

Groundwater Use in Ohio

Overview¹

Total

Groundwater (mgd — fresh, not saline)..... 866
Percentage of total freshwater* supply for state.....13.28%

Public Supply

Groundwater (mgd) 450
Percentage of total groundwater..... 51.96%
Percentage of total public supply 34.35%

Individual Household

Groundwater (mgd) 137
Percentage of total groundwater..... 15.82%
Percentage of total individual household supply 98.56%

Irrigation

Groundwater (mgd) 17.9
Percentage of total groundwater..... 2.07%
Percentage of total irrigation..... 32.55%

Livestock/Aquaculture

Groundwater (mgd) 21.1
Percentage of total groundwater..... 2.44%
Percentage of total livestock/aquaculture..... 33.02%

Industrial, Self-Supplied

Groundwater (mgd) 138
Percentage of total groundwater..... 15.94%
Percentage of total industrial, self-supplied 39.66%

Mining

Groundwater (mgd) 91.3
Percentage of total groundwater..... 10.54%
Percentage of total mining..... 70.78%

Thermoelectric

Groundwater (mgd) 11
Percentage of total groundwater..... 1.27%
Percentage of total thermoelectric..... 0.25%

(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, circular 1441, Tables 2A and 4A.

² US Geological Survey, Estimated Use of Water in the United States in 2015, circular 1441, Table 6 provides an estimate of state population using domestic water supply and percent on groundwater use; US Census Bureau, Quick Facts 2013-2017 provides persons per household unit by state. Dividing persons per household into population using domestic groundwater supply gives an estimate of domestic wells in use.

³ US EPA Federal Safe Drinking Water Information Systems, Data for 2019.

⁴ *Ibid.*

⁵ *Ibid.*

⁶ US Census of Agriculture 2013 Farm and Ranch Irrigation Survey.

Groundwater's Role in Ohio's Economic Vitality

- Domestic Supply
 - Ohio has an estimated 751,000 domestic wells supplying approximately 1,838,000 people.²
- Public Supply
 - 916 community water systems use groundwater supplying 2,852,600 people.³
 - 646 non-community, non-transient water systems use groundwater supplying 240,600 people.⁴
 - 2,695 non-community, non-transient water systems use groundwater supplying 379,700 people.⁵
- Irrigation Supply
 - 1,060 irrigation wells used groundwater supplying 725 farms and 19,270 acres.⁶



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Ohio's Groundwater Industry Employment

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

Ohio'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

- 161 firms employ an estimated 1,028 people
- Annual estimated sales of \$287.3 million

Ohio'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.

- 675 firms employ an estimated 2,772 people
- Annual estimated sales of \$541.5 million

Remediation¹¹

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

- 188 firms employ an estimated 3,111 people
- Annual estimated sales of \$924.2 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.