

Groundwater Use in Pennsylvania

Overview¹

Total

Groundwater (mgd — fresh, not saline)..... 657
Percentage of total freshwater* supply for state..... 8.08%

Public Supply

Groundwater (mgd) 226
Percentage of total groundwater..... 34.40%
Percentage of total public supply 15.90%

Individual Household

Groundwater (mgd) 201
Percentage of total groundwater..... 30.60%
Percentage of total individual household supply 100%

Irrigation

Groundwater (mgd) 7.39
Percentage of total groundwater..... 1.12%
Percentage of total irrigation..... 27.30%

Livestock/Aquaculture

Groundwater (mgd) 93.5
Percentage of total groundwater..... 14.20%
Percentage of total livestock/aquaculture..... 58.30%

Industrial, Self-Supplied

Groundwater (mgd) 73.8
Percentage of total groundwater..... 11.20%
Percentage of total industrial, self-supplied 8.52%

Mining

Groundwater (mgd) 51.4
Percentage of total groundwater..... 7.82%
Percentage of total mining..... 82.90%

Thermoelectric

Groundwater (mgd) 4.49
Percentage of total groundwater..... 0.68%
Percentage of total thermoelectric..... 0.08%

(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 US Census Bureau 2013 American Housing Survey.

³ US Census Bureau 2013 American Community Survey.

⁴ US Geological Survey, November 2014 report on 2010 water use.

⁵ *Ibid.*

⁶ US EPA Federal Safe Drinking Water Information System Data for 2014.

⁷ *Ibid.*

⁸ Census of Agriculture 2013 Farm and Ranch Irrigation Survey.

Groundwater's Role in Pennsylvania'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. Pennsylvania 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 2.5³ 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 Pennsylvania to be 3,350,000⁴.
- 1,490 community water systems use groundwater for 1,360,000 people⁵
- 1,110 non-community, non-transient water systems use groundwater for 428,000 people⁶
- 5,600 non-community, transient water systems use groundwater for 704,000 people⁷
- 2,910 irrigation wells used serving 2,140 farms and 11,500 acres⁸



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Pennsylvania's Groundwater Industry Employment

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

Pennsylvania'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

- 232 firms employ an estimated 2,000 people¹⁰
- Annual estimated sales of \$531 million

Pennsylvania'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.

- 1,270 firms employ an estimated 4,350 people
- Annual estimated sales of \$645 million

Remediation¹²

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

- 294 firms employ an estimated 3,630 people
- Annual estimated sales of \$578 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.

¹¹ Barnes Reports: Environmental Consulting Services Industry (NAICS 54162); C. Barnes & Co., 2015.

¹² Barnes Reports: Remediation Services Industry (NAICS 56291); C. Barnes & Co., 2015.