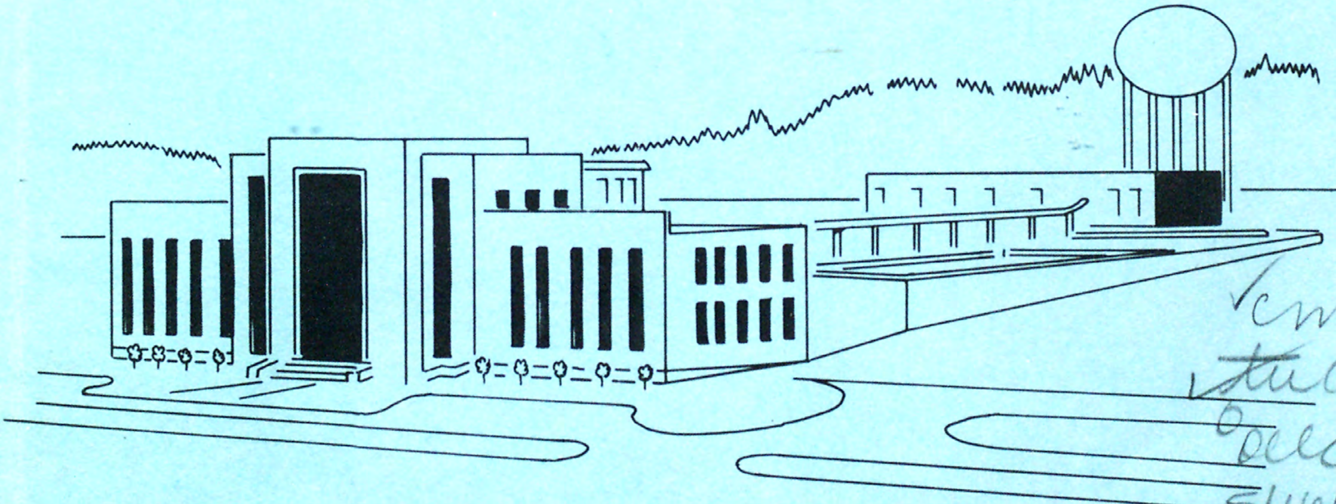
PUBLIC WATER SUPPLIES OF NORTH CAROLINA

A summary of water sources, use, treatment, and capacity of water-supply systems



U. S. GEOLOGICAL SURVEY
WATER RESOURCES INVESTIGATIONS 78-16

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WITH THE NORTH CAROLINA DEPARTMENT
OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT

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16. Abstracts

Data on 224 public water supply systems in North Carolina with 500 or more customers was gathered during 1970-76. This report summarizes these data that were previously published in five separate regional reports.

The data are presented in order of Council of Government region, county, and water system name and include population served, average and maximum daily use, industrial use, water source, allowable draft of surface-water supplies, raw water pumping capacity, raw and finished water storage, type of water treatment, treatment plant capacity, and a summary of the chemical quality of finished water. Tables and maps provide cross references for system names, counties, Council of Government regions and water source.

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

*Water supply, *Water treatment, *Aquifers, *Water distribution, *North Carolina, Reservoir yield

17b. Identifiers/Open-Ended Terms

Average water use, Maximum water use, Industrial water use, Pumping capacity, Water storage, Source of supply

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UNITED STATES DEPARTMENT OF THE INTERIOR

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April 1978

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CONVERSION FACTORS TO INTERNATIONAL SYSTEM UNITS

For use of those readers who may prefer metric units rather than U.S. customary units, the conversion factors for the terms used in this report are listed:

Multiply U.S. customary unit	by	to obtain metric units
million gallons (Mgal)	3.785×10^{3}	cubic meters (m^3)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meters per second (m^3/s)

PUBLIC WATER SUPPLIES OF NORTH CAROLINA, A SUMMARY OF WATER SOURCES, USE, TREATMENT, AND CAPACITY OF WATER-SUPPLY SYSTEMS

By L. T. Mann, Jr.

ABSTRACT

A study of the public water-supply systems in North Carolina with 500 or more customers provides information needed to aid the planning, development, and utilization of the public water supplies of the State. Water use, sources of water, water quality, water treatment and capacity of 224 public-water-supply systems were investigated during 1970-76, and the findings of the investigation, which were published in five reports, are summarized in this report.

INTRODUCTION

North Carolina is a water-rich State. The public water-supply systems of the State have done an excellent job of supplying their customers with an adequate supply of safe water. Occasionally, water use has been curtailed during very dry years, but these instances have been relatively rare. To maintain this fine record, there is a need for local managers to evaluate continuously their water systems, anticipate future requirements, and plan and pursue any required expansion. Even though the State is water rich, the supply is not limitless, and a need exists for regional planners to ensure that the available water resources are properly developed and wisely used.

To aid in the planning, development, and utilization of the water supplies in the State, an inventory of the public water supplies in North Carolina with 500 or more customers was undertaken in 1970 as a part of the cooperative program between the U.S. Geological Survey and the North Carolina Office of Water and Air Resources, now the North Carolina Department of Natural Resources and Community Development.

This effort resulted in five published reports, each of which describe the public water-supply systems in a specific part of the State as shown on figure 1. The five reports cover areas as follows: Part 1, northern Piedmont (Jackson, 1972); Part 2, southern Piedmont (Jackson, 1973); Part 3, mountains and western Piedmont (Jackson, 1974); Part 4, northern Coastal Plain (Robison, 1977); and Part 5, southern Coastal Plain (Robison and Mann, 1977). Information in the five regional reports is presented on a county basis and includes a general appraisal of the surface-water and ground-water resources and a map showing the approximate area served by public water-supply systems. The surface-water appraisals contain information on streams draining the county, including estimates of average and minimum flows. The ground-water appraisals include a summary of the ground-water conditions, data on reported well depths and yields, and a general statement on the chemical quality of ground water.

The inventory of the public water-supply systems with 500 or more customers includes information on the population served, source of supply, raw-and finished-water storage, estimated allowable draft, total use, industrial use, pumping capacity, type of water treatment and treatment-plant capacity, and an appraisal of the surface-water and ground-water resources in the immediate vicinity of the municipality. Chemical analyses of raw and treated water include the results of an analysis of the chemical constituents most commonly found in water and an analysis for a selected group of minor elements (principally trace metals).

The five reports also include a discussion of the method of investigation, brief descriptions of water-treatment processes, the significance of the data as related to planning, and general comments concerning problems noted.

This report is a summary of the data contained in the five regional reports. It presents data in two major tables on the 224 public water-supply systems in North Carolina that had 500 or more customers at the time of the investigation. The first table is an alphabetical listing of water-supply systems cross referenced to an index map and a data table. The second is the data table which is organized by counties within each council of government region and contains information on water use, sources of water, water treatment, and the capacity of each water-supply system investigated during 1970-76.

COOPERATION AND ACKNOWLEDGMENTS

The study of the public water supplies in North Carolina is being made by the U.S. Geological Survey in cooperation with the Division of Environmental Management, North Carolina Department of Natural Resources and Community Development. The inventory data were reviewed by personnel of the Department of Natural Resources and Community Development and by the Division of Health Services of the North Carolina Department of Human Resources. Needless to say, most of the data contained in this report could not have been collected without the generous cooperation of municipal officials and engineering consultants who supplied information on the water-supply installations.

LIST OF PUBLIC-WATER-SUPPLY SYSTEMS

All the public water-supply systems in North Carolina with 500 or more customers are listed alphabetically in table 2. For each system, the list includes the county, the part number of the regional report which contains detailed data on the system, the Council of Government and map number of the system shown on figure 2, and the page number of table 3 of this report that includes summary data on the supply.

SUMMARY OF WATER-SUPPLY SYSTEM DATA

A summary of data for each water-supply system is given in table 3. The systems are arranged in alphabetical order first by council of government region, then by county, and finally by the community name. This order determines the map number as listed in tables 2 and 3 and shown on figure 2. Data in line with the community name apply to the entire system, and data in line with the water source apply to that source only.

Map number.--The letter, identifying the Council of Government region, and the sequential number of the system as described in the preceding paragraph.

Community (owner).--Principal city, town, subdivision, military base, or name of system. Owner is identified in parentheses by name or as: M, municipal; P, private; or F, Federal Government.

Population served.--Population served, usually estimated. Seasonal varia-tions indicated by letter preceding figure: w for winter and s for summer.

Water use.--Reported in millions of gallons per day (Mgal/d). Total: all water distributed by the system, including that sold to industries. Avg: daily average based on latest available data at the time of the investigation (usually, the daily average for 12 months

(prior to date of visit). Max: maximum daily use; the peak use of record. Ind: amount sold to industries.

Water source.--When the source is a stream without a reservoir, the name of the stream is given. When the source is a reservoir the name of the principal stream feeding the reservoir is given. The name(s) of the reservoir(s) follows beneath. For ground water, the number of wells, followed by the name of the principal aquifer being tapped in parentheses.

Allowable draft.--Reported in millions of gallons per day (Mgal/d). This is an estimate of the maximum rate at which water can be withdrawn continuously, either from the stream or from raw-water storage, without exhausting the supply. This estimated rate is based on minimum streamflows than can be expected to occur once in 20 years on the average. Thus, the flow of the stream or the flow supplemented by storage should provide the estimated draft rate 19 years out of 20, on the average.

Raw-water pumping capacity.--Reported in millions of gallons per day (Mgal/d). For ground water, it is the combined rated capacities of all well pumps supplying the system. Well yields based on 24-hour aquifer tests are used where pump-capacity data are not available. For surface water, it is the raw-water pumping capacity. "Gravity" indicates flow from impoundment at a higher elevation than treatment plant, and the maximum flow is unknown or not reported.

Water storage.--Reported in millions of gallons (Mgal). Raw: untreated water. Fin: treated water.

Treatment.--Physical and chemical adjustments to water to improve its quality. The codes for the types of treatment are as follows:

a - chlorination
b - aeration
c - coagulation
d - sedimentation
e - taste and odor control
f - filtration
g - softening
h - corrosion control
i - adjustment of pH
j - fluoridation
k - ammoniation
none - no treatment

Treatment-plant capacity.--Reported in millions of gallons per day (Mgal/d). Capacity of the plant to produce treated water. Many groundwater supplies have no treatment plants as such, but water from individual wells may be treated by automatic demand-type feeders.

Finished-water quality.--Reported in milligrams per liter, except pH, which is reported in pH units. This is a listing of the highest values for key constituents and properties from analyses of samples of water entering the distribution system. This water may or may not be treated. The most current finished-water analyses are used. All surface-water sources included in this summary received some degree of treatment. Untreated water from ground-water sources entering the distribution system are considered finished. Some of the ground-water analyses were on samples containing water from several wells in the system. Data from individual wells are underlined. Values of dissolved solids, hardness, and iron are reported for each system. The column labeled "other" contains values for other constituents or properties exceeding recommended limits; the chemical symbol precedes the value. Table 1 lists the chemical constituents and properties of water, their symbols, limits recommended by the National Academy of Sciences and National Academy of Engineering (1973), and their significance with respect to public water supplies.

Table 1.--Significance of mineral constituents and physical properties of water and maximum recommended limits

(National Academy of Sciences and National Academy of Engineering, 1973)

Constituent or property	Maximum recommended limit	Significance
Arsenic (As)	0.1 mg/L	Adverse physiological effects on humans.
Barium (Ba)	1.0 mg/L	Do.
Cadmium (Cd)	.01 mg/L	Do.
Chloride (Cl)	250 mg/L	Imparts salty taste.
Chromium (Cr)	.05 mg/L	Adverse physiological effects on humans.
Copper (Cu)	1.0 mg/L	Imparts taste to water. In concentrations in excess of 0.1 mg/L, it may cause corrosion of aluminum.
Dissolved solids (D.S.).	No limit	High concentrations may result in possible physiological effects, mineral taste and economic consequences.

Table 1.--Significance of mineral constituents and physical properties of water and maximum recommended limits--Continued

Constituent or property	Maximum recommended limit	Significance
Flouride (F)	Variable	Has potential beneficial effect of reducing tooth decay. Excessive amounts can result in dental fluorosis. Maximum recommended limits based on annual average of maximum daily air temperature. In North Carolina the maximum recommended limits range from 1.6 mg/L in the southeast to 2.0 mg/L in the northwest.
Hardness, as CaCO3 (Hard.)	No limit	Acceptable levels based on consumer preference.
Iron (Fe)	0.3 mg/L	Imparts taste to water, can cause staining of plumbing fixtures and clothing, and can cause accumulation of deposits in distribution system.
Lead (Pb)	0.05 mg/L	Toxic to humans.
Manganese (Mn)	0.05 mg/L	Imparts taste to water, can cause staining of plumbing fixtures and clothing, and can cause accumulation of deposits in distribution systems.
Mercury (Hg)	0.002 mg/L	Adverse physiological effects on humans.
Nitrate Nitrogen (NO3. as N)	10 mg/L	Adverse physiological effects on infants.
Nitrite Nitrogen (NO2 as N)	1 mg/L	Similar to nitrate nitrogen, but effect is more pronounced.
pH	Above 9.0	Corrosion of distribution system.
	Below 5.0	Limits based on economic aspects of treatment processes.

Table 1.--Significance of mineral constituents and physical properties of water and maximum recommended limits--Continued

Constituent or property	Maximum recommended limit	Significance
Sodium	No limit	Persons on very restricted sodium diets should not consume water with sodium concentrations greater than 20 mg/L; concentrations should not exceed 270 mg/L for persons on a moderately restricted sodium diet.
Sulfate (SO_4)	250 mg/L	Affects taste and has laxative effect.
Zinc (Zn)	5.0 mg/L	Imparts taste to water.

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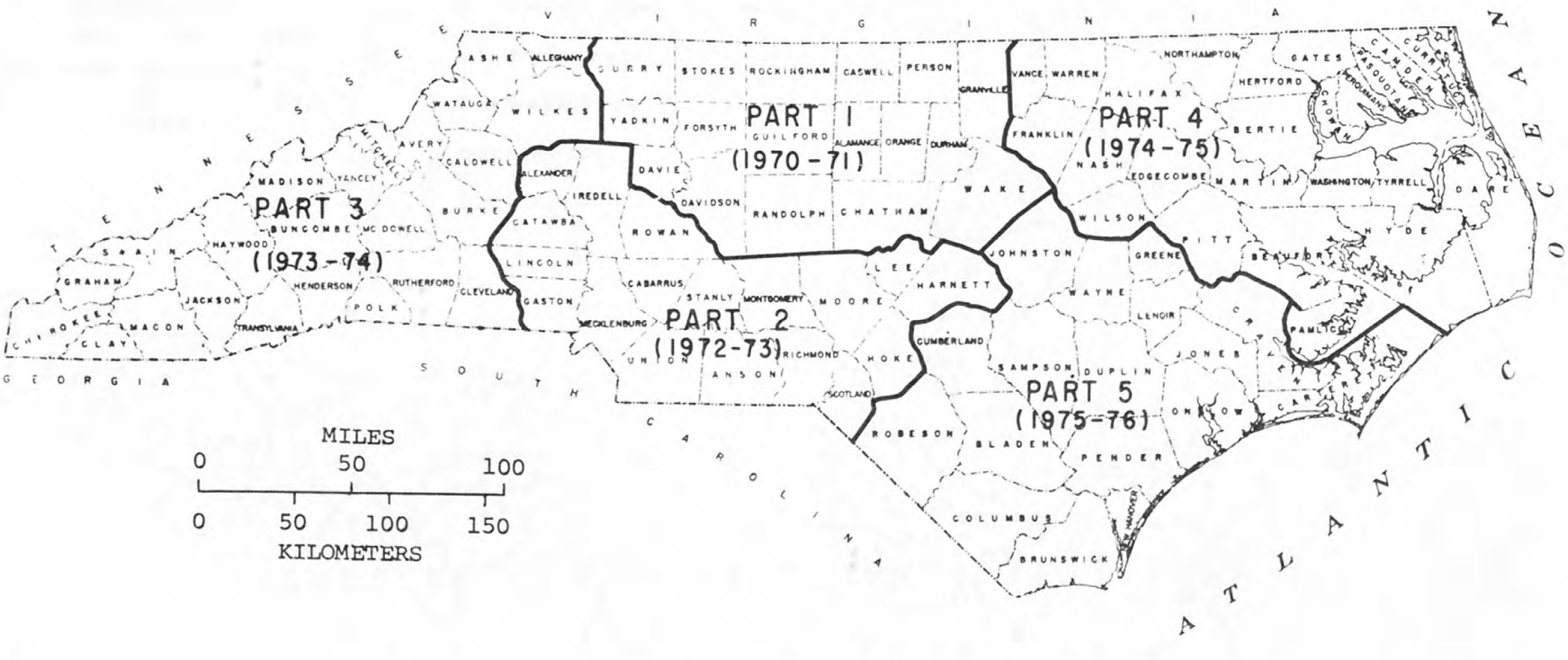

Figure 1.--Areas covered by the five regional Public Water-Supply reports. Dates indicate years the studies were in progress.

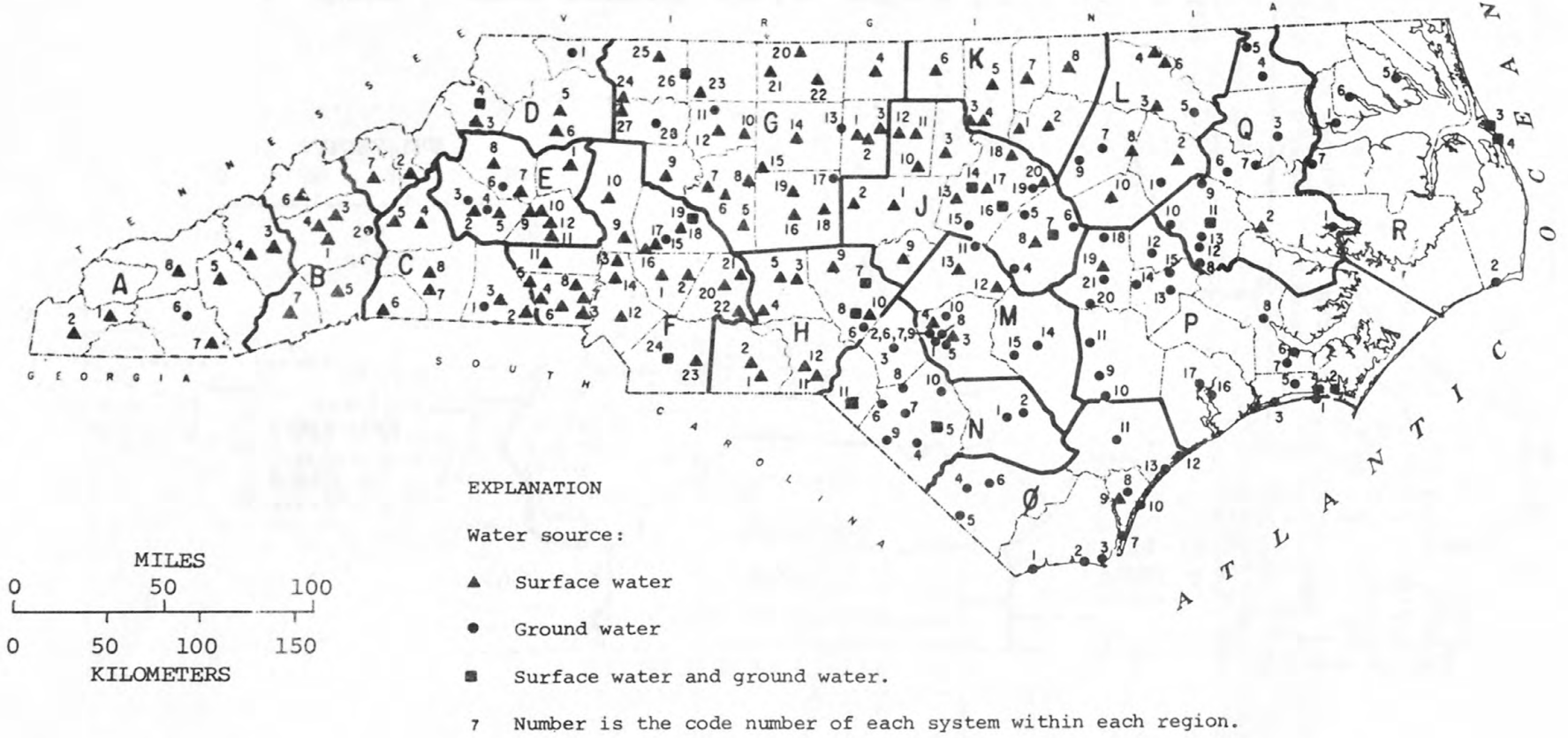

Figure 2.--Council of Government regions, location of water-supply systems, and sources of water.

Table 2.--Public-water-supply systems in North Carolina having 500 or more customers

Water-supply system	County	Regional report number	Map number on figure 2	Data on page
Aberdeen	Moore	2	H6	31
Ahoskie	Hertford	4	Q4	48
Albemarle	Stanly	2	F20	26
Alexander County Water Corporation	Alexander	2	E1	22
Andrews	Cherokee	3	A1	18
Angier	Harnett	2	M11	40
Anson County Water System	Anson	2	H1	31
Apex	Wake	1	J13	34
Asheboro	Randolph	1	G16	29
Asheville	Buncombe	3	B1	19
Atlantic Beach	Carteret	5	P1	45
Ayden	Pitt	4	Q8	49
Badin	Stanly	2	F21	26
Baton Water Corporation	Caldwell	3	E6	22
Beaufort	Carteret	5	P2	45
Belhaven	Beaufort	4	Q1	48
Belmont	Gaston	2	F3	24
Benson	Johnston	5	J4	33
Bessemer City	Gaston	2	F4	24
Bethel	Pitt	4	Q9	49
Biscoe	Montgomery	2	H3	31
Black Mountain	Buncombe	3	B2	19
Blowing Rock	Watauga	3	D3	21
Bogue Banks Water Association	Carteret	5	P3	45
Boiling Springs	Cleveland	3	C1	20
Boone	Watauga	3	D4	21
Brevard	Transylvania	3	B7	19
Brookwood Water System	Cumberland	5	M1	39
Bryson City	Swain	3	A8	18
Burgaw	Pender	5	Ø11	44
Burlington	Alamance	1	G1	27
Burnsville	Yancey	3	D7	21
Butner	Granville	1	K3	36

Table 2.--Public-water-supply systems in North Carolina having 500 or more customers--Continued

Water-supply system	County	Regional report number	Map number on figure 2	Data on page
Camp Lejeune	Onslow	5	P16	47
Canton	Haywood	3	A3	18
Cape Hatteras Water Association	Dare	4	R2	50
Carolina Beach	New Hanover	5	Ø7	44
Carthage	Moore	2	H7	31
Cary	Wake	1	J14	34
Chadbourn	Columbus	5	Ø4	43
Chapel Hill	Orange	1	J10	34
Charlotte-Mecklenburg Utility Department	Mecklenburg	2	F12	25
Cherry Point Marine Crops Air Station	Craven	5	P6	45
Cherryville	Gaston	2	F5	24
China Grove	Rowan	2	F15	25
Clayton	Johnston	5	J5	33
Clinton	Sampson	5	M14	40
Concord	Cabarrus	2	F1	24
Cottonade-Summer Hill Water System	Cumberland	5	M2	39
Creedmoor	Granville	1	K4	36
Davidson	Mecklenburg	2	F13	25
Denton	Davidson	1	G5	27
Dunn	Harnett	2	M12	40
Durham	Durham	1	J3	33
Eden	Rockingham	1	G20	29
Edenton	Chowan	4	R1	50
Elkin	Surry	1	G24	30
Elizabeth City	Pasquotank	4	R5	51
Elizabethtown	Bladen	5	N1	41
Enfield	Halifax	4	L3	37
Fairmont	Robeson	5	N4	41
Farmville	Pitt	4	Q10	49
Fayetteville	Cumberland	5	M3	39
Forest City	Rutherford	3	C7	20
Fort Bragg	Cumberland	5	M4	39
Franklin	Macon	3	A6	18
Franklinton	Franklin	4	K1	36
Fremont	Wayne	5	P18	47
Fuquay-Varina	Wake	1	J15	34

Table 2.--Public-water supply systems in North Carolina having 500 or more customers--Continued

Water-supply system	County	Regional report number	Map number on figure 2	Data on page
Garner	Wake	1	J16	34
Gastonia	Gaston	2	F6	24
Gibsonville	Guilford	1	G13	28
Goldsboro	Wayne	5	P19	47
Graham	Alamance	1	G2	27
Granite Falls	Caldwell	3	E7	22
Greensboro	Guilford	1	G14	28
Greenville	Pitt	4	Q11	49
Grifton	Pitt	4	Q12	49
Hamlet	Richmond	2	H11	32
Havelock	Craven	5	P7	45
Henderson	Vance	1	K7	36
Hendersonville	Henderson	3	B5	19
Hartford	Perquimans	4	R6	51
Hickory	Catawba	2	E9	23
Highlands	Macon	3	A7	18
High Point	Guilford	1	G15	29
Hillsborough	Orange	1	J11	34
Huntersville	Mecklenburg	2	F14	25
Jacksonville	Onslow	5	P17	47
Jonesville	Yadkin	1	G27	30
Kannapolis	Rowan	2	F16	25
Kenly	Johnston	5	J6	33
Kernersville	Forsyth	1	G10	28
Kill Devil Hills	Dare	4	R3	50
King District Water System, Inc.	Stokes	1	G23	30
Kings Grant	New Hanover	5	Ø8	44
Kings Mountain	Cleveland	3	C2	20
Kinston	Lenoir	5	P13	46

Table 2.--Public-water supply systems in North Carolina having 500 or more customers--Continued

Water-supply system	County	Regional report number	Map number on figure 2	Date on page
LaFayette Village-Sherwood Water System	Cumberland	5	M5	39
La Grange	Lenoir	5	P14	46
La Grange Water System	Cumberland	5	M6	39
Landis	Rowan	2	F17	26
Laurinburg	Scotland	2	N11	42
Lenoir	Caldwell	3	E8	22
Lexington	Davidson	1	G6	27
Liberty	Randolph	1	G17	29
Lillington	Harnett	2	M13	40
Lincolnton	Lincoln	2	F11	25
Loch Lomond-Devonwood Water System	Cumberland	5	M7	39
Long Beach	Brunswick	5	Ø1	43
Longview	Catawba	2	E10	23
Louisburg	Franklin	4	K2	36
Lumberton	Robeson	5	N5	41
Maiden	Catawba	2	E11	23
Marion	McDowell	3	C4	20
Mars Hill	Madison	3	B6	19
Marshville	Union	2	F23	26
Maxton	Robeson	5	N6	41
Mayodan-Madison	Rockingham	1	G21	29
Mebane	Alamance	1	G3	27
Mocksville	Davie	1	G9	28
Monroe	Union	2	F24	26
Montclair Water System	Cumberland	5	M8	39
Mooresville	Iredell	2	F9	25
Morehead City	Carteret	5	P4	45
Morganton	Burke	3	E2	22
Mount Airy	Surry	1	G25	30
Mount Gilead	Montgomery	2	H4	31
Mount Holly	Gaston	2	F7	24
Mount Olive	Wayne	5	P20	47
Mount Pleasant	Cabarrus	2	F2	24
Murfreesboro	Hertford	4	Q5	48
Murphy	Cherokee	3	A2	18

Table 2.--Public-water supply systems in North Carolina having 500 or more customers--Continued

Water-supply system	County	Regional report number	Map number on figure 2	Date on page
Nags Head	Dare	4	R4	50
Nashville	Nash	4	L7	38
New Bern	Craven	5	P8	45
Newport	Carteret	5	P5	45
Newton	Catawba	2	E12	23
North Davidson Water, Inc.	Davidson	1	G7	27
North Lenoir Water Association	Lenoir	5	P15	46
North Wilkesboro	Wilkes	3	D5	21
Norwood	Stanly	2	F22	26
Oak Hill Water Corporation	Burke	3	E3	22
Ocean Isle Beach	Brunswick	5	Ø2	43
Old Fort	McDowell	3	C5	20
Orange-Alamance Water System, Inc.	Orange	1	J12	34
Oxford	Granville	1	K5	36
Pembroke	Robeson	5	N7	41
Pilot Mountain	Surry	1	G26	30
Pinehurst	Moore	2	H8	31
Pinetops	Edgecombe	4	L1	37
Pittsboro	Chatham	1	J1	33
Plymouth	Washington	4	R7	51
Ponderosa Water System	Cumberland	5	M9	40

Table 2.--Public-water-supply systems in North Carolina having 500 or more customers--Continued

Water-supply system	County	Regional report number	Map number on figure 2	Data on page
Raeford	Hoke	2	N3	41
Raleigh	Wake	1	J17	35
Ramseur	Randolph	1	G18	29
Randleman	Randolph	1	G19	29
Reidsville	Rockingham	1	G22	29
Red Springs	Robeson	5	N8	42
Roanoke Rapids	Halifax	4	L4	37
Robbins	Moore	2	H9	31
Robersonville	Martin	4	Q6	48
Rockingham	Richmond	2	H12	32
Rocky Mount	Nash	4	L8	38
Roseboro	Sampson	5	M15	40
Rose Hill	Duplin	5	P9	46
Rowland	Robeson	5	N9	42
Roxboro	Person	1	K6	36
Rural Hall Sanitary District	Forsyth	1	G11	28
Ruth, Rutherfordton, Spindale	Rutherford	3	C8	20
Saint Pauls	Robeson	5	N10	42
Salisbury	Rowan	2	F18	26
Sanford	Lee	2	J9	34
Scotland Neck	Halifax	4	L5	37
Selma	Johnston	5	J7	33
Seymour Johnson Air Force Base	Wayne	5	P21	47
Shelby	Cleveland	3	C3	20
Siler City	Chatham	1	J2	33
Smithfield	Johnston	5	J8	33
Snow Hill	Greene	5	P12	46
Southern Pines	Moore	2	H10	31
Southport	Brunswick	5	Ø3	43
Sparta	Alleghany	3	D1	21
Spencer	Rowan	2	F19	26
Spindale, Ruth, Rutherfordton	Rutherford	3	C8	20
Spring Hope	Nash	4	L9	38
Spring Lake	Cumberland	5	M10	40
Spruce Pine	Mitchell	3	D2	21
Stanley	Gaston	2	F8	24
Statesville	Iredell	2	F10	25
Surf City	Pender	5	Ø12	44
Sylva	Jackson	3	A5	18

Table 2.--Public-water-supply systems in North Carolina having 500 or more customers--Continued

Water-supply system	County	Regional report number	Map number on figure 2	Data on page
Tabor City	Columbus	5	Ø5	43
Tarboro	Edgecombe	4	L2	37
Thomasville	Davidson	1	G8	27
Topsail Beach	Pender	5	Ø13	44
Triple Communities Water Corporation	Burke	3	E4	22
Troy	Montgomery	2	H5	31
Tryon	Polk	3	C6	20
Valdese	Burke	3	E5	22
Wadesboro	Anson	2	H2	31
Wake Forest	Wake	1	J18	35
Wallace	Duplin	5	P10	46
Warrenton	Warren	4	K8	36
Warsaw	Duplin	5	P11	46
Washington	Beaufort	4	Q2	48
Waynesville	Haywood	3	A4	18
Weaverville	Buncombe	3	B3	19
Weldon	Halifax	4	L6	37
Wendell	Wake	1	J19	35
White Lake	Bladen	5	N2	41
Whiteville	Columbus	5	Ø6	43
Wilkesboro	Wilkes	3	D6	21
Williamston	Martin	4	Q7	48
Wilmington	New Hanover	5	Ø9	44
Wilson	Wilson	4	L10	38
Windsor	Bertie	4	Q3	48
Winston-Salem	Forsyth	1	G12	28
Winterville	Pitt	4	Q13	49
Woodfin Sanitary Water and Sewer District	Buncombe	3	B4	19
Wrightsville Beach	New Hanover	5	Ø10	44
Yadkinville	Yadkin	1	G28	30
Yanceyville	Caswell	1	G4	27
Zebulon	Wake	1	J20	35

Table 3.--Water-supply system data; Region A

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- CHEROKEE COUNTY ---										
A 1	Andrews (M)	3,900	0.35	-	0.05	Beaver Creek: Andrews Reservoir	0.4	gravity	1.0	0.6	af	0.576	15	14	0.050	
A 2	Murphy (M)	2,500	.45	0.73	.15					.9						
						Hiwassee River	80	1.0	0		acdfi	1.0	33	16	.000	
						Marble Creek: Fain Mountain Res.	.24	gravity	1.8		af	.43	20	4	.05	
						--- CLAY COUNTY ---										
						--- GRAHAM COUNTY ---										
						--- HAYWOOD COUNTY ---										
A 3	Canton (M)[2]	9,000	1.12	1.82	.15					1.85						
						Pigeon River	25	2.0	0		acdfij	2.0	32	16	.040	
						Rough Creek	.2	.6	0		afj	.6	36	13	.01	
A 4	Waynesville (M)[3]	20,000	4.22	5.77	2.3		3.0			1.45	acdfhij	8.0				
						Rocky Branch		gravity	.3							
						Allen Creek		gravity	.5				22	11	.050	
						--- JACKSON COUNTY ---										
A 5	Sylva (M)	2,550	.20	.22	.10		.65	gravity	1.0	.375	af	.4	15	4	.050	
						East Fork Fisher Cr										
						West Fork Fisher Cr										
						Dills Creek										
						--- MACON COUNTY ---										
A 6	Franklin (M)	3,500	.39	-	.04	11 wells (bedrock)	-	[4].74	.953	-	none	-	99	59	.65	Mn 0.08
A 7	Highlands (M)	3,500	.35	.44	0					.36						
						Houston Branch: Houston Lake	.09	gravity	2		a		16	2	.10	
						Big Creek	.8	.9	0		acdfi	.5	87	16	.100	
						--- SWAIN COUNTY ---										
A 8	Bryson City (M)	3,000	0.22	0.45	0.08	Lands Creek	0.17	gravity	0.1	1.5	ad	1.5	18	8	0.000	

Table 3.--Water-supply system data; Region B

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- BUNCOMBE COUNTY ---										
B 1	Asheville (M)[5]	105,000	20.9	24.2	4.7					21.2						
						N Fork Swannanoa River:										
						Burnett Lake	24	gravity	5,500		ahij	([6])	20	6	0.080	Mn 0.360
						Beetree Creek:										
						Beetree Res.[7]	-	-	500		-	-	-	-	-	
B 2	Black Mountain (M)	5,000	.42	.48	0	springs	.3	gravity	25	.23	a	-	27	5	.110	
B 3	Weaverville (M)	3,500	.35	-	.03					1.1	ahi	([6])	44	11	.140	
						Eller Cove Creek:										
						Eller Cove Res.	.2	gravity	.6							
						Ox Creek	.1	gravity	.5							
B 4	Woodfin Sanitary Water and Sewer District	6,050	.70	.96	.25					1.0	ai	-	21	4	.070	
						Sugar Camp Fork	.4	gravity	30							
						Laurel Fork	.05	gravity	0							
						--- HENDERSON COUNTY ---										
B 5	Hendersonville(M)[8]	25,000	4.5	5.9	2.0					10.2						
						N Fork Mills River	2.7	gravity	3.5		a	-	17	4	.01	
						Bradley Creek	2.1	gravity	3		a	-	-	-	-	
						Mills River	15.3	3.6	0		acdf	3.0	50	9	.000	
						--- MADISON COUNTY ---										
B 6	Mars Hill (M)	3,300	.10	-	.01	Big Laurel Creek: Mars Hill Res.	.30	gravity	9	.71	ad	-	22	8	.080	
						--- TRANSYLVANIA COUNTY ---										
B 7	Brevard (M)	7,000	.8	1.5	0		.7	gravity	.27	2.0	adh	-	15	4	.630	
						King Creek										
						Brushy Creek										

Table 3.--Water-supply system data; Region C

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- CLEVELAND COUNTY ---										
C 1	Boiling Springs (M)[9]	2,500	0.15	-	0	3 wells (bedrock)	-	[4]0.6	0	0.48	ah	-	116	49	0.510	Mn 0.170
C 2	Kings Mountain (M)	8,600	2.68	5.64	1.5		([10])			3.8						
						Buffalo Creek:										
						John Henry Moss Reservoir		4.0	12,700		acdefij	4.0	124	17	.040	
						Davidson Creek:										
						Davidson Lake		[11]2.5	180		acdefij	2.0	72	20	.44	
						King Creek trib:										
						City Lake		-	96		-	-	-	-	-	
C 3	Shelby (M)	20,000	4.27	6.3	3.0	First Broad River: 3 off-river reservoirs	30	14.1	25	10.9	acdefij	10.0	52	24	.030	
						--- McDOWELL COUNTY ---										
C 4	Marion (M)[12]	10,000	2.2	-	1.0					1.32						
						Mackey Creek	.5	[13]1.0	0		a	-	20	4	.00	
						Clear Creek	.15	[13].4	0		a	-	16	2	.00	
						Buck Creek	4.1	1.6	0		acdfi	2.0	43	8	.010	
C 5	Old Fort (M)	1,200	.57	.75	.05	Jarretts Creek: Jarretts Cr. Res.	.8	gravity	10	0	a	-	24	5	.140	
						--- POLK COUNTY ---										
C 6	Tryon (M)	6,000	.58	1.0	.24		2.9	gravity		.75	acdfi	1.0	36	18	.080	
						Big Fall Creek:										
						Town Lake			10							
						Colt Creek										
						Fork Creek										
						Little Fall Creek										
						Vaughn Creek										
						--- RUTHERFORD COUNTY ---										
C 7	Forest City (M)[14]	8,000	1.80	2.50	0.8	Second Broad River	13	2.4	0	2.32	acdefij	[15]2.0	58	18	0.080	
C 8	Ruth[16] Rutherfordton Spindale (Duke Power Co.)	8,000	3.02	5.57	2.4					3.65	acdfij	7.0				
						Catheys Creek:										
						Duke Power Res.	10	5.7	113				42	16	.040	
						Hollands Creek[17]	.9	1.4	0							

Table 3.--Water-supply system data; Region D

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- ALLEGHANY COUNTY ---										
D 1	Sparta (M)	1,750	0.16	-	0.02	6 wells (bedrock)	-	[4]0.4	0.3	-	none	-	109	54	0.16	Mn 0.08
						--- ASHE COUNTY ---										
						--- AVERY COUNTY ---										
						--- MITCHELL COUNTY ---										
D 2	Spruce Pine (M)	3,000	.75	-	.15					1.7	af	-	18	8	.070	
						Beaver Creek:										
						Beaver Cr. Res.	0.8	gravity	12							
						Crystal Falls Cr:										
						Crystal Falls Cr. Res.	.3	.7	5							
						--- WATAUGA COUNTY ---										
D 3	Blowing Rock (M)		.21	0.44	0	Flat Top Branch	.4	[13]<1.0	20	.48	acdef	0.5	38	21	.010	
	summer	7,000														
	winter	1,000														
D 4	Boone (M)	8,700	1.3	-	.1					1.75						
						5 wells (bedrock)	-	.9	0		none	-	113	58	.37	
						Winkler Creek	.5	gravity	39		a	-	51	24	.10	
						--- WILKES COUNTY ---										
D 5	North Wilkesboro[18]	17,500	1.25	2.43	.15	Reddies River	21	6.0	50	1.77	acdfhij	3.0	51	27	.020	
D 6	Wilkesboro (M)[19]	2,000	2.74	4.24	2.3	Yadkin River	([20])	5.0	0	1.95	acdfi	5.0	66	9	.030	
						--- YANCEY COUNTY ---										
D 7	Burnsville (M)	2,100	0.50	-	0.15		0.6	gravity	0	2.28	acdfi	0.5	-	-	0.040	
						Bowlens Creek							16	4	.05	
						Bowlens Cr trib.										

Table 3.--Water-supply system data; Region E

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- ALEXANDER COUNTY ---										
E 1	Alexander County[21] Water Corporation (P)	4,500	0.71	-	0.5	South Yadkin River	3.8	1.0	0	1.5	acdi	1.0	37	9	0.118	
						--- BURKE COUNTY ---										
E 2	Morganton (M)	18,000	8.9	10.6	6.7					3.82						
	Also supplies: Brentwood Water Corporation					Catawba River	56	6.5	0		acdfij	6	108	11	0.050	
						Warrior Fork	7.9	4.2	0		acdfij	2	60	8	.04	
						Henry Fork: Henry Fork Res.	.9	[13]1.3	5.0		aj	1.3	[22]21	6	.00	
E 3	Oak Hill Water Corporation (P)	2,400	.12	-	0	6 wells (bedrock)	-	.34	0	.22	a	-	[23]64	30	.010	
E 4	Triple Communities Water Corp. (P)	3,000	.2	.23	0	3 wells (bedrock)	-	.32	0	.3	afij[24]	.32	96	34	.060	Mn 0.180
E 5	Valdese (M)[25]	4,700	3.0	6.25	2.6	Catawba River: Rhodhiss Lake	([26])	12.1	23,800	2.5	acdefij	8.0	51	18	.010	Mn .080
						--- CALDWELL COUNTY ---										
E 6	Baton Water[27] Association (P)	1,800	.15	-	0	3 wells (bedrock)	-	.29	0	.15	a	-	89	31	.33	Mn 1.7
E 7	Granite Falls (M)	2,800	.32	.53	.03	Catawba River: Rhodhiss Lake	([26])	.6	23.8	.64	acdfhi	.6	55	22	.010	
E 8	Lenoir (M)[28]	22,000	3.21	4.7	1.2					3.15						
						Catawba River: Rhodhiss Lake	([26])	4.5	23.8		acefhij	3.0	66	40	.020	
						Zacks Fork Creek	1.0	1.8	0		acefhij	1.5	66	32	.00	

Table 3.--Water-supply system data; Region E--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- CATAWBA COUNTY---										
E 9	Hickory (M)[29]	30,000	4.5	5.25	2.8	Catawba River: Lake Hickory	([26])	15.2	41,500	2.75	acdfij	7.35	56	25	.035	Mn 0.058
E10	Longview (M)	3,800	1.0	1.26	.6	Catawba River: Lake Hickory	([26])	2.0	41,500	1.15	acdfhi	2.0	47	19	.049	
E11	Maiden (M)	2,400	.86	1.28	.6	Maiden Creek: Maiden Lake	2.7	2.0	50	1.36	acdefi	2.0	36	8	.022	
E12	Newton (M)[30]	9,000	2.1	2.9	.8	Jacob Fork: 1 off-river res.	[31]15.5	3.0	25	2.0	acdefij	3.0	53	11	.000	

Table 3.--Water-supply system data; Region F

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						---CABARRUS COUNTY ---										
F 1	Concord (M)[32]	26,000	6.2	8.45	3.6			16.0		5.6	acdefhijk	12.0	95	32	0.000	
						Chambers Branch: Lake Concord	([33])		350							
						Coddle Creek	2.2									
						Cold Water Creek: Lake Fisher	([33])		1,100							
F 2	Mount Pleasant (M)	1,600	.3	-	.25	Dutch Buffalo Cr.	.4	.7	0	.44	acdfi	.34	146	54	.000	
						--- GASTON COUNTY ---										
F 3	Belmont (Belmont Converting Co.)	7,500	2.67	3.68	1.3	Catawba River: headwaters of Lake Wylie	[34]51.7	10.4	([35])	2.5	acefhij	6.5	47	16	.052	
F 4	Bessemer City (M)	5,800[36]	1.06	1.28	0.4		2.5		100	.4	abcdfi[24]	1.0	78	18	.093	
						Long Creek and Long Creek trib:		1.7								
						City Lake[37]		2.0								
F 5	Cherryville (M)	5,500	.81	1.36	.5	Indian Creek: off-river storage	5.2	1.5	17.5	.89	acefhi	1.5	58	17	.008	
F 6	Gastonia (M)[38]	75,000	14.9	19.9	6.0		60			9.0	acdefhij	21	68	32	.000	
						S Fork Catawba R. and Long Creek:		14 14								
						2 off-river reservoirs: Lake Rankin		28	280							
						and unnamed		-	60							
						--- GASTON COUNTY--Continued ---										
F 7	Mount Holly (M) Also supplies: Catawba Heights	7,500	1.33	1.92	.3	Catawba River: headwaters of Lake Wylie	[34]51.7	2.0	([35])	1.03	acefi	2.0	279	14	.022	pH 10.2
F 8	Stanley (M)	2,350	.8	-	.6	Hoyles Creek	1.5	.8	1.5	1.32	acfhi	.8	78	17	.037	

Table 3.--Water-supply system data, Region F--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- IREDELL COUNTY ---										
F 9	Mooresville (M)	9,000	3.0	3.7	2.1	Catawba River: Lake Norman	(25)	4.0	356,000	2.6	abcdfhij	6.0	70	16	0.000	
						Reservoir at plant			1							
F10	Statesville (M)	27,000	5.5	6.0	2.0					5	acdfhij	15	45	14	.000	
	Also supplies: Barium Spring Community					S Yadkin River	13.5	7.3	0							
						Fourth Creek	2.0	3.4	0							
						--- LINCOLN COUNTY ---										
F11	Lincolnton (M)	9,000	2.39	-	1.8		39			1.72	acdefi		71	24	.000	
						S Fork Catawba River		2.0	0			2.0				
						Walker Branch		1.0	7			1.0				
						--- MECKLENBURG COUNTY ---										
F12	Charlotte (M)	280,000	33.8	48.2	11.3		(26)	90		37.75	acdefijk	61	45	28	.000	
	Also supplies: Matthews Pineville					Catawba River: Mountain Island L			18,700							
						2 off-river res.			100							
F13	Davidson (M)[39]	4,400	.44	.71	.15	Catawba River: Lake Norman	(26)	1.0	356,000	.56	acdfij	.75	63	31	.018	
F14	Huntersville (M)[40]	2,000	.13	.18	0	Catawba River: Lake Norman	(26)	1.0	356,000	.32	acdfi	.5	49	24	.000	
						--- ROWAN COUNTY ---										
F15	China Grove (M)	2,500	.13	-	0	5 wells (bedrock)	-	[4].3	0	.075	none	-	311	207	.15	
F16	Kannapolis (Cannon Mills)	28,400	12.4	17.6	8.1				[41]	15.7	acefhi	15.0	78	26	.000	
	Also supplies: Kannapolis Sanitary District					Irish Buffalo Cr: Lake Kannapolis	(33)	gravity	1,350							
						Coddle Creek[42]	1.6	3.0	0							
						Second Creek[42]	4.7	7.2	0							

Table 3.--Water-supply system data; Region F--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- ROWAN COUNTY--Continued ---										
F17	Landis (M)	3,150	0.88	1.23	0.65		1.2			1.49	acdefhij	1.0	63	14	0.037	
						Grants Creek:										
						Lake Wright		3.0	36.8							
						Flat Rock Branch:										
						Lake Corriher		flow	47.2							
						reservoir[43]		2.2	14.2							
F18	Salisbury (M)[44]	33,500	7.31	9.09	4.0	Yadkin River:	400	12.0		5.0	abcdefhij	12.0	65	28	0.000	
						2 off-river res.			28							
F19	Spencer (M)	3,100	.4	-	0					.18						
						4 wells (bedrock)	-	[45].1	0		none	-	243	168	.21	NO_3 14
						City of Salisbury	-									
						--- STANLY COUNTY ---										
F20	Albemarle (M)	12,000	5.87	8.32	4.1	Yadkin River:	([46])	8.0		5.4	acdfhij	8.0	61	21	.000	
	Also supplies:					Badin Lake			([47])							
	North Stanley Water					Plant reservoir			30							
	Organization															
F21	Badin	2,200	1.04	1.5	.8	Yadkin River:	([46])	2.7	78.5	1.5	abcdfijk	1.5	71	28	.000	
	(Aluminum Co.					Badin Lake										
	of America)															
F22	Norwood (M)	2,600	.28	.37	.05	Pee Dee River:	([46])	.6	54,400	.29	acdfi	.5	90	57	.129	
						Lake Tillery										
						--- UNION COUNTY ---										
F23	Marshville (M)	2,500	.6	-	.2					.7						
						Lanes Creek:										
						2 lakes	1.1	.5	60		acdefhij	.5	102	52	.733	
						Town of Wingate and										
						Anson County[48]	.33									
F24	Monroe (M)	16,000	3.2	3.8	2.5		6.5	5.0		3.15	acdefhij[24]	3.0	98	58	.119	
	Also supplies:					Richardson Creek:										
	Sun Valley Water					Lake Lee			250							
	Association					Lake Monroe			475							
	Wingate					1 well (bedrock			0							

Table 3.--Water-supply system data; Region G

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- ALAMANCE COUNTY ---										
G 1	Burlington (M)	37,000	9.8	14.7	5.5		25.0	32		8.4	acdefhi	16.0	82	47	0.017	
	Also supplies: Haw River Sanitary District					Stony Creek:										
						Stony Creek Lake			3,200							
						Lake Burlington			400							
						Haw River[49]			0							
G 2	Graham (M)	10,000	1.6	2.0	.2	Back Creek:	6.1	3.2		1.18	acdefhi	2.0	104	66	.034	
	Also supplies: Green Level Community					Graham City Lake			50							
						Quaker Creek Res.			500							
G 3	Mebane (M)	2,800	.60	.82	.15	Mill Creek: Lake Michael	([33])	1.3	217	.62	acdfhi	1.0	69	40	.017	Mn 0.080
						--- CASWELL COUNTY ---										
G 4	Yanceyville (Yanceyville Sanitary District)	1,500	.18	.20	.03					.34	acdefhi	.50				
						Fullers Creek:							114	65	.069	
						Yanceyville Res.	.16	.50	10							
						County Line Cr.[50]	.8	.8	0							
						--- DAVIDSON COUNTY ---										
G 5	Denton (M)	1,075	.23	.33	.08	Yadkin River	465	1.0	0	.6	acdefhi	1.0	78	22	.017	
G 6	Lexington (M)	25,000	4.10	5.57	2.0					5.0	abcdefhij	9.0				
						Abbotts Creek: Lexington-Thomasville Res.[51]	16	gravity	1,800				94	50	.034	
						Leonards Creek: Old City Res.	1.4	5.0	165							
G 7	North Davidson Water, Inc. (P)	19,200	.70	1.15	0	Yadkin River: off-river reservoir	380	2.1	10	2.75	acdeti	2.0	79	41	.034	
G 8	Thomasville (M)	18,500	2.41	3.24	.85	Abbotts Creek: Lexington-Thomasville Res.[51]	16	3.3	1,800	2.5	acdefij	3.0	88	48	.052	

Table 3.--Water-supply system data; Region G--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- DAVIE COUNTY ---										
, G 9	Mocksville (M)	4,500	0.40	0.70	0.12			2.5		0.45	acfhij	2.0				
						Hunting Creek	31						78	17	0.027	
						Bear Creek:							118	38	.01	
						Mocksville Res.[52]			100							
						--- FORSYTH COUNTY ---										
G10	Kernersville (M)	5,000	.80	1.16	.53			4.1		.9	acdfi	1.5	77	50	.00	
						Belews Creek:										
						New Town Lake	([33])		125				-	-	.014	
						Harmon Mill Creek:										
						Old Town Lake	.2		10							
G11	Rural Hall Sanitary District (P)	2,300	.13	-	.10	3 wells (bedrock)	-	.39	.3	-	none	-	132	84	.13	
G12	Winston-Salem (M) Also Supplies:	140,000	32.3	32.8	17.1					21.0	acdefhij					
	Forsyth County Water System					Yadkin River:	340	27	([53])							
						2 off-river res.			30			24	-	-	.000	
						Salem Creek:										
						Salem Lake	11.7	[13]17	1,160			20	69	34	.017	
						--- GUILFORD COUNTY ---										
G13	Gibsonville (M)	2,500	.3	-	.2	6 wells (bedrock)	-	[4].7	0	.35	ah[54]	([55])	264	191	.42	Mn 0.12
G14	Greensboro (M)	160,000	21.0	28.5	3.5		37.4			31.2	acdefhij					
						Reedy Fork:										
						Lake Townsend		40	6,500			20				
						Reedy Fork and Horsepen Creek:										
						Lake Brandt		46	2,200			24	96	65	.010	pH 9.6
						Brush Creek:										
						Lake Higgins[56]			800							

Table 3.--Water-supply system data; Region G--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- GUILFORD COUNTY--Continued ---										
G15	High Point (M)	61,000	8.40	11.2	2.9		30	16.0		13.0	acdefhij	12.0	77	44	0.010	
						Deep River:										
						High Point Municipal Lake			1,250							
						W Fork Deep River: new reservoir[57]			3,000							
						--- RANDOLPH COUNTY ---										
G16	Asheboro (M)	18,000	2.64	3.30	1.1		(33)	9.0		4.6	acdefhij	3.0	63	36	.017	
						Back Creek:										
						Lake Lucas			1,250							
						Back Creek tribs: Lake Ross and Lake McCrary and Lake Bunch			160							
G17	Liberty (M)	2,250	.34	.37	.15	7 wells (bedrock)	-	4.86	.28	-	none	-	131	80	.08	Mn 0.08
G18	Ramseur (M)	1,500	.28	.35	.19											
						Sandy Creek Deep River[49]	.6	1.4	0	.8	acdfhi	.50	63	29	.117	
G19	Randleman (M)	3,000	.29	.58	.15	Polecat Creek: Randleman City Lake	.7	.65	40	.4	acdfi	.50	93	52	.017	
						--- ROCKINGHAM COUNTY ---										
G20	Eden[58] (Municipal and Fieldcrest Mills, Inc.)	20,000	3.78	5.65	-					1.72						
						Dan River	116	3.7	9.0		acdfj	2.0	73	18	.017	
						Smith River	77	8.6	0		acefij	4.0	72	22	.017	
G21	Mayodan - Madison (Washington Mills Company)[59]	5,700	1.0	-	.5	Mayo River	46	2.5	0	1.0	acdfi	1.0	82	20	.014	
G22	Reidsville (M)	15,000	1.75	2.73	.8			7.0		2.48	acdefhij	3.0	80	40	.028	
						Troublesome Cr:	2.7									
						Lake Hunt[60]	2.2		700							

Table 3.--Water-supply system data; Region G--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- STOKES COUNTY ---										
G23	King District[61] Water Systems, Inc.	6,300	0.20	-	0	Yadkin River	285	1.5	0	1.05	acdfi	1.5	57	24	0.279	
						--- SURRY COUNTY ---										
G24	Elkin (M)	3,000	.63	1.27	.15	Elkin River: off-river res.	13.5	6.0	62	2.42	acdefij	3.0	27	10	.000	
G25	Mount Airy (M)	7,000	2.73	3.7	2.0		18.0			1.52	acdfhij					
						Lovills Creek:		5.0	8			2.5	55	24	.048	
						Stewarts Creek		6.0	25			6.0				
G26	Pilot Mountain (M)	1,600	.75	1.0	.55					.8	abcfi	1.5	56	28	.000	
						Toms Creek: off-river res.	[31] 2.7	3.0	70							
						1 well (bedrock)[17]		[4] .25					110	60	1.0	Mn 0.17
						--- YADKIN COUNTY ---										
G27	Jonesville (M)	2,200	.22	.49	.04	Yadkin River	175	1.0	0	.84	acdefi	.5	91	55	.017	
G28	Yadkinville (M)	3,000	.12	.14	.003	8 wells (bedrock)[62]	-	.72	.1	-	none	-	126	72	1.5	Mn 0.10

Table 3.--Water-supply system data; Region H

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- ANSON COUNTY ---										
H 1	Anson County[63] Water System		1.34	2.38	1.0	Pee Dee River: Blewett Falls Lake	([64])	3.7	31,600	1.5	acdefhij	4.0	87	38	0.000	
H 2	Wadesboro (M)	5,000	1.35	-	.9			[65] 1.7		1.24						
						N. Fork Jones Cr: City Pond	1.5	1.25	120		acefhij	1.25	59	32	.000	
						Anson County Water System	([66])									
						--- MONTGOMERY COUNTY ---										
H 3	Biscoe[67] (Montgomery County)	1,600	.4	1.46	.1	Little River: off-river res.	1.3	1.4	10	.81	acdefi	1.5	92	20	.000	
H 4	Mount Gilead (Montgomery County)	1,400	.5	-	.2	Pee Dee River: Lake Tillery	([46])	.5	54,400	.65	acdefi	.48	157	20	.000	
H 5	Troy (Montgomery County)	3,000	.5	.76	.1	Densons Creek:	.8	.75		.85	acdefi	.75	64	12	.000	
						City Reservoir			40							
						Plant reservoir			1.5							
						--- MOORE COUNTY ---										
H 6	Aberdeen (M)	3,300	.3	-	.06	7 wells (Cretaceous sands)	-	[4]1.9	0	.5	aj	([55])	6	21	.12	
H 7	Carthage (M)	1,200	.15	.18	.03					1.4	acdefi	.35				
						Springs:										
						Town Pond No. 1	1.8	1.0	22				65	41	.000	
						Nicks Creek [17]		1.0								
H 8	Pinehurst (Pinehurst, Inc.)	1,200	36	-	0					.92						
						Rattlesnake Creek	.5	gravity	0		afhi	unkpown	12	7	.06	
						2 wells (Cretaceous sands)	-	.4	0		ah	([55])	[22] 13	3	.000	
H 9	Robbins (M)	1,100	.49	1.01	.20	Bear Creek	1.7	2.0	20	.74	acdfi	1.0	70	35	.000	
H10	Southern Pines (M)	9,000	1.06	1.98	.15	Mill Creek: Southern Pines Lake	([33])	2.0	175	1.3	acdefhij	2.0	27	18	.000	

Table 3.--Water-supply system data; Region H--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- RICHMOND COUNTY ---										
H11	Hamlet (M)[68]	10,000	1.8	2.56	0.6	Marks Creek: 2 lakes	([33])	3.5	141	0.75	acdefhi	3.0	48	6	0.000	
H12	Rockingham (M)	7,200	1.3	2.1 [69]	1.3		([70])	3.5		1.18	acdfhij	2.5	-	-	.000	
						Falling Creek: City Lake			5				63	38	.03	
						Hitchcock Creek: Roberdell Lake			?							

Table 3.--Water-supply system data; Region J

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- CHATHAM COUNTY ---										
J 1	Pittsboro (M)	1,550	0.90	1.06	0.25					0.39	acdfh					
						Robeson Creek:										
						2 reservoirs	0.30	0.75	20			0.50	121	31	0.007	Mn 0.200
						Haw River	15	.75	0			.25	146	31	.000	
J 2	Siler City (M)	5,000	1.9	2.48	.6	Rocky River:	1.9	2.5		1.4	acdefhi	2.5	64	38	.000	
						Rocky River Lakes			160							
									50							
						Lacey Creek Lake			60							
						Aaron Fox Lake			20							
						--- DURHAM COUNTY ---										
J 3	Durham (M)[71]	100,000	13.1	18.9	4.5	Flat River:	30.0	36.0	4,600	9.35	abcdefij	22.0	88	51	.000	
						Lake Michie										
						--- JOHNSTON COUNTY ---										
J 4	Benson (M)	2,400	.3	.4	.01		-	.55	0	.4	abdgh	([72])	166	64	.03	Mn 0.10
						6 wells (Cretaceous sands)										
						3 wells (bedrock)										
J 5	Clayton (M)	4,300	.45	-	.05	16 wells (bedrock)	-	.72	0	.95	a[73]	([74])	[22] 167	110	.00	NO_3 20
J 6	Kenly (M)	1,400	.10	.18	.01	5 wells (bedrock)	-	.63	0	.3	afi[75]	([74])	[22] 104	54	.03	
J 7	Selma (M)	4,200	.4	-	.01				0	.2						
						4 wells (bedrock)		0.8			afgj	1.0	182	77	.01	Mn 0.80;
						Smithfield, N.C.	[76] 0.1-0.2									
J 8	Smithfield (M)[77]	15,000[78]	1.1	[79] 1.8	.27	Neuse River:	40	8.0	23	1.65	acdfhij	4.0	112	34	05	
						off-river res.										

Table 3.--Water-supply system data; Region J--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- LEE COUNTY ---										
J 9	Sanford (M)	12,500	2.63	3.72	1.1	Cape Fear River	17	6.0	0	3.82	acdfhij	6.0	123	29	0.031	
						--- ORANGE COUNTY ---										
J10	Chapel Hill (University of North Carolina) Also supplies Carrboro	30,000	4.2	6.68	0	Morgan Creek, Neville Creek, and Price Creek: University Lake City of Durham	6.0 [80] 2.0	6.7	730	2.75	acdefhijk	5.0	80	41	.059	Mn 0.120
J11	Hillsborough (M)	3,500	.62	.76	.40	Eno River: Ben Johnson Res.	1.6	1.3	30	.4	acdefhij	.50	86	53	.007	Mn 0.100
J12	Orange-Alamance [81] Water Systems, Inc. (P)	3,000	.20	.82	0	Eno River: Corporation Lake	1.3	2.0	30	.9	acdefhi	1.0	99	26	.017	
						--- WAKE COUNTY ---										
J13	Apex (M)	2,000	.28	.62	.15	Williams Creek: Williams Cr. Res.	([33])	1.4	90	.6	acdefhij	.72	82	46	.000	
J14	Cary (M)	7,430	.64	-	.007	City of Raleigh 1 well (bedrock)	? -	- .17	0	.9	none	-	[82] 175	[82] 96	.000	
J15	Fuquay-Varina (M)	3,500	.33	.46	.03	8 wells (bedrock)[83]	-	[83] 1.6	.06	.3	abfg	.58	154	66	1.2	Mn 0.5
J16	Garner (M)	8,000	.4	-	.01	12 wells (bedrock) City of Raleigh	- ?	.86	.62	-	none	-	188	105	.46	Mn 0.08

Table 3.--Water-supply system data; Region J--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						---WAKE COUNTY--CONTINUED---										
J17	Raleigh (M)[84]	130,000	18.7	26.6	2.0			31		23.4	acfhij	[85]13				
						Walnut Creek:	[85]21.7									
						Lake Johnson			740							
						Lake Raleigh			100							
						Swift Creek:										
						Lake Wheeler			2,000							
						Lake Benson			1,000							
						Neuse River: off-river res.	([86])					25	100	22	0.040	Cd<0.025;
J18	Wake Forest (M)	2,500	.38	.75	.10	Smith Creek: Wake Forest Lake	.9	3.0	200	.92	acdf	2.0	79	17	.000	
J19	Wendell (M)	2,200	.19	.30	.02			1.0		.60						
						Lake Johnson[87]	([88])		200		acf	.30	101	51	.000	
						1 well (bedrock)		[4].04			none	-			.000	
J20	Zebulon (M)	2,300	.30	-	.02	Little River	.6	1.4	0	.58	acefi	1.5	89	49	.000	

Table 3.--Water-supply system data; Region K

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- FRANKLIN COUNTY ---										
K 1	Franklinton (M)	4,000	0.42	0.52	0.14			1.0		0.4	acdefi	1.0				
						Taylors Creek:							67	29	0.000	
						Old Franklin Lake	0.2		6.0							
						Cedar Creek:										
						New Franklin Lake	.6		6.0							
K 2	Louisburg (M)	3,100	.50	.89	.27	Tar River	7.0	1.0	0	1.07	acdfi	1.0	81	42	.010	
						--- GRANVILLE COUNTY ---										
K 3	Butner (N.C. Dept. of Mental Health)	5,000	1.8	2.66	1.2	Knap of Reeds Cr: Lake Butner	13.8	8.0	2.2	3.0	abcfhij	4.0	73	45	.025	
K 4	Creedmoor (M)	2,200	.25	.30	.04	Ledge Creek: Rogers Lake	.8	.58	120	.25	acdefi	.35	142	86	.034	
K 5	Oxford (M)	8,100	2.0	2.65	1.5		2.0			1.4	acdefhi	3.2	72	24	.007	
						Tar River and Hachers Run:		[89] 1.5								
						Lake Devin		2.7	413							
						--- PERSON COUNTY ---										
K 6	Roxboro (M)	10,000	3.5	5.6	2.6			5.8		3.5	acdfhij	4.5	–	–	.000	
						Satterfield Creek:							68	16	.02	
						Roxboro Lake	([33])		800							
						Hyco River:										
						Hyco Lake		[90] 2.0								
						--- VANCE COUNTY ---										
K 7	Henderson (M)	20,000	3.0	3.45	1.0	Sandy Creek:	3.6	8.0		1.67	abcdefhi	3.0	99	14	.010	
						Ayscue Pond			50							
						Faulkner Pond			5							
						Foxes Pond			42.5							
						Rowlands Pond			20.7							
						Southerlands Pond			13							
						--- WARREN COUNTY ---										
K 8	Warrenton (M)	1,650	0.28	0.58	0.005	Fishing Creek	0.75	0.6	0	0.55	acdefhi	0.5	105	22	0.000	

Table 3.--Water-supply system data; Region L

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- EDGECOMBE COUNTY ---										
L 1	Pinetops (M)	1,500	0.12	0.15	0.02	2 wells (Cretaceous sands)	-	0.56	0	0.28	ah	(74)	**143**	73	.060	
L 2	Tarboro (M)	10,000	1.29	2.18	.50	Tar River	35	3.0	0	2.0	acdfij	3.0	**106**	26	.010	
						--- HALIFAX COUNTY ---										
L 3	Enfield (M)	3,100	.4	.5	.08	Fishing Creek	17	1.6	0	.62	acdfi	.5	**87**	46	.010	
L 4	Roanoke Rapids (Roanoke Rapids Sanitary District)	16,000	5.5	8.3	4.5	Roanoke River: Roanoke Rapids Lake	(26)	12	25,000	3.75	acdefij	12.0	**89**	26	.020	
L 5	Scotland Neck (M)	3,000	.38	.45	.02	9 wells (shallow and Cretaceous sands)	-	.68		0.71	abfhi	1.44	**232**	40	.000	
						2 wells (Cretaceous sands)							**34**	993	.040	
L 6	Weldon (M)	3,200	.3	.35	.04	Roanoke River	(31)	1.6	.1	.63	acdefi	1.0	**112**	28	.010	

Table 3.--Water-supply system data; Region L--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- NASH COUNTY ---										
L 7	Nashville (M)	2,500	.18	-	0	6 wells (bedrock)	-	.83	.11	.3	a	(g2)	114	66	.010	
L 8	Rocky Mount (M)	40,000	9.98	15.6	5.0					7.5						
						Tar River:		11	0		acdefhij	11	76	36	.020	
						Tar River Reservoir	37.0	24	4,300		acdefhij	12	88	16	.010	
L 9	Spring Hope (M)	1,400	.08	-	.005	4 wells (bedrock)	-	.63	.3	-	none	-	124	75	.17	Mn 0.110
						--- NORTHAMPTON COUNTY ---										
						--- WILSON COUNTY ---										
L10	Wilson (M)	32,000	4.7	7.6	1.5					5.0						
						Contentnea Creek:										
						Buckhorn Res.	(g3)		1,000							
						Wiggins Mill Res.	g4 3.2	6.7	525		acdefij	4	60	30	0.020	Mn 0.230
						Toisnot Swamp:	5.2	5.2			acdefijk	6	58	33	.02	
						Lake Toisnot			35							
						Lake Wilson			119							

Table 3.--Water-supply system data; Region M

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- CUMBERLAND COUNTY ---										
M 1	Brookwood Water System (P)	7,000	0.4	-	0	16 wells (Cretaceous sands) 2 wells (bedrock)	-	3.12	0	.66	f[95]	(74)	96 29	2	0.07	pH 4.6
M 2	Cottonade-Summer Hill Water System (LaFayette Water Corporation)	3,700	.29	-	0	14 wells (Cretaceous sands)	-	2.0	0	.25	i	(74)	19	1	.00	Cu 1.2 pH 4.9
M 3	Fayetteville (M) Also supplies: Hope Mills	70,000	10.8	14.9	2.5					11.0						
						Cape Fear River	96	18.0	0		acdefhij	8	96	11	.04	
						Little Cross Creek:	5.6	22.0			acdefhij	12	62	34	.02	
						Boonie Doone Lake			75							
						Kornbow Lake			150							
						Mintz Pond			25							
						Glenville Lake			125							
						Cross Creek [49]	3.1		0		(97)		22 27	5	.65	
M 4	Fort Bragg (F)	46,995	7.3	-	(98)	Little River	20	11.0	40	5.1	acdfhijk	11.8	47	24	.07	
M 5	LaFayette Village Sherwood Water System (LaFayette Water Corporation)	[99] 12,800	.76	-	0	17 wells (Cretaceous sands)	-	2.7	0	.62	i	(74)	111	9	.00	
						--- CUMBERLAND COUNTY--Continued ---										
M 6	LaGrange Water System (P)	[100] 3,600	.28	-	0	12 wells (Cretaceous sands)	-	.73	0	.21	ai	(74)	22 23	1	.06	
M 7	Loch Lomond - Devonwood Water System (Montclair Water Corporation)	[101] 2,600	.14	-	0	6 wells (Cretaceous sands) 5 wells (bedrock)	-	.66	.32	-	none	-	27	1	.05	
M 8	Montclair Water System (P)	[102] 4,600	.25	-	0	5 wells (Cretaceous sands)	-	.8	0	.53	i[103]	(74)	96 49	5	.04	

Table 3.--Water-supply system data; Region M--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						---CUMBERLAND COUNTY--Continued---										
M 9	Ponderosa Water System (Cumberland Water Company)	5,800	0.48	-	0	10 wells (Cretaceous sands)	-	1.5	0	0.6	i	(74)	24	1	0.01	pH 4.9
M10	Spring Lake (M)	11,000	.6	-	0	6 wells (Cretaceous sands)	-	1.3	0	.78	hi[104]	(74)	97	12	.01	
						--- HARNETT COUNTY ---										
M11	Angier (M)	1,500	.15	-	.005	4 wells (bedrock)	-	.33	0	.85	abdf	.22	59	28	.326	Mn 0.070
M12	Dunn (M)[105]	13,500	1.05	2.58	.30	Cape Fear River	20	2	4	3.0	acdefhij	4.0	138	48	.000	F 2.8
M13	Lillington (M)[106]	2,150	.22	.36	0	Cape Fear River	19	1.15	0	1.08	acdefhij	.5	171	34	.155	
						--- SAMPSON COUNTY ---										
M14	Clinton (M)	8,600	1.5	-	1.0	5 wells (Cretaceous sands)	-	3.0	0	.95	aj	(74)	168	70	.26	Mn 0.10
M15	Roseboro (M)	1,400	.23	-	.02	3 wells (Cretaceous sands)	-	1.2	0	.20	abf	.44	22 372	12	.77	

Table 3.--Water-supply system data; Region N

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- BLADEN COUNTY ---										
N 1	Elizabethtown (M)	3,800	0.41	-	0.15	2 wells (Cretaceous sands)	-	1.16	0	0.38	abef	(55)	263	12	0.12	
	White Lake (M)			1.4	0	2 wells (Cretaceous sands)	-	1.6	0	.08	a	(74)	[22]464	58	.10	
	summer	3,000	.12													
	winter	350	.04	-												
						--- HOKE COUNTY ---										
N 3	Raeford (M)	3,000	2.04	-	1.5	11 wells (Cretaceous sands)	-	[4]2.9	0	.80	abhi[107]	0.5	[108]28	10	[109].083	
						--- ROBESON COUNTY ---										
N 4	Fairmont (M)	3,100	.1	-	.015	2 wells (Cretaceous sands)	-	.3	0	.36	abfj	?	[22]110	17	.31	
N 5	Lumberton (M)	18,500	3.5	5.2	2.0			10.0		6.05	acdfhij	10.0				
						Lumber River	47		0				39	15	.00	
						1 well[49] (Cretaceous sands)		[4]1.0					[108]160	96	-	
N 6	Maxton (M)	2,000	.18	1.0	.001	2 wells (Cretaceous sands)	-	.7	.2	.1	bi[110]	1.0	52	8	.18	
N 7	Pembroke (M)	2,900	.28	.4	.003	3 wells (Cretaceous sands)	-	1.7	0	.52	abfgi	.50	[22]37	15	.75	

Table 3.--Water-supply system data; Region N--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- ROBESON COUNTY--Continued ---										
N 8	Red Springs (M)	3,300	.6	.8	.15	4 wells (Cretaceous sands)	-	2.6	0	.475	abcdfij	1.0	64	37[111]	.42	
N 9	Rowland (M)	1,400	.18	.3	.003	2 wells (Cretaceous sands)	-	1.15	0	.30	abfhi	? [22]	100	65	3.5	Mn 0.070
N10	Saint Pauls (M)	2,500	.3	.4	.07	3 wells (Cretaceous sands)	-	1.3	0	.275	bfij[110]	.5	49	15	.04	
						--- SCOTLAND COUNTY ---										
N11	Laurinburg	10,200	1.47	2.35	0.7				0	0.8						
	Also supplies:					Jordon Creek	1.7	1.0			acdefhij	1.0	-	-	-	
	East Laurinburg					4 wells (Cretaceous sands)	-	2.6			abhij	([55])	80	42	0.02	

Table 3.--Water-supply system data; Region Ø

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- BRUNSWICK COUNTY ---										
Ø 1	Long Beach (M)	5,000	0.7	-	0	4 wells (Castle Hayne limestone)	-	[65]0.96	0	0.03	ai	[55]	[108]518	280	2.7	
Ø 2	Ocean Isle Beach (M) summer winter	3,000 200	.15 .02	0.2	0	4 wells (surficial sands)	-	[65].3	0	.2	a	[55]	[112]484	210	.02	
Ø 3	Southport (M)	3,500	.25	.3	.01	3 wells (Castle Hayne limestone)	-	1.15	0	.25	a	[55]	205	160	.36	
						--- COLUMBUS COUNTY ---										
Ø 4	Chadbourn (M)	2,600	.5	.75	.31	3 wells (Cretaceous sands)	-	1.4	.06	0	none	-	214	87	.02	
Ø 5	Tabor City (M)	2,500	.25	-	.04	3 wells (Cretaceous sands)	-	1.9	.3	0	none	-	291	2	.05	
Ø 6	Whiteville (M)	5,500	.23	.5	.04	4 wells (Cretaceous sands)	-	[65]2.24	.1	.6	a	[74]	253	110	.02	

Table 3.--Water-supply system data; Region Ø

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- NEW HANOVER COUNTY ---										
Ø 7	Carolina Beach (M)	5,000	.4	1.0	0	6 wells (Castle Hayne limestone)	-	1.3	1.0	.1	a	(113)	310	200	.21	
Ø 8	Kings Grant (P)	2,800	.22	-	0	3 wells (Castle Hayne limestone and Cretaceous sands)	-	1.1	0	.21	a	(74)	271	200	.00	
Ø 9	Wilmington (M)	47,000	8.5	12.7	2.0	Cape Fear River: Kings Bluff intake, Toomers Cr. intake[49] N.E. Cape Fear River[49]	180	12.0	0	20.5	acdefhij	12.0	97	38	.08	
Ø10	Wrightsville Beach (M)	3,800	.5	.75	0	8 wells (Castle Hayne limestone)	-	1.6	0	.38	a	(55)	499	180	.03	
						--- PENDER COUNTY ---										
Ø11	Burgaw (M)	3,000	0.23	-	0	3 wells (Cretaceous sands)	-	1.1	0.175	-	none	-	407	8	0.02	
Ø12	Surf City (M)[114]	3,000	.25	0.5	0	2 wells (Castle Hayne limestone)	-	1.1	0	0.2	a	(74)	[22]194	150	.29	
Ø13	Topsail Beach (M) summer / winter	5,000 / 150	.07	-	0	Purchased from Surf City(115)	-	-	-	.18	ab	?	-	-	-	

Table 3.--Water-supply system data; Region P

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- CARTERET COUNTY ---										
P 1	Atlantic Beach (S. A. Horton)	2,000	?	?	0	8 wells (Castle Hayne limestone)	-	-	0.011	-	none	-	371	290	0.17	
P 2	Beaufort (M)	3,500	0.30	-		2 wells (Castle Hayne limestone)	-	1.1	.01	0.3	ab	1.4	[22]366	280	.12	
P 3	Bogue Banks Water Association (P)			0.07	0	2 wells (Castle Hayne limestone)	-	[65].63	0	.12	a	([55])	[22]289	230	.30	
	summer	5,000	.22													
	winter	?	.10													
P 4	Morehead City (M)	5,400	.68	.91	.15	2 wells (Castle Hayne limestone)	-	1.3	0	.18	a	([74])	335	-	.06	
P 5	Newport (M)	1,900	.16	.31	.004	3 wells (Castle Hayne limestone)	-	.56	0	.1	a[110]	([55])	[22]294	260	.29	
						--- CRAVEN COUNTY ---										
P 6	Cherry Point M.C.A.S. (F)	13,000	2.8	-	([98])	23 wells (Castle Hayne limestone)	-	6.6	0	3.9	abcdefij	4.5	[116]130	54	2.9	
P 7	Havelock (M)	5,000	.46	0.71	0	2 wells (Castle Hayne limestone)	-	1.1	0	.3	abfg	1.6	[22]257	210	2.1	
P 8	New Bern (M)	17,000	3.13	-	.73	3 wells (Cretaceous sands)	-	6.0	0	2.3	aj	([74])	[22]329	3	.00	

Table 3.--Water-supply system data; Region P--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- DUPLIN COUNTY ---										
P 9	Rose Hill (M)	1,800	.11	.125	.006	2 wells (Cretaceous sands)	-	.6	.80	-	none	-	155	130	.21	
P10	Wallace (M)	3,100	3.8	-	3.5	10 wells (Cretaceous sands)	-	6.0	1.6	-	none	-	[117]194	96	.01	
P11	Warsaw (M)	3,000	.28	-	0	3 wells (Cretaceous sands)	-	1.1	0	.38	a	([74])	[118]106	51	1.3	Mn 0.11
						--- GREENE COUNTY ---										
P12	Snow Hill (M)[119]	3,500	0.35	-	0.04	2 wells (Cretaceous sands)	-	1.5	0.65	-	none	-	230	24	0.01	
						--- JONES COUNTY ---										
						--- LENOIR COUNTY ---										
P13	Kinston (M)	25,000	4.7	-	2.0	11 wells (Cretaceous sands)	-	12.2	3.5	-	none	-	145	4	.03	
P14	LaGrange (M)	3,000	.35	-	.11	2 wells (Cretaceous sands)	-	1.0	0	0.3	abhi	0.72	105	30	[120]208	
P15	North Lenoir Water Association (P)	4,000	-	-	0	7 wells (Cretaceous sands)	-	1.2	.122	-	none	-	134	11	.00	

Table 3.--Water-supply system data; Region P--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- ONSLOW COUNTY ---										
P16	Camp Lejeune: Hadnot Point Water System (F)	(121)	3.41	3.89	(98)	35 wells (Castle Hayne limestone)	-	5.5	.5	3.28	acdfgij	5.0	107	72	[120].00	
P17	Jacksonville (M) Also supplies Brynn Marr subdivision	17,000	1.87	2.35	0	9 wells (Cretaceous sands) 1 well (Castle Hayne limestone)	-	3.9	0	2.95	a	?	[122]427	21	.03	
						--- PAMLICO COUNTY ---										
						--- WAYNE COUNTY ---										
P18	Fremont (M)	1,600	0.11	-	0.007	4 wells (bedrock)	-	0.26	0.18	0	none	-	829	240	0.19	Mn 0.080
P19	Goldsboro (M)	31,000	4.0	5.0	.55	Neuse River	56	10	35	6.5	acdefhij	10	95	21	[120].31	
						Little River	3.2						[22]55	12	.52	
P20	Mount Olive (M)	6,500	1.0	-	.16	3 wells (Cretaceous sands)	-	1.9	.13	.5	abfij	?	76	20	.67	
P21	Seymour Johnson AFB (F)	8,800	1.28	2.10	(98)	14 wells (Cretaceous sands and bedrock)	-	2.3	0	2.0	abdfij	2.0	121	59	.01	

Table 3.--Water-supply system data; Region Q

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- BEAUFORT COUNTY ---										
Q 1	Belhaven (M)	2,400	0.3	0.48	0.1	2 wells (shallow sands)	-	1.0	0.018	0.28	abfg	0.5	496	56	0.100	
Q 2	Washington (M)	10,000	1.6	2.24	.35	Tranters Creek	2.6	2.8	0	1.7	acdefhij	2.2	133	78	.000	
						--- BERTIE COUNTY ---										
Q 3	Windsor (M)	3,000	.17	.2	.095	3 wells (Cretaceous sands)	-	1.4	.30	-	none	-	572	33	.24	F 2.6
						--- HERTFORD COUNTY ---										
Q 4	Ahoskie (M)	5,000	.5	.6	.02	5 wells (Cretaceous sands)	-	1.7	0	.81	b(123)	(55)	592	66	.010	I 1.9
Q 5	Murfreesboro (M)	4,000	.3	.36	.05	2 wells (Cretaceous sands)	-	2.0	.08	-	none	-	292	4	.020	
						--- MARTIN COUNTY ---										
Q 6	Robersonville (M)	2,600	1.0	1.2	.7	4 wells (Cretaceous sands)	-	2.1	0	.48	a	(55)	1005	36	.070	
Q 7	Williamston (M)	7,000	.67	1.1	.22	4 wells (Cretaceous sands)	-	2.3	0	.98	a(124)	(55)	664	32	.070	F 1.9

Table 3.--Water-supply system data; Region Q--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- PITT COUNTY ---										
Q 8	Ayden (M)	4,000	0.36	-	0.015	2 wells (Cretaceous sands)	-	2.0	0.3	-	none	-	274	8	0.030	
Q 9	Bethel (M)	2,000	.24	-	.001	3 wells (Cretaceous sands)	-	1.84	0	0.78	a	(55)	22 578	25	.450	
Q10	Farmville (M)	6,000	1.56	-	1.20	8 wells (Cretaceous sands)	-	4.39	0	1.38	a(125)	(55)	126 499	111 24	.22	
Q11	Greenville (M)	32,000	4.65	6.7	2.8	Tar River	35	9.0	0	2.8	acdefhij	6.0	104	58	.020	Cd 0.012
						6 wells (Cretaceous sands)	-	4.1			a		118 296	16	.030	F 1.8
Q12	Grifton (M)	2,200	.2	.29	.003	2 wells (Cretaceous sands)	-	.67	0	.06	a	(55)	183	4	.000	
Q13	Winterville (M)	1,500	.18	-	.037	2 wells (Cretaceous sands)	-	.72	.08	-	none	-	250	29	.020	

Table 3.--Water-supply system data; Region R

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- CAMDEN COUNTY ---										
						--- CHOWAN COUNTY ---										
R 1	Edenton (M)	5,000	0.5	-	0.13	3 wells (Castle Hayne limestone)	-	2.16	0.13	0.8	abdghi	1.61	653	73	0.030	
						--- CURRITUCK COUNTY ---										
						--- DARE COUNTY ---										
R 2	Cape Hatteras Water Association (P)		.19	0.41	0	20 wells (shallow sands)	-	.5	.2	.5	abcdfg	1.0	359	200	.060	Mn 0.160
	summer	3,600														
	winter	1,400														
R 3	Kill Devil Hills (M)		.34	.77	.033	Fresh Pond and 18 wells [127] (shallow sands)	([127])	.72	96	.42	abcdfi	.72	126	69	.000	
	summer	6,000														
	winter	400														
R 4	Nags Head (M)		.27	-	.003					.8						
	summer	6,000				([127])	([127])	([127])	([127])		([127])	([127])	123	65	.000	
	winter	550				1 well (shallow sands)		.36					536	79[128]	.280	Mn 0.410

Table 3.--Water-supply system data; Region R--Continued

Map number	Community (Owner)	Pop. served	Water use (Mgal/d) Total Avg.	Total Max.	Ind.	Water source	Allowable draft (Mgal/d)	Raw-water pumping capacity (Mgal/d)	Water storage (Mgal) Raw	Fin.	Treatment	Treatment plant capacity (Mgal/d)	Finished-water quality (mg/l) D.S.	Hard.	Iron	Other
						--- GATES COUNTY ---										
						--- HYDE COUNTY ---										
						--- PASQUOTANK COUNTY ---										
R 5	Elizabeth City (M)	20,000	2.12	2.63	.8	230 well points (shallow sands)	-	129 1.75	3.03	2.0	acdfhj	2.0	277	100	.010	pH 9.2
						4 wells (shallow sands)	-	2.25								
						--- PERQUIMANS COUNTY ---										
R 6	Hertford (M)	2,000	0.22	0.3	0.005	2 wells (shallow sands)	-	0.7	0	0.75	acd	0.5	177	78	0.180	
						--- TYRRELL COUNTY ---										
						--- WASHINGTON COUNTY ---										
R 7	Plymouth (M)	5,000	.43	.67	0	3 wells (Castle Hayne limestone)	-	2.0	0	.82	abg	2.2	704	200	.010	

Footnotes for Table 3.

[1]See page 4 for explanation of codes.

[2]Also supplies Clyde and six water associations.

[3]Also supplies Assembly, Hazelwood, Junaluska Sanitary District, and Lake Junaluska.

[4]Combined reported yield of wells, not based on capacity of pumps.

[5]Also serves Biltmore, Enka, Royal Pines, Skyland, and Swannanoa.

[6]Chemicals fed directly into water line.

[7]Discontinued June 1963. Could be put back into service if needed.

[8]Also supplies Balfour, Flat Rock, Laurel Park, Mills River, Mountain Home, Saluda, and Valley Hill.

[9]Also supplied Gardner-Webb College.

[10]Carry-over storage involved. Allowable draft probably in excess of 30 Mgal/d.

[11]Water from Davidson and City Lakes are combined and treated at the same plant.

[12]Also supplies Clinchfield, Crossmill, East Marion, Mackeys Creek, and Pleasant Gardens.

[13]Gravity flow, estimate based on capacity of the line.

[14]Also supplies Sandymush Water District.

[15]Treatment plant scheduled for expansion to 8.0 Mgal/d by March 1974.

[16]Also supplies Broyhill Community Water System.

[17]Supplementary source.

Footnotes for Table 3--Continued.

[18]Also supplies Blue Ridge Water Association, Crickett-Millers Creek Water Association, and Mulberry-Fairplains Water Association.

[19]Occasionally supplements Moravian Falls Water Association, Inc.

[20]Yadkin River natural flow augmented by releases from W. Kerr Scott Reservoir. Ample water is available to meet any foreseeable demand.

[21]Supplies part of rural Alexander and Iredell Counties, Hiddenite, Stony Point, and Taylorsville.

[22]Dissolved-solids, hardness, and iron concentrations from analysis of raw water which is treated before it enters the distribution system.

[23]Dissolved-solids, hardness, and iron concentrations from analysis of water combined from two wells.

[24]Addition of potassium permanganate to remove iron and(or) manganese.

[25]Also supplies Rutherford College Water Corporation.

[26]Not determined. There are no contractual restrictions on the amount that can be withdrawn.

[27]Also supplies North Catawba Community.

[28]Also supplies Harpertown Water District, Hudson, Saw Mill, and Whitnel.

[29]Also supplies Brookford and Conover.

[30]Also supplies Claremont.

[31]This amount available without storage.

Footnotes for Table 3--Continued.

[32]Also supplies Jackson Park Sanitary District, Parkland Sanitary District, Parkwood Sanitary District, and South Concord Sanitary District.

[33]Not determined because analysis of carry-over storage is required.

[34]Minimum release from Mountain Island Dam as required by the Federal Power Commission.

[35]Raw-water storage available, but none controlled by this system.

[36]Total water-use data does not include 0.3 to 0.5 Mgal/d of untreated water furnished to industry; however, industry uses about 0.4 Mgal/d of treated water which is included in the data on total water use.

[37]City Lake is on Long Creek tributary. Filled by pumping from Long Creek.

[38]Also supplies Cramerton, Dallas, Lowell, McAdenville, and Ranlo.

[39]Also supplies Cornelius and Davidson College.

[40]Also supplies the community of Pottstown.

[41]Includes 10.2 Mgal reserved for industrial use only.

[42]Supplementary supply. Water is pumped from creek to Lake Kannapolis.

[43]Water is pumped from Lake Wright to Lake Corriher. Water flows from Lake Corriher to this storage reservoir where it is pumped to the treatment plant.

[44]Also supplies East Spencer, part of Granite Quarry, and supplements Spencer.

[45]Combined reported yield of only three wells, not based on capacity of pumps.

Footnotes for Table 3--Continued.

[46] Not determined. Ample water supply.

[47] Storage available to Albemarle not determined.

[48] Marshville purchases an average of 1 million gallons per month from Wingate and purchases a minimum of 5 million gallons per month and can purchase as much as 10 million gallons per month from the Anson County Water System.

[49] Emergency supply.

[50] Supplements Yanceyville Reservoir.

[51] Lexington-Thomasville Reservoir has an allowable draft of 16 Mgal/d and is shared by Lexington and Thomasville.

[52] Bear Creek is a supplementary source of water, and its flow is supplemented by flow from Mocksville Reservoir when needed.

[53] 11,000 Mgal of water storage in W. Kerr Scott Reservoir on Yadkin River also is reserved for Winston-Salem.

[54] A chelating agent is added to hold iron and manganese in suspension

[55] Treatment at each well.

[56] Supplements Lake Brandt.

[57] Supplements High Point Municipal Lake.

Footnotes for Table 3--Continued.

[58]Also supplies a rural water system, Dan River, Inc.

[59]Distribution systems owned by Mayodan and Madison.

[60]Impounded on an upstream tributary to Troublesome Creek.

[61]Supplies King, Pinnacle, Tobaccoville, and parts of rural Stokes County.

[62]One well used as a supplementary supply.

[63]Serves Anson County, McFarlan, Morven, and Peachland. Supplements Ansonville, Marshville, Polkton, and Wadesboro. Connected to Lilesville.

[64]Restricted to 12 Mgal/d by contract with Carolina Power and Light Company.

[65]Total finished-water pumping capacity.

[66]Additional water needed purchased as finished water from Anson County Water System.

[67]Also supplements Star.

[68]Also supplies East Rockingham.

[69]Includes approximately 0.7 Mgal/d of untreated water furnished to industry. Average and maximum use values do not include this 0.7 Mgal/d of untreated water.

[70]Not determined because raw-water storage data not available.

[71]Also supplements Chapel Hill water supply during dry periods.

Footnotes for Table 3--Continued.

[72]Not rated; maximum rate of filter system is 0.72 Mgal/d.

[73]Only water from three wells is chlorinated.

[74]Demand-type feeders, not rated.

[75]All wells are chlorinated. Four wells have adjustment of pH. One well has a filter for iron removal.

[76]Estimated daily purchase of finished water from the town of Smithfield.

[77]Also supplies Four Oaks, Selma, and West Smithfield Sanitary District.

[78]Does not include an estimated 0.1 Mgal/d purchased by Selma.

[79]Does not include an estimated 0.2 Mgal/d purchased by Selma during peak usage.

[80]Connection to the Durham supply has a capacity of 2.0 Mgal/d of finished water.

[81]Serves some rural areas in Alamance and Orange Counties including the town of Efland.

[82]Finished water from 17 wells in use in 1965. Water was chlorinated and treated with phosphate compounds for corrosion control.

[83]Includes two auxiliary wells yielding about 0.8 Mgal/d.

[84]Also supplements the water supplies of Cary and Garner.

[85]Water from Walnut and Swift Creeks is combined.

[86]Not determined because of many upstream diversions.

Footnotes for Table 3--Continued.

[87]An abandoned rock quarry fed by ground water.

[88]Pumpage data from Lake Johnson indicates the allowable draft (or yield) from that source is in excess of 0.15 Mgal/d.

[89]Raw water is pumped from Tar River to Lake Devin.

[90]Hyco Lake is a supplementary supply. Approximately 2.0 Mgal/d are pumped from Hyco Lake to Roxboro Lake.

[91]Weldon's intakes are below the Roanoke Rapids Lake dam where the minimum release is 646 Mgal/d.

[92]Chlorination at each well except two. Water from these two wells is chlorinated after storage.

[93]January 1977, data: minimum release from Buckhorn Reservoir to downstream Wiggins Mill Reservoir is 0.34 Mgal/d.

[94]Allowable draft for Wiggins Mill Reservoir computed before construction of Buckhorn Reservoir.

[95]Demand-type feeders for nine wells; not rated. Other wells not treated.

[96]All values from analyses of raw water entering distribution system without treatment.

[97]Treated at Glenville Treatment Plant along with water from Little Cross Creek.

[98]There are industrial-type operations on the base, but water is not metered.

[99]Service area includes Ashton Forest, Barwin Estates, Darwindale, Drake Park, Evergreen Estates, Gallup Acres, Iris Gardens, LaFayette Village, Pleasant Valley, Quail Ridge, Queensdale, Sedgefield, Sherwood, and Sunny Acres subdivisions, and Montclair subdivision (sections 1-4).

Footnotes for Table 3--Continued.

[100]Service area includes Deerwood, LaGrange, Murray Fork, Northshore Estates, and Valley Forge subdivisions.

[101]Service area includes Devonwood, Gardens of Loch Lomond, and Loch Lomond subdivisions.

[102]Service area includes Brittany Place, Chestnut Hill, Leisureburg, and Woodstream subdivisions, and part of Montclair subdivision.

[103]Adjustment of pH with soda ash by demand-type feeders at all wells except well No. 5.

[104]Treatment at well No. 9 by demand-type feeder. Other wells receive no treatment.

[105]Also supplies Erwin.

[106]Also supplies Shawtown.

[107]Water from wells 3, 8, 9, and 12, approximately 0.87 Mgal/d, is furnished untreated to industrial users.

[108]Dissolved-solids and hardness concentrations from analysis of raw water, which is treated before it enters the distribution system.

[109]Finished water from wells 1-9.

[110]Addition of phosphate compounds to suspend iron.

[111]Hardness and iron concentrations from analysis of raw water, which is treated before it enters the distribution system.

Footnotes for Table 3--Continued.

[112]All values from analysis of finished water from wells 3 and 4.

[113]Chlorination at each well during off-season. Chlorination at tank reservoir during busy season. Not rated.

[114]Also supplies Topsail Beach with partially treated water.

[115]New well scheduled to be in operation November 1975.

[116]Dissolved solids and hardness from a combined finished-water sample from wells 1, 3, 6, 8, 18, 22, and 23, and iron from a combined raw-water sample from the same seven wells.

[117]All values from a combined water sample from wells 5, 6, 7, 8, and 9.

[118]All values from analyses of raw water which is treated before it enters the distribution system.

[119]Also supplies South Greene County Water Association.

[120]Iron concentration from analysis of raw water which is treated before it enters the distribution system.

[121]The population served by all nine water systems on the base was 34,549 in 1970. The Hadnot Point water system provides almost half of the base's water needs.

[122]Dissolved-solids and hardness from a combined sample from wells 1-4, and iron from a combined sample from wells 1-5.

[123]Aeration at wells 3, 4, and 5. Water from other wells is untreated.

Footnotes for Table 3--Continued.

[124]Water from well 206 is chlorinated at the well. Water from other wells is untreated.

[125]Water from wells 6, 7, and 9 is chlorinated, and that from wells 4, 6, and 7 is treated with polyphosphate. Treatment at each well. Water from other wells is not treated.

[126]Dissolved-solids concentration from analysis of raw water entering system without treatment.

[127]Fresh Pond is the source of water for both Kill Devil Hills and Nags Head and is inadequate to meet their needs. Eighteen shallow, driven wells supply 0.5 Mgal/d to Fresh Pond during the peak seasons. A single water-treatment plant serves both towns.

[128]Iron and manganese concentrations from analyses of raw water which is treated before entering the distribution system.

[129]Reported maximum pumping rate. Usual production rate 1.0 Mgal/d.

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