

Groundwater Use in Virginia

Overview¹

Total

Groundwater (mgd — fresh, not saline)..... 299
Percentage of total freshwater* supply for state..... 6.73%

Public Supply

Groundwater (mgd) 71.0
Percentage of total groundwater..... 23.8%
Percentage of total public supply 10.7%

Individual Household

Groundwater (mgd) 124.0
Percentage of total groundwater..... 41.5%
Percentage of total individual household supply 100%

Irrigation

Groundwater (mgd) 16.0
Percentage of total groundwater..... 5.35%
Percentage of total irrigation..... 26.1%

Livestock/Aquaculture

Groundwater (mgd) 15.9
Percentage of total groundwater..... 5.32%
Percentage of total livestock/aquaculture..... 4.93%

Industrial, Self-Supplied

Groundwater (mgd) 74.2
Percentage of total groundwater..... 24.8%
Percentage of total industrial, self-supplied 19.4%

Mining

Groundwater (mgd) 6.56
Percentage of total groundwater..... 2.19%
Percentage of total mining..... 18.8%

Thermoelectric

Groundwater (mgd) 1.55
Percentage of total groundwater..... 0.52%
Percentage of total thermoelectric..... 0.05%

(mgd = million gallons per day)

*All totals and ratios are measures of freshwater only.

¹ US Geological Survey, November 2014 report on 2010 water use.

² Virginia Department of Environmental Quality, Office of Water Supply

³ US EPA Federal Safe Drinking Water Information System Data for 2014.

⁴ *Ibid.*

⁵ *Ibid.*

⁶ Census of Agriculture 2013 Farm and Ranch Irrigation Survey.

Groundwater's Role in Virginia's Economic Vitality

- Approximately 42,800 known residential wells statewide.²
- 767 community water systems use groundwater for 410,000 people³
- 506 non-community, non-transient water systems use groundwater for 170,000 people⁴
- 1,030 non-community, transient water systems use groundwater for 163,000 people⁵
- 1,190 irrigation wells used serving 834 farms and 7,570 acres⁶



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Virginia's Groundwater Industry Employment

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

Virginia'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.⁷

- 124 firms employ an estimated 675 people⁸
- Annual estimated sales of \$178 million

Virginia's Scientists and Engineers Employment

Geologists, hydrogeologists, engineers, geochemists, geophysicists, microbiologists, regulators.

Environmental Consulting⁹

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.

- 1,290 firms employ an estimated 4,190 people
- Annual estimated sales of \$678 million

Remediation¹⁰

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

- 155 firms employ an estimated 1,800 people
- Annual estimated sales of \$271 million

Public Service and Universities, Colleges, and Research Centers

- Many more dedicated individuals



⁷ InfoUSA, SIC 1781, March 2015.

⁸ Barnes Reports: Remediation Services Industry (NAICS 56291); C. Barnes & Co., 2015.

⁹ Barnes Reports: Environmental Consulting Services Industry (NAICS 54162); C. Barnes & Co., 2015.

¹⁰ Barnes Reports: Remediation Services Industry (NAICS 56291); C. Barnes & Co., 2015.