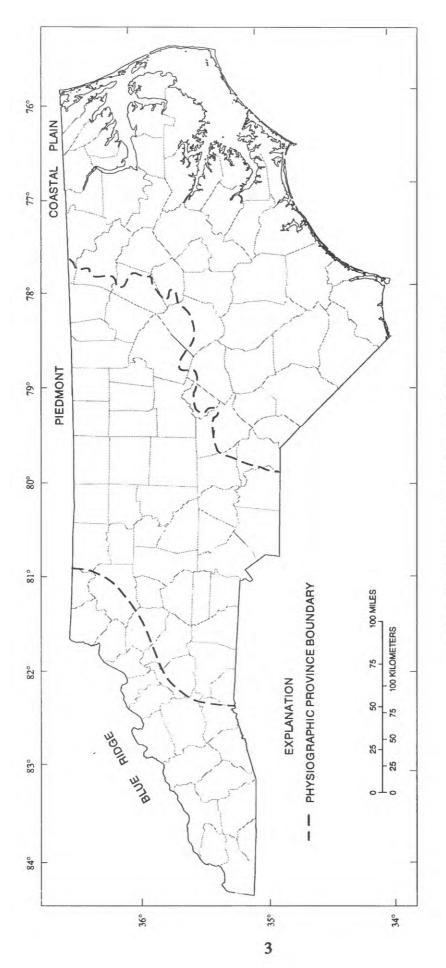


Figure 1.--Physiographic provinces in North Carolina.

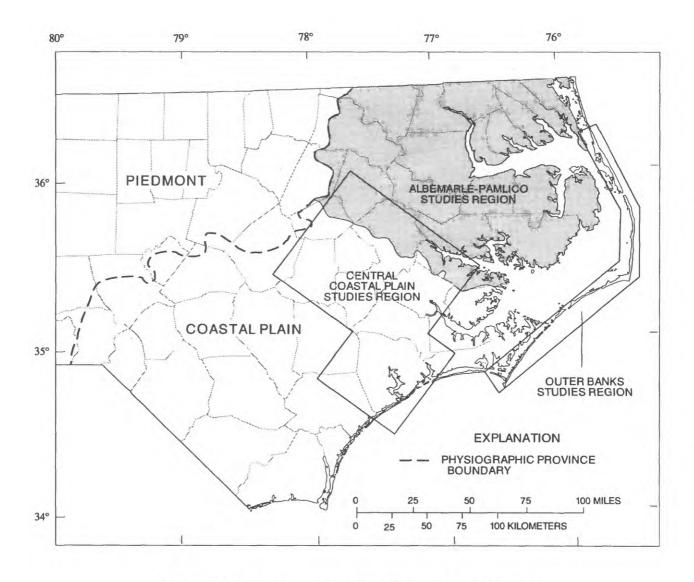


Figure 2.--Study regions in the Coastal Plain of North Carolina.

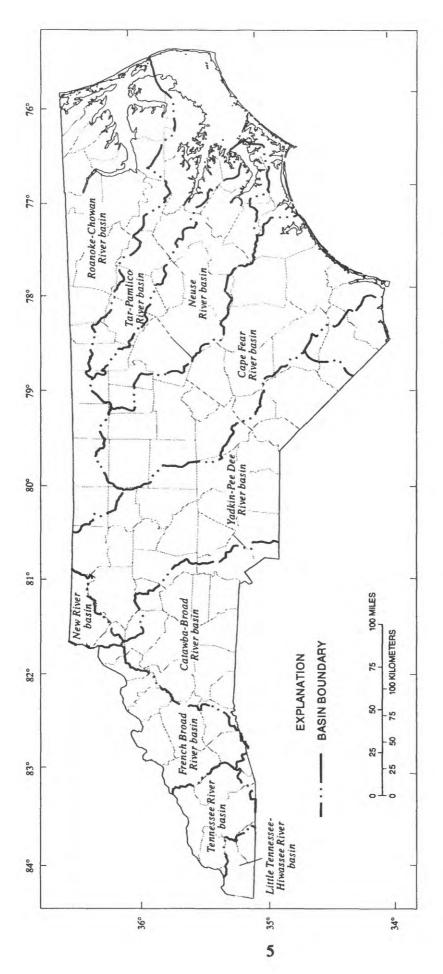


Figure 3.--Major river basins in North Carolina.

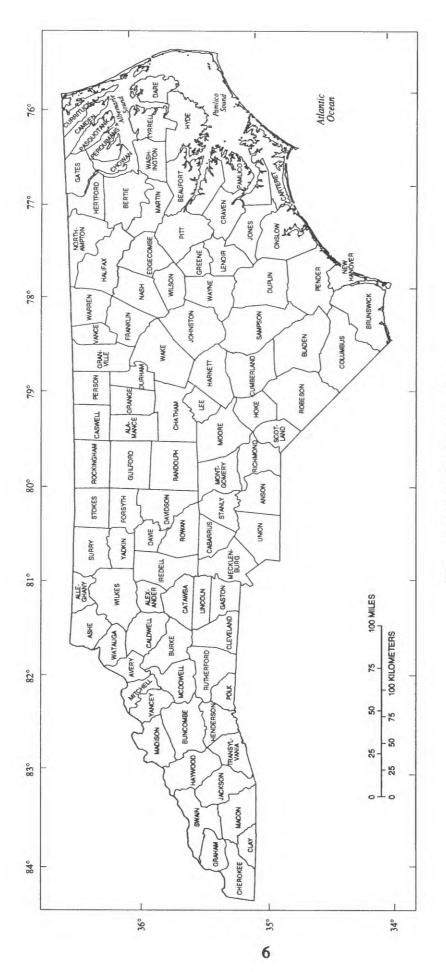


Figure 4.-- North Carolina counties.

Statewide

- U.S. Geological Survey, 1995, Water. In North Carolina, before a bridge is built, before a well is dug, before a fish is caught, the USGS is there [brochure]: U.S. Geological Survey Open-File Report 95-276, 8 p.[programs]
- U.S. Geological Survey, 1995, United States Geological Survey programs in North Carolina: U.S. Geological Survey Fact Sheet FS-033-95, 4 p.
- Bales, J.D., 1993, The role of models in evaluating water quality, *in* Proceedings of the Conference on Water Issues in the 1990's: Hickory, N.C., Environmental Policy and Studies Center, 2 p.
- Barnes, C.R., and Davenport, M.S., 1993, North Carolina stream water quality, *in* Paulson, R.W., and others, comp., 1993, National water summary 1990-91--Hydrologic events and stream water quality: U.S. Geological Survey Water-Supply Paper 2400, p. 421-428.
- Caldwell, W.S., 1993, Selected water-quality and biological characteristics of streams in some forested basins of North Carolina, 1985-88: U.S. Geological Survey Water-Resources Investigations Report 92-4129, 114 p.
- Giese, G.L., and Mason, R.R., Jr., 1993, Low-flow characteristics of streams in North Carolina: U.S. Geological Survey Water-Supply Paper 2403, 29 p.
- Simmons, C.E., 1993, Sediment characteristics of North Carolina streams, 1970-79: U.S. Geological Survey Water-Supply Paper 2364, 84 p.
- Winner, M.D., Jr., 1993, U.S. Geological Survey: North Carolina's water resources--A partnership with State, Federal, and local agencies: U.S. Geological Survey Open-File Report 93-113, 8 p.[brochure, programs]
- Deckard, R.J., ed., 1992, Water resources activities of the North Carolina district of the U.S. Geological Survey, 1988-90: U.S. Geological Survey Open-File Report 475, 98 p.[programs]
- Winner, M.D., Jr., 1991, U.S. Geological Survey: North Carolina's water resources--A partnership with state, federal, and local agencies: U.S. Geological Survey Open-File Report 91-77, 8 p.[brochure, programs]
- Zembrzuski, T.J., Hill, C.L., Weaver, J.C., and others, 1991, North Carolina floods and droughts, *in* Paulson, R.W., and others, comp., 1991, National Water Summary 1988-89: U.S. Geological Survey Water-Supply Paper 2375, p. 425-434.[surface water]
- Krug, W.R., and others, 1990, Map of the mean annual runoff for the northeastern, southeastern, and mid-Atlantic United States, water years 1951-80: U.S. Geological Survey Water-Resources Investigations Report 88-4094, 11 p.[surface water]
- Coble, R.W., 1988, U.S. Geological Survey ground-water studies in North Carolina: U.S. Geological Survey Open-File Report 88-147, 1 p.[programs]

- Giese, G.L., Mason, R.R., Jr., Strickland, A.G., and Bailey, M.C., 1988, North Carolina ground-water quality, *in* National water summary 1986--Hydrologic events and ground-water quality: U.S. Geological Survey Water-Supply Paper 2325, p. 393-400.
- Mason, R.R., Jr., and Hill, C.L., 1988, Programs for generating data tables for the annual water-resources data report of the U.S. Geological Survey: U.S. Geological Survey Open-File Report 88-173, 13 p.
- Gebert, W.A., Graczyk, D.J., and Krug, W.R., 1987, Average annual runoff in the United States, 1951-80: U.S. Geological Survey Hydrologic Investigations Atlas HA-710, 1 sheet.
- Gunter, H.C., Mason, R.R., Jr., and Stamey, T.C., 1987, Magnitude and frequency of floods in rural and urban basins of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 87-4096, 52 p.[surface water]
- Mason, R.R., Jr., and Jackson, N.M., Jr., 1986, North Carolina surface-water resources, *in* National water summary 1985--Hydrologic events and surface-water resources: U.S. Geological Survey Water-Supply Paper 2300, p. 355-360.
- Turner, J.F., and Deckard, R.J., eds., 1986, Activities of the U.S. Geological Survey Water-Resources Division in North Carolina, 1986: U.S. Geological Survey Open-File Report 86-226, 69 p.[programs]
- Coble, R.W., Giese G.L., and Eimers, J.L., 1985, North Carolina ground-water resources, *in* National water summary 1984--Hydrologic events, selected water-quality trends, and groundwater resources: U.S. Geological Survey Water-Supply Paper 2275, p. 329-334.
- Mason, R.R., Jr., and Jackson, N.M., Jr., 1985, Cost-effectiveness of the stream-gaging program in North Carolina: U.S. Geological Survey Water-Resources Investigations Report 85-4036, 109 p.
- Meikle, R.L., 1983, Drainage areas of selected sites on streams in North Carolina: U.S. Geological Survey Open-File Report 83-211, 163 p.
- U.S. Geological Survey, 1983, North Carolina water issues, *in* National water summary 1983--Hydrologic events and issues: U.S. Geological Survey Water-Supply Paper 2250, p. 182-184.
- U.S. Geological Survey, 1983, Water-resources investigations of the U.S. Geological Survey in North Carolina--1983: Reston, Va., U.S. Geological Survey, 1 sheet.[programs]
- Simmons, C.E., and Heath, R.C., 1982, Water quality characteristics of streams in forested and rural areas of North Carolina: U.S. Geological Survey Water-Supply Paper 2185-B, p. B1-B33.
- Wilder, H.B., and Simmons, C.E., 1982, Program for evaluating stream quality in North Carolina: U.S. Geological Survey Water-Supply Paper 2185-A, p. A1-A15.

- Harned, D.A., Daniel, C.C., III, and Crawford, J.K., 1981, Methods of discharge compensation as an aid to the evaluation of water-quality trends: Water Resources Research, v. 17, no. 5, p. 1389-1400.
- Thomas, N.O., and Jackson, N.M., Jr., 1981, Manual for leveling at gaging stations in North Carolina: U.S. Geological Survey Open-File Report 81-1104, 37 p.
- Winner, M.D., Jr., 1981, An observation-well network concept as applied to North Carolina: U.S. Geological Survey Water-Resources Investigations 81-13, 59 p.
- Winner, M.D., Jr., 1981, Proposed observation-well networks and ground-water level program for North Carolina: U.S. Geological Survey Open-File Report 81-544, 68 p.
- Heath, R.C., 1980, Basic elements of ground-water hydrology with reference to conditions in North Carolina: U.S. Geological Survey Water-Resources Investigations Open-File Report 80-44, 86 p.
- Cederstrom, D.J., Boswell, E.H., and Tarver, G.R., 1979, Summary appraisals of the Nation's ground-water resources--South Atlantic-Gulf region: U.S. Geological Survey Professional Paper 813-O, 35 p.
- Coble, R.W., 1979, A technique for estimating heights reached by the 100-year flood on unregulated, nontidal streams in North Carolina: U.S. Geological Survey Water-Resources Investigations 79-69, 14 p.[surface water]
- Heath, R.C., 1978, Floods and droughts--The worst are yet to be: Raleigh, N.C., The University of North Carolina Water Resources Research Institute, 21 p.[brochure, surface water]
- Mann, L.T., Jr., 1978, Public water supplies of North Carolina--A summary of water sources, use, treatment, and capacity of water-supply systems (1970-76): U.S. Geological Survey Water-Resources Investigations 78-16, 61 p.[data]
- U.S. Geological Survey, 1978, Water-resources investigations in North Carolina, 1977: Reston, Va., U.S. Geological Survey, 1 sheet.[programs]
- Wilder, H.B., and Simmons, C.E., 1978, Program for evaluating stream quality in North Carolina: U.S. Geological Survey Circular 764, 16 p.
- Thomas, N.O., and Bonham, W.G., 1977, Annual maximum stages and discharges of North Carolina streams--Revised 1976: U.S. Geological Survey Open-File Report 77-367, 226 p.
- Jackson, N.M., Jr., 1976, Magnitude and frequency of floods in North Carolina, Technique for estimating the magnitude and frequency of floods on natural streams in North Carolina: U.S. Geological Survey Water-Resources Investigations 76-17, 26 p.[surface water]
- Trainer, F.W., and Heath, R.C., 1976, Bicarbonate content of ground water in carbonate rock in eastern North America: Journal of Hydrology, v. 37, p. 37-55. [water quality]

- Arteaga, F.E., and Hubbard, E.F., 1975, Evaluation of reservoir sites in North Carolina--Regional relations for estimating the reservoir capacity needed for a dependable supply: U.S. Geological Survey Water-Resources Investigations 46-74, 60 p.[surface water]
- Heath, R.C., 1975, Water-resource studies of the U.S. Geological Survey in North Carolina, *in* Smith, L.C., ed., Planning for progress: Raleigh, N.C., North Carolina Office of State Planning, v. 7, no. 2, p. 8-9.[programs]
- Heath, R.C., Thomas, N.O., and Dubach, Harold, 1975, Water resources, *in* Clay, J.W., Douglass, M.O., and Stuart, A.W., eds., North Carolina Atlas, Portrait of a changing southern state: Chapel Hill, N.C., University of North Carolina Press, p. 150-177.
- U.S. Geological Survey, 1974, Hydrologic unit map--1974 State of North Carolina: Reston, Va., U.S. Geological Survey Map Report, 1 sheet, scale 1:500,000.
- Heath, R.C., 1973, Review of water resources in North Carolina: University of North Carolina Water Resources Research Institute Newsletter, No. 110, March 1973, p. 1-3.
- Thomas, N.O., 1973, Summaries of streamflow records: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, Office of Water and Air Resources, 303 p.[data]
- Durum, W.H., Hem, J.D., and Heidel, S.C., 1971, Reconnaissance of selected minor elements in surface waters of the United States, October 1970: U.S. Geological Survey Circular 643, 49 p.[water quality]
- Heath, R.C., 1971, Studies of toxic metals in North Carolina by the U.S. Geological Survey: University of North Carolina Water Resources Research Institute Report No. 57, p. 39-42.[water quality]
- Wilder, H.B., and Slack, L.J., 1971, Chemical quality of water in streams of North Carolina: U.S. Geological Survey Hydrologic Investigations Atlas HA-439, 2 sheets. [water quality]
- Wilder, H.B., and Slack, L.J., 1971, Summary of data on chemical quality of streams of North Carolina, 1943-67: U.S. Geological Survey Water-Supply Paper 1895-B, 236 p.
- Yonts, W.L., 1971, Low-flow measurements of North Carolina streams: Raleigh, N.C., North Carolina Dept. of Water and Air Resources, 236 p.[data]
- Goddard, G.C., Jr., Jackson, N.M., Jr, Hubbard, E.F., and Hinson, H.G., 1970, A proposed streamflow data program for North Carolina: Raleigh, N.C., U.S. Geological Survey Open-File Report, 69 p.
- Woodard, T.H., 1970, Summary of data on temperature of streams in North Carolina, 1943-67: U.S. Geological Survey Water-Supply Paper 1895-A, 39 p.[water quality]
- LeGrand, H.E., 1969, Potential of the ground environment for water supply and pollution abatement, with special reference to the South Atlantic States: Raleigh, N.C., Proc. of the 18th Southern Water Resources and Pollution Control Conference, North Carolina State Univ., p. 137-145.[ground water]

- Mallory, E.C., Jr., Johnson, J.O., and Scott, R.C., 1969, Water load of uranium, radium, and gross beta activity at selected gaging stations, water year 1960-61: U.S. Geological Survey Water-Supply Paper 1535-O, p. O1-O31.[water quality, radioactive]
- LeGrand, H.E., 1967, Role of ground water contamination in water management: Journal American Water Works Assoc., v. 59, no. 5, p. 557-565.
- Wilson, Alfonso, and others, 1967, River discharge to the sea from the shores of the conterminous United States: U.S. Geological Survey Hydrologic Investigations Atlas HA-282, 1 sheet.[surface water]
- Blakey, J.F., 1966, Temperature of surface waters in the conterminous United States: U.S. Geological Survey Hydrologic Investigations Atlas HA-235, 3 sheets. [water quality]
- Busby, M.W., 1966, Annual runoff in the conterminus United States: U.S. Geological Survey Hydrologic Investigations Atlas HA-212, 1 sheet.[surface water]
- Feth, J.H., and others, 1965, Preliminary map of the conterminous United States showing depth to and quality of shallowest ground water containing more than 1,000 parts per million dissolved solids: U.S. Geological Survey Hydrologic Investigations Atlas HA-199, 2 sheets.[water quality]
- Hinson, H.G., 1965, Floods on small streams in North Carolina, probable magnitude and frequency: U.S. Geological Survey Circular 517, 7 p.[surface water]
- Durfor, C.N., and Becker, Edith, 1964, Chemical quality of public water supplies of the United States and Puerto Rico, 1962: U.S. Geological Survey Hydrologic Investigations Atlas HA-200, 1 sheet.[water quality]
- McGuinness, C.L., comp., 1964, Generalized map showing annual runoff and productive aquifers in the conterminous United States: U.S. Geological Survey Hydrologic Investigations Atlas HA-194, 1 sheet.[surface water, ground water]
- Busby, M.W., 1963, Yearly variations in runoff for the conterminous United States, 1931-60: U.S. Geological Survey Water-Supply Paper 1669-S, 49 p.[surface water]
- Goddard, G.C., Jr., 1963, Water-supply characteristics of North Carolina streams: U.S. Geological Survey Water-Supply Paper 1761, 223 p.
- Fleischer, Michael, 1962, Fluoride content of ground water in the conterminous United States: U.S. Geological Survey Miscellaneous Geological Investigations Map I-387, 1 sheet, scale 1:5,000,000.[water quality]
- LeGrand, H.E., 1962, A perspective on problems of hydrogeology: Geological Society of America Bull., v. 73, p. 1147-1152.[ground water]

- Rainwater, F.H., 1962, Stream composition of the conterminous United States: U.S. Geological Survey Hydrologic Investigations Atlas HA-61, 3 sheets.[water quality]
- Scott, R.C., and Barker, F.B., 1962, Data on uranium and radium in ground water in the United States, 1954 to 1957: U.S. Geological Survey Professional Paper 426, 115 p.[radioactive]
- Walker, P.N., 1962, Drainage areas at selected sites on streams in North Carolina (revised 1965): Raleigh, N.C., U.S. Geological Survey Open-File Report, 80 p.
- Forrest W.E., and Speer, P.R., 1961, Floods in North Carolina, magnitude and frequency: Raleigh, N.C., U.S. Geological Survey Open-File Report, 195 p.[surface water]
- Bogart, D.B., 1960, Floods of August-October 1955 New England to North Carolina: U.S. Geological Survey Water-Supply Paper 1420, 854 p.[surface water]
- Krieger, R.A., Hatchett, J.L., and Poole, J.L., 1957, Preliminary survey of saline-water resources of the United States: U.S. Geological Survey Water-Supply Paper 1374, 172 p.[water quality]
- LeGrand, H.E., 1956, Ground-water resources in North Carolina: North Carolina Dept. of Conservation and Development Bull. 69, 20 p.
- Thomas, N.O., and Harbeck, G.E., 1956, Reservoirs in the United States: U.S. Geological Survey Water-Supply Paper 1360-A, 99 p.[surface water]
- Riggs, H.C., 1955, Floods in North Carolina, magnitude and frequency: Raleigh, N.C., U.S. Geological Survey Open-File Report, 59 p.[surface water]
- Lohr, E.W., and Love, S.K., 1954, The industrial utility of public water supplies in the United States, 1952, Part 1, States east of the Mississippi River: U.S. Geological Survey Water-Supply Paper 1299, 639 p.[water quality]
- Schipf, R.G., and LeGrand, H.E., 1954, Preliminary study of flood-plain deposits in North Carolina [abs.]: Journal Elisha Mitchell Scientific Society, v. 70, no. 2.[hydrogeology]
- Hubbard, E.C., and Pauszek, F.H., 1949, Fluoride in North Carolina water: North Carolina State Board of Health, The Health Bulletin, v. 64, no. 8, (Aug. 1949,) 32 p.[water quality]
- U.S. Geological Survey, 1949, Floods of August 1940 in the southeastern States: U.S. Geological Survey Water-Supply Paper 1066, 554 p.[surface water]
- Mundorff, M.J., 1945, Ground-water problems in North Carolina: American Water Works Assoc. Journal, v. 37, no. 2, p. 155-160.
- Mundorff, M.J., 1945, Progress report on ground water in North Carolina: North Carolina Dept. of Conservation and Development Bull. 47, 78 p.[well records, hydrologic unit, water quality]

- Jarvis, C.S., and others, 1936, Floods in the United States--magnitude and frequency: U.S. Geological Survey Water-Supply Paper 771, 497 p.[surface water]
- Fuller, M.L., 1905, North Carolina, *in* Fuller, M.L., 1905, Underground waters of eastern United States: U.S. Geological Survey Water-Supply Paper 114, p. 136-139.[ground water, water quality]
- Fuller, M.L., Lines, E.F., and Veatch, A.C., 1905, Record of deep-well drilling for 1904: U.S. Geological Survey Water-Supply Paper 264, 106 p.[hydrogeology, well records]
- Darton, N.H., 1902, Preliminary list of deep borings in the United States, part 2 (Nebraska-Wyoming): U.S. Geological Survey Water-Supply Paper 61, 67 p.[hydrogeology, well records]
- Gannett, Henry, 1901, Profiles of rivers in the United States: U.S. Geological Survey Water-Supply Paper 44, 100 p.[surface water]
- McGee, W.J., 1894, Potable waters of the eastern United States, *in* Powell, J.W., 1894, Fourteenth annual report of the United States Geological Survey, 1892-93, Part 2: Washington, D.C., U.S. Government Printing Office, p. 1-47.[water quality]

Blue Ridge Province

- Swain, L.A., and others, 1992, An overview of the Appalachian Valleys-Piedmont regional aquifer system analysis, *in* Hotchkiss, W.R., and Johnson, A.I., eds., 1992, Regional aquifer systems of the United States--Aquifers of the southern and eastern States: American Water Resources Association Monograph Series No. 17, p. 43-58.[hydrogeology]
- Swain, L.A., and others, 1991, Plan of study for the regional aquifer-system analysis of the Appalachian Valley and Ridge, Piedmont, and Blue Ridge physiographic provinces of the eastern and southeastern United States, with a description of study-area geology and hydrogeology: U.S. Geological Survey Water-Resources Investigations Report 91-4066, 44 p.[programs]
- Daniel, C.C., III, and Payne, R.A., 1990, Hydrogeologic unit map of the Piedmont and Blue Ridge Provinces of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 90-4035, 1 sheet. scale 1:500,000.[hydrogeology]
- Daniel, C.C., III, 1989, Statistical analysis relating well yield to construction practices and siting of wells in the Piedmont and Blue Ridge Provinces of North Carolina: U.S. Geological Survey Water-Supply Paper 2341-A, 27 p.
- Heath, R.C., and Giese, G.L., 1980, What about ground water in western North Carolina--Are large supplies feasible?: Reston, Va., U.S. Geological Survey, 16 p.[brochure]
- Heath, R.C., 1979, Better utilization of ground water in the Piedmont and mountain region of the Southeast: U.S. Geological Survey Open-File Report 79-262, 22 p.

- LeGrand, H.E., 1979, Evaluation techniques of fractured-rock hydrology, *in* Back, William, and Stephenson, D.A., ed., 1979, Contemporary hydrogeology--The George Burke Maxey Memorial Volume, Journal Hydrology, v. 43, p. 333-346.
- Stewart, J.M., Heath, R.C., and Morris, J.N., 1978, Floods in western North Carolina--A lesson for the future: Raleigh, N.C., University of North Carolina Water Resources Research Institute, 24 p.[surface water]
- Winner, M.D., Jr., 1977, Ground-water resources along the Blue Ridge Parkway, North Carolina: U.S. Geological Survey Water-Resources Investigations 77-65, 170 p.[well records, springs]
- Jackson, N.M., Jr., 1974, Public water supplies of North Carolina--Part 3, mountains and western Piedmont: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, 232 p. [water use, data]
- Hubbard, E.F., 1972, Water in the Great Smoky Mountains National Park: Reston, Va., U.S. Geological Survey, 15 p.[brochure, water resources]
- McMaster, W.M., and Hubbard, E.F., 1970, Water resources of the Great Smoky Mountains National Park, Tennessee and North Carolina: U.S. Geological Survey Hydrologic Investigations Atlas HA-420, 2 sheets.
- Wyrick, G.G., 1968, Ground-water resources of the Appalachian region: U.S. Geological Survey Hydrologic Investigations Atlas HA-295, 4 sheets.
- LeGrand, H.E., 1967, Ground water of the Piedmont and Blue Ridge Provinces in the southeastern States: U.S. Geological Survey Circular 538, 11 p.
- Laney, R.L., 1965, A comparison of the chemical composition of rainwater and ground water in western North Carolina: U.S. Geological Survey Professional Paper 525-C, p. C187-C189. [water quality]
- Schneider, W.J., and others, 1965, Water resources of the Appalachian region, Pennsylvania to Alabama: U.S. Geological Survey Hydrologic Investigations Atlas HA-198, 11 sheets. [ground water, surface water, water quality]
- LeGrand, H.E., 1958, Chemical character of water in the igneous and metamorphic rocks of North Carolina: Economic Geology, v. 53, no. 2, p. 178-189.[water quality]
- Mundorff, M.J., 1950, Flood-plain deposits of North Carolina Piedmont and mountain streams as a possible source of ground-water supply, Preliminary report: North Carolina Dept. of Conservation and Development Bull. 59, 20 p.[logs]
- Foster, M.D., 1927, Surface waters of western North Carolina: Industrial and Engineering Chemistry, v. 19, p. 885.[water quality]

- Glenn, L.C., 1911, Denudation and erosion in the southern Appalachian region and the Monongahela Basin: U.S. Geological Survey Professional Paper 72, 137 p.[hydrology]
- Ayres, H.B., and Ashe, W.W., 1905, The southern Appalachian forests: U.S. Geological Survey Professional Paper 37, 291 p.[hydrology, surface water]

Coastal Plain Province

- Bales, J.D., 1994, Some effects of development on hydrology and water quality, *in* Ohrel, R.L., ed., Integrated coastal wastewater management in North Carolina, symposium proceedings, Dec. 2-3,: Wilmington, N.C., North Carolina Coastal Federation, 1993, p. 35-38.
- Peterson, M.S., and Meador, M.R., 1994, Effects of salinity on freshwater fishes in Coastal Plain drainages in the southeastern U.S.: Reviews in Fisheries Science, 1994, p. 95-121.[water quality, biology, surface water]
- Pope, B.F., 1993, Hydrology of two tidal marshes in North Carolina where open-marsh water management modifications have been implemented: U.S. Geological Survey Water-Resources Investigations Report 93-4051, 41 p.[wetlands, water levels]
- Trapp, Henry, Jr., 1992, Hydrogeologic framework of the northern Atlantic Coastal Plain in parts of North Carolina, Virginia, Maryland, Delaware, New Jersey, and New York: U.S. Geological Survey Professional Paper 1404-G, 59 p.
- Giese, G.L., Eimers, J.L., and Coble, R.W., 1991, Simulation of ground-water flow in the Coastal Plain aquifer system of North Carolina: U.S. Geological Survey Open-File Report 90-372, 178 p.[model]
- Harsh, J.F., and Laczniak, R.J., 1990, Conceptualization and analysis of ground-water flow in the Coastal Plain aquifers of Virginia and parts of Maryland and North Carolina: U.S. Geological Survey Professional Paper 1404-F, 100 p.[model]
- Lyke, W.L., and Winner, M.D., 1989, Identification of regional hydrogeologic units in unconsolidated Coastal Plain sediments: Washington, D.C., Abstracts, 28th International Geological Congress, July 9-19, 1989, v. 2, p. 337-338.[ground water]
- Winner, M.D., Jr., and Coble, R.W., 1989, Hydrogeologic framework of the North Carolina Coastal Plain aquifer system: U.S. Geological Survey Open-File Report 87-690, 155 p.[well records]
- Lyke, W.L., and Treece, M.W., Jr., 1988, Hydrogeology and effects of ground-water withdrawals in the Castle Hayne aquifer in coastal North Carolina, *in* Proceedings of the Symposium on Coastal Water Resources, Wilmington, North Carolina, May 22-25, 1988: Bethesda, Md., American Water Resources Association, p. 469-478.

- Coble, R.W., Giese, G.L., and Winner, M.D., Jr., 1987, Application of regional aquifer-system analysis study results to ground-water management in North Carolina: American Water Resources Association Monograph Series No. 9, p. 39-49.[hydrology]
- Lyke, W.L., and Coble, R.W., 1987, Regional study of the Castle Hayne aquifer of eastern North Carolina: U.S. Geological Survey Open-File Report 87-571, 1 p.[ground water]
- Meisler, Harold, 1987, The occurrence and geochemistry of salty ground water in the northern Atlantic Coastal Plain: U.S. Geological Survey Professional Paper 1404-D, 51 p.[water quality]
- Giese, G.L., Wilder, H.B., and Parker, G.G., Jr., 1985, Hydrology of major estuaries and sounds of North Carolina: U.S. Geological Survey Water-Supply Paper 2221, 108 p.[surface water]
- Lloyd, O.B., Jr., Larson, J.D., and Davis, R.W., 1985, Summary of northern Atlantic Coastal Plain hydrology and its relation to disposal of high-level radioactive waste in buried crystalline rock--A preliminary appraisal: U.S. Geological Survey Water-Resources Investigations Report 85-4146, 80 p.[hydrogeology]
- Meisler, Harold, Leahy, P.P., and Knobel, L.L., 1985, The effect of eustatic sea-level changes on saltwater-freshwater relations in the northern Atlantic Coastal Plain: U.S. Geological Survey Water-Supply Paper 2255, 28 p.[hydrogeology]
- Daniel, C.C., III, 1981, Hydrology, geology, and soils of pocosins: A comparison of natural and altered systems, *in* Richardson, C.J., ed., Pocosin wetlands--An integrated analysis of Coastal Plain freshwater bogs in North Carolina: Stroudsburg, Pa., Hutchinson Ross Publishing Co., p. 69-108.[wetlands, ground water]
- Meisler, Harold, 1981, Preliminary delineation of salty ground water in the northern Atlantic Coastal Plain: U.S. Geological Survey Open-File Report 81-71, 37 p.[hydrogeology]
- Meisler, Harold, 1980, Plan of study for the northern Atlantic Coastal Plain regional aquifer system analysis: U.S. Geological Survey Water-Resources Investigations 80-16, 27 p. [programs]
- Robison, T.M., 1977, Public water supplies of North Carolina--Part 4, northern Coastal Plain: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, 218 p.[water use, data]
- Robison, T.M., and Mann, L.T., Jr., 1977, Public water supplies of North Carolina--Part 5, southern Coastal Plain: Raleigh, N.C., North Carolina Dept. of Natural Resources and Community Development, 333 p.[water use, data]
- Brown, P.M., and Reid, M.S., 1976, Geologic evaluation of waste-storage potential in selected segments of the Mesozoic aquifer system below the zone of fresh water, Atlantic Coastal Plain, North Carolina through New Jersey: U.S. Geological Survey Professional Paper 881, 47 p.[hydrogeology]

- Simmons, C.E., 1976, Sediment characteristics of streams in the eastern Piedmont and western Coastal Plain regions of North Carolina: U.S. Geological Survey Water-Supply Paper 1798-O, 32 p.[water quality]
- LeGrand, H.E., 1975, Ground-water supplies of the coastal region, *in* Proceedings of the Southeastern Conference, Water supply and wastewater in coastal areas: Raleigh, N.C., Water Resources Research Institute, p. 87-101.
- LeGrand, H.E., 1974, Bedrock fractures beneath a Coastal Plain cover [abs.]: Geological Society of America, Southeastern section abstracts, v. 6, no. 4, p. 375-376.[hydrogeology]
- Lindskov, K.L., 1973, Water resources of northeast North Carolina above Cape Lookout--Interim report: Raleigh, N.C., U.S. Geological Survey Open-File Report, 71 p.[hydrology]
- Brown, P.M., Miller, J.A., and Swain, F.M., 1972, Structural and stratigraphic framework and spatial distribution of permeability of the Atlantic Coastal Plain, North Carolina to New York: U.S. Geological Survey Professional Paper 796, 79 p.[hydrogeology]
- Folger, D.W., 1972, Characteristics of estuarine sediments of the United States: U.S. Geological Survey Professional Paper 742, 94 p.[geology]
- LeGrand, H.E., and Stringfield, V.T., 1971, Development and distribution of permeability in carbonate aquifers: Water Resources Research, v. 7, no. 5, p. 1284-1294.[hydrogeology, Castle Hayne]
- LeGrand, H.E., and Stringfield, V.T., 1971, Tertiary limestone aquifer system in the southeastern States: Economic Geology, v. 66, p. 701-709.[hydrogeology, Castle Hayne]
- Fisher, D.W., 1968, Annual variations in chemical composition of atmospheric precipitation, eastern North Carolina and southeastern Virginia (1962-64): U.S. Geological Survey Water-Supply Paper 1535-M, p. M1-M21.[rainwater, water quality]
- Manheim, F.T., and Horn, M.K., 1968, Composition of deeper subsurface water along the Atlantic continental margin: Southeastern Geology, v. 9, no. 4, p. 215-236.[ground water, water quality]
- Wilder, H.B., 1967, Hydrology of sounds and estuaries in North Carolina, *in* Proceedings of a symposium on the hydrology of the coastal waters of North Carolina, North Carolina State University, Raleigh, N.C., May 12, 1967: University of North Carolina Water Resources Research Institute Report No. 5, p. 115-129.
- Gambell, A.W., and Fisher, D.W., 1966, Chemical composition of rainfall, eastern North Carolina and southeastern Virginia (1962-63): U.S. Geological Survey Water-Supply Paper 1535-K, p. K1-K41.[water quality, rainwater]

- LeGrand, H.E., and Stringfield, V.T., 1966, Development of permeability and storage in the Tertiary limestones of the southeastern States, U.S.A.: International Assoc. of Scientific Hydrology Bull., v. 11, no. 4, p. 61-73.[ground water, Castle Hayne]
- Stringfield, V.T., and LeGrand, H.E., 1966, Hydrology of limestone terranes in the Coastal Plain of the southeastern United States: Geological Society of America Special Paper No. 93, 46 p. [Castle Hayne]
- Callahan, J.T., and Wait, R.L., 1964, Relations of fresh and salty ground water along the southeastern U.S. Atlantic coast [abs.]: Geological Society of America Special Paper 76, p. 27.[water quality]
- LeGrand, H.E., 1964, Hydrogeologic framework of the Gulf and Atlantic Coastal Plain: Southeastern Geology, v. 5, no. 4, p. 177-194.
- Gambell, A.W., 1963, Sulfate and nitrate content of precipitation over parts of North Carolina and Virginia: U.S. Geological Survey Professional Paper 475-C, p. C209-C211.[water quality, rainwater]
- LeGrand, H.E., 1962, Geology and ground-water hydrology of the Atlantic and Gulf Coastal Plain as related to disposal of radioactive wastes: U.S. Geological Survey TEI Report 805, 169 p.
- Brown, P.M., 1960, Occurrence of lithium, boron, bromine, fluorine, and iodine in natural ground waters of the Coastal Plain of North Carolina [abs.]: Geological Society of America Bull., v. 71, no. 12, pt. 2, p. 2013.[water quality]
- Brown, P.M., 1958, Well logs from the Coastal Plain of North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 72, 68 p.[geology]
- LeGrand, H.E., 1957, Geologic and hydrologic history of the Tertiary limestone of North Carolina [abs.]: Geological Society of America Bull., v. 68, no. 12, pt. 2, p. 1761.[Castle Hayne]
- LeGrand, H.E., and Brown, P.M., 1957, The occurrence of salty ground water in the Coastal Plain of North Carolina [abs.], *in* North Carolina Acad. Science Proceedings, Elisha Mitchell Scientific Society Journal, v. 73, no. 2, p. 240.[water quality]
- Rice, E.B., 1957, Surface-water supply of eastern and central North Carolina: Raleigh, N.C., U.S. Geological Survey Open-File Report, 92 p.
- LeGrand, H.E., 1955, Brackish water and its structural implications in the Great Carolina Ridge: American Assoc. Petroleum Geologists Bull., v. 39, no. 10, p. 2020-2037.[hydrogeology, water quality]
- LeGrand, H.E., and Brown, P.M., 1955, Guidebook of excursion in the Coastal Plain of North Carolina: Raleigh, N.C., North Carolina Division of Mineral Resources Special Publication, 43 p.[hydrogeology]

- LeGrand, H.E., and LeGrand, J.R., 1954, A dome of brackish ground water in the Coastal Plain of North Carolina [abs.]: Journal Elisha Mitchell Scientific Society, v. 70, no. 2, 1 p.[water quality]
- LeGrand, H.E., 1953, Streamlining of the Carolina Bays: Journal of Geology, v. 61, no. 3, p. 263-274.[hydrogeology]
- Stringfield, V.T., 1950, Ground-water geology in the southeastern States, *in* Symposium on mineral resources of the southeastern States Proceedings: Knoxville, Tenn., University of Tennessee, p. 211-222.[hydrogeology]
- Mundorff, M.J., 1947, Occurrence of brackish water in the Coastal Plain of North Carolina [abs.]: Journal Elisha Mitchell Scientific Society, v. 63, no. 2, p. 103.[water quality]
- Mundorff, M.J., 1944, Selected well logs in the Coastal Plain of North Carolina: North Carolina Dept. of Conservation and Development Information Circular 3, 40 p.[geology]
- Foster, M.D., 1942, Base-exchange and sulfate reduction in salty ground waters along Atlantic and Gulf coasts: American Assoc. Petroleum Geologists Bull., v. 26, no. 5, p. 838-851.[water quality]
- Parker, H.N., 1912, The quality of some waters of the Coastal Plain of North Carolina, *in* Clark, W.B., and others, 1912, The Coastal Plain of North Carolina: North Carolina Geological and Economic Survey, v. III, pt. II, p. 484-509.[ground water, water quality]
- Stephenson, L.W., and Johnson, B.L., 1912, The water resources of the Coastal Plain of North Carolina, *in* Clark, W.B., and others, 1912, The Coastal Plain of North Carolina: North Carolina Geological and Economic Survey, v. III, pt. II, p. 333-483.[ground water, water quality, well records]
- Sanford, Samuel, 1911, Saline artesian waters of the Atlantic Coastal Plain, *in* Fuller, M.L., and others, 1911, Underground-water papers, 1910: U.S. Geological Survey Water-Supply Paper 258, p 75-86.[ground water, water quality]
- Darton, N.H., 1896, Artesian-well prospects in the Atlantic Coastal Plain region: U.S. Geological Survey Bull. 138, 232 p.[hydrogeology]

Albemarle-Pamlico Studies Region

- Bales, J.D., and Robbins, J.C., 1995, Simulation of hydrodynamics and solute transport in the Pamlico River estuary, North Carolina: U.S. Geological Survey Open-File Report 94-454, 85 p.[surface water, model]
- Harned, D.A., McMahon, Gerard, Spruill, T.B., and Woodside, M.D., 1995, Water-quality assessment of the Albemarle-Pamlico drainage basin, North Carolina and Virginia-Characterization of suspended sediment, nutrients, and pesticides: U.S. Geological Survey Open-File Report 95-191, 131 p.

- McMahon, Gerard, and Lloyd, O.B., Jr., 1995, Water-quality assessment of the Albemarle-Pamlico drainage basin, North Carolina and Virginia--Environmental setting and water-quality issues: U.S. Geological Survey Open-File Report 95-136, 72 p.
- Spruill, T.B., Harned, D.A., and McMahon, Gerard, 1995, The Albemarle-Pamlico drainage National Water-Quality Assessment Study: Background and design: U.S. Geological Survey Open-File report 95-164, 4 p.[water quality, programs]
- Bales, J.D., and Garrett, R.G., 1994, Salinity and dissolved-oxygen dynamics in a wind-driven estuary, *in* Controneo, G.V., and Rumer, R.R., eds., 1994, Hydraulic engineering '94, Proceedings of the symposium, Aug. 1-5, 1994: Buffalo, N.Y., American Society of Civil Engineers, v. 2, p. 1311-1315.[surface water]
- Bales, J.D., and Newcomb, D.J., 1994, Application of a geographic information system to estuarine hydrodynamic modeling, *in* Shane, R.M., ed., 1994, Hydraulic Engineering '94, Proceedings of the symposium, Aug. 1-5, 1994: Buffalo, N.Y., American Society of Civil Engineers, v. 2, p. 870-875.[surface water]
- Garrett, R.G., 1994, Water-quality data from continuously monitored sites in the Pamlico and Neuse River estuaries, North Carolina, 1991-92: U.S. Geological Survey Open-File Report 94-27, 161 p.
- Treece, M.W., Jr., and Jaynes, M.L., 1994, Effects of water-control structures on hydrologic and water-quality characteristics in selected agricultural drainage canals in eastern North Carolina: U.S. Geological Survey Water-Resources Investigations Report 94-4226, 62 p. [surface water]
- Bales, J.D., Strickland, A.G., and Garrett, R.G., 1993, An interim report on flows in the lower Roanoke River, and water quality and hydrodynamics of Albemarle Sound, North Carolina, October 1989-April 1991: U.S. Geological Survey Open-File Report 92-123, 133 p.[surface water, model]
- Garrett, R.G., 1993, Water-quality data from continuously monitored sites in the Albemarle Sound estuarine system, North Carolina, 1989-91: U.S. Geological Survey Open-File Report 93-69, 257 p.
- Robbins, J.C., and Bales, J.D., 1993, Simulated circulation and transport in adjacent wind-driven estuaries in North Carolina, *in* Spaulding, M.L., and others, eds., 1993, Estuarine and coastal modeling III, Proceedings of the 3rd International Conference, Sept. 8-10, 1993: Oak Brook, Ill., American Society of Civil Engineers, p. 105-118.[surface water, model]
- Strickland, A.G., and Bales, J.D., 1993, Simulation of unsteady flow in the Roanoke River from near Oak City to Williamston, North Carolina: U.S. Geological Survey Water-Supply Paper 2408-A, 34 p.[surface water, model]

- Ziegler, C.K., Bales, J.D., Robbins, J.C., and Blumberg, A.F., 1993, A comparative analysis of estuarine circulation simulation using laterally averaged and vertically averaged hydrodynamic models, *in* Spaulding, M.L., and others, eds., 1993, Estuarine and coastal modeling III, Proceedings of the of the 3rd International Conference, Sept. 8-10, 1993: Oak Brook, Ill., American Society of Civil Engineers, p. 447-460.[surface water]
- Bernier, T.P., 1992, Ground water investigations planned for the Albemarle-Pamlico drainage study unit of the National Water-Quality Assessment Program [abs.], in Proceedings of the 11th Annual Conference, National Assoc. of Black Geologists and Geophysicists: New Orleans, p. 17.[programs]
- Garrett, R.G., 1992, Water-quality data from continuously monitored sites in the Pamlico and Neuse River estuaries, North Carolina, 1990-91: U.S. Geological Survey Open-File Report 92-110, 196 p.
- Giese, G.L., and Bales, J.D., 1992, Two-dimensional circulation modeling of the Pamlico River estuary, North Carolina, *in* Proceedings of the 2nd International conference, Estuarine and coastal modeling, November 13-15, 1991, Tampa, Fla.: New York, N.Y., American Society of Civil Engineers, p. 607-619.[surface water]
- Strickland, A.G., and Bales, J.D., 1992, Modeling flow and flood-plain storage in a tidally affected river, *in* Jennings, M., and Bhownik, N.G., eds., 1992, Hydraulic Engineering, Proceedings of Water Forum '92, August 2-5, 1992: Baltimore, Md., American Society of Civil Engineers, p. 1130-1135.[surface water]
- Garrett, R.G., and Bales, J.D., 1991, Water-quality from continuously monitored sites in the Pamlico and Neuse River estuaries, North Carolina, 1989-90: U.S. Geological Survey Open-File Report 91-465, 151 p.[data]
- Lloyd, O.B., Jr., Barnes, C.R., and Woodside, M.D., 1991, National Water-Quality Assessment Program--The Albemarle-Pamlico drainage [N.C.]: U.S. Geological Survey Open-File Report 91-156, 2 p.
- Bales. J.D., 1990, Data-collection program for Pamlico River estuary model calibration and validation, *in* Spaulding, M.L., ed., 1990, Estuarine and coastal modeling, Proceedings of the conference, Newport, R.I., November 15-17, 1989: New York, American Society of Civil Engineers, p. 492-501.
- Bales, J.D., 1990, Flows and flow patterns in the Pamlico and Neuse River estuaries [abs.], in Holman, R.E., ed., Project abstracts for the period 1989-1990: Raleigh, N.C., North Carolina Dept. of Environment, Health, and Natural Resources, Albemarle-Pamlico Estuarine Study Project No. 89/08, p. 8.[surface water]
- Harned, D.A., and Davenport, M.S., 1990, Water-quality trends and basin activities and characteristics for the Albemarle-Pamlico estuarine system, North Carolina and Virginia: U.S. Geological Survey Open-File Report 90-398, 164 p.

- Treece, M.W., Jr., and Bales, J.D., 1990, Hydrologic and water-quality effects of artificial-drainage control [abs.], *in* North Carolina Dept. of Environment, Health, and Natural Resources, Project abstracts-FY89 and FY90: Raleigh, N.C., North Carolina Dept. of Environment, Health, and Natural Resources, Project Report No. 90-18, p. 27.
- Treece, M.W., Jr., and Bales, J.D., 1990, Monitoring techniques for quantifying drainage from altered wetlands [abs.]: Denver Colo., American Water Resources Association.[surface water]
- Bales, J.D., 1989, Off-site effects of water-control structures [abs.], in Holman, R.E., ed., Project abstracts for the period 1989-1990: Raleigh, N.C., North Carolina Dept. of Environment, Health, and Natural Resources, Albemarle-Pamlico Estuarine Study Project No. 89/08, p. 9.[surface water]
- Bales, J.D., 1989, Land drainage and estuarine salinity response, *in* Ports, M.A., ed., Hydraulic Engineering--Proceedings of the 1989 national conference on hydraulic engineering: New York, American Society of Civil Engineers, p. 200-205.[water quality]
- Copeland, B.J., and others, 1989, Water quality, *in* Copeland, B.J., ed., Albemarle-Pamlico Sounds--Preliminary technical analysis of the status and trends: Raleigh, N.C., North Carolina Dept. of Environment, Health, and Natural Resources Report No. 89-13A, p. 99-105.
- Harned, D.A., and Davenport, M.S., 1989, Water-quality trends of the Albemarle-Pamlico estuarine system [abs.], *in* Pederson, G.L. and Smith, M.M., comps., 1989, U.S. Geological Survey second national symposium on water quality: Abstracts of the technical sessions, Orlando, Fla., Nov. 12-17, 1989: U.S. Geological Survey Survey Open-File Report 89-409, p. 35.
- Bales, J.D., 1988, Review of concepts and data relevant to hydrodynamic and water-quality modeling of the Albemarle-Pamlico Sounds, North Carolina, *in* Duffy, 1988, M.A., ed., Proceedings of the workshop on hydrodynamic and water-quality models for the Albemarle-Pamlico Estuarine Study: Raleigh, N.C., North Carolina Dept. of Natural Resources and Community Development Report No. 87-03, p. 13-28.
- Bales, J.D., and Nelson, T.M., 1988, Bibliography of hydrologic and water-quality investigations conducted in or near the Albemarle-Pamlico Sounds region, North Carolina: U.S. Geological Survey Open-File Report 88-480, 148 p.
- Harned, D.A., 1988, Water-quality trends of the Albemarle-Pamlico estuary system--A progress report [abs.], *in* North Carolina Dept. of Natural Resources and Community Development, Project abstracts for the period 1987-89: Raleigh, N.C., North Carolina Dept. of Natural Resources and Community Development, Albemarle-Pamlico Estuarine Study.
- Phipps, R.L., Ireley, D.L., and Baker, C.P., 1979, Tree rings as indicators of hydrologic change in the Great Dismal Swamp, Virginia and North Carolina: U.S. Geological Survey Water-Resources Investigations Report 78-136, 26 p.[wetlands]

- Daniel, C.C., III, 1978, Land use, land cover, and drainage on the Albemarle-Pamlico peninsula, eastern North Carolina: U.S. Geological Survey Water-Resources Investigations 78-134, 2 sheets.[hydrology, wetlands]
- Heath, R.C., 1978, Hydrologic impact of land drainage on estuaries, *in* Proceedings of soil moisture-site productivity symposium, Myrtle Beach, S.C., Nov. 1-3, 1977: U.S. Forest Service, p. 250-261.[hydrology, wetlands]
- Wilder, H.B., Robison, T.M., and Lindskov, K.L., 1978, Water resources of northeast North Carolina: U.S. Geological Survey Water-Resources Investigations 77-81, 113 p.[hydrology]
- Robison, T.M., 1977, Public water supplies of North Carolina--Part 4, northern Coastal Plain: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, 218 p.[water use, data]
- Heath, R.C., 1975, Hydrology of the Albemarle-Pamlico region, North Carolina: A preliminary report on the impact of agricultural developments: U.S. Geological Survey Water-Resources Investigations 9-75, 89 p.[wetlands]
- Lichtler, W.F., and Walker, P.N., 1974, Hydrology of the Dismal Swamp, Virginia-North Carolina: U.S. Geological Survey Open-File Report 74-39, 50 p.[wetlands]
- Lindskov, K.L., 1973, Water resources of northeast North Carolina above Cape Lookout: An interim report: Raleigh, N.C., U.S. Geological Survey Open-File Report, 71 p.[hydrology]
- Berryhill, H.L., Jr., Swanson, V.E., and Love, A.H., 1972, Organic and trace element content of Holocene sediments in two estuarine bays, Pamlico Sound area, North Carolina: U.S. Geological Survey Bulletin 1314-E, 32 p.[geochemistry]
- Fisher, D.W., 1968, Annual variations in chemical composition of atmospheric precipitation, eastern North Carolina and southeastern Virginia (1962-64): U.S. Geological Survey Water-Supply Paper 1535-M, p. M1-M21.[rainwater, water quality]
- Gambell, A.W., and Fisher, D.W., 1966, Chemical composition of rainfall, eastern North Carolina and southeastern Virginia (1962-63): U.S. Geological Survey Water-Supply Paper 1535-K, p. K1-K41.[water quality, rainwater]

Central Coastal Plain Studies Region

- Eimers, J.L., Lyke, W.L., and Brockman, A.R., 1990, Simulation of ground-water flow in aquifers in Cretaceous rocks in the central Coastal Plain, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 89-4153, 101 p.[model]
- Lyke, W.L., 1990, Ground-water study of the central Coastal Plain, North Carolina: U.S. Geological Survey Open-File Report 90-192, 2 p.

- Robbins, J.C., and Lyke, W.L., 1990, Transferring model-operating responsibility from a Federal to a State agency, *in* Janes, E.B. and Hotchkiss, W.R., eds., 1990, Transferring models to users--Symposium proceedings, Nov. 4-8, 1990: Denver, American Water Resources Assoc., p. 141-147.
- Brockman, A.R., Lyke, W.L., and Winner, M.D., Jr., 1989, Potentiometric surface of the Peedee aquifer in the central Coastal Plain of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 87-4236, one sheet.[ground water, water level]
- Lyke, W.L., 1989, Ground-water declines and management efforts in North Carolina's central Coastal Plain, *in* Proceedings of 25th Annual Conference, Tampa, Fla., Sept. 17-22, 1989: American Water Resources Assoc., p. 11B-1.[water use]
- Lyke, W.L., Winner, M.D., Jr., and Brockman, A.R., 1989, Potentiometric surface of the Black Creek aquifer in the central Coastal Plain of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 87-4233, one sheet.[ground water, water level]
- Winner, M.D., Jr., Lyke, W.L., and Brockman, A.R., 1989, Potentiometric surface of the upper Cape Fear aquifer in the central Coastal Plain of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 87-4235, one sheet.[ground water, water level]
- Winner, M.D., Jr., Lyke, W.L., and Brockman, A.R., 1989, Potentiometric surface of the lower Cape Fear aquifer in the central Coastal Plain of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 87-4234, one sheet. [ground water, water level]
- Winner, M.D., Jr., and Lyke, W.L., 1989, Aquifers in Cretaceous rocks of the central Coastal Plain of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 87-4178, 71 p.[well records, ground water, hydrogeology]
- Eimers, J.L., 1988, Using RASA--ground-water modeling in the North Carolina central Coastal Plain, *in* Proceedings of the Symposium on Coastal Water Resources, Wilmington, N.C., May 22-25, 1988: Bethesda, Md., American Water Resources Association, p. 465.
- Lyke, W.L., and Winner, M.D., Jr., 1986, Altitude of basement surface in the central Coastal Plain area of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 86-4082, 2 sheets.[hydrogeology]
- Winner, M.D., Jr., and Lyke, W.L., 1986, History of ground-water pumpage and water-level decline in the Black Creek and upper Cape Fear aquifers of the central Coastal Plain of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 86-4168, 21 p. [water use]

Outer Banks Studies Region

- Mason, R.R., Jr., and Sheppard, D.M., 1994, Field performance of an acoustic scour-depth monitoring system, *in* Pugh, C.A. ed., 1994, Fundamentals and advancements in hydraulic measurements and experimentation, Proceedings of the symposium: Buffalo, N.Y., Aug. 1-5, 1994: American Society of Civil Engineers, v. 2, p. 366-275.[Bonner Bridge, surface water, sediment]
- Winner, M.D., Jr., 1978, Ground-water resources of the Cape Lookout National Seashore, North Carolina: U.S. Geological Survey Water-Resources Investigations 78-52, 49 p.[well records]
- Winner, M.D., Jr., 1975, Ground-water resources of the Cape Hatteras National Seashore, North Carolina: U.S. Geological Survey Hydrologic Investigations Atlas HA-540, 2 sheets. [hydrogeology]
- Lloyd, O.B., Jr., and Dean, R.B., 1968, Ground-water supply of Cape Hatteras National Seashore recreational area, North Carolina, Part 6: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Report of Investigations 7, 29 p.[hydrogeology, data]
- Lloyd, O.B., Jr., and Wilder, H.B., 1968, Ground-water supply of Cape Hatteras National Seashore recreational area, North Carolina, Part 4: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Report of Investigations 5, 19 p.[data, well records]
- Wyrick, G.G., and Dean, R.B., 1968, Ground-water supply of Cape Hatteras National Seashore recreational area, North Carolina, Part 5: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Report of Investigations 6, 29 p.[water levels, data]
- Harris, W.H., 1967, Stratification of fresh and salt water on barrier islands as a result of differences in sediment permeability: Water Resources Research, v. 3, no. 1, p. 89-97. [ground water]
- Wait, R.L., and Callahan, J.T., 1965, Relations of fresh and salty ground water along the southeastern U.S. Atlantic coast: Ground Water, v. 3, no. 4, p. 3-17.
- Harris, W.H., and Wilder, H.B., 1964, Ground-water supply of Cape Hatteras National Seashore recreational area, North Carolina, Part 3: North Carolina Dept. of Water Resources, Report of Investigations 4, 22 p.[data]
- Harris, W.H., and Wilder, H.B., 1963, Stratification of fresh and salt water on barrier islands as a result of changes in sediment permeability [abs.]: Geological Society of America Special Paper 73, p. 167.[ground water]
- Kimrey, J.O., 1961, Ground-water supply for the Dare Beaches Sanitary District: North Carolina Dept. of Water Resources Report of Investigations 3, 20 p.[data]
- Brown, P.M., 1960, Ground-water supply of Cape Hatteras National Seashore recreational area: North Carolina Dept. of Water Resources Report of Investigations 1, 14 p.[data]

Kimrey, J.O., 1960, Ground-water supply of Cape Hatteras National Seashore recreational area, Part 2: North Carolina Dept. of Water Resources Report of Investigations 2, 28 p.[data]

Piedmont Province

- Daniel, C.C., III, 1992, Correlation of well yield to well depth and diameter in fractured crystalline rocks, North Carolina, *in* Daniel, C.C., III, White, R.K., and Stone, P.A., eds., 1992, Ground water in the Piedmont: Clemson, S.C., Conference Proceedings on Ground Water in the Piedmont of the Eastern United States, Charlotte, N.C., Oct. 16-18, 1989, p. 638-653.[hydrogeology]
- Daniel, C.C., III, 1992, Geostatistical characterization of permeability distribution in fractured crystalline rocks of the Piedmont for use in digital flow models [abs.]: Geological Society of America Abstracts with Programs, v. 24, no. 2, p. 11.[hydrogeology]
- Harned, D.A., 1992, Statistical characterization of ground-water quality in the Piedmont of North Carolina, and some ground-water quality differences related to land use [abs.]: Geological Society of America Abstracts with Programs, v. 24, no. 2, p. 20.[geochemistry]
- Harned, D.A., and Daniel, C.C., III, 1992, The transition zone between bedrock and regolith: Conduit for contamination?, *in* Daniel, C.C., III, White, R.K., and Stone, P.A., eds., 1992, Ground water in the Piedmont: Clemson, S.C., Conference Proceedings on Ground Water in the Piedmont of the Eastern United States, Charlotte, N.C., Oct. 16-18, 1989, p. 336-348.[hydrogeology]
- Swain, L.A., and others, 1992, An overview of the Appalachian Valleys-Piedmont regional aquifer system analysis, *in* Hotchkiss, W.R., and Johnson, A.I., eds., 1992, Regional aquifer systems of the United States--Aquifers of the southern and eastern States: American Water Resources Association Monograph Series No. 17, p. 43-58.[hydrogeology
- Swain, L.A., and others, 1991, Plan of study for the regional aquifer-system analysis of the Appalachian Valley and Ridge, Piedmont, and Blue Ridge physiographic provinces of the eastern and southeastern United States, with a description of study-area geology and hydrogeology: U.S. Geological Survey Water-Resources Investigations Report 91-4066, 44 p.[programs]
- Daniel, C.C., III, 1990, Evaluation of site-selection criteria, well design, monitoring techniques, and cost analysis for a ground-water supply in Piedmont crystalline rocks, North Carolina: U.S. Geological Survey Water-Supply Paper 2341-B, 35 p.
- Daniel, C.C., III, and Payne, R.A., 1990, Hydrogeologic unit map of the Piedmont and Blue Ridge Provinces of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 90-4035, 1 sheet, scale 1:500,000.[hydrogeology]
- Hill, C.L., and Harned, D.A., 1990, The effects of agricultural land-management practices on surface and ground water in the Piedmont of North Carolina, *in* United States Geological Survey Yearbook, fiscal year 1989, p. 36-38.

- Crawford, J.K., and Lenat, D.R., 1989, Effects of land use on the water quality and biota of three streams in the Piedmont Province of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 89-4007, 67 p.[biology]
- Daniel, C.C., III, 1989, Correlation of well yield to well depth and diameter in fractured crystalline rocks, North Carolina [abs.], in Program with abstracts, Conference on Ground Water in the Piedmont of Eastern United States, Oct. 16-18, 1989, Charlotte, N.C.: Clemson, S.C., Ground Water in the Piedmont, Clemson University, p. 19.[hydrogeology]
- Daniel, C.C., III, 1989, Statistical analysis relating well yield to construction practices and siting of wells in the Piedmont and Blue Ridge Provinces of North Carolina: U.S. Geological Survey Water-Supply Paper 2341-A, 27 p.[hydrogeology]
- Daniel, C.C., III, 1989, Techniques for maximizing sustained yields from water wells in fractured crystalline rocks of the Piedmont of North Carolina: Geological Society of America Abstracts with Programs, v. 21, no. 3, p. 11.[hydrology]
- Harned, D.A., 1989, The hydrogeologic framework and a reconnaissance of ground-water quality in the Piedmont Province of North Carolina, with a design for future study: U.S. Geological Survey Water-Resources Investigations Report 88-4130, 55 p.[water quality]
- Harned, D.A., and Daniel, C.C., III, 1989, The transition zone between bedrock and regolith: Conduit for contamination? [abs.], *in* Program with abstracts, Conference on Ground Water in the Piedmont of Eastern United States, Oct. 16-18, 1989, Charlotte, N.C.: Clemson, S.C., Ground Water in the Piedmont, Clemson University, p. 19.[hydrogeology]
- Harned, D.A., 1988, Effects of highway runoff on streamflow and water quality in the Sevenmile Creek Basin, a rural area in the Piedmont Province of North Carolina, July 1981 to July 1982: U.S. Geological Survey Water-Supply Paper 2329, 33 p.
- Daniel, C.C., III, 1987, Use of statistical data in selecting water-well sites in the Piedmont of North Carolina [abs.]: Geological Society of America Southeastern Section meeting abstracts, Feb. 1987, p. 81.[hydrogeology]
- Harned, D.A., and Daniel, C.C., III, 1987, Ground-water component of Piedmont streams: Implications for ground-water supply systems and land-use planning: Geological Society of America Southeastern Section meeting abstracts, Feb. 1987, p.89.[hydrology]
- Bain, G.L., and Brown, C.E., 1981, Evaluation of the Durham Triassic Basin of North Carolina and technique used to characterize its waste-storage potential: U.S. Geological Survey Open-File Report 80-1295, 130 p.[hydrogeology]
- Heath, R.C., 1979, Better utilization of ground water in the Piedmont and mountain region of the Southeast: U.S. Geological Survey Open-File Report 79-262, 22 p.

- LeGrand, H.E., 1979, Evaluation techniques of fractured-rock hydrology, *in* Back, William, and Stephenson, D.A., ed., Contemporary hydrogeology--The George Burke Maxey Memorial Volume: Journal Hydrology, v. 43, p. 333-346.
- Stewart, J.M., Heath, R.C., and Morris, J.N., 1978, Floods in western North Carolina--A lesson for the future: Raleigh, N.C., Water Resources Research Institute of the University of North Carolina, 24 p.[surface water]
- Simmons, C.E., 1976, Sediment characteristics of streams in the eastern Piedmont and western Coastal Plain regions of North Carolina: U.S. Geological Survey Water-Supply Paper 1798-O, 32 p.[water quality]
- Jackson, N.M., Jr., 1974, Public water supplies of North Carolina--Part 3, mountains and western Piedmont: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, 232 p. [water use, data]
- Jackson, N.M., Jr., 1973, Public water supplies of North Carolina--Part 2, southern Piedmont: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, 255 p.[water use, data]
- Jackson, N.M., Jr., 1972, Public water supplies of North Carolina--Part 1, northern Piedmont: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, 277 p.[water use, data]
- Putnam, A.L., 1972, Effect of urban development on floods in the Piedmont Province of North Carolina: Raleigh, N.C., U.S. Geological Survey Open-File Report, 87 p.
- Wyrick, G.G., 1968, Ground-water resources of the Appalachian region: U.S. Geological Survey Hydrologic Investigations Atlas HA-295, 4 sheets.
- LeGrand, H.E., 1967, Ground water of the Piedmont and Blue Ridge Provinces in the southeastern States: U.S. Geological Survey Circular 538, 11 p.
- Laney, R.L., 1965, A comparison of the chemical composition of rainwater and ground water in western North Carolina: U.S. Geological Survey Professional Paper 525-C, p. C187-C189. [water quality]
- Schneider, W.J., and others, 1965, Water resources of the Appalachian region, Pennsylvania to Alabama: U.S. Geological Survey Hydrologic Investigations Atlas HA-198, 11 sheets. [ground water, surface water, water quality]
- Kilpatrick, F.A., and Barnes, H.H., 1964, Channel geometry of Piedmont streams as related to frequency of floods: U.S. Geological Survey Professional Paper 422-E, 10 p.[surface water]
- Gambell, A.W., 1963, Sulfate and nitrate content of precipitation over parts of North Carolina and Virginia: U.S. Geological Survey Professional Paper 475-C, p. C209-C211.[water quality, rainwater]

- LeGrand, H.E., 1958, Chemical character of water in the igneous and metamorphic rocks of North Carolina: Economic Geology, v. 53, no. 2, p. 178-189. [water quality]
- Rice, E.B., 1957, Surface-water supply of eastern and central North Carolina: Raleigh, N.C., U.S. Geological Survey Open-File Report, 92 p.
- LeGrand, H.E., 1952, Solution depressions in diorite in North Carolina: American Journal of Science, v. 250, p. 566-585.[hydrogeology]
- Mundorff, M.J., 1950, Flood-plain deposits of North Carolina Piedmont and mountain streams as a possible source of ground-water supply, Preliminary report: North Carolina Dept. of Conservation and Development Bull. 59, 20 p.[logs]
- Glenn, L.C., 1911, Denudation and erosion in the southern Appalachian region and the Monongahela Basin: U.S. Geological Survey Professional Paper 72, 137 p.[hydrology]
- Ayres, H.B., and Ashe, W.W., 1905, The southern Appalachian forests: U.S. Geological Survey Professional Paper 37, 291 p.[hydrology, surface water]

Major River Basins

Broad River Basin--See Catawba-Broad River Basin

Cape Fear River Basin

- Garrett, R.G., Taylor, J.E., and Middleton, T.L., 1994, Water-quality data for selected North Carolina streams and reservoirs in the Triangle Area Water Supply Monitoring Project, 1988-92: U.S. Geological Survey Open-File Report 94-379, 255 p.
- Crawford, J.K., 1985, Water quality of North Carolina streams--Water-quality characteristics for selected sites on the Cape Fear River, North Carolina, 1955-80--Variability, loads, and trends of selected constituents: U.S. Geological Survey Water-Supply Paper 2185-F, 44 p.
- Daniel, C.C., III, and Sharpless, N.B., 1983, Ground-water supply potential and procedures for well-site selection in the upper Cape Fear River Basin: North Carolina Dept. of Natural Resources and Community Development and U.S. Water Resources Council, 73 p.
- Floyd, E.O., and Peace R.R., Jr., 1974, An appraisal of the ground-water resources of the upper Cape Fear River Basin, North Carolina: North Carolina Dept. of Natural and Economic Resources, Div. of Ground Water Bull. 20, 21 p.[geologic map]
- Hubbard, E.F., and Stamper, W.G., 1972, Movement and dispersion of soluble pollutants in the Northeast Cape Fear estuary, North Carolina: U.S. Geological Survey Water-Supply Paper 1873-E, 31 p.[water quality]

- Fisher, D.W., 1968, Annual variations in chemical composition of atmospheric precipitation, eastern North Carolina and southeastern Virginia (1962-64): U.S. Geological Survey Water-Supply Paper 1535-M, p. M1-M21.[rainwater, water quality]
- Wilder, H.B., and Hubbard, E.F., 1968, Interim report on sea water encroachment in the Cape Fear River estuary, North Carolina: Raleigh, N.C., U.S. Geological Survey Open-File Report, 20 p.[surface water]
- Gambell, A.W., and Fisher, D.W., 1966, Chemical composition of rainfall, eastern North Carolina and southeastern Virginia (1962-63): U.S. Geological Survey Water-Supply Paper 1535-K, p. K1-K41.[water quality, rainwater]
- Mundorff, M.J., 1950, Flood-plain deposits of North Carolina Piedmont and mountain streams as a possible source of ground-water supply, Preliminary report: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 59, 20 p.[logs]
- Mundorff, M.J., 1947, Ground water in the Cape Fear River Basin, North Carolina, *in* Hydrologic data on the Cape Fear River Basin, 1820-1945: Raleigh, N.C., North Carolina Dept. of Conservation and Development, p. 127-164.
- Murphy, E.C., and others, 1906, Destructive floods in the United States, 1905, with a discussion of flood discharge and frequency and an index to flood literature: U.S. Geological Survey Water-Supply Paper 162, p. 69-70.[surface water]

Catawba-Broad River Basin

- Jaynes, M.L., 1994, Hydrologic, water-quality, and meteorologic data from selected sites in the upper Catawba River Basin, North Carolina, January 1993 through March 1994: U.S. Geological Survey Open-File Report 94-509, 76 p.[reservoirs]
- Stamey, T.C. 1989, Effects of channel relocation and proposed bridge construction on floodflows of the Catawba River near Marion, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 88-4027, 16 p.[surface water]
- Mundorff, M.J., 1950, Flood-plain deposits of North Carolina Piedmont and mountain streams as a possible source of ground-water supply, Preliminary report: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 59, 20 p.[logs]
- Mundorff, M.J., and LeGrand, H.E., 1949, Ground water in the Catawba and Broad River Basins, North Carolina, *in* Hydrologic data on the Catawba and Broad River Basins, 1872-1945: Raleigh, N.C., North Carolina Dept. of Conservation and Development, p. 103-129.
- Pressey, H.A., 1902, Hydrography of the southern Appalachian Mountain region, Part 2: U.S. Geological Water-Supply Paper 63, p. 105-190.[hydrology]

Chowan River Basin-See Roanoke-Chowan River Basin

French Broad River Basin

- Daniel, C.C., III, Wilder, H.B., and Wiener, M.S., 1982, Water quality of the French Broad River, North Carolina--An analysis of data collected at Marshall, 1958-77: U.S. Geological Survey Water-Supply Paper 2185-C, p. C1-C28.
- LeGrand, H.E., 1950, Ground water in the French Broad River Basin, North Carolina, *in* Hydrologic data on the French Broad River Basin, 1857-1945: Raleigh, N.C., North Carolina Dept. of Conservation and Development, p. 160-177.
- Mundorff, M.J., 1950, Flood-plain deposits of North Carolina Piedmont and mountain streams as a possible source of ground-water supply, Preliminary report: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 59, 20 p.[logs]
- Pressey, H.A., 1902, Hydrography of the southern Appalachian Mountain region, Part 2: U.S. Geological Water-Supply Paper 63, p. 105-190.[hydrology]

Hiwassee River Basin--See Little Tennessee-Hiwassee River Basin

Little Tennessee-Hiwassee River Basin

- LeGrand, H.E., 1953, Ground water in the Little Tennessee and Hiwassee River Basins, North Carolina, *in* Riley, W.H., and LeGrand, H.E, 1953, Hydrologic data on the Little Tennessee and Hiwassee Rivers, 1873-1945: Raleigh, N.C., North Carolina Dept. of Conservation and Development, p. 147-159.
- Mundorff, M.J., 1950, Flood-plain deposits of North Carolina Piedmont and mountain streams as a possible source of ground-water supply, Preliminary report: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 59, 20 p.[logs]

Neuse River Basin

- Harned, D.A., McMahon, Gerard, Spruill, T.B., and Woodside, M.D., 1995, Water-quality assessment of the Albemarle-Pamlico drainage basin, North Carolina and Virginia--Characterization of suspended sediment, nutrients, and pesticides: U.S. Geological Survey Open-File Report 95-191, 131 p.
- McMahon, Gerard, and Lloyd, O.B., Jr., 1995, Water-quality assessment of the Albemarle-Pamlico drainage basin, North Carolina and Virginia--Environmental setting and water-quality issues: U.S. Geological Survey Open-File Report 95-136, 72 p.
- Spruill, T.B., Harned, D.A., and McMahon, Gerard, 1995, The Albemarle-Pamlico drainage National Water-Quality Assessment Study: Background and design: U.S. Geological Survey Open-File report 95-164, 4 p.[water quality, programs]
- Robbins, J.C., and Bales, J.D., 1995, Simulation of hydrodynamics and solute transport in the Neuse River estuary, North Carolina: U.S. Geological Survey Open-File Report 94-511, 85 p.[model, surface water]

- Garrett, R.G., 1994, Water-quality data from continuously monitored sites in the Pamlico and Neuse River estuaries, North Carolina, 1991-92: U.S. Geological Survey Open-File Report 94-27, 161 p.
- Garrett, R.G., Taylor, J.E., and Middleton, T.L., 1994, Water-quality data for selected North Carolina streams and reservoirs in the Triangle Area Water Supply Monitoring Project, 1988-92: U.S. Geological Survey Open-File Report 94-379, 255 p.
- Garrett, R.G., 1992, Water-quality data from continuously monitored sites in the Pamlico and Neuse River estuaries, North Carolina, 1990-91: U.S. Geological Survey Open-File Report 92-110, 196 p.
- Garrett, R.G., and Bales, J.D., 1991, Water-quality from continuously monitored sites in the Pamlico and Neuse River estuaries, North Carolina, 1989-90: U.S. Geological Survey Open-File Report 91-465, 151 p.[data]
- Bales, J.D., 1990, Flows and flow patterns in the Pamlico and Neuse River estuaries, *in* Holman, R.E., ed., Project abstracts for the period 1989-1990, Albemarle-Pamlico Estuarine Study: Raleigh, N.C., North Carolina Dept. of Environment, Health and Natural Resources, Project No. 89/08, p. 8.[surface water]
- Harned, D.A., 1982, Water quality of the Neuse River, North Carolina--Variability, pollution loads, and long-term trends: U.S. Geological Survey Water-Supply Paper 2185-D, p. D1-D44.
- Putnam, A.L., and Lindskov, K.L., 1973, Water resources of the upper Neuse River Basin, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 12-73, 68 p.
- Wyerman, T.A., Farnsworth, R.K., and Stewart, G.L., 1970, Tritium in streams in the United States, 1961-1968: U.S. Public Health Service, Radiological Health Data and Reports, v. 11, no. 9, p. 421-439. [water quality, radioactive]
- Fisher, D.W., 1968, Annual variations in chemical composition of atmospheric precipitation, eastern North Carolina and southeastern Virginia (1962-64): U.S. Geological Survey Water-Supply Paper 1535-M, p. M1-M21.[rainwater, water quality]
- Gambell, A.W., and Fisher, D.W., 1966, Chemical composition of rainfall, eastern North Carolina and southeastern Virginia (1962-63): U.S. Geological Survey Water-Supply Paper 1535-K, p. K1-K41.[water quality, rainwater]
- Billingsley, G.A., Fish, R.E., and Schipf, R.G., 1957, Water resources of the Neuse River Basin, North Carolina: U.S. Geological Survey Water-Supply Paper 1414, 89 p.
- Mundorff, M.J., 1950, Flood-plain deposits of North Carolina Piedmont and mountain streams as a possible source of ground-water supply, Preliminary report: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 59, 20 p.[logs]

Mundorff, M.J., 1947, Ground water in the Neuse River Basin, North Carolina, *in* Hydrologic Data on the Neuse River Basin, 1866-1945: Raleigh, N.C., North Carolina Dept. of Conservation and Development, p. 89-115.

New River Basin

- Mundorff, M.J., 1950, Flood-plain deposits of North Carolina Piedmont and mountain streams as a possible source of ground-water supply, Preliminary report: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 59, 20 p.[logs]
- Pressey, H.A., 1902, Hydrography of the southern Appalachian Mountain region, Part 2: U.S. Geological Water-Supply Paper 63, p. 105-190.[hydrology]

Pamlico River Basin--See Tar-Pamlico Basin

Peedee River Basin-See Yadkin-Peedee River Basin

Roanoke-Chowan River Basin

- Harned, D.A., McMahon, Gerard, Spruill, T.B., and Woodside, M.D., 1995, Water-quality assessment of the Albemarle-Pamlico drainage basin, North Carolina and Virginia--Characterization of suspended sediment, nutrients, and pesticides: U.S. Geological Survey Open-File Report 95-191, 131 p.
- McMahon, Gerard, and Lloyd, O.B., Jr., 1995, Water-quality assessment of the Albemarle-Pamlico drainage basin, North Carolina and Virginia--Environmental setting and water-quality issues: U.S. Geological Survey Open-File Report 95-136, 72 p.
- Spruill, T.B., Harned, D.A., and McMahon, Gerard, 1995, The Albemarle-Pamlico drainage National Water-Quality Assessment Study: Background and design: U.S. Geological Survey Open-File report 95-164, 4 p.[water quality, programs]
- Bales, J.D., Strickland, A.G., and Garrett, R.G., 1993, An interim report on flows in the lower Roanoke River, and water quality and hydrodynamics of Albemarle Sound, North Carolina, October 1989-April 1991: U.S. Geological Survey Open-File Report 92-123, 133 p.[surface water, model]
- Strickland, A.G., and Bales, J.D., 1993, Simulation of unsteady flow in the Roanoke River from near Oak City to Williamston, North Carolina: U.S. Geological Survey Water-Supply Paper 2408-A, 34 p.[surface water, model]
- Lloyd, O.B., Jr., Barnes, C.R., and Woodside, M.D., 1991, National Water-Quality Assessment Program--The Albemarle-Pamlico drainage [N.C.]: U.S. Geological Survey Open-File Report 91-156, 2 p.

- Treece, M.W., Jr., 1990, Water withdrawals in the Roanoke-Chowan subregion of North Carolina and Virginia, 1983: U.S. Geological Survey Water-Resources Investigations Report 90-4007, 1 sheet.[data, water use]
- Daniel, C.C., III, 1977, Digital flow model of the Chowan River estuary, North Carolina: U.S. Geological Survey Water-Resources Investigations 77-63, 84 p.[surface water]
- Jackson, N.M., Jr., 1968, Flow of the Chowan River, North Carolina--A study of the hydrology of an estuary affected primarily by winds: Raleigh, N.C., U.S. Geological Survey Open-File Report, 27 p.[surface water]
- LeGrand, H.E., 1952, Ground water in the Roanoke and Tar River Basins, North Carolina, *in* Hydrologic data on the Roanoke and Tar River Basins, 1871-1945: Raleigh, N.C., North Carolina Dept. of Conservation and Development, p. 99-132.
- Mundorff, M.J., 1950, Flood-plain deposits of North Carolina Piedmont and mountain streams as a possible source of ground-water supply, Preliminary report: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 59, 20 p.[logs]

Tar-Pamlico River Basin

- Bales, J.D., and Robbins, J.C., 1995, Simulation of hydrodynamics and solute transport in the Pamlico River estuary, North Carolina: U.S. Geological Survey Open-File Report 94-454, 85 p.[surface water, model]
- Harned, D.A., McMahon, Gerard, Spruill, T.B., and Woodside, M.D., 1995, Water-quality assessment of the Albemarle-Pamlico drainage basin, North Carolina and Virginia-Characterization of suspended sediment, nutrients, and pesticides: U.S. Geological Survey Open-File Report 95-191, 131 p.
- McMahon, Gerard, and Lloyd, O.B., Jr., 1995, Water-quality assessment of the Albemarle-Pamlico drainage basin, North Carolina and Virginia--Environmental setting and water-quality issues: U.S. Geological Survey Open-File Report 95-136, 72 p.
- Spruill, T.B., Harned, D.A., and McMahon, Gerard, 1995, The Albemarle-Pamlico drainage National Water-Quality Assessment Study: Background and design: U.S. Geological Survey Open-File report 95-164, 4 p.[water quality, programs]
- Garrett, R.G., 1994, Water-quality data from continuously monitored sites in the Pamlico and Neuse River estuaries, North Carolina, 1991-92: U.S. Geological Survey Open-File Report 94-27, 161 p.
- Treece, M.W., Jr., and Jaynes, M.L., 1994, Effects of water-control structures on hydrologic and water-quality characteristics in selected agricultural drainage canals in eastern North Carolina: U.S. Geological Survey Water-Resources Investigations Report 94-4226, 62 p. [surface water]

- Garrett, R.G., 1992, Water-quality data from continuously monitored sites in the Pamlico and Neuse River estuaries, North Carolina, 1990-91: U.S. Geological Survey Open-File Report 92-110, 196 p.
- Giese, G.L., and Bales, J.D., 1992, Two-dimensional circulation modeling of the Pamlico River estuary, North Carolina, *in* Proceedings of the 2nd international conference, Estuarine and coastal modeling, November 13-15, 1991, Tampa, Fla.: New York, American Society of Civil Engineers, p. 607-619.[surface water]
- Bales, J.D., Treece, M.W., Jr., and Garrett, R.G., 1991, Salinity regime of a North Carolina tidal creek [abs.]: Nashville, Tenn., National Conference on Hydraulic Engineering, American Assoc. of Civil Engineers.[surface water, water quality]
- Garrett, R.G., and Bales, J.D., 1991, Water-quality from continuously monitored sites in the Pamlico and Neuse River estuaries, North Carolina, 1989-90: U.S. Geological Survey Open-File Report 91-465, 151 p.[data, surface water]
- Lloyd, O.B., Jr., Barnes, C.R., and Woodside, M.D., 1991, National Water-Quality Assessment Program--The Albemarle-Pamlico drainage [N.C.]: U.S. Geological Survey Open-File Report 91-156, 2 p.
- Bales, J.D., 1990, Flows and flow patterns in the Pamlico and Neuse River estuaries, *in* Holman, R.E., ed., Project abstracts for the period 1989-1990, Albemarle-Pamlico Estuarine Study: Raleigh, N.C., North Carolina Dept. of Environment, Health and Natural Resources, Project No. 89/08, p. 8.[surface water]
- Fisher, D.W., 1968, Annual variations in chemical composition of atmospheric precipitation, eastern North Carolina and southeastern Virginia (1962-64): U.S. Geological Survey Water-Supply Paper 1535-M, p. M1-M21.[rainwater, water quality]
- Gambell, A.W., and Fisher, D.W., 1966, Chemical composition of rainfall, eastern North Carolina and southeastern Virginia (1962-63): U.S. Geological Survey Water-Supply Paper 1535-K, p. K1-K41.[water quality, rainwater]
- Mundorff, M.J., 1950, Flood-plain deposits of North Carolina Piedmont and mountain streams as a possible source of ground-water supply, Preliminary report: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 59, 20 p.[logs]

Tennessee River Basin

Pressey, H.A., 1902, Hydrography of the southern Appalachian Mountain region, Part 1: U.S. Geological Water-Supply Paper 62, p. 1-95.[hydrology]

Yadkin-Peedee River Basin

Harned, D.A., and Meyer, Dann, 1983, Water quality of the Yadkin-Peedee River system, North Carolina--Variability, pollution loads, and long-term trends: U.S. Geological Survey Water-Supply Paper 2185-E, 71 p.

- Lindskov, K.L., 1974, Movement and dispersion of soluble materials in Salem Creek, Muddy Creek, and Yadkin River between Winston-Salem and Salisbury, North Carolina: U.S. Geological Survey Water-Resources Investigations 6-74, 26 p.[surface water]
- Fish, R.E., LeGrand, H.E., and Billingsley, G.A., 1957, Water resources of the Yadkin-Peedee River Basin, North Carolina: U.S. Geological Survey Water-Supply Paper 1415, 115 p.
- Mundorff, M.J., 1950, Flood-plain deposits of North Carolina Piedmont and mountain streams as a possible source of ground-water supply, Preliminary report: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 59, 20 p.[logs]
- Mundorff, M.J., 1948, Ground water in the Yadkin-Peedee River Basin, North Carolina, *in* Hydrologic data on the Yadkin-Peedee River Basin, 1866-1945: Raleigh, N.C., North Carolina Dept. of Conservation and Development, p. 140-172.
- Pressey, H.A., 1902, Hydrography of the southern Appalachian Mountain region, Part 2: U.S. Geological Water-Supply Paper 63, p. 105-190.[hydrology]

Counties

Alamance County

Mundorff, M.J., 1948, Geology and ground water in the Greensboro area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 55, 108 p.[data, well records, hydrographs, geologic map]

Alexander County

- Reeder, H.E., 1970, Sedimentation in Third Creek subwatershed No. 7A, North Carolina: Raleigh, N.C., U.S. Geological Survey Open-File Report, 29 p.[surface water]
- LeGrand, H.E., 1954, Geology and ground water in the Statesville area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 68, 68 p.[data, well records, geologic map]

Alleghany County

Peace, R.R., Jr., and Link, D.R., 1971, Geology and ground-water resources of northwestern North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 19, 135 p.[data, well records, geologic map, hydrographs, water quality]

Anson County

Floyd, E.O., 1965, Geology and ground-water resources of the Monroe area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 5, 109 p.[data, well records, geologic map]

Ashe County

- Peace, R.R., Jr., and Link, D.R., 1971, Geology and ground-water resources of northwestern North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 19, 135 p.[data, well records, geologic map, hydrographs, water quality]
- Haire, W.J., 1969, Floods on Little Buffalo Creek at West Jefferson, North Carolina: U.S. Geological Survey Hydrologic Investigations Atlas HA-331, 1 sheet.

Avery County

Sumsion, C.T., and Laney, R.L., 1967, Geology and ground-water resources of the Morganton area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 12, 119 p.[data, well records, hydrographs, water quality, geologic map]

Beaufort County

- Treece, M.W., Jr., and Jaynes, M.L., 1994, Effects of water-control structures on hydrologic and water-quality characteristics in selected agricultural drainage canals in eastern North Carolina: U.S. Geological Survey Water-Resources Investigations Report 94-4226, 62 p. [surface water]
- Treece, M.W., Jr., 1993, Hydrologic and water-quality data in selected agricultural drainages in Beaufort and Hyde Counties, North Carolina, 1990-92: U.S. Geological Survey Open-File Report 93-78, 96 p.
- Treece, M.W., Jr., and Bales, J.D., 1992, Hydrologic and water-quality data in selected agricultural drainages in Beaufort and Hyde Counties, North Carolina, 1988-90: U.S. Geological Survey Open-File Report 92-498, 89 p.
- Mason, R.R., Jr., Simmons, C.E., and Watkins, S.A., 1990, Effects of channel modifications on the hydrology of Chicod Creek Basin, North Carolina, 1975-87: U.S. Geological Survey Water-Resources Investigations Report 90-4031, 83 p.[surface water, water quality]
- Simmons, C.E., and Aldridge, M.C., 1980, Hydrology of the Chicod Creek Basin, North Carolina, prior to channel improvements: U.S. Geological Survey Open-File Report 80-680, 27 p.[surface water]
- Winner, M.D., Jr., and Simmons, C.E., 1977, Hydrology of the Creeping Swamp watershed, North Carolina, with reference to potential effects of stream channelization: U.S. Geological Survey Water-Resources Investigations 77-26, 54 p.
- Lloyd, O.B., Jr., and Floyd, E.O., 1968, Ground-water resources of the Belhaven area, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Report of Investigations 8, 38 p.[data, well records]

- Kimrey, J.O., 1965, Description of the Pungo River Formation in Beaufort County, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 79, 131 p. [geology, hydrogeology]
- Kimrey, J.O., 1964, The Pungo River Formation, a new name for middle Miocene phosphorites in Beaufort County, North Carolina: Southeastern Geology, v. 5, no. 4, p. 195-205. [geology, hydrogeology]
- Kimrey, J.O., 1962, Delineation of phosphorite deposits with gamma-ray logs in Beaufort County, North Carolina [abs.]: Geological Society America Special Paper 73., p. 186. [geology, hydrogeology]
- Brown, P.M., 1959, Geology and ground-water resources in the Greenville area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 73, 87 p.[data, well records]
- Brown, P.M., 1958, The relation of phosphorites to ground water in Beaufort County, North Carolina: Economic Geology, v. 53, no. 1, p. 85-101.[hydrology]

Bertie County

Brown, P.M., 1959, Geology and ground-water resources in the Greenville area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 73, 87 p.[data, well records]

Bladen County

- Strickland, A.G., 1995, Water-level conditions in the upper Cape Fear aquifer, 1992-94, in parts of Bladen and Robeson Counties, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 95-4129, 1 sheet.[ground water, potentiometric, well records]
- Strickland, A.G., 1994, Water-level conditions in the Black Creek and upper Cape Fear aquifers, 1992, in parts of Bladen and Robeson Counties, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 94-4016, 1 sheet.[ground water, potentiometric, well records]
- Blankenship, R.R., 1965, Reconnaissance of the ground-water resources of the Southport-Elizabethtown area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 6, 47 p.[data, well records]

Brunswick County

Blankenship, R.R., 1965, Reconnaissance of the ground-water resources of the Southport-Elizabethtown area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 6, 47 p.[data, well records] Stearns, N.D., 1927, The geology and ground-water hydrology of the experimental area of the United States Public Health Service at Fort Caswell, N.C.: U.S. Public Health Service, Hygienic Laboratory Bull. 147, p. 137-168.

Buncombe County

Trapp, Henry, Jr., 1970, Geology and ground-water resources of the Asheville area, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 16, 127 p.[data, well records, hydrographs, water quality, geologic map]

Burke County

- Sumsion, C.T., and Laney, R.L., 1967, Geology and ground-water resources of the Morganton area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 12, 119 p.[data, well records, hydrographs, water quality, geologic map]
- Hall, W.C., and Hoyt, J.C., 1905, River surveys and profiles made during 1903: U.S. Geological Survey Water-Supply Paper 115, 115 p.[surface water]

Cabarrus County

- LeGrand, H.E., 1970, Comparative hydrogeology: an example of its use: Geological Society of America Bull., v. 81, p. 1243-1248.
- LeGrand, H.E., and Mundorff, M.J., 1952, Geology and ground water in the Charlotte area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 63, 88 p.[data, well records, geologic map]

Caldwell County

Sumsion, C.T., and Laney, R.L., 1967, Geology and ground-water resources of the Morganton area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 12, 119 p.[data, well records, hydrographs, water quality, geologic map]

Camden County

- Phipps, R.L., Ireley, D.L., and Baker, C.P., 1979, Tree rings as indicators of hydrologic change in the Great Dismal Swamp, Virginia and North Carolina: U.S. Geological Survey Water-Resources Investigations Report 78-136, 26 p.[wetlands]
- Lichtler, W.F., and Walker, P.N., 1974, Hydrology of the Dismal Swamp, Virginia-North Carolina: U.S. Geological Survey Open-File Report 74-39, 50 p.[wetlands]
- Harris, W.H., and Wilder, H.B., 1966, Geology and ground-water resources of the Hertford-Elizabeth City area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 10, 89 p.[data, well records, water quality, hydrographs]

- Lohman, S.W., 1936, Geology and ground-water resources of the Elizabeth City area, North Carolina: U.S. Geological Survey Water-Supply Paper 773-A, 57 p.[data, well records]
- Lohman, S.W., 1934, Investigation of ground-water in the Elizabeth City area, North Carolina: Journal American Water Works Assoc., v. 26, no. 2, p. 201-216.
- Lohman, S.W., 1933, Investigation of ground-water in the Elizabeth City area, North Carolina: Journal North Carolina Section, American Water Works Assoc., v. 11, no. 1, p. 12-33.
- Shales, N.S., 1890, General account of the fresh-water morasses of the United States, with a description of the Dismal Swamp district of Virginia and North Carolina, *in* Powell, J.W., 1890, Tenth annual report of the United States Geological Survey, 1888-89, part 1 Geology: Washington, D.C., p. 255-339.[surface water, wetlands]

Carteret County

- Winner, M.D., Jr., 1978, Ground-water resources of the Cape Lookout National Seashore, North Carolina: U.S. Geological Survey Water-Resources Investigations 78-52, 49 p.[well records]
- Berryhill, H.L., Jr., Swanson, V.E., and Love, A.H., 1972, Organic and trace-element content of Holocene sediments in two estuarine bays, Pamlico Sound area, North Carolina: U.S. Geological Survey Professional Paper 1314-E, 32 p.[geochemistry]
- LeGrand, H.E., 1960, Geology and ground-water resources of Wilmington-New Bern area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 1, 80 p.[data, well records]

Caswell County

- Giese, G.L., 1976, Thermal loading of Hyco Lake, North Carolina: U.S. Geological Survey Water-Resources Investigations 76-48, 46 p.[surface water, reservoirs, temperature]
- Yonts, W.L., and Giese, G.L., 1974, The effect of heated water on the temperature and evaporation of Hyco Lake, North Carolina, 1966-72: U.S. Geological Survey Water-Resources Investigations 11-74, 38 p.[reservoirs, surface water]
- Mundorff, M.J., 1948, Geology and ground water in the Greensboro area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 55, 108 p. [data, well records, hydrographs, geologic map]

Catawba County

LeGrand, H.E., 1954, Geology and ground water in the Statesville area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 68, 68 p. [data, well records, geologic map]

Chatham County

- Garrett, R.G., Taylor, J.E., and Middleton, T.L., 1994, Water-quality data for selected North Carolina streams and reservoirs in the Triangle Area Water Supply Monitoring Project, 1988-92: U.S. Geological Survey Open-File Report 94-379, 255 p.
- Garrett, R.G., 1990, Water-quality characteristics of inflow to and outflow from B. Everett Jordan Lake, North Carolina, 1982-86: U.S. Geological Survey Water-Resources Investigations Report 90-4096, 49 p.[data, reservoirs]
- Bain, G.L., and Thomas, J.D., 1966, Geology and ground water in the Durham area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 7, 147 p.[data, well records, hydrographs, water quality, geologic map]

Cherokee County

- Dodson, C.L., and Laney, R.L., 1968, Geology and ground-water resources of the Murphy area, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 13, 113 p.[data, well records, hydrographs, water quality, geologic map]
- Bayley, W.S., 1923, General features of the brown hematite ores of western North Carolina, *in* Ransome, F.L., Mansfield, G.R., and Burchard, E.F., 1923, Contributions to economic geology, 1922, part I, Metals and nonmetals except fuels: U.S. Geological Survey Bull. 735, p. 157-208.[ground water, geology]

Chowan County

- Lloyd, O.B., Jr., 1968, Ground-water resources of Chowan County, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 14, 133 p.[data, well records, hydrographs, water quality]
- Lloyd, O.B., Jr., 1968, Ground-water resources of Chowan County, North Carolina: U.S. Geological Survey Hydrologic Investigations Atlas HA-292, 1 sheet.
- Brown, P.M., 1959, Geology and ground-water resources in the Greenville area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 73, 87 p.[data, well records]

Clay County

Dodson, C.L., and Laney, R.L., 1968, Geology and ground-water resources of the Murphy area, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 13, 113 p.[data, well records, hydrographs, water quality, geologic map]

Cleveland County

LeGrand, H.E., and Mundorff, M.J., 1952, Geology and ground water in the Charlotte area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 63, 88 p.[data, well records, geologic map]

Columbus County

Blankenship, R.R., 1965, Reconnaissance of the ground-water resources of the Southport-Elizabethtown area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 6, 47 p.[data, well records]

Craven County

- Eimers, J.L., Daniel, C.C., III, and Coble, R.W., 1994, Hydrogeology and simulation of ground-water flow at U.S. Marine Corps Air Station, Cherry Point, North Carolina, 1987-90: U.S. Geological Survey Water-Resources Investigations Report 94-4186, 75 p.[model]
- Murray, L.C., Jr., and Daniel, C.C., III, 1990, Hydrogeologic and water-quality data from well clusters near the wastewater-treatment plant, U.S. Marine Corps Air Station, Cherry Point, North Carolina: U.S. Geological Survey Open-File Report 89-615, 56 p.[well records]
- Murray, L.C., Jr., and Keoughan, K.M., 1990, Hydrogeologic, water-level, and water-quality data from monitoring wells at the U.S. Marine Corps Air Station, Cherry Point, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 89-4200, 86 p. [well records]
- Lloyd, O.B., Jr., and Daniel, C.C., III, 1988, Hydrogeologic setting, water levels, and quality of water from supply wells at the U.S. Marine Corps Air Station, Cherry Point, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 88-4034, 76 p.[well records, water quality, data]
- Lloyd, O.B., Jr., and Daniel, C.C., III, 1988, Distribution, source, and significance of selected organic compounds in water from the Castle Hayne aquifer, Cherry Point, North Carolina, in Proceedings of the Symposium on Coastal Water Resources, Wilmington North Carolina, May 22-25, 1988: Bethesda, Md., American Water Resources Association, p. 519-530.[water quality]
- Winner, M.D., Jr., and Simmons, C.E., 1977, Hydrology of the Creeping Swamp watershed, North Carolina, with reference to potential effects of stream channelization: U.S. Geological Survey Water-Resources Investigations 77-26, 54 p.
- Floyd, E.O., and Long, A.T., 1970, Well records and other basic ground-water data Craven County, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Circular 14, 56 p.

- Floyd, E.O., 1969, Ground-water resources of Craven County, North Carolina: U.S. Geological Survey Hydrologic Investigations Atlas HA-343, 2 sheets.
- Kimrey, J.O., 1960, Hydrology of a quarry dewatering problem near New Bern, North Carolina [abs.]: Geological Society of America Bull., v. 71, no. 12, pt. 2, p. 2019.
- LeGrand, H.E., 1960, Geology and ground-water resources of Wilmington-New Bern area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 1, 80 p.[data, well records]
- LeGrand, H.E., 1953, Memorandum on the well-water supply at New Bern, North Carolina: Raleigh, N.C., U.S. Geological Survey Open-File Report, 4 p.[ground water]

Cumberland County

- Mason, R.R., Jr., and Caldwell, W.S., 1993, The storm and flood of September 15, 1989, in Fayetteville, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 92-4097, 26 p.[rainfall, surface water]
- Schipf, R.G., 1961, Geology and ground-water resources of the Fayetteville area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 3, 99 p.[data, well records, geologic map]
- Murphy, E.C., and others, 1906, Destructive floods in the United States, 1905, with a discussion of flood discharge and frequency and an index to flood literature: U.S. Geological Survey Water-Supply Paper 162, p. 69-70.[surface water]

Currituck County

- Bales, J.D., and Skrobialowski, S.C., 1994, Flow and salinity in West Neck Creek, Virginia, 1989-92, and salinity in North Landing River, North Carolina, 1991-92: U.S. Geological Survey Water-Resources Investigations Report 94-4067, 36 p.[data, surface water, water quality]
- Harris, W.H., and Wilder, H.B., 1966, Geology and ground-water resources of the Hertford-Elizabeth City area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 10, 89 p.[data, well records, water quality, hydrographs]
- **Dare County** (See also listings under Outer Banks Studies Region.)
- Mason, R.R., Jr., and Sheppard, D.M., 1994, Field performance of an acoustic scour-depth monitoring system, *in* Pugh, C.A., ed., Fundamentals and advancements in hydraulic measurements and experimentation, proceedings of the symposium, Buffalo, N.Y., Aug. 1-5, 1994: American Society of Civil Engineers, v. 2, p. 366-275.[Bonner Bridge, surface water, sediment]
- Nelson, P.F., 1964, Geology and ground-water resources of the Swanquarter area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 4, 79 p.[data, well records]

Kimrey, J.O., 1961, Ground-water supply for the Dare Beaches Sanitary District: North Carolina Dept. of Water Resources, Div. of Ground Water Report of Investigations 3, 20 p.[data]

Davidson County

- Lindskov, K.L., 1974, Movement and dispersion of soluble materials in Salem Creek, Muddy Creek, and Yadkin River between Winston-Salem and Salisbury, North Carolina: U.S. Geological Survey Water-Resources Investigations 6-74, 26 p.[surface water]
- LeGrand, H.E., 1954, Geology and ground water in the Statesville area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 68, 68 p. [data, well records, geologic map]

Davie County

LeGrand, H.E., 1954, Geology and ground water in the Statesville area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 68, 68 p. [data, well records, geologic map]

Duplin County

- Stamey, T.C., 1989, Sediment transport and accretion and the hydrologic environment of Grove Creek near Kenansville, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 89-4086, 30 p.[surface water, tree rings, radioactive]
- Stamey, T.C., 1987, Frequency and duration of flooding of Grove Creek near Kenansville, North Carolina, for present and proposed restored channel conditions, *in* Realistic approaches to better floodplain management: Proceedings of the eleventh annual conference of the Association of State Floodplain Managers, Seattle, Washington, June 8-13, 1987: Boulder, Colo., University of Colorado, Natural Hazards Research and Applications Information Center Special Publication No. 18, p. 138-144.[surface water]
- Stamey, T.C., 1985, Frequency and duration of flooding of Grove Creek near Kenansville, North Carolina, for present and proposed restored channel conditions: U.S. Geological Survey Water-Resources Investigations Report 85-4298, 52 p.[surface water]
- LeGrand, H.E., 1960, Geology and ground-water resources of Wilmington-New Bern area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 1, 80 p.[data, well records]

Durham County

Garrett, R.G., and Bales, J.D., 1995, Water-quality characteristics of streams in the Treyburn development area of Falls Lake watershed, North Carolina, 1988-93: U.S. Geological Survey Water-resources Investigations Report 95-4094, 79 p.[data, reservoirs]

- Garrett, R.G., Taylor, J.E., and Middleton, T.L., 1994, Water-quality data for selected North Carolina streams and reservoirs in the Triangle Area Water Supply Monitoring Project, 1988-92: U.S. Geological Survey Open-File Report 94-379, 255 p.
- Weaver, J.C., 1994, Sediment characteristics and sedimentation rates in Lake Michie, Durham County, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 94-4123, 34 p.[reservoirs, surface water, radioactive]
- Weaver, J.C., 1993, Bathymetry of Lake Michie, Durham County, North Carolina, 1990-92: U.S. Geological Survey Water-Resources Investigations Report 93-4031, 1 sheet, scale 1:4,800.[surface water, reservoirs]
- Garrett, R.G., 1990, Water-quality characteristics of inflow to and outflow from Falls Lake, North Carolina, 1982-87: U.S. Geological Survey Water-Resources Investigations Report 90-4097, 56 p.[data, reservoirs]
- Yonts, W.L., Giese, G.L., and Hubbard, E.F., 1973, Evaporation from Lake Michie, North Carolina, 1961-71: U.S. Geological Survey Water-Resources Investigations 38-73, 27 p. [surface water, reservoirs]
- Bain, G.L., and Thomas, J.D., 1966, Geology and ground water in the Durham area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 7, 147 p.[data, well records, hydrographs, water quality, geologic map]
- Turner, J.F., 1966, Evaporation study in a humid region, Lake Michie, North Carolina: U.S. Geological Survey Professional Paper 272-G, p. 137-150.[surface water, reservoirs]

Edgecombe County

Mundorff, M.J., 1946, Ground water in the Halifax area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 51, 76 p.[data, well records, hydrographs, potentiometric, geologic map]

Forsyth County

- Lindskov, K.L., 1974, Movement and dispersion of soluble materials in Salem Creek, Muddy Creek, and Yadkin River between Winston-Salem and Salisbury, North Carolina: U.S. Geological Survey Water-Resources Investigations 6-74, 26 p.[surface water]
- Mundorff, M.J., 1948, Geology and ground water in the Greensboro area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 55, 108 p. [data, well records, hydrographs, geologic map]

Franklin County

- Crawford, J.K., and Lenat, D.R., 1989, Effects of land use on the water quality and biota of three streams in the Piedmont Province of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 89-4007, 67 p.[biology]
- May, V.J., and Thomas, J.D., 1968, Geology and ground-water resources in the Raleigh area, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 15, 135 p.[data, well records, hydrographs, water quality, geologic map]

Gaston County

LeGrand, H.E., and Mundorff, M.J., 1952, Geology and ground water in the Charlotte area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 63, 88 p.[data, well records, geologic map]

Gates County

Brown, P.M., 1959, Geology and ground-water resources in the Greenville area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 73, 87 p.[data, well records]

Graham County

Dodson, C.L., and Laney, R.L., 1968, Geology and ground-water resources of the Murphy area, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 13, 113 p.[data, well records, hydrographs, water quality, geologic map]

Granville County

- Garrett, R.G., Taylor, J.E., and Middleton, T.L., 1994, Water-quality data for selected North Carolina streams and reservoirs in the Triangle Area Water Supply Monitoring Project, 1988-92: U.S. Geological Survey Open-File Report 94-379, 255 p.
- Garrett, R.G., 1990, Water-quality characteristics of inflow to and outflow from Falls Lake, North Carolina, 1982-87: U.S. Geological Survey Water-Resources Investigations Report 90-4097, 56 p.[data, reservoirs]
- Crawford, J.K., and Lenat, D.R., 1989, Effects of land use on the water quality and biota of three streams in the Piedmont Province of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 89-4007, 67 p.[biology]
- May, V.J., and Thomas, J.D., 1968, Geology and ground-water resources in the Raleigh area, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 15, 135 p.[data, well records, hydrographs, water quality, geologic map]

Greene County

Brown, P.M., 1959, Geology and ground-water resources in the Greenville area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 73, 87 p.[data, well records]

Guilford County

- Harned, D.A., 1995, Effects of agricultural land-management practices on water quality in northeastern Guilford County, North Carolina, 1985-90: U.S. Geological Survey Water-Supply Paper 2435, 64 p.[data]
- Davenport, M.S., 1993, Water-quality and biological data for selected streams, lakes, and wells in the High Point Lake watershed, Guilford County, North Carolina, 1988-89: U.S. Geological Survey Open-File Report 93-163, 144 p.[biology]
- Hill, C.L., 1991, Effects of land-management practices on sediment yields in northeastern Guilford County, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 90-4127, 40 p.
- Hill, C.L., and Harned, D.A., 1990, The effects of agricultural land-management practices on surface and ground water in the Piedmont of North Carolina, *in* United States Geological Survey yearbook fiscal year 1989, p. 36-38.
- Davenport, M.S., 1989, Water quality in Reedy Fork and Buffalo Creek Basins in the Greensboro area, North Carolina, 1986-87: U.S. Geological Survey Water-Resources Investigations Report 88-4210, 81 p.[surface water]
- Hill, C.L., 1989, Hydrologic and chemical-quality data from four rural basins in Guilford County, North Carolina, 1985-88: U.S. Geological Survey Open-File Report 89-578, 105 p.
- Hill, C.L., 1989, The effects of land-management practices on surface- and ground-water quality in rural northeastern Guilford County, North Carolina [abs.], *in* Pederson, G.L. and Smith, M.M., comps., 1989, U.S. Geological Survey second national symposium on water quality: Abstracts of the technical sessions, Orlando, Fla., Nov. 12-17, 1989,: U.S. Geological Survey Survey Open-File Report 89-409, p. 38.
- Davenport, M.S., 1988, Surface-water and water-quality data from selected streams and treated waters in the Greensboro area, North Carolina, 1986-87: U.S. Geological Survey Open-File Report 88-169, 462 p.
- Hill, C.L., 1987, Monitoring the effects of land management practices on water quality in Guilford County, North Carolina: New York, Symposium on Monitoring, Modeling, and Mediating Proceedings, May 1987, p.137-147.

- Hill, C.L., 1986, Monitoring the effects of land-management practices on sediment and chemical transport in northeastern Guilford County, North Carolina [abs.], in Proceedings of the fourth annual meeting of the Weed Science Society of North Carolina: Raleigh, N.C., p. 62-63. [water quality]
- Mundorff, M.J., 1948, Geology and ground water in the Greensboro area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 55, 108 p. [data, well records, hydrographs, geologic map]

Halifax County

Mundorff, M.J., 1946, Ground water in the Halifax area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 51, 76 p.[data, well records, hydrographs, potentiometric, geologic map]

Harnett County

- Simmons, C.E., and Watkins, S.A., 1982, The effects of channel excavation on water-quality characteristics of the Black River and on ground-water levels near Dunn, North Carolina: U.S. Geological Survey Water-Resources Investigations 82-4083, 28 p.
- Simmons, C.E., 1980, Quality of water in the Black River near Dunn, North Carolina, and ground-water levels adjacent to the river prior to channel excavation in 1976-79: U.S. Geological Survey Open-File Report 80-425, 18 p.
- Schipf, R.G., 1961, Geology and ground-water resources of the Fayetteville area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 3, 99 p.[data, well records, geologic map]

Haywood County

Marsh, O.T., and Laney, R.L., 1966, Reconnaissance of the ground-water resources in the Waynesville area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 8, 131 p.[data, well records, hydrographs, water quality, geologic map]

Henderson County

- Trapp, Henry, Jr., 1970, Geology and ground-water resources of the Asheville area, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 16, 127 p.[data, well records, hydrographs, water quality, geologic map]
- Gale, H.S., 1905, Water resources of Cowee and Pisgah Quadrangles, North Carolina, *in* Fuller, M.L., 1905, Contributions to the hydrology of Eastern United States: U.S. Geological Survey Water-Supply Paper 110, p. 174-176.[hydrology]

Hertford County

Brown, P.M., 1959, Geology and ground-water resources in the Greenville area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 73, 87 p.[data, well records]

Hoke County

Schipf, R.G., 1961, Geology and ground-water resources of the Fayetteville area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 3, 99 p.[data, well records, geologic map]

Hyde County (See also listings under Outer Banks Studies Region.)

- Treece, M.W., Jr., and Jaynes, M.L., 1994, Effects of water-control structures on hydrologic and water-quality characteristics in selected agricultural drainage canals in eastern North Carolina: U.S. Geological Survey Water-Resources Investigations Report 94-4226, 62 p. [surface water]
- Treece, M.W., Jr., 1993, Hydrologic and water-quality data in selected agricultural drainages in Beaufort and Hyde Counties, North Carolina, 1990-92: U.S. Geological Survey Open-File Report 93-78, 96 p.
- Treece, M.W., Jr., and Bales, J.D., 1992, Hydrologic and water-quality data in selected agricultural drainages in Beaufort and Hyde Counties, North Carolina, 1988-90: U.S. Geological Survey Open-File Report 92-498, 89 p.
- Nelson, P.F., 1964, Geology and ground-water resources of the Swanquarter area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 4, 79 p.[data, well records]

Iredell County

LeGrand, H.E., 1954, Geology and ground water in the Statesville area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 68, 68 p. [data, well records, geologic map]

Jackson County

- Marsh, O.T., and Laney, R.L., 1966, Reconnaissance of the ground-water resources in the Waynesville area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 8, 131 p.[data, well records, hydrographs, water quality, geologic map]
- Gale, H.S., 1905, Water resources of Cowee and Pisgah Quadrangles, North Carolina, *in* Fuller, M.L., 1905, Contributions to the hydrology of Eastern United States: U.S. Geological Survey Water-Supply Paper 110, p. 174-176.

Johnston County

- Stamper, W.G., 1970, Retention time and circulation study in a sewage stabilization lagoon: U.S. Geological Survey Professional Paper 700-D, p. D301-D304.[surface water, hydrology]
- Pusey, R.D., 1960, Geology and ground water in the Goldsboro area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 2, 77 p.[data, well records, geologic map]

Jones County

- Lyke, W.L., and Brockman, A.R., 1990, Ground-water pumpage and water-level declines in the Peedee and Black Creek aquifers in Onslow and Jones Counties, North Carolina, 1900-86: U.S. Geological Survey Water-Resources Investigations Report 89-4197, 32 p.[water use, potentiometric]
- Lyke, W.L., and Winner, M.D., Jr., 1990, Hydrogeology of aquifers in Cretaceous and younger rocks in the vicinity of Onslow and southern Jones Counties, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 89-4128, 49 p.[well records]
- LeGrand, H.E., 1960, Geology and ground-water resources of Wilmington-New Bern area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 1, 80 p.[data, well records]

Lee County

Schipf, R.G., 1961, Geology and ground-water resources of the Fayetteville area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 3, 99 p.[data, well records, geologic map]

Lenoir County

- LeGrand, H.E., 1960, Geology and ground-water resources of Wilmington-New Bern area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 1, 80 p.[data, well records]
- Fuller, M.L., and Sanford, Samuel, 1906, Record of deep-well drilling for 1905: U.S. Geological Survey Bull. 298, 299 p.[well records]

Lincoln County

- Daniel, C.C., III, and Eimers, J.L., 1994, Development of a digital model of ground-water flow in deeply weathered crystalline rock, Indian Creek area, North Carolina [abs.]: Geological Society of America Abstracts with Programs, v. 26, no. 4, p. 9.
- LeGrand, H.E., and Mundorff, M.J., 1952, Geology and ground water in the Charlotte area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 63, 88 p.[data, well records, geologic map]

Clarke, F.W., 1914, Water analyses from the laboratory of the United States Geological Survey: U.S. Geological Survey Water-Supply Paper 364, 44 p.[water quality]

Macon County

- Marsh, O.T., and Laney, R.L., 1966, Reconnaissance of the ground-water resources in the Waynesville area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 8, 131 p.[data, well records, hydrographs, water quality, geologic map]
- Holland, W.T., Crawford, L.C., and Eisenlohr, W.S., Jr., 1938, Inventory of unpublished hydrologic data: U.S. Geological Survey Water-Supply Paper 837, p. 77.
- Gale, H.S., 1905, Water resources of Cowee and Pisgah Quadrangles, North Carolina, *in* Fuller, M.L., 1905, Contributions to the hydrology of Eastern United States: U.S. Geological Survey Water-Supply Paper 110, p. 174-176.

Madison County

- Hobba, W.A., and others, 1979, Hydrology and geochemistry of thermal springs of the Appalachians: U.S. Geological Survey Professional Paper 1044-E, 36 p.[temperature]
- Hobba, W.A., Jr., and others, 1977, Geochemical and hydrologic data for wells and springs in thermal-spring areas of the Appalachians: U.S. Geological Survey Water-Resources Investigations 77-25, 36 p.[water quality, temperature]
- Trapp, Henry, Jr., 1970, Geology and ground-water resources of the Asheville area, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 16, 127 p.[data, well records, hydrographs, water quality, geologic map]
- Stose, G.W., and Stose, A.J., 1947, Origin of the hot springs at Hot Springs, North Carolina: American Journal of Science, v. 245, pt. 2, p. 624-644.[hydrology, temperature]
- Stearns, N.D., Stearns, H.T., and Waring, G.A., 1937, Thermal springs in the United States: U.S. Geological Survey Water-Supply Paper 679-B, 206 p.[hydrology, temperature]

Martin County

- Wyrick, G.G., 1967, Water-bearing characteristics and occurrence of aquifers in Martin County, North Carolina: U.S. Geological Survey Hydrologic Investigations Atlas HA-264, 1 sheet. [hydrogeology]
- Wyrick, G.G., 1966, Ground-water resources of Martin County, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 9, 85 p.[data, potentiometric, well records, water quality]
- Wyrick, G.G., and Floyd, E.O., 1961, Microtime measurements in aquifer tests on open-hole artesian wells: U.S. Geological Survey Water-Supply Paper 1545-A, 11 p.[ground water, hydrology]

Brown, P.M., 1959, Geology and ground-water resources in the Greenville area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 73, 87 p.[data, well records]

McDowell County

- Stamey, T.C. 1989, Effects of channel relocation and proposed bridge construction on floodflows of the Catawba River near Marion, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 88-4027, 16 p.[surface water]
- Sumsion, C.T., and Laney, R.L., 1967, Geology and ground-water resources of the Morganton area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 12, 119 p.[data, well records, hydrographs, water quality, geologic map]
- Hall, W.C., and Hoyt, J.C., 1905, River surveys and profiles made during 1903: U.S. Geological Survey Water-Supply Paper 115, 115 p.[surface water]

Mecklenburg County

- Ferrell, G.M., and Smith, D.G., 1995, Water-quality conditions at selected landfills in Mecklenburg County, North Carolina, 1986-92: U.S. Geological Survey Water-Resources Investigations report 95-4067, 112 p.[data, water level]
- Smith, D.G., 1993, Surface- and ground-water quality data at selected landfill sites in Mecklenburg County, North Carolina, 1979-92: U.S. Geological Survey Open-File Report 93-437, 971 p.[water quality]
- Cardinell, A.P., Barnes, C.R., Eddins, W.H., and Coble, R.W., 1989, Hydrologic environments and water-quality characteristics at four landfills in Mecklenburg County, North Carolina, 1980-86: U.S. Geological Survey Water-Resources Investigations Report 89-4035, 79 p.
- Eddins, W.H., and Cardinell, A.P., 1988, Surface- and ground-water quality data at selected landfill sites in Mecklenburg County, North Carolina: U.S. Geological Survey Open-File Report 87-564, 405 p.[water quality]
- Eddins, W.H., and Crawford, J.K., 1984, Reconnaissance of water-quality characteristics of streams in the city of Charlotte and Mecklenburg County, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 84-4308, 105 p.
- Eddins, W.H., and Jackson, N.M., Jr., 1980, A technique for estimating flood heights on small streams in the city of Charlotte and Mecklenburg County, North Carolina: U.S. Geological Survey Water-Resources Investigations 80-106, 16 p.[surface water]
- Stamper, W.G., 1974, Flood mapping in Charlotte and Mecklenburg County, North Carolina: Raleigh, N.C., U.S. Geological Survey Open-File Report, 21 p.[surface water]

- Wilder, H.B., 1972, Investigation of the occurrence and transport of arsenic in the upper Sugar Creek watershed, Charlotte, North Carolina: U.S. Geological Survey Professional Paper 800-D, p. D205-D210.[water quality]
- Martins, L.A., 1968, Flood inundation and effects of urbanization in metropolitan Charlotte, North Carolina: U.S. Geological Survey Water-Supply Paper 1591-C, 60 p.[surface water]
- Durfor, C.N., and Becker, Edith, 1964, Public water supplies of the 100 largest cities in the United States, 1962: U.S. Geological Survey Water-Supply Paper 1812, 364 p.[water use]
- LeGrand, H.E., and Broadhurst, S.D., 1955, Ground-water resources in the Charlotte area, North Carolina: North Carolina Dept. of Conservation and Development Special Report, 11 p.[well records, geologic map]
- LeGrand, H.E., and Mundorff, M.J., 1952, Geology and ground water in the Charlotte area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 63, 88 p.[data, well records, geologic map]

Mitchell County

Sumsion, C.T., and Laney, R.L., 1967, Geology and ground-water resources of the Morganton area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 12, 119 p.[data, well records, hydrographs, water quality, geologic map]

Montgomery County

Schipf, R.G., 1961, Geology and ground-water resources of the Fayetteville area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 3, 99 p.[data, well records, geologic map]

Moore County

- Schipf, R.G., 1961, Geology and ground-water resources of the Fayetteville area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 3, 99 p.[data, well records, geologic map]
- Fuller, M.L., and Sanford, Samuel, 1906, Record of deep-well drilling for 1905: U.S. Geological Survey Bull. 298, 299 p.[well records]

Nash County

Mundorff, M.J., 1946, Ground water in the Halifax area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 51, 76 p.[data, well records, hydrographs, potentiometric, geologic map]

New Hanover County

- Leenheer, J.A., Malcolm, R.L., and White, W.R., 1976, Physical, chemical, and biological aspects of subsurface organic waste injection near Wilmington, North Carolina: U.S. Geological Survey Professional Paper 987, 51 p.[ground water]
- Peek, H.M., and Heath, R.C., 1976, Hydrogeology, *in* Physical, chemical, and biological aspects of subsurface organic waste injection near Wilmington, North Carolina: U.S. Geological Survey Professional Paper 987, 2 p.
- Peek, H.M., and Heath, R.C., 1973, Feasibility study of liquid-waste injection into aquifers containing salt water, Wilmington, North Carolina: New Orleans, La., Symposium on Underground Waste Management and Artificial Recharge, v. 2, p. 851-875.[water quality, hydrogeology]
- Bain, G.L., 1970, Geology and ground-water resources of New Hanover County, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 17, 79 p.[data, well records, water quality, potentiometric]
- Wilder, H.B., and Hubbard, E.F., 1968, Interim report on sea-water encroachment in the Cape Fear River estuary, North Carolina: Raleigh, N.C., U.S. Geological Survey Open-File Report, 35 p.[water quality]
- LeGrand, H.E., 1960, Geology and ground-water resources of Wilmington-New Bern area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 1, 80 p.[data, well records]
- Collins, W.D., 1925, Temperature of water available for industrial use in the United States: U.S. Geological Survey Water-Supply Paper 520-F, p.104.[water quality]
- Fuller, M.L., 1906, Instances of improvement of water in wells, *in* Fuller, M.L., 1906, Underground-water papers: U.S. Geological Survey Water-Supply Paper 160, p. 96-99. [ground water, water quality]
- Fuller, M.L., and Sanford, Samuel, 1906, Record of deep-well drilling for 1905: U.S. Geological Survey Bull. 298, 299 p.[well records]

Northamton County

- Woodside, M.D., 1994, Land use in and water quality of the Pea Hill arm of Lake Gaston, Virginia and North Carolina, 1988-90: U.S. Geological Survey Water-Resources Investigation Report 94-4140, 54 p.[surface water, reservoirs]
- Mundorff, M.J., 1946, Ground water in the Halifax area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 51, 76 p.[data, well records, hydrographs, potentiometric, geologic map]

Onslow County

- Cardinell, A.P., Berg, S.A., and Lloyd, O.B., Jr., 1993, Hydrogeologic framework of U.S. Marine Corps Base at Camp Lejeune, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 93-4049, 45 p.[data, well records]
- Pope, B.F., 1993, Hydrology of two tidal marshes in North Carolina where open-marsh water management modifications have been implemented: U.S. Geological Survey Water-Resources Investigations Report 93-4051, 41 p.[wetlands, water levels]
- Cardinell, A.P., and Berg, S.A., 1992, Marine seismic-reflection profiling to define hydrogeologic continuity at Camp Lejeune, North Carolina: Proceedings of Symposium Application of Geophysics to Engineering and Environmental Problems (SAGEEP), Chicago, Apr. 27-29, 1992, 20 p.
- Cardinell, A.P., Harned, D.A., and Berg, S.A., 1990, Continuous seismic reflection profiling of hydrogeologic features beneath New River, Camp Lejeune, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 89-4195, 33 p.
- Lyke, W.L., and Brockman, A.R., 1990, Ground-water pumpage and water-level declines in the Peedee and Black Creek aquifers in Onslow and Jones Counties, North Carolina, 1900-86: U.S. Geological Survey Water-Resources Investigations Report 89-4197, 32 p.[water use, potentiometric]
- Lyke, W.L., and Winner, M.D., Jr., 1990, Hydrogeology of aquifers in Cretaceous and younger rocks in the vicinity of Onslow and southern Jones Counties, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 89-4128, 49 p.[well records]
- Harned, D.A., Lloyd, O.B., Jr., and Treece, M.W., Jr., 1989, Assessment of hydrologic data at Camp Lejeune Marine Corps Base, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 89-4096, 64 p.[data, well records, hydrographs]
- Harned, D.A., and Lloyd, O.B., Jr., 1988, A preliminary hydrogeologic assessment of the Camp Lejeune area, North Carolina, *in* Proceedings of the Symposium on Coastal Water Resources, Wilmington, North Carolina, May 22-25, 1988: Bethesda, Md., American Water Resources Association, p. 479-487.
- LeGrand, H.E., 1960, Geology and ground-water resources of Wilmington-New Bern area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 1, 80 p.[data, well records]
- LeGrand, H.E., 1959, Evaluation of well-water supply, Marine Corps Base, Camp Lejeune, North Carolina: Project report, Contract NBy-7595, 55 p.[ground water]

Orange County

Garrett, R.G., Taylor, J.E., and Middleton, T.L., 1994, Water-quality data for selected North Carolina streams and reservoirs in the Triangle Area Water Supply Monitoring Project, 1988-92: U.S. Geological Survey Open-File Report 94-379, 255 p.

- Harned, D.A., 1988, Effects of highway runoff on streamflow and water quality in the Sevenmile Creek Basin, a rural area in the Piedmont Province of North Carolina, July 1981 to July 1982: U.S. Geological Survey Water-Supply Paper 2329, 33 p.
- Bain, G.L., and Thomas, J.D., 1966, Geology and ground water in the Durham area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 7, 147 p.[data, well records, hydrographs, water quality, geologic map]

Pamlico County

- Pope, B.F., 1993, Hydrology of two tidal marshes in North Carolina where open-marsh water management modifications have been implemented: U.S. Geological Survey Water-Resources Investigations Report 93-4051, 41 p.[wetlands, water levels]
- Nelson, P.F., 1964, Geology and ground-water resources of the Swanquarter area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 4, 79 p.[data, well records]

Pasquotank County

- Phipps, R.L., Ireley, D.L., and Baker, C.P., 1979, Tree rings as indicators of hydrologic change in the Great Dismal Swamp, Virginia and North Carolina: U.S. Geological Survey Water-Resources Investigations Report 78-136, 26 p.[wetlands]
- Lichtler, W.F., and Walker, P.N., 1974, Hydrology of the Dismal Swamp, Virginia-North Carolina: U.S. Geological Survey Open-File Report 74-39, 50 p.[wetlands]
- Harris, W.H., and Wilder, H.B., 1966, Geology and ground-water resources of the Hertford-Elizabeth City area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 10, 89 p.[data, well records, water quality, hydrographs]
- LeGrand, H.E., and Siple, G.E., 1953, Memorandum relating to ground-water investigation in the Elizabeth City area, during 1950 and early part of 1951, *in* Pease, J.N., and Co. Engineers, 1953, Report on water supply of Elizabeth City, North Carolina: Charlotte, N.C., p. 187-200.
- Mundorff, M.J., 1947, A possible new source of ground-water supply in the Elizabeth City area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Information Circular 6, 17 p.
- Lohman, S.W., 1936, Geology and ground-water resources of the Elizabeth City area, North Carolina: U.S. Geological Survey Water-Supply Paper 773-A, 57 p.[data, well records]
- Lohman, S.W., 1934, Investigation of ground-water in the Elizabeth City area, North Carolina: Journal American Water Works Assoc., v. 26, no. 2, p. 201-216.
- Lohman, S.W., 1933, Investigation of ground-water in the Elizabeth City area, North Carolina: Journal North Carolina Section, American Water Works Assoc., v. 11, no. 1, p. 12-33.

Shales, N.S., 1890, General account of the fresh-water morasses of the United States, with a description of the Dismal Swamp district of Virginia and North Carolina, *in* Powell, J.W., 1890, Tenth annual report of the United States Geological Survey, 1888-89, part 1 Geology: Washington, D.C., p. 255-339.[surface water, wetlands]

Pender County

LeGrand, H.E., 1960, Geology and ground-water resources of Wilmington-New Bern area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 1, 80 p.[data, well records]

Perquimans County

Harris, W.H., and Wilder, H.B., 1966, Geology and ground-water resources of the Hertford-Elizabeth City area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 10, 89 p.[data, well records, water quality, hydrographs]

Person County

- Giese, G.L., 1976, Thermal loading of Hyco Lake, North Carolina: U.S. Geological Survey Water-Resources Investigations 76-48, 46 p.[surface water, reservoirs, temperature]
- Yonts, W.L., and Giese, G.L., 1974, The effect of heated water on the temperature and evaporation of Hyco Lake, North Carolina, 1966-72: U.S. Geological Survey Water-Resources Investigations 11-74, 38 p.[temperature, reservoirs, surface water]
- Bain, G.L., and Thomas, J.D., 1966, Geology and ground water in the Durham area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 7, 147 p.[data, well records, hydrographs, water quality, geologic map]

Pitt County

- Manning, T.K., Smith, K.E., Wood, C.D., and Williams, J.B., 1994, Pesticide-sampling equipment, sample-collection and processing procedures, and water-quality data at Chicod Creek, North Carolina, 1992: U.S. Geological Survey Open-File Report 94-50, 35 p.
- Mason, R.R., Jr., Simmons, C.E., and Watkins, S.A., 1990, Effects of channel modifications on the hydrology of Chicod Creek Basin, North Carolina, 1975-87: U.S. Geological Survey Water-Resources Investigations Report 90-4031, 83 p.[surface water, water quality]
- Mason, R.R., Jr., 1988, Ground-water and surface-water conditions in the Chicod Creek Basin, North Carolina, before, during, and after channel modifications, *in* Proceedings of the Symposium on Coastal Water Resources, Wilmington, North Carolina, May 22-25, 1988: Bethesda, Md., American Water Resources Association, p. 419-427.
- Watkins, S.A., and Simmons, C.E., 1984, Hydrologic conditions in the Chicod Creek Basin, North Carolina before and during channel modifications, 1975-81: U.S. Geological Survey Water-Resources Investigations 84-4025, 36 p.[surface water]

- Simmons, C.E., and Aldridge, M.C., 1980, Hydrology of the Chicod Creek Basin, North Carolina, prior to channel improvements: U.S. Geological Survey Open-File Report 80-680, 27 p.[surface water]
- Winner, M.D., Jr., and Simmons, C.E., 1977, Hydrology of the Creeping Swamp watershed, North Carolina, with reference to potential effects of stream channelization: U.S. Geological Survey Water-Resources Investigations 77-26, 54 p.
- Sumsion, C.T., 1970, Geology and ground-water resources of Pitt County, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 18, 75 p.[data, well records, potentiometric, water quality]
- Sumsion, C.T., 1968, Summary of the geology and ground-water resources of Pitt County, North Carolina: U.S. Geological Survey Hydrologic Investigations Atlas HA-291, 1 sheet.
- Brown, P.M., 1959, Geology and ground-water resources in the Greenville area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 73, 87 p.[data, well records]

Polk County

LeGrand, H.E., and Mundorff, M.J., 1952, Geology and ground water in the Charlotte area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 63, 88 p.[data, well records, geologic map]

Randoph County

Bain, G.L., and Thomas, J.D., 1966, Geology and ground water in the Durham area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 7, 147 p.[data, well records, hydrographs, water quality, geologic map]

Richmond County

Schipf, R.G., 1961, Geology and ground-water resources of the Fayetteville area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 3, 99 p.[data, well records, geologic map]

Robeson County

- Strickland, A.G., 1995, Water-level conditions in the upper Cape Fear aquifer, 1992-94, in parts of Bladen and Robeson Counties, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 95-4129, 1 sheet.[ground water, potentiometric, well records]
- Strickland, A.G., 1994, Water-level conditions in the Black Creek and upper Cape Fear aquifers, 1992, in parts of Bladen and Robeson Counties, North Carolina: U.S. Geological Survey Water-Resources Investigations Report 94-4016, 1 sheet.[ground water, potentiometric, well records]

Schipf, R.G., 1961, Geology and ground-water resources of the Fayetteville area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 3, 99 p.[data, well records, geologic map]

Rockingham County

Mundorff, M.J., 1948, Geology and ground water in the Greensboro area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 55, 108 p. [data, well records, hydrographs, geologic map]

Rowan County

LeGrand, H.E., 1954, Geology and ground water in the Statesville area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 68, 68 p. [data, well records, geologic map]

Rutherford County

LeGrand, H.E., and Mundorff, M.J., 1952, Geology and ground water in the Charlotte area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 63, 88 p.[data, well records, geologic map]

Sampson County

Pusey, R.D., 1960, Geology and ground water in the Goldsboro area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 2, 77 p.[data, well records, geologic map]

Scotland County

Schipf, R.G., 1961, Geology and ground-water resources of the Fayetteville area: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 3, 99 p.[data, well records, geologic map]

Stanly County

Floyd, E.O., 1965, Geology and ground-water resources of the Monroe area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 5, 109 p.[data, well records, geologic map]

Stokes County

Mundorff, M.J., 1948, Geology and ground water in the Greensboro area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 55, 108 p. [data, well records, hydrographs, geologic map]

Surry County

Peace, R.R., Jr., and Link, D.R., 1971, Geology and ground-water resources of northwestern North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 19, 135 p.[data, well records, geologic map, hydrographs, water quality]

Swain County

- Eddins, W.H., and Zembrzuski, T.J., Jr., 1994, Factors affecting accuracy of slope-area discharge determination of the September 1992 flood in Raven Fork, western North Carolina, *in* Controneo, G.V., and Rumer, R.R., eds., 1994, Hydraulic engineering '94, proceedings of the symposium, Buffalo, N.Y., Aug. 1-5, 1994: American Society of Civil Engineers, v. 2, p. 645-649.[hydrology, surface water]
- Dodson, C.L., and Laney, R.L., 1968, Geology and ground-water resources of the Murphy area, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 13, 113 p.[data, well records, hydrographs, water quality, geologic map]

Transylvania County

- Trapp, Henry, Jr., 1970, Geology and ground-water resources of the Asheville area, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 16, 127 p.[data, well records, hydrographs, water quality, geologic map]
- Gale, H.S., 1905, Water resources of Cowee and Pisgah Quadrangles, North Carolina, *in* Fuller, M.L., 1905, Contributions to the hydrology of Eastern United States: U.S. Geological Survey Water-Supply Paper 110, p. 174-176.

Tyrrell County

Nelson, P.F., 1964, Geology and ground-water resources of the Swanquarter area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 4, 79 p.[data, well records]

Union County

Floyd, E.O., 1965, Geology and ground-water resources of the Monroe area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 5, 109 p.[data, well records, geologic map]

Vance County

May, V.J., and Thomas, J.D., 1968, Geology and ground-water resources in the Raleigh area, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 15, 135 p.[data, well records, hydrographs, water quality, geologic map]

Wake County

- Garrett, R.G., Taylor, J.E., and Middleton, T.L., 1994, Water-quality data for selected North Carolina streams and reservoirs in the Triangle Area Water Supply Monitoring Project, 1988-92: U.S. Geological Survey Open-File Report 94-379, 255 p.
- Garrett, R.G., 1990, Water-quality characteristics of inflow to and outflow from Falls Lake, North Carolina, 1982-87: U.S. Geological Survey Water-Resources Investigations Report 90-4097, 56 p.[data, reservoirs]
- Crawford, J.K., and Lenat, D.R., 1989, Effects of land use on the water quality and biota of three streams in the Piedmont Province of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 89-4007, 67 p.[biology]
- Reeder, H.E., 1973, Sediment resulting from construction of an interstate highway in the Piedmont area of North Carolina: Raleigh, N.C., U.S. Geological Survey Open-File Report, 27 p.[water quality]
- May, V.J., and Thomas, J.D., 1968, Geology and ground-water resources in the Raleigh area, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 15, 135 p.[data, well records, hydrographs, water quality, geologic map]
- Chemerys, J.C., 1967, Effect of urban development on quality of ground-water, Raleigh, North Carolina: U.S. Geological Survey Professional Paper 575-B, p. B212-B216.[water quality]

Warren County

May, V.J., and Thomas, J.D., 1968, Geology and ground-water resources in the Raleigh area, North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 15, 135 p.[data, well records, hydrographs, water quality, geologic map]

Washington County

Nelson, P.F., 1964, Geology and ground-water resources of the Swanquarter area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 4, 79 p.[data, well records]

Watauga County

- Haire, W.J., 1968, Floods on Boone and Winkler Creeks at Boone, North Carolina: U.S. Geological Survey Hydrologic Investigations Atlas HA-323, 1 sheet.[surface water]
- Sumsion, C.T., and Laney, R.L., 1967, Geology and ground-water resources of the Morganton area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 12, 119 p.[data, well records, hydrographs, water quality, geologic map]

Wayne County

Pusey, R.D., 1960, Geology and ground water in the Goldsboro area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 2, 77 p.[data, well records, geologic map]

Wilkes County

Peace, R.R., Jr., and Link, D.R., 1971, Geology and ground-water resources of northwestern North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 19, 135 p.[data, well records, geologic map, hydrographs, water quality]

Wilson County

Winner, M.D., Jr., 1976, Ground-water resources of Wilson County, North Carolina: U.S. Geological Survey Water-Resources Investigations 76-60, 85 p.[well records]

Mundorff, M.J., 1946, Ground water in the Halifax area, North Carolina: North Carolina Dept. of Conservation and Development, Div. of Mineral Resources Bull. 51, 76 p.[data, well records, hydrographs, potentiometric, geologic map]

Yadkin County

Peace, R.R., Jr., and Link, D.R., 1971, Geology and ground-water resources of northwestern North Carolina: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Bull. 19, 135 p.[data, well records, geologic map, hydrographs, water quality]

Yancey County

Sumsion, C.T., and Laney, R.L., 1967, Geology and ground-water resources of the Morganton area, North Carolina: North Carolina Dept. of Water Resources, Div. of Ground Water Bull. 12, 119 p.[data, well records, hydrographs, water quality, geologic map]

BIBLIOGRAPHY OF WATER-RESOURCES DATA PUBLICATIONS

The bibliography of water-resources data publications includes separate lists for ground-water, public water supply and water-use data, surface-water, water-quality, and water-resources reports. Each list is briefly prefaced with historical notes relative to the collection or publication of the data.

Ground-Water Data

A formal program to provide and publish ground-water level records for North Carolina began in 1931 under a cooperative agreement between the USGS and the North Carolina Department of Conservation and Development (predecessor to DEHNR). The data were published in the USGS Water-Supply Paper report series on a calendar year basis beginning with

Water-Supply Paper 777. Water levels in the Kurfee well at Mocksville, Davie County, are the oldest published records under this cooperative program, and date from January 1, 1932. For the convenience of the reader, a table at the end of this section lists by year or years the Water-Supply Paper numbers that contain ground-water data for North Carolina (table 1).

Before 1932 very few published records of wells or ground-water levels exist. Stephenson and Johnson (1912) summarized well records and water-level data for the Coastal Plain counties for the period 1861 to 1907. Selected references containing early ground-water data are included in their report.

Beginning in 1975, ground-water levels were published in annual water-resources data reports for North Carolina, which include surface-water and water-quality data. These reports are listed in the Water-Resources Data section of this bibliography; the ground-water data are organized by water year (October through September of the following year) in these publications.

* * * * *

- Strickland, A.G., and others, 1992, Ground-water level data for North Carolina, 1988-90: U.S. Geological Survey Open-File Report 92-57, 167 p.
- Coble, R.W., and Strickland, A.G., 1989, Ground-water level data for North Carolina--1987: U.S. Geological Survey Open-File Report 89-68, 152 p.
- U.S. Geological Survey, 1977, Ground-water levels in the United States, 1974, southeastern states: U.S. Geological Survey Water-Supply Paper 2165, 116 p.
- U.S. Geological Survey, 1975, Ground-water levels in the United States, 1969-73, southeastern states: U.S. Geological Survey Water-Supply Paper 2171, 250 p.
- U.S. Geological Survey, 1971, Ground-water levels in the United States, 1964-68, southeastern states: U.S. Geological Survey Water-Supply Paper 1978, 258 p.
- Hunsucker, J.K., and Shoffner, J.E., Jr., 1970, Ground-water levels in North Carolina in 1963-64: North Carolina Dept. of Water and Air Resources, Div. of Ground Water Circular 13, 56 p.
- Hunsucker, J.K., 1965, North Carolina, *in* Hackett, O.M., 1965, Ground-water levels in the United States, 1959-63, southeastern states: U.S. Geological Survey Water-Supply Paper 1803, p. 199-211.
- Floyd, E.O., 1962, North Carolina, *in* Hackett, O.M., 1962, Ground-water levels in the United States, 1956-58, southeastern states: U.S. Geological Survey Water-Supply Paper 1538, p. 153-161.
- LeGrand, H.E., and Reid, M.S., 1957, North Carolina, *in* Sayre, A.N., 1957, Water levels and artesian pressure in observation wells in the United States, 1955, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 1405, p. 217-225.

- LeGrand, H.E., and Reid, M.S., 1956, North Carolina, *in* Sayre, A.N., 1956, Water levels and artesian pressure in observation wells in the United States, 1954, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 1322, p. 227-235.
- LeGrand, H.E., and Streicher, M.M., 1956, North Carolina, in Sayre, A.N., 1956, Water levels and artesian pressure in observation wells in the United States, 1953, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 1266, p. 211-221.
- LeGrand, H.E., 1955, North Carolina, *in* Sayre, A.N., 1955, Water levels and artesian pressure in observation wells in the United States, 1952, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 1222, p. 200-211.
- LeGrand, H.E., 1954, North Carolina, *in* Sayre, A.N., 1954, Water levels and artesian pressure in observation wells in the United States, 1951, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 1192, p. 171-181.
- LeGrand, H.E., 1953, North Carolina, *in* Sayre, A.N., 1953, Water levels and artesian pressure in observation wells in the United States, 1950, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 1166, p. 208-218.
- LeGrand, H.E., 1952, North Carolina, *in* Sayre, A.N., and others, 1952, Water levels and artesian pressure in observation wells in the United States, 1949, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 1157, p. 187-201.
- Mundorff, M.J., and LeGrand, H.E., 1951, North Carolina, *in* Sayre, A.N., and others, 1951, Water levels and artesian pressure in observation wells in the United States, 1948, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 1127, p. 177-193.
- Mundorff, M.J., 1951, North Carolina, *in* Sayre, A.N., and others, 1951, Water levels and artesian pressure in observation wells in the United States, 1947, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 1097, p. 202-222.
- Mundorff, M.J., 1950, North Carolina, *in* Sayre, A.N., and others, 1950, Water levels and artesian pressure in observation wells in the United States, 1946, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 1072, p. 204-221.
- Mundorff, M.J., 1948, North Carolina, *in* Sayre, A.N., and others, 1948, Water levels and artesian pressure in observation wells in the United States, 1945, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 1024, p. 180-199.
- Mundorff, M.J., 1947, North Carolina, *in* Sayre, A.N., and others, 1947, Water levels and artesian pressure in observation wells in the United States, 1944, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 1017, p. 303-323.
- Mundorff, M.J., 1945, North Carolina, *in* Meinzer, O.E., and others, Water levels and artesian pressure in observation wells in the United States in 1943, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 987, p. 117-134.

- Mundorff, M.J., 1944, North Carolina, *in* Meinzer, O.E., and others, Water levels and artesian pressure in observation wells in the United States in 1942, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 945, p. 96-115.
- Burchard, E.D., 1943, North Carolina statewide project, *in* Meinzer, O.E., and others, 1943, Water levels and artesian pressure in observation wells in the United States in 1941, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 937, p. 75-79.
- Fiedler, A.G., 1943, Elizabeth City area, North Carolina, *in* Meinzer, O.E., and others, 1943, Water levels and artesian pressure in observation wells in the United States in 1941, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 937, p. 84-88.
- Fisher, Bernard, 1943, Deep River area, North Carolina, *in* Meinzer, O.E., and others, 1943, Water levels and artesian pressure in observation wells in the United States in 1941, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 937, p. 80-83.
- Burchard, E.D., Fishel, V.C., and Fiedler, A.G., 1942, *in* Meinzer, O.E., and others, 1942, Water levels and artesian pressure in observation wells in the United States in 1940, Part 2, southeastern states: U.S. Geological Survey Water-Supply Paper 907, p. 69-86.
- Burchard, E.D., 1940, North Carolina statewide project, *in* Meinzer, O.E., and Wenzel, L.K., 1940, Water levels and artesian pressure in observation wells in the United States in 1939: U.S. Geological Survey Water-Supply Paper 886, p. 513-517.
- Fiedler, A.G., 1940, North Carolina Elizabeth City area, *in* Meinzer, O.E., and Wenzel, L.K., 1940, Water levels and artesian pressure in observation wells in the United States in 1939: U.S. Geological Survey Water-Supply Paper 886, p. 523-526.
- Fishel, V.C., and Gambrell, J.W., 1940, North Carolina Deep River area of Soil Conservation Service, *in* Meinzer, O.E., and Wenzel, L.K., 1940, Water levels and artesian pressure in observation wells in the United States in 1939: U.S. Geological Survey Water-Supply Paper 886, p. 518-522.
- Burchard, E.D., 1939, North Carolina statewide project, *in* Meinzer, O.E., and Wenzel, L.K., 1939, Water levels and artesian pressure in observation wells in the United States in 1938: U.S. Geological Survey Water-Supply Paper 845, p. 333-337.
- Fiedler, A.G., 1939, North Carolina Elizabeth City area, *in* Meinzer, O.E., and Wenzel, L.K., 1939, Water levels and artesian pressure in observation wells in the United States in 1938: U.S. Geological Survey Water-Supply Paper 845, p. 343-345.
- Fishel, V.C., and Gambrell, J.W., 1939, North Carolina Deep River area of Soil Conservation Service, *in* Meinzer, O.E., and Wenzel, L.K., 1939, Water levels and artesian pressure in observation wells in the United States in 1938: U.S. Geological Survey Water-Supply Paper 845, p. 338-343.

- Burchard, E.D., 1938, North Carolina statewide project, *in* Meinzer, O.E., and Wenzel, L.K., 1938, Water levels and artesian pressure in observation wells in the United States in 1937: U.S. Geological Survey Water-Supply Paper 840, p. 302-305.
- Fiedler, A.G., 1938, North Carolina Elizabeth City area, *in* Meinzer, O.E., and Wenzel, L.K., 1938, Water levels and artesian pressure in observation wells in the United States in 1937: U.S. Geological Survey Water-Supply Paper 840, p. 316-318.
- Fishel, V.C., and Palm, H.W., 1938, North Carolina Deep River area of Soil Conservation Service, *in* Meinzer, O.E., and Wenzel, L.K., 1938, Water levels and artesian pressure in observation wells in the United States in 1937: U.S. Geological Survey Water-Supply Paper 840, p. 305-316.
- Burchard, E.D., 1937, North Carolina statewide project, *in* Meinzer, O.E., and Wenzel, L.K., 1937, Water levels and artesian pressure in observation wells in the United States in 1936: U.S. Geological Survey Water-Supply Paper 817, p. 213-217.
- Fishel, V.C., Ames, F.C., and Palm, H.W., 1937, North Carolina Deep River area of Soil Conservation Service, *in* Meinzer, O.E., and Wenzel, L.K., 1937, Water levels and artesian pressure in observation wells in the United States in 1936: U.S. Geological Survey Water-Supply Paper 817, p. 217-224.
- Lohman, S.W., 1937, North Carolina Elizabeth City area, *in* Meinzer, O.E., and Wenzel, L.K., 1937, Water levels and artesian pressure in observation wells in the United States in 1936: U.S. Geological Survey Water-Supply Paper 817, p. 225-228.
- Burchard, E.D., 1936, North Carolina statewide project, *in* Meinzer, O.E., and Wenzel, L.K., 1936, Water levels and artesian pressure in observation wells in the United States in 1935: U.S. Geological Survey Water-Supply Paper 777, p. 130-136.
- Burchard, E.D., 1936, North Carolina Deep River area of Soil Conservation Service, *in* Meinzer, O.E., and Wenzel, L.K., 1936, Water levels and artesian pressure in observation wells in the United States in 1935: U.S. Geological Survey Water-Supply Paper 777, p. 136-139.
- Lines, E.F., 1905, Well records: U.S. Geological Survey Bull. 264, p. 41-106.

Table 1. Summary of U.S. Geological Survey Water-Supply Papers (WSP) that contain ground-water data for North Carolina, 1932-74

Calendar		Calendar	
Year(s)	WSP	Year(s)	WSP
1932-35	777	1950	1166
1936	817	1951	1192
1937	840	1952	1222
1938	845	1953	1266
1939	886	1954	1322
1940	907	1955	1405
1941	937	1956-58	1538
1942	945	1959-63	1803
1943	987	1964-68	1978
1944	1017	1969-73	2171
1945	1024	1974	2165
1946	1072		
1947	1097		
1948	1127		
1949	1157		

Public Water Supply and Water-Use Data

This section contains references to publications that deal with public water supplies and the use of water in North Carolina. Although some of the publications contain limited interpretive information, they are treated as data reports for the purpose of this bibliography, rather than being listed separately. Some of the references could be considered water-quality data reports because they contain a large number of water analyses. Where appropriate, these reports are also listed in the Water-Quality Data section.

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Terziotti, Sylvia, Shrader, T.P., and Treece, M.W., Jr., 1994, Estimated water use, by county, in North Carolina, 1990: U.S. Geological Survey Open-File Report 94-522, 102 p.

Treece, M.W., Jr., 1990, Water withdrawals in the Roanoke-Chowan subregion of North Carolina and Virginia, 1983: U.S. Geological Survey Water-Resources Investigations Report 90-4007, 1 sheet.[data, water use]

- Treece, M.W., Jr., Bales, J.D., and Moreau, D.H., 1990, North Carolina water supply and use, *in* National water summary 1987--Water supply and use: U.S. Geological Survey Water-Supply Paper 2350, p. 393-400.
- Solly, W.B., Merck, C.F., and Pierce, R.R., 1988, Estimated use of water in the United States in 1985: U.S. Geological Survey Circular 1004, 82 p.
- Winner, M.D., Jr., and Lyke, W.L., 1986, History of ground-water pumpage and water-level decline in the Black Creek and upper Cape Fear aquifers of the central Coastal Plain of North Carolina: U.S. Geological Survey Water-Resources Investigations Report 86-4168, 21 p. [water use]
- Solly, W.B., Chase, E.B., and Mann, W.B., 1983, Estimated use of water in the United States in 1980: U.S. Geological Survey Circular 1001, 56 p.
- Mann, L.T., Jr., 1978, Public water supplies of North Carolina--A summary of water sources, use, treatment, and capacity of water-supply systems (1970-76): U.S. Geological Survey Water-Resources Investigations 78-16, 61 p.[data]
- Murray, C.R., and Reeves, E.B., 1977, Estimated use of water in the United States in 1975: U.S. Geological Survey Circular 765, 38 p.
- Robison, T.M., 1977, Public water supplies of North Carolina--Part 4, northern Coastal Plain: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, 218 p.[water use, data]
- Robison, T.M., and Mann, L.T., Jr., 1977, Public water supplies of North Carolina--Part 5, southern Coastal Plain: Raleigh, N.C., North Carolina Dept. of Natural Resources and Community Development, 333 p.[water use, data]
- Jackson, N.M., Jr., 1974, Public water supplies of North Carolina--Part 3, mountains and western Piedmont: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, 232 p. [water use, data]
- Jackson, N.M., Jr., 1973, Public water supplies of North Carolina--Part 2, southern Piedmont: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, 255 p.[water use, data]
- Jackson, N.M., Jr., 1972, Public water supplies of North Carolina--Part 1, northern Piedmont: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, 277 p.[water use, data]
- Murray, C.R., and Reeves, E.B., 1972, Estimated use of water in the United States in 1970: U.S. Geological Survey Circular 676, 37 p.
- Phibbs, E.J., Jr., 1969, Chemical and physical character of municipal water supplies in North Carolina (1960-65): North Carolina Dept. of Water and Air Resources, Water Pollution Control Div. Bull. 3, 191 p.

- Murray, C.R., 1968, Estimated use of water in the United States, 1965: U.S. Geological Survey Circular 556, 53 p.
- Durfor, C.N., and Becker, Edith, 1964, Chemical quality of public water supplies of the United States and Puerto Rico, 1962: U.S. Geological Survey Hydrologic Investigations Atlas HA-200, 1 sheet.[water quality]
- Durfor, C.N., and Becker, Edith, 1964, Public water supplies of the 100 largest cities in the United States, 1962: U.S. Geological Survey Water-Supply Paper 1812, 364 p.[water use]
- Harris, K.F., 1961, Chemical and physical character of municipal water supplies in North Carolina (1954-60): North Carolina Dept. of Water Resources, Div. of Stream Sanitation and Hydrology Bull. 2, 187 p.
- MacKichan, K.A., and Kammerer, J.C., 1961, Estimated use of water in the United States, 1960: U.S. Geological Survey Circular 456, 26 p.
- MacKichan, K.A., 1957, Estimated use of water in the United States, 1955: U.S. Geological Survey Circular 398, 18 p.
- Lohr, E.W., and Love, S.K., 1954, The industrial utility of public water supplies in the United States, 1952, Part 1, States east of the Mississippi River: U.S. Geological Survey Water-Supply Paper 1299, 639 p.
- MacKichan, K.A., 1951, Estimated use of water in the United States, 1950: U.S. Geological Survey Circular 115, 13 p.
- Lamar, W.L., and Pauszek, F.H., 1947, Public surface-water supplies in North Carolina: Raleigh, N.C., U.S. Geological Survey Progress Report No. 1, 41 p.
- Collins, W.D., Lamar, W.L., and Lohr, E.W., 1934, The industrial utility of public water supplies in the United States, 1932: U.S. Geological Survey Water-Supply Paper 658, 135 p.
- Collins, W.D., 1923, The industrial utility of public water supplies in the United States: U.S. Geological Survey Water-Supply Paper 496, 59 p.
- Parker, H.N., 1912, The quality of some waters of the Coastal Plain of North Carolina, *in* Clark, W.B., and others, 1912, The Coastal Plain of North Carolina: North Carolina Geological and Economic Survey, v. III, pt. II, p. 484-509.[ground water, water quality]
- Stephenson, L.W., and Johnson, B.L., 1912, The water resources of the Coastal Plain of North Carolina, *in* Clark, W.B., and others, 1912, The Coastal Plain of North Carolina: North Carolina Geological and Economic Survey, v. III, pt. II, p. 333-483.[ground water, water quality, well records]
- Darton, N.H., 1896, Artesian-well prospects in the Atlantic Coastal Plain Region: U.S. Geological Survey Bull. 138, 232 p.[hydrogeology]

Surface-Water Data

The U.S. Geological Survey began systematically collecting and publishing data on the flow of streams in North Carolina in 1895 beginning with Water-Supply Paper 11. Until 1970 these data were published in the USGS Water-Supply Paper Report series. Data were first presented in these reports by calendar year until 1913 (Water-Supply Paper 353) when a transition was begun to publish data in the water year format from October 1 through the following September 30. The data were organized by major river basin which transcended State boundaries, and, in the case of North Carolina, as many as three separate reports were required to publish all the State's data in this format. At the end of this section, a table summarizes by year or years the Water-Supply Paper numbers that contain surface-water data for North Carolina (table 2).

In 1961, surface-water data were published annually, by water year, on a State-boundary basis with the data organized by river basin within the State. These data were published dually in a State data report series and in the Water-Supply Paper series until 1970 when the data were published by the USGS exclusively in annual State surface-water data reports.

Beginning in 1975, surface-water data for North Carolina are included in the annual water-resources data reports. These reports are listed in the Water-Resources Data section of this bibliography. Streamflow records for North Carolina collected by the USGS from 1889 through 1923 are also reproduced in a State report (Saville and Smith, 1925).

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- Thomas, N.O., and Bonham, W.G., 1977, Annual maximum stages and discharges of North Carolina streams--Revised 1976: U.S. Geological Survey Open-File Report 77-367, 226 p.
- U.S. Geological Survey, 1975, Water resources data for North Carolina, water year 1974, Part 1, surface water records: U.S. Geological Survey Water-Data Report, 235 p.
- U.S. Geological Survey, 1974, Water resources data for North Carolina, water year 1973, Part 1, surface water records: U.S. Geological Survey Water-Data Report, 258 p.
- Thomas, N.O., 1973, Summaries of streamflow records: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, Office of Water and Air Resources, 303 p.
- U.S. Geological Survey, 1973, Water resources data for North Carolina, water year 1972, Part 1, surface water records: U.S. Geological Survey Water-Data Report, 229 p.
- U.S. Geological Survey, 1973, Surface water supply of the United States, 1966-70, Part 3, Ohio River Basin, v. 4, Ohio River Basin below Wabash River: U.S. Geological Survey Water-Supply Paper 2110, 806 p.
- U.S. Geological Survey, 1972, Surface water supply of the United States, 1966-70, Part 3, Ohio River Basin, v. 2, Ohio River Basin from Kanawha River to Louisville, Kentucky: U.S. Geological Survey Water-Supply Paper 2108, 700 p.

- U.S. Geological Survey, 1972, Surface water supply of the United States, 1966-70, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins, v. 1, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 2104, 1018 p.
- U.S. Geological Survey, 1972, Water resources data for North Carolina, water year 1971, Part 1, surface water records: U.S. Geological Survey Water-Data Report, 262 p.
- U.S. Geological Survey, 1971, Surface water supply of the United States, 1961-65, Part 3, Ohio River Basins, v. 4, Ohio River Basin below Wabash River: U.S. Geological Survey Water-Supply Paper 1910, 738 p.
- U.S. Geological Survey, 1971, Surface water supply of the United States, 1961-65, Part 3, Ohio River Basins, v. 2, Ohio River Basin from Kanawha River to Louisville, Kentucky: U.S. Geological Survey Water-Supply Paper 1908, 581 p.
- U.S. Geological Survey, 1971, Water resources data for North Carolina, water year 1970, Part 1, surface water records: U.S. Geological Survey Water-Data Report, 280 p.
- Yonts, W.L., 1971, Low-flow measurements of North Carolina streams: Raleigh, N.C., North Carolina Dept. of Water and Air Resources, 236 p.
- Bue, C.D., 1970, Streamflow from the United States into the Atlantic Ocean during 1931-60: U.S. Geological Survey Water-Supply Paper 1899-I, 36 p.
- U.S. Geological Survey, 1970, Surface water supply of the United States, 1961-65, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins, v. 1, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 1904, 942 p.
- U.S. Geological Survey, 1970, Water resources data for North Carolina, water year 1969, Part 1, surface water records: U.S. Geological Survey Water-Data Report, 248 p.
- U.S. Geological Survey, 1969, Water resources data for North Carolina, water year 1968, Part 1, surface water records: U.S. Geological Survey Water-Data Report, 242 p.
- U.S. Geological Survey, 1968, Water resources data for North Carolina, water year 1967, Part 1, surface water records: U.S. Geological Survey Water-Data Report, 231 p.
- U.S. Geological Survey, 1967, Water resources data for North Carolina, water year 1966, Part 1, surface water records: U.S. Geological Survey Water-Data Report, 245 p.
- U.S. Geological Survey, 1966, Water resources data for North Carolina, water year 1965, Part 1, surface water records: U.S. Geological Survey Water-Data Report, 247 p.
- Speer, P.R., and Gamble, C.R., 1965, Magnitude and frequency of floods in the United States, Part 3-A, Ohio River Basin, except Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1675, 630 p.

- U.S. Geological Survey, 1965, Surface water records of North Carolina, water year 1964: U.S. Geological Survey Water-Data Report, 209 p.
- Speer, P.R., and Gamble, C.R., 1964, Magnitude and frequency of floods in the United States, Part 3-B, Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1676, 340 p.
- Speer, P.R., and Gamble, C.R., 1964, Magnitude and frequency of floods in the United States, Part 2-A, South Atlantic slope Basins, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 1673, 327 p.
- U.S. Geological Survey, 1964, Compilation of records of surface waters of the United States October 1950 to September 1960, Part 3-B, Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1726, 269 p.
- U.S. Geological Survey, 1964, Compilation of records of surface waters of the United States October 1950 to September 1960, Part 3-A, Ohio River Basin except Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1725, 560 p.
- U.S. Geological Survey, 1964, Compilation of records of surface waters of the United States October 1950 to September 1960, Part 2-A, South Atlantic slope Basins, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 1723, 303 p.
- U.S. Geological Survey, 1964, Surface water records of North Carolina, water year 1963: U.S. Geological Survey Water-Data Report, 209 p.
- U.S. Geological Survey, 1963, Surface water records of North Carolina, water year 1962: U.S. Geological Survey Water-Data Report, 236 p.
- U.S. Geological Survey, 1962, Surface water records of North Carolina, water year 1961: U.S. Geological Survey Water-Data Report, 202 p.
- U.S. Geological Survey, 1961, Surface water supply of the United States, 1960, Part 3B, Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1706, 234 p.
- U.S. Geological Survey, 1961, Surface water supply of the United States, 1960, Part 3A, Ohio River, except Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1705, 583 p.
- U.S. Geological Survey, 1961, Surface water supply of the United States, 1960, Part 2A, South Atlantic slope, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 1703, 269 p.
- U.S. Geological Survey, 1960, Compilation of records of surface waters of the United States through September 1950, Part 3B, Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1306, 353 p.

- U.S. Geological Survey, 1960, Surface water supply of the United States, 1959, Part 3B, Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1626, 242 p.
- U.S. Geological Survey, 1960, Surface water supply of the United States, 1959, Part 3A, Ohio River, except Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1625, 565 p.
- U.S. Geological Survey, 1960, Surface water supply of the United States, 1959, Part 2A, South Atlantic slope, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 1623, 269 p.
- U.S. Geological Survey, 1960, Surface water supply of the United States, 1958, Part 3B, Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1556, 248 p.
- U.S. Geological Survey, 1960, Surface water supply of the United States, 1958, Part 3A, Ohio River, except Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1555, 574 p.
- U.S. Geological Survey, 1960, Surface water supply of the United States, 1958, Part 2A, South Atlantic slope, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 1553, 273 p.
- U.S. Geological Survey, 1959, Surface water supply of the United States, 1957, Part 3B, Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1506, 248 p.
- U.S. Geological Survey, 1959, Surface water supply of the United States, 1957, Part 3A, Ohio River, except Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1505, 553 p.
- U.S. Geological Survey, 1959, Surface water supply of the United States, 1957, Part 2A, South Atlantic slope, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 1503, 323 p.
- U.S. Geological Survey, 1958, Surface water supply of the United States, 1956, Part 3B, Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1436, 262 p.
- U.S. Geological Survey, 1958, Surface water supply of the United States, 1956, Part 3A, Ohio River, except Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1435, 561 p.
- U.S. Geological Survey, 1958, Surface water supply of the United States, 1956, Part 2A, South Atlantic slope, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 1433, 341 p.

- Rice, E.B., 1957, Surface-water supply of eastern and central North Carolina: Raleigh, N.C., U.S. Geological Survey Open-File Report, 92 p.
- U.S. Geological Survey, 1957, Compilation of records of surface waters of the United States through September 1950, Part 3A, Ohio River Basin, except Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1305, 652 p.
- U.S. Geological Survey, 1957, Compilation of records of surface waters of the United States through September 1950, Part 2A, South Atlantic slope, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 1303, 325 p.
- U.S. Geological Survey, 1957, Surface water supply of the United States, 1955, Part 3B, Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1386, 270 p.
- U.S. Geological Survey, 1957, Surface water supply of the United States, 1955, Part 3A, Ohio River, except Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1385, 581 p.
- U.S. Geological Survey, 1957, Surface water supply of the United States, 1955, Part 2A, South Atlantic slope, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 1383, 314 p.
- U.S. Geological Survey, 1956, Surface water supply of the United States, 1954, Part 3B, Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1336, 290 p.
- U.S. Geological Survey, 1956, Surface water supply of the United States, 1954, Part 3A, Ohio River, except Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1335, 607 p.
- U.S. Geological Survey, 1956, Surface water supply of the United States, 1954, Part 2A, South Atlantic slope, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 1333, 314 p.
- U.S. Geological Survey, 1955, Surface water supply of the United States, 1953, Part 3B, Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1276, 278 p.
- U.S. Geological Survey, 1955, Surface water supply of the United States, 1953, Part 3A, Ohio River, except Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1275, 587 p.
- U.S. Geological Survey, 1955, Surface water supply of the United States, 1953, Part 2A, South Atlantic slope, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 1273, 284 p.

- U.S. Geological Survey, 1954, Surface water supply of the United States, 1952, Part 3B, Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1236, 254 p.
- U.S. Geological Survey, 1954, Surface water supply of the United States, 1952, Part 3A, Ohio River, except Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1235, 506 p.
- U.S. Geological Survey, 1954, Surface water supply of the United States, 1952, Part 2A, South Atlantic slope, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 1233, 286 p.
- U.S. Geological Survey, 1954, Surface water supply of the United States, 1951, Part 3A, Ohio River, except Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1205, 513 p.
- U.S. Geological Survey, 1953, Surface water supply of the United States, 1951, Part 3B, Cumberland and Tennessee River Basins: U.S. Geological Survey Water-Supply Paper 1206, 252 p.
- U.S. Geological Survey, 1953, Surface water supply of the United States, 1951, Part 2A, South Atlantic slope, James River to Savannah River: U.S. Geological Survey Water-Supply Paper 1203, 266 p.
- U.S. Geological Survey, 1953, Surface water supply of the United States, 1950, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 1173, 730 p.
- U.S. Geological Survey, 1952, Surface water supply of the United States, 1950, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1172, 565 p.
- U.S. Geological Survey, 1951, Surface water supply of the United States, 1949, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 1143, 731 p.
- U.S. Geological Survey, 1951, Surface water supply of the United States, 1949, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1142, 570 p.
- U.S. Geological Survey, 1951, Surface water supply of the United States, 1948, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 1113, 749 p.
- U.S. Geological Survey, 1951, Surface water supply of the United States, 1948, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1112, 554 p.
- U.S. Geological Survey, 1950, Surface water supply of the United States, 1947, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 1083, 722 p.

- U.S. Geological Survey, 1950, Surface water supply of the United States, 1947, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1082, 544 p.
- Langbein, W.B., and others, 1949, Annual runoff in the United States: U.S. Geological Survey Circular 52, 14 p.
- U.S. Geological Survey, 1949, Surface water supply of the United States, 1946, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 1053, 691 p.
- U.S. Geological Survey, 1948, Surface water supply of the United States, 1946, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1052, 550 p.
- U.S. Geological Survey, 1948, Surface water supply of the United States, 1945, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 1033, 692 p.
- U.S. Geological Survey, 1947, Surface water supply of the United States, 1945, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1032, 588 p.
- U.S. Geological Survey, 1946, Surface water supply of the United States, 1944, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 1003, 685 p.
- U.S. Geological Survey, 1946, Surface water supply of the United States, 1944, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1002, 552 p.
- U.S. Geological Survey, 1945, Surface water supply of the United States, 1943, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 973, 652 p.
- U.S. Geological Survey, 1945, Surface water supply of the United States, 1943, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 972, 503 p.
- U.S. Geological Survey, 1944, Surface water supply of the United States, 1942, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 953, 682 p.
- U.S. Geological Survey, 1944, Surface water supply of the United States, 1942, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 952, 477 p.
- U.S. Geological Survey, 1942, Surface water supply of the United States, 1941, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 923, 623 p.
- U.S. Geological Survey, 1942, Surface water supply of the United States, 1941, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 922, 433 p.

- U.S. Geological Survey, 1942, Surface water supply of the United States, 1940, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 893, 662 p.
- U.S. Geological Survey, 1942, Surface water supply of the United States, 1940, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 892, 441 p.
- U.S. Geological Survey, 1941, Surface water supply of the United States, 1939, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 872, 388 p.
- U.S. Geological Survey, 1941, Surface water supply of the United States, 1939, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 873, 578 p.
- U.S. Geological Survey, 1940, Surface water supply of the United States, 1938, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 852, 293 p.
- U.S. Geological Survey, 1940, Surface water supply of the United States, 1938, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 853, 418 p.
- Williams, G.R., Crawford, L.C., and Eisenlohr, W.S., Jr., 1940, Maximum discharges at stream-measurement stations through December 31, 1937, with a supplement including additions and changes through September 30, 1938: U.S. Geological Survey Water-Supply Paper 847, 272 p.
- U.S. Geological Survey, 1939, Surface water supply of the United States, 1937, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 823, 375 p.
- U.S. Geological Survey, 1938, Surface water supply of the United States, 1937, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 822, 266 p.
- U.S. Geological Survey, 1938, Surface water supply of the United States, 1936, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 803, 453 p.
- U.S. Geological Survey, 1938, Surface water supply of the United States, 1936, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 802, 228 p.
- U.S. Geological Survey, 1937, Surface water supply of the United States, 1935, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 782, 233 p.
- U.S. Geological Survey, 1937, Surface water supply of the United States, 1935, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 783, 400 p.

- U.S. Geological Survey, 1936, Surface water supply of the United States, 1934, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 757, 216 p.
- U.S. Geological Survey, 1936, Surface water supply of the United States, 1934, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 758, 387 p.
- U.S. Geological Survey, 1935, Surface water supply of the United States, 1933, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 742, 206 p.
- U.S. Geological Survey, 1935, Surface water supply of the United States, 1933, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 743, 357 p.
- U.S. Geological Survey, 1934, Surface water supply of the United States, 1932, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 728, 370 p.
- U.S. Geological Survey, 1934, Surface water supply of the United States, 1932, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 727, 221 p.
- U.S. Geological Survey, 1933, Surface water supply of the United States, 1931, Part 2, south Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 712, 233 p.
- U.S. Geological Survey, 1933, Surface water supply of the United States, 1931, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 713, 346 p.
- U.S. Geological Survey, 1932, Surface water supply of the United States, 1930, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 698, 292 p.
- U.S. Geological Survey, 1932, Surface water supply of the United States, 1930, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 697, 248 p.
- U.S. Geological Survey, 1932, Surface water supply of the United States, 1929, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 683, 272 p.
- U.S. Geological Survey, 1932, Surface water supply of the United States, 1929, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 682, 178 p.
- U.S. Geological Survey, 1932, Surface water supply of the United States, 1928, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 662, 129 p.

- U.S. Geological Survey, 1931, Surface water supply of the United States, 1928, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 663, 245 p.
- U.S. Geological Survey, 1931, Surface water supply of the United States, 1927, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 643, 216 p.
- U.S. Geological Survey, 1931, Surface water supply of the United States, 1927, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 642, 103 p.
- U.S. Geological Survey, 1930, Surface water supply of the United States, 1926, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 623, 333 p.
- U.S. Geological Survey, 1930, Surface water supply of the United States, 1926, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 622, 118 p.
- U.S. Geological Survey, 1929, Surface water supply of the United States, 1925, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 603, 343 p.
- U.S. Geological Survey, 1929, Surface water supply of the United States, 1925, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 602, 107 p.
- U.S. Geological Survey, 1927, Surface water supply of the United States, 1924, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 583, 298 p.
- U.S. Geological Survey, 1928, Surface water supply of the United States, 1924, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 582, 66 p.
- Jones, B.E., and Holland, R.O., 1926, Preliminary index to river surveys made by the U.S. Geological Survey and other agencies: U.S. Geological Survey Water-Supply Paper 558, 108 p.
- U.S. Geological Survey, 1926, Surface water supply of the United States, 1923, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 563, 258 p.
- U.S. Geological Survey, 1926, Surface water supply of the United States, 1923, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 562, 86 p.
- U.S. Geological Survey, 1926, Surface water supply of the United States, 1922, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 542, 74 p.

- U.S. Geological Survey, 1926, Surface water supply of the United States, 1922, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 543, 262 p.
- U.S. Geological Survey, 1925, Surface water supply of the United States, 1921, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 523, 311 p.
- U.S. Geological Survey, 1925, Surface water supply of the United States, 1921, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 522, 72 p.
- U.S. Geological Survey, 1924, Surface water supply of the United States, 1919 and 1920, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 503, 257 p.
- U.S. Geological Survey, 1923, Surface water supply of the United States, 1919 and 1920, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 502, 80 p.
- Horton, A.H., and Paulson, C.G., 1922, Surface water supply of the United States, 1918, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 473, 115 p.
- Horton, A.H., and Hall, W.E., 1920, Surface water supply of the United States, 1917, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 453, 173 p.
- Stevens, G.C., and Hall, W.E., 1920, Surface water supply of the United States, 1917, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 452, 64 p.
- Stevens, G.C., and Paulson, C.G., 1920, Surface water supply of the United States, 1918, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 472, 56 p.
- Horton, A.H., and Hall, W.E., 1918, Surface water supply of the United States, 1916, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 433, 205 p.
- Stevens, G.C., and Hall, W.E., 1918, Surface water supply of the United States, 1916, Part 2, South Atlantic and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 432, 58 p.
- Horton, A.H., and Hall, W.E., 1917, Surface water supply of the United States, 1915, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 403, 175 p.
- Stevens, G.C., and Hall, W.E., 1916, Surface water supply of the United States, 1915, Part 2, South Atlantic and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 402, 51 p.
- Horton, A.H., and Hall, W.E., 1916, Surface water supply of the United States, 1914, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 383, 125 p.

- Stevens, G.C., and Hall, W.E., 1916, Surface water supply of the United States, 1914, Part 2, South Atlantic and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 382, 66 p.
- Horton, A.H., Hall, W.E., and Jackson, H.J., 1915, Surface water supply of the United States, 1913, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 353, 264 p. [First report to list surface-water data by water year.]
- Stevens, G.C., and Hall, W.E., 1915, Surface water supply of the United States, 1913, Part 2, South Atlantic and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 352, 84 p.[Last report to list surface-water data by calendar year.]
- Hall, W.E., and Pierce, C.H., 1914, Surface water supply of the United States, 1912, Part 2, South Atlantic coast and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 322, 98 p.
- Horton, A.H., Hall, M.R., and Jackson, H.J., 1914, Surface water supply of the United States, 1912, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 323, 118 p.
- Hall, M.R., and Pierce, C.H., 1913, Surface water supply of the United States, 1911, Part 2, South Atlantic coast and eastern Gulf of Mexico drainage Basins: U.S. Geological Survey Water-Supply Paper 302, 90 p.
- Horton, A.H., Hall, M.R., and Jackson, H.J., 1913, Surface water supply of the United States, 1911, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 303, 112 p.
- Hall, M.R., and Mathers, J.G., 1912, Surface water supply of the United States, 1910, Part 2, South Atlantic coast and eastern Gulf of Mexico drainage Basins: U.S. Geological Survey Water-Supply Paper 282, 109 p.
- Horton, A.H., Hall, M.R., and Jackson, H.J., 1912, Surface water supply of the United States, 1910, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 283, 158 p.
- Horton, A.H., Hall, M.R., and Bolster, R.H., 1911, Surface water supply of the United States, 1909, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 263, 192 p.
- U.S. Geological Survey, 1911, Water powers of North Carolina, a supplement to Bulletin No. 8: North Carolina Geological and Economic Survey Bull. 20, 383 p.
- Hall, M.R., and Bolster, R.H., 1910, Surface water supply of the United States, 1909, Part 2, South Atlantic coast and eastern Gulf of Mexico drainage Basins: U.S. Geological Survey Water-Supply Paper 262, 150 p.
- Horton, A.H., Hall, M.R., and Bolster, R.H., 1910, Surface water supply of the United States, 1907-8, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 243, 224 p.

- Hall, M.R., and Bolster, R.H., 1909, Surface water supply of the United States, 1907-8, Part 2, South Atlantic coast and eastern Gulf of Mexico drainages: U.S. Geological Survey Water-Supply Paper 242, 226 p.
- Grover, N.C., 1907, Surface water supply of middle Atlantic states, 1906, Susquehanna, Gunpowder, Patapsco, Potomac, James, Roanoke, and Yadkin River drainages: U.S. Geological Survey Water-Supply Paper 203, 100 p.
- Hall, M.R., 1907, Surface water supply of southern Atlantic and eastern Gulf states, 1906, Santee, Savannah, Ogeechee, and Altamaha Rivers and eastern Gulf of Mexico drainages: U.S. Geological Survey Water-Supply Paper 204, 110 p.
- Hall, M.R., Grover, N.C., and Horton, A.H., 1907, Surface water supply of Ohio and eastern Mississippi River drainages, 1906: U.S. Geological Survey Water-Supply Paper 205, 123 p.
- Grover, N.C., and Hoyt, J.C., 1906, Progress of stream measurements for calendar year 1905, Part 3, Susquehanna, Gunpowder, Patapsco, Potomac, James, Roanoke, and Yadkin River drainages: U.S. Geological Survey Water-Supply Paper 167, 128 p.
- Hall, M.R., Hanna, F.W., and Hoyt, J.C., 1906, Progress of stream measurements for the calendar year 1905, Part 5, Ohio and lower Mississippi River drainages: U.S. Geological Survey Water-Supply Paper 169, 153 p.
- Hall, M.R., and Hoyt, J.C., 1906, Progress of stream measurements for calendar year 1905, Part 4, Santee, Savannah, Ogeechee, and Altamaha Rivers and eastern Gulf of Mexico drainages: U.S. Geological Survey Water-Supply Paper 168, 164 p.
- Grover, N.C., and Hoyt, J.C., 1905, Progress of stream measurements for the calendar year 1904, Part 3, Susquehanna, Potapsco, Potomac, James, Cape Fear, and Yadkin drainages: U.S. Geological Survey Water-Supply Paper 126, 125 p.
- Hall, M.R., and Hoyt, J.C., 1905, Progress of stream measurements for the calendar year 1904, Part 4, Santee, Savannah, Ogeechee, and Altamaha Rivers and eastern Gulf of Mexico drainages: U.S. Geological Survey Water-Supply Paper 127, 127 p.
- Hall, M.R., Johnson, E., Jr., and Hoyt, J.C., 1905, Progress of stream measurements for the calendar year 1905, Part 5, Eastern Mississippi River drainage: U.S. Geological Survey Water-Supply Paper 128, 168 p.
- Hoyt, J.C., 1904, Progress of stream measurements for the calendar year 1903, Part 2, Southern Atlantic, eastern Gulf of Mexico, and eastern Mississippi River drainage: U.S. Geological Survey Water-Supply Paper 98, 313 p.
- Newell, F.H., 1903, Progress of stream measurements for the calendar year 1902, Part 2, Southern Atlantic, eastern Gulf of Mexico, eastern Mississippi River, and Great Lakes drainage: U.S. Geological Survey Water-Supply Paper 83, 304 p.

- Newell, F.H., 1903, Progress of stream measurements for the calendar year 1901: U.S. Geological Survey Water-Supply Paper 75, 246 p.
- Newell, F.H., 1902, Operations at river stations, 1901, Part 1, east of Mississippi River: U.S. Geological Survey Water-Supply Paper 65, 334 p.
- Newell, F.H., 1901, Operations at river stations, 1900, Part 2: U.S. Geological Survey Water-Supply Paper 48, 91 p.
- Newell, F.H., 1900, Operations at river stations, 1899, Part 2: U.S. Geological Survey Water-Supply Paper 36, 198 p.
- Newell, F.H., 1899, Operations at river stations, 1898, Part 1: U.S. Geological Survey Water-Supply Paper 27, 100 p.
- Newell, F.H., 1898, Operations at river stations, 1897: U.S. Geological Survey Water-Supply Paper 15, 100 p.
- Davis, A.P., 1897, River heights for 1896: U.S. Geological Survey Water-Supply Paper 11, 100 p.
- Newell, F.H., 1896, Report of progress of the Division of Hydrography for 1895: U.S. Geological Survey Bull. 140, p. 65-71.

Table 2. Summary of U.S. Geological Survey Water-Supply Papers (WSP) that contain annual surface-water data for North Carolina, 1896-1970

Calendar		Calendar	
year	WSP	year	WSP
1896	11	1905	167, 168, 169
1897	15	1906	203, 204, 205
1898	27	1907	242, 243
1899	36	1908	242, 243
1900	48	1909	262, 263
1901	65, 75	1910	282, 283
1902	83	1911	302, 303
1903	98	1912	322, 323
1904	126, 127, 128	1913	352

Table 2. Summary of U.S. Geological Survey Water-Supply Papers (WSP) that contain annual surface-water data for North Carolina, 1896-1970--Continued

Water		Water	
year	WSP	year(s)	WSP
1913	353	1940	892, 893
1914	382, 383	1941	922, 923
1915	402, 403	1942	952, 953
1916	432, 433	1943	972, 973
1917	452, 453	1944	1002, 1003
1918	472, 472	1945	1032, 1033
1919	502, 503	1946	1052, 1053
		1947	1082, 1083
1920	502, 503	1948	1112, 1113
1921	522, 523	1949	1142, 1143
1922	542, 543		
1923	562, 563	1950	1172, 1173
1924	582, 583	1951	1203, 1205, 1206
1925	602, 603	1952	1233, 1235, 1236
1926	622, 623	1953	1273, 1275, 1276
1927	642, 643	1954	1333, 1335, 1336
1928	662, 663	1955	1383, 1385, 1386
1929	682, 683	1956	1433, 1435, 1436
		1957	1503, 1505, 1506
1930	697, 698	1958	1553, 1555, 1556
1931	712, 713	1959	1623, 1625, 1626
1932	727, 728		, ,
1933	742, 743	1960	1703, 1705, 1706
1934	757, 758	1950-60	1723, 1725, 1726
1935	782, 783	1960-65	1904, 1908, 1910
1936	802, 803	1966-70	2104, 2108, 2110
1937	822, 823		• •
1938	852, 853		
1939	872, 873		

Water-Quality Data

Prior to 1943, there was no formal program to collect and publish water-quality data for North Carolina. However, a report published by the State of North Carolina (Ray and Randolph, 1943) provides an important summary of all USGS water-quality analyses between 1906 and 1927. As part of various USGS investigations, a number of streamwater samples in the State were collected, analyzed, and published in a few USGS reports. The most important of these are

included in this section. For analyses of ground water, the reader is referred to the list of interpretive reports for ground-water publications, many of which contain partial and complete analyses. Also, see the Public Water Supply and Water-Use Data section for publications that contain analyses of water for public and industrial supplies.

In 1943, the U.S. Geological Survey began collecting water-quality data for North Carolina streams on a systematic basis, and published these records annually in the Water-Supply Paper series, beginning with Water-Supply Paper 1022. Starting in 1961, water-quality data were also published for each State, similar to surface-water data, and in 1971 publication in the Water-Supply series was discontinued. A table at the end of this section lists by year the Water-Supply Paper numbers containing streamwater-quality data for North Carolina (table 3).

Between 1947 and 1973, water-quality data collected by the USGS were compiled in a biennial report and published by the State. Although they are a duplication of published records, these reports are included in this bibliography as an alternative source for the reader.

Water-quality data for North Carolina have been included in the annual water-resources data reports since 1976. These publications are listed in the Water-Resources Data section of this bibliography.

* * * * *

- Knobel, L.L., 1985, Ground-water quality data for the Atlantic Coastal Plain: New Jersey, Delaware, Maryland, Virginia, and North Carolina: U.S. Geological Survey Open-File Report 85-154, 84 p.
- Lee, R.W., 1984, Ground-water quality data from the southeastern Coastal Plain, Mississippi, Alabama, Georgia, South Carolina, and North Carolina: U.S. Geological Survey Open-File Report 84-237, 20 p.
- Robison, T.M., 1977, Public water supplies of North Carolina--Part 4, northern Coastal Plain: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, 218 p.[water use, data]
- Robison, T.M., and Mann, L.T., Jr., 1977, Public water supplies of North Carolina--Part 5, southern Coastal Plain: Raleigh, N.C., North Carolina Dept. of Natural Resources and Community Development, 333 p.[water use, data]
- U.S. Geological Survey, 1975, Quality of surface waters of the United States, 1970, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 2153, 444 p.
- U.S. Geological Survey, 1975, Water resources data for North Carolina, water year 1974, Part 2, water quality records: U.S. Geological Survey Water-Data Report, 158 p.
- Jackson, N.M., Jr., 1974, Public water supplies of North Carolina--Part 3, mountains and western Piedmont: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, 232 p. [water use, data]

- U.S. Geological Survey, 1974, Quality of surface waters of the United States, 1970, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 2152, 668 p.
- U.S. Geological Survey, 1974, Quality of surface waters of the United States, 1969, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 2143, 371 p.
- U.S. Geological Survey, 1974, Quality of surface waters of the United States, 1969, Part 2, South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 2142, 625 p.
- U.S. Geological Survey, 1974, Water resources data for North Carolina, water year 1973, Part 2, water-quality records: U.S. Geological Survey Water-Data Report, 195 p.
- Jackson, N.M., Jr., 1973, Public water supplies of North Carolina--Part 2, southern Piedmont: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, 255 p.[water use, data]
- Thomas, N.O., 1973, Chemical and physical character of surface waters of North Carolina 1970-71: North Carolina Dept. of Natural and Economic Resources, Office of Water and Air Resources Bull. I, v. XIV, 191 p.
- U.S. Geological Survey, 1973, Quality of surface waters of the United States, 1968, Part 3, Ohio River Basin: U.S. Geological Survey Water-Supply Paper 2093, 309 p.
- U.S. Geological Survey, 1973, Quality of surface waters of the United States, 1968, Part 2 South Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 2092, 373 p.
- U.S. Geological Survey, 1973, Water resources data for North Carolina, water year 1972, Part 2, water-quality records: U.S. Geological Survey Water-Data Report, 205 p.
- U.S. Geological Survey, 1973, Water resources data for North Carolina, water year 1971, Part 2, water-quality records: U.S. Geological Survey Water-Data Report, 191 p.
- Jackson, N.M., Jr., 1972, Public water supplies of North Carolina--Part 1, northern Piedmont: Raleigh, N.C., North Carolina Dept. of Natural and Economic Resources, 277 p.[water use, data]
- U.S. Geological Survey, 1972, Water resources data for North Carolina, water year 1970, Part 2, water-quality records: U.S. Geological Survey Water-Data Report, 188 p.
- Durum, W.H., Hem, J.D., and Heidel, S.C., 1971, Reconnaissance of selected minor elements in surface waters of the United States, October 1970: U.S. Geological Survey Circular 643, 49 p.[water quality]

- Phibbs, E.J., Jr., 1971, Chemical and physical character of surface waters of North Carolina 1967-68: North Carolina Dept. of Natural and Economic Resources, Office of Water and Air Resources Bull. I, v. XII, 120 p.
- U.S. Geological Survey, 1971, Quality of surface waters of the United States, 1967, Parts 3-4, Ohio River Basins and St. Lawrence River Basins: U.S. Geological Survey Water-Supply Paper 2012, 575 p.
- U.S. Geological Survey, 1971, Quality of surface waters of the United States, 1967, Parts 1-2, North Atlantic slope Basins and south Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 2011, 982 p.
- U.S. Geological Survey, 1971, Quality of surface waters of the United States, 1966, Parts 1-2, North Atlantic slope Basins and south Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1991, 984 p.
- U.S. Geological Survey, 1971, Water resources data for North Carolina, water year 1969, Part 2, water-quality records: U.S. Geological Survey Water-Data Report, 160 p.
- Wilder, H.B., and Slack, L.J., 1971, Summary of data on chemical quality of streams of North Carolina, 1943-67: U.S. Geological Survey Water-Supply Paper 1895-B, 236 p.
- U.S. Geological Survey, 1970, Quality of surface waters of the United States, 1966, Parts 3-4, Ohio River Basins and St. Lawrence River Basins: U.S. Geological Survey Water-Supply Paper 1992, 585 p.
- U.S. Geological Survey, 1970, Quality of surface waters of the United States, 1965, Parts 3-4, Ohio River Basins and St. Lawrence River Basins: U.S. Geological Survey Water-Supply Paper 1962, 480 p.
- U.S. Geological Survey, 1970, Quality of surface waters of the United States, 1965, Parts 1-2, North Atlantic slope Basins and south Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1961, 779 p.
- U.S. Geological Survey, 1970, Water resources data for North Carolina, water year 1968, Part 2, water-quality records: U.S. Geological Survey Water-Data Report, 113 p.
- Woodard, T.H., 1970, Summary of data on temperature of streams in North Carolina, 1943-67: U.S. Geological Survey Water-Supply Paper 1895-A, 39 p.
- Phibbs, E.J., Jr., 1969, Chemical and physical character of municipal water supplies in North Carolina (1960-65): North Carolina Dept. of Water and Air Resources, Water Pollution Control Div. Bull. 3, 191 p.
- Phibbs, E.J., Jr., 1969, Chemical and physical character of surface waters of North Carolina 1966-67: North Carolina Dept. of Water and Air Resources, Water Pollution Control Div. Bull. I, v. XI, 237 p.

- U.S. Geological Survey, 1969, Quality of surface waters of the United States, 1964, Parts 3-4, Ohio River Basins and St. Lawrence River Basins: U.S. Geological Survey Water-Supply Paper 1955, 440 p.
- U.S. Geological Survey, 1969, Quality of surface waters of the United States, 1964, Parts 1-2, North Atlantic slope Basins and south Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1954, 606 p.
- U.S. Geological Survey, 1969, Water resources data for North Carolina, water year 1967, Part 2, water-quality records: U.S. Geological Survey Water-Data Report, 237 p.
- U.S. Geological Survey, 1968, Quality of surface waters of the United States, 1961, Parts 3-4, Ohio River Basins and St. Lawrence River Basins: U.S. Geological Survey Water-Supply Paper 1882, 312 p.
- U.S. Geological Survey, 1968, Quality of surface waters of the United States, 1960, Parts 3-4, Ohio River Basins and St. Lawrence River Basins: U.S. Geological Survey Water-Supply Paper 1742, 309 p.
- U.S. Geological Survey, 1968, Quality of surface waters of the United States, 1960, Parts 1-2, North Atlantic slope Basins and south Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1741, 418 p.
- U.S. Geological Survey, 1968, Water resources data for North Carolina, water year 1966, Part 2, water-quality records: U.S. Geological Survey Water-Data Report, 231 p.
- Phibbs, E.J., Jr., 1967, Chemical and physical character of surface waters of North Carolina 1965-66: North Carolina Dept. of Water and Air Resources, Water Pollution Control Div. Bull. I, v. X, 243 p.
- U.S. Geological Survey, 1967, Quality of surface waters of the United States, 1963, Parts 1-2, North Atlantic slope Basins and south Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1947, 472 p.
- U.S. Geological Survey, 1967, Quality of surface waters of the United States, 1961, Parts 1-2, North Atlantic slope Basins and south Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1881, 412 p.
- U.S. Geological Survey, 1967, Water resources data for North Carolina, water year 1965, Part 2, water-quality records: U.S. Geological Survey Water-Data Report, 213 p.
- Phibbs, E.J., Jr., 1966, Chemical and physical character of surface waters of North Carolina 1964-65: North Carolina Dept. of Water Resources, Div. of Stream Sanitation and Hydrology Bull. I, v. IX, 222 p.
- Phibbs, E.J., Jr., and Chemerys, J.C., 1966, Chemical and physical character of surface waters of North Carolina 1963-64: North Carolina Dept. of Water Resources, Div. of Stream Sanitation and Hydrology Bull. I, v. VIII, 194 p.

- U.S. Geological Survey, 1965, Quality of surface waters of the United States, 1963, Parts 3-4, Ohio River Basins and St. Lawrence River Basins: U.S. Geological Survey Water-Supply Paper 1948, 390 p.
- U.S. Geological Survey, 1965, Quality of surface waters of the United States, 1959, Parts 3-4, Ohio River Basins and St. Lawrence River Basins: U.S. Geological Survey Water-Supply Paper 1642, 303 p.
- U.S. Geological Survey, 1965, Quality of surface waters of the United States, 1959, Parts 1-2, North Atlantic slope Basins and south Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1641, 460 p.
- U.S. Geological Survey, 1965, Water quality records in North Carolina, water year 1964: U.S. Geological Survey Water-Data Report, 183 p.
- Woodard, T.H., and Phibbs, E.J., Jr., 1965, Chemical and physical character of surface waters of North Carolina 1962-63: North Carolina Dept. of Water Resources, Div. of Stream Sanitation and Hydrology Bull. I, v. VII, 206 p.
- Phibbs, E.J., Jr., 1964, Chemical and physical character of surface waters of North Carolina 1961-62: North Carolina Dept. of Water Resources, Div. of Stream Sanitation and Hydrology Bull. I, v. VI, 218 p.
- U.S. Geological Survey, 1964, Quality of surface waters of the United States, 1962, Parts 3-4, Ohio River Basins and St. Lawrence River Basins: U.S. Geological Survey Water-Supply Paper 1942, 322 p.
- U.S. Geological Survey, 1964, Quality of surface waters of the United States, 1962, Parts 1-2, North Atlantic slope Basins and south Atlantic slope and eastern Gulf of Mexico Basins: U.S. Geological Survey Water-Supply Paper 1941, 434 p.
- Phibbs, E.J., Jr., and Midgett, M.R., 1963, Chemical and physical character of surface waters of North Carolina 1960-61: North Carolina Dept. of Water Resources, Div. of Stream Sanitation and Hydrology Bull. I, v. V, 192 p.
- Chemerys, J.C., and Phibbs, E.J., Jr., 1962, Chemical and physical character of surface waters of North Carolina 1958-59: North Carolina Dept. of Water Resources, Div. of Stream Sanitation and Hydrology Bull. I, v. III, 180 p.
- Fleischer, Michael, 1962, Fluoride content of ground water in the conterminous United States: U.S. Geological Survey Miscellaneous Geological Investigations Map I-387, 1 sheet, scale 1:5,000,000.
- U.S. Geological Survey, 1962, Quality of surface waters of the United States, 1958, Parts 1-4, North Atlantic slope Basins to St. Lawrence River Basin: U.S. Geological Survey Water-Supply Paper 1571, 773 p.

- Woodard, T.H., 1962, Chemical and physical character of surface waters of North Carolina 1959-60: North Carolina Dept. of Water Resources, Div. of Stream Sanitation and Hydrology Bull. I, v. IV, 179 p.
- Harris, K.F., 1961, Chemical and physical character of municipal water supplies in North Carolina (1954-60): North Carolina Dept. of Water Resources, Div. of Stream Sanitation and Hydrology Bull. 2, 187 p.
- U.S. Geological Survey, 1960, Quality of surface waters of the United States, 1957, Parts 1-4, North Atlantic slope Basins to St. Lawrence River Basin: U.S. Geological Survey Water-Supply Paper 1520, 303 p.
- U.S. Geological Survey, 1960, Quality of surface waters of the United States, 1956, Parts 1-4, North Atlantic slope Basins to St. Lawrence River Basin: U.S. Geological Survey Water-Supply Paper 1450, 603 p.
- Woodard, T.H., and Thomas, J.D., 1960, Chemical and physical character of surface waters of North Carolina 1957-58: North Carolina Dept. of Water Resources, Div. of Stream Sanitation and Hydrology Bull. I, v. II, 191 p.
- U.S. Geological Survey, 1959, Quality of surface waters of the United States, 1955, Parts 1-4, North Atlantic slope Basins to St. Lawrence River Basin: U.S. Geological Survey Water-Supply Paper 1400, 530 p.
- Woodard, T.H., and Thomas, J.D., 1959, Chemical and physical character of surface waters of North Carolina 1956-57: North Carolina Dept. of Water Resources, Div. of Stream Sanitation and Hydrology Bull. I, v. I, 107 p.
- McAvoy, R.L., 1957, Chemical and physical character of surface waters of North Carolina 1955-56: North Carolina Dept. of Conservation and Development, Div. of Water Resources, Inlets and Coastal Waterways Bull. 52, v. 12, 104 p.
- U.S. Geological Survey, 1957, Quality of surface waters of the United States, 1954, Parts 1-4, North Atlantic slope Basins to St. Lawrence River Basin: U.S. Geological Survey Water-Supply Paper 1350, 415 p.
- U.S. Geological Survey, 1957, Quality of surface waters of the United States, 1953, Parts 1-4, North Atlantic slope Basins to St. Lawrence River Basin: U.S. Geological Survey Water-Supply Paper 1290, 439 p.
- Harris, K.F., and Joyner, B.F., 1956, Chemical and physical character of surface waters of North Carolina 1953-54: North Carolina Dept. of Conservation and Development, Div. of Water Resources, Inlets and Coastal Waterways Bull. 52, v. 10, 67 p.
- McAvoy, R.L., and Harris, K.F., 1956, Chemical and physical character of surface waters of North Carolina 1954-55: North Carolina Dept. of Conservation and Development, Div. of Water Resources, Inlets and Coastal Waterways Bull. 52, v. 11, 120 p.

- U.S. Geological Survey, 1956, Quality of surface waters of the United States, 1952, Parts 1-4, North Atlantic slope Basins to St. Lawrence River Basin: U.S. Geological Survey Water-Supply Paper 1250, 365 p.
- Joyner, B.F., and Billingsley, G.A., 1955, Chemical and physical character of surface waters of North Carolina 1952-53: North Carolina Dept. of Conservation and Development, Div. of Water Resources, Inlets and Coastal Waterways Bull. 52, v. 9, 68 p.
- U.S. Geological Survey, 1955, Quality of surface waters of the United States, 1951, Parts 1-4, North Atlantic slope Basins to St. Lawrence River Basin: U.S. Geological Survey Water-Supply Paper 1197, 373 p.
- U.S. Geological Survey, 1954, Quality of surface waters of the United States, 1950, Parts 1-4, North Atlantic slope Basins to St. Lawrence River Basin: U.S. Geological Survey Water-Supply Paper 1186, 331 p.
- U.S. Geological Survey, 1954, Quality of surface waters of the United States, 1949, Parts 1-6: U.S. Geological Survey Water-Supply Paper 1162, 662 p.
- Billingsley, G.A., and Joyner, B.F., 1953, Chemical and physical character of surface waters of North Carolina 1951-52: North Carolina Dept. of Conservation and Development, Div. of Water Resources and Engineering Bull. 52, v. 8, 68 p.
- Pauszek, F.H., 1953, Chemical and physical character of surface waters of North Carolina 1950-51: North Carolina Dept. of Conservation and Development, Div. of Water Resources and Engineering Bull. 52, v. 7, 59 p.
- U.S. Geological Survey, 1953, Quality of surface waters of the United States, 1948: U.S. Geological Survey Water-Supply Paper 1132, 515 p.
- U.S. Geological Survey, 1952, Quality of surface waters of the United States, 1947: U.S. Geological Survey Water-Supply Paper 1102, 651 p.
- Pauszek, F.H., and Harris, K.F.,1951, Chemical and physical character of surface waters of North Carolina 1949-50: North Carolina Dept. of Conservation and Development, Div. of Water Resources and Engineering Bull. 52, v. 6, 56 p.
- Pauszek, F.H., 1950, Chemical and physical character of surface waters of North Carolina 1948-49: North Carolina Dept. of Conservation and Development, Div. of Water Resources and Engineering Bull. 52, v. 5, 50 p.
- U.S. Geological Survey, 1950, Quality of surface waters of the United States, 1946: U.S. Geological Survey Water-Supply Paper 1050, 486 p.
- Lamar, W.L., and Joyner, B.F., 1949, Chemical and physical character of surface waters of North Carolina 1946-47: North Carolina Dept. of Conservation and Development, Div. of Water Resources and Engineering Bull. 52, v. 3, 43 p.

- Pauszek, F.H., and Joyner, B.F., 1949, Chemical and physical character of surface waters of North Carolina 1947-48: North Carolina Dept. of Conservation and Development, Div. of Water Resources and Engineering Bull. 52, v. 4, 31 p.
- U.S. Geological Survey, 1949, Quality of surface waters of the United States, 1945: U.S. Geological Survey Water-Supply Paper 1030, 335 p.
- Lamar, W.L., 1948, Chemical and physical character of surface waters of North Carolina 1945-46: North Carolina Dept. of Conservation and Development, Div. of Water Resources and Engineering Bull. 52, v. 2, 33 p.
- Lamar, W.L., 1947, Chemical and physical character of surface waters of North Carolina 1944-45: North Carolina Dept. of Conservation and Development, Div. of Water Resources and Engineering Bull. 52, v. 1, 20 p.
- U.S. Geological Survey, 1947, Quality of surface waters of the United States, 1944: U.S. Geological Survey Water-Supply Paper 1022, 311 p.
- Collins, W.D., Lamar, W.L., and Lohr, E.W., 1934, The industrial utility of public water supplies in the United States, 1932: U.S. Geological Survey Water-Supply Paper 658, 135 p.
- Foster, M.D., 1927, Surface waters of western North Carolina: Industrial and Engineering Chemistry, v. 19, p. 885.[water quality]
- Collins, W.D., and Howard, C.S., 1925, Index of analyses of natural waters in the United States: U.S. Geological Survey Water-Supply Paper 560-C, p. 53-85.
- Collins, W.D., 1923, The industrial utility of public water supplies in the United States: U.S. Geological Survey Water-Supply Paper 496, 59 p.
- Clarke, F.W., 1914, Water analyses from the laboratory of the United States Geological Survey: U.S. Geological Survey Water-Supply Paper 364, 44 p.
- Parker, H.N., 1912, The quality of some waters of the Coastal Plain of North Carolina, *in* Clark, W.B., and others, 1912, The Coastal Plain of North Carolina: North Carolina Geological and Economic Survey, v. III, pt. II, p. 484-509.[ground water, water quality]
- Dole, R.B., 1909, The quality of water in the United States, Part 1, Analyses of waters east of the 100th meridian: U.S. Geological Survey Water-Supply Paper 236, 123 p.
- Clarke, F.W., 1908, The data of geochemistry: U.S. Geological Survey Bull. 330, 716 p.
- Peale, A.C., 1886, Lists and analyses of the mineral waters of the United States: U.S. Geological Survey Bull. 32, 235 p.

Table 3. Summary of U.S. Geological Survey Water-Supply Papers (WSP) containing annual water-quality data for North Carolina, 1944-70

Water			
year	WSP	year	WSP
1944	1022	1957	1520
1945	1030	1958	1571
1946	1050	1959	1641, 1642
1947	1102		
1948	1132	1960	1741, 1742
1949	1162	1961	1881, 1882
		1962	1941, 1942
1950	1186	1963	1947, 1948
1951	1197	1964	1954, 1955
1952	1250	1965	1961, 1962
1953	1290	1966	1991, 1992
1954	1350	1967	2011, 2012
1955	1400	1968	2092, 2093
1956	1450	1969	2142, 2143
		1970	2152, 2153

Water-Resources Data

Water-resources data for North Carolina consist of records of stage, discharge, and water quality of streams; stage and volumes of lakes and reservoirs; ground-water levels; and ground-water quality. These data have been incorporated in one or two annual report volumes since 1975, and are listed in the water year format. Additional water data can be included in some of these reports for various sites not part of the systematic data-collection program, and are published as miscellaneous measurements. For other data reports before the 1975 water year, see individual sections for ground water, surface water, and water quality data in this bibliography.

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Ragland, B.C., Smith, D.G., Barker, R.G., and Rinehardt, J.F., 1995, Water resources data, North Carolina, water year 1994--Volume 1, Surface-water records: U.S. Geological Survey Water-Data Report NC-94-1, 578 p.

Smith, D.G., George, E.D., and Breton, P.L., 1995, Water resources data, North Carolina, water year 1994--Volume 2, Ground-water records: U.S. Geological Survey Water-Data Report NC-94-2, 166 p.

Barker, R.G., George, E.D., Rinehardt, J.F., and Eddins, W.H., 1994, Water resources data, North Carolina, water year 1993--Volume 1, Surface-water records: U.S. Geological Survey Water-Data Report NC-93-1, 580 p.

- Coble, R.W., Smith, D.G., and Ragland, B.C., 1994, Water resources data, North Carolina, water year 1993, Volume 2, Ground-water records: U.S. Geological Survey Water-Data Report NC-93-2, 235 p.
- Gunter, H.C., Rinehardt, J.F., Eddins, W.H., and Barker, R.G., 1993, Water resources data, North Carolina, water year 1992: U.S. Geological Survey Water-Data Report NC-92-1, 370 p.
- Barker, R.G., Ragland, B.C., Rinehardt, J.F., and Eddins, W.H., 1992, Water resources data, North Carolina, water year 1991: U.S. Geological Survey Water-Data Report NC-91-1, 349 p.
- Ragland, B.C., Barker, R.G., Eddins, W.H., and Rinehardt, J.F., 1991, Water resources data, North Carolina, water year 1990: U.S. Geological Survey Water-Data Report NC-90-1, 389 p.
- Ragland, B.C., Barker, R.G., Eddins, W.H., Padyk, A.J., and Rinehardt, J.F., 1990, Water resources data, North Carolina, water year 1989: U.S. Geological Survey Water-Data Report NC-89-1, 434 p.
- Ragland, B.C., Garrett, R.G., Barker, R.G., Eddins, W.H., and Rinehardt, J.F., 1989, Water resources data, North Carolina, water year 1988: U.S. Geological Survey Water-Data Report NC-88-1, 418 p.
- Ragland, B.C., Garrett, R.G., Barker, R.G., Eddins, W.H., and Rinehardt, J.F., 1988, Water resources data, North Carolina, water year 1987: U.S. Geological Survey Water-Data Report NC-87-1, 542 p.
- Barker, R.G., Eddins, W.H., Garrett, R.G., Ragland, B.C., and Rinehardt, J.F., 1987, Water resources data, North Carolina, water year 1986: U.S. Geological Survey Water-Data Report NC-86-1, 495 p.
- Hill, C.L., Rinehardt, J.F., and Dillard, T.E., 1986, Water resources data, North Carolina, water year 1985: U.S. Geological Survey Water-Data Report NC-85-1, 550 p.
- Hill, C.L., Rinehardt, J.F., and Dillard, T.E., 1985, Water resources data, North Carolina, water year 1984: U.S. Geological Survey Water-Data Report NC-84-1, 578 p.
- Gunter, H.C., Hill, C.L., and Dillard, T.E., 1984, Water resources data, North Carolina, water year 1983: U.S. Geological Survey Water-Data Report NC-83-1, 534 p.
- Gunter, H.C., Hill, C.L., and Dillard, T.E., 1983, Water resources data, North Carolina, water year 1982: U.S. Geological Survey Water-Data Report NC-82-1, 481 p.
- U.S. Geological Survey, 1982, Water resources data, North Carolina, water year 1981: U.S. Geological Survey Water-Data Report NC-81-1, 465 p.

- U.S. Geological Survey, 1981, Water resources data, North Carolina, water year 1980: U.S. Geological Survey Water-Data Report NC-80-1, 459 p.
- U.S. Geological Survey, 1980, Water resources data, North Carolina, water year 1979: U.S. Geological Survey Water-Data Report NC-79-1, 541 p.
- U.S. Geological Survey, 1979, Water resources data, North Carolina, water year 1978: U.S. Geological Survey Water-Data Report NC-78-1, 515 p.
- U.S. Geological Survey, 1978, Water resources data, North Carolina, water year 1977: U.S. Geological Survey Water-Data Report NC-77-1, 395 p.
- U.S. Geological Survey, 1977, Water resources data, North Carolina, water year 1976: U.S. Geological Survey Water-Data Report NC-76-1, 411 p.
- U.S. Geological Survey, 1976, Water resources data, North Carolina, water year 1975: U.S. Geological Survey Water-Data Report NC-75-1, 426 p.

AVAILABILITY OF PUBLICATIONS

This bibliography contains references to publications of organizations in addition to those of the U.S. Geological Survey. These reports may be obtained from the appropriate agency or publishing organization. Some publications are out of print and available only from libraries, such as the North Carolina State Library or the University of North Carolina Libraries. Many USGS reports, including unnumbered open-file reports, are available for inspection at the North Carolina District office in Raleigh.

U.S. Geological Survey book publications are available from:

U.S. Geological Survey
Earth Science Information Center
Open-File Reports Section
Box 25286, Denver Federal Center
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Prepayment is required for books and maps. When ordering either books or maps, give the series designation, number, and title. For example: Water-Supply Paper 1761, Water-supply characteristics of North Carolina streams. Inquiries about the investigations described in the publications listed in this bibliography can be addressed to:

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REFERENCES

- Ray, C.E., Jr., and Randolph, E.E., 1943, Preliminary report on the chemical quality of the surface waters of North Carolina with relation to industrial use: North Carolina Dept. of Conservation and Development Economic Paper 61, 76 p.
- Saville, Thorndike, and Smith, G.W., 1925, Discharge records of North Carolina streams, 1889-1923: North Carolina Dept. of Conservation and Development Bull. 34, 405 p.
- Stephenson, L.W., and Johnson, B.L., 1912, The water resources of the Coastal Plain of North Carolina, *in* Clark, W.B., and others, 1912, The Coastal Plain of North Carolina: North Carolina Geological and Economic Survey, v. III, pt. II, p. 333-483.

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The following is an indexed list of authors and coauthors of the reports contained in this bibliography. Some authors were affiliated with other agencies while working cooperatively with the USGS.

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