Overview

Total
Groundwater (mgd — fresh, not saline) 694
Percentage of total freshwater* supply for state 6.25%

Public Supply
Groundwater (mgd) 194
Percentage of total groundwater 28.00%
Percentage of total public supply 20.20%

Individual Household
Groundwater (mgd) 231
Percentage of total groundwater 33.30%
Percentage of total individual household supply 100%

Irrigation
Groundwater (mgd) 88.3
Percentage of total groundwater 12.70%
Percentage of total irrigation 24.10%

Livestock/Aquaculture
Groundwater (mgd) 68.4
Percentage of total groundwater 9.86%
Percentage of total livestock/aquaculture 4.44%

Industrial, Self-Supplied
Groundwater (mgd) 83.8
Percentage of total groundwater 12.10%
Percentage of total industrial, self-supplied 30.90%

Mining
Groundwater (mgd) 27.8
Percentage of total groundwater 4.01%
Percentage of total mining 85.30%

Thermoelectric
Groundwater (mgd) 0.37
Percentage of total groundwater 0.05%
Percentage of total thermoelectric 0.00%

(mgd = million gallons per day)

*All totals and ratios are measures of freshwater only.

Groundwater’s Role in North Carolina’s Economic Vitality

- Few states can accurately or confidentially determine how many residential wells are in place. For each region, the American Housing Survey by the U.S. Census provides regional data. North Carolina is found in the South, along with these other states: Maryland, Delaware, Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Texas, Oklahoma, Arkansas, Tennessee, and Kentucky. The last American Housing Survey Census indicates this region had 4,360,000 households served by residential wells, with an average of 2.55 persons per household. The U.S. Census stopped asking citizens their source of water supply following the 1990 Census. The USGS estimates the population of self-supplied water supply users in North Carolina to be 3,300,000.

- 1,590 community water systems use groundwater for 1,540,000 people
- 363 non-community, non-transient water systems use groundwater for 94,300 people
- 3,430 non-community, transient water systems use groundwater for 308,000 people
- 2,310 irrigation wells used serving 1,290 farms and 38,400 acres
North Carolina’s Groundwater Industry Employment

Men and women working to provide and protect North Carolina’s groundwater resources for the benefit of people, business, and our environment.

North Carolina’s Contracting Employment
Drill and service water wells, install and service pumps, install and service point of use water treatment devices. This portion of the industry is characterized by small firms, many of which are multi-generation family-owned and operated.9

- 178 firms employ an estimated 1,150 people10
- Annual estimated sales of $265

North Carolina’s Scientists and Engineers Employment
Geologists, hydrogeologists, engineers, geochemists, geophysicists, microbiologists, regulators.

Environmental Consulting11
NAICS 54162: Establishments primarily engaged in providing advice and assistance on environmental issues, such as the control of environmental contamination from pollutants, toxic substances, and hazardous materials.

- 637 firms employ an estimated 2,060 people
- Annual estimated sales of $300 million

Remediation12
NAICS 56291: Establishments include those engaged in remediation and cleanup of contaminated buildings, mine sites, soil, or groundwater.

- 144 firms employ an estimated 1,490 people
- Annual estimated sales of $228 million

Public Service and Universities, Colleges, and Research Centers
- Many more dedicated individuals

9 InfoUSA, SIC 1781, March 2015.
10 Barnes Reports: Remediation Services Industry (NAICS 56291); C. Barnes & Co., 2015.
12 Barnes Reports: Remediation Services Industry (NAICS 56291); C. Barnes & Co., 2015.