Groundwater Use in Vermont

Overview¹

Total

Industrial, Self-Supplied
Percentage of total livestock/aquaculture
Percentage of total groundwater
Groundwater (mgd)
Livestock/Aquaculture
Percentage of total irrigation 32.80%
Percentage of total groundwater 2.78%
Irrigation Groundwater (mgd) 1.02
Percentage of total individual household supply 100%
Percentage of total groundwater
Groundwater (mgd) 11.0
Individual Household
Percentage of total public supply 32.56%
Percentage of total groundwater 37.87%
Public Supply Groundwater (mgd)13.9
Groundwater (mgd — fresh, not saline)
I OTAL

Industrial, Self-Supplied

Groundwater (mgd)	1.51
Percentage of total groundwater	. 4.11%
Percentage of total industrial, self-supplied	12.58%

Mining

Groundwater (mgd)	0.23
Percentage of total groundwater	
Percentage of total mining	5.04%

Thermoelectric

Groundwater (mgd)	0.54
Percentage of total groundwater	1.47%
Percentage of total thermoelectric	0.68%

(mgd = million gallons per day)

*All totals and ratios are measures of freshwater only.

- ¹ US Geological Survey, Estimated Use of Water in the United States in 2015, released 2018.
- ² US Census Bureau 2013 American Housing Survey.
- ³ US Census Bureau 2013 American Community Survey.
- ⁴ US Geological Survey, Estimated Use of Water in the United States in 2015, released 2018.
- $^{\rm 5}$ US EPA Federal Safe Drinking Water Information System Data for 2019.
- 6 Ibid.
- 7 Ibid.
- ⁸ Census of Agriculture 2013 Farm and Ranch Irrigation Survey.

Groundwater's Role in Vermont'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. Vermont is found in the Northeast, along with these other states: Maine, Vermont, New Hampshire, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, and Pennsylvania. The last American Housing Survey Census indicates this region had 3,210,000² households served by residential wells, with an average of 2.37³ persons per household. The USGS estimates the population of selfsupplied water supply users in Vermont to be 244,000, with 100% of their water supply from groundwater.⁴
- 327 community water systems use groundwater for 182,300 people⁵
- 240 non-community, non-transient water systems use groundwater for 42,900 people⁶
- 753 non-community, transient water systems use groundwater for 118,700 people⁷
- 309 irrigation wells used serving 276 farms and 402 acres⁸



Vermont's Groundwater Industry Employment

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

Vermont'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

- 24 firms employ an estimated 128 people
- Annual estimated sales of \$36.3 million

Vermont's Scientists and Engineers Employment

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

Environmental Consulting¹⁰

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.

- 139 firms employ an estimated 466 people
- Annual estimated sales of \$83.8 million

Remediation¹¹

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

- 24 firms employ an estimated 205 people
- Annual estimated sales of \$48.6 million

Public Service and Universities, Colleges, and Research Centers

Many more dedicated individuals



⁹ InfoUSA, SIC 1781, June 2019.

¹⁰ Barnes Reports: Environmental Consulting Services Industry (NAICS 54162); C. Barnes & Co., 2019.

¹¹ Barnes Reports: Remediation Services Industry (NAICS 56291); C. Barnes & Co., 2019.