

Groundwater Use in Minnesota

Overview¹

Total

Groundwater (mgd — fresh, not saline)..... 736
Percentage of total freshwater* supply for state..... 19.3%

Public Supply

Groundwater (mgd) 353
Percentage of total groundwater..... 48.0%
Percentage of total public supply 65.1%

Individual Household

Groundwater (mgd) 79.0
Percentage of total groundwater..... 10.7%
Percentage of total individual household supply 100%

Irrigation

Groundwater (mgd) 171
Percentage of total groundwater..... 23.2%
Percentage of total irrigation..... 86.8%

Livestock/Aquaculture

Groundwater (mgd) 61.0
Percentage of total groundwater..... 8.29%
Percentage of total livestock/aquaculture..... 80.0%

Industrial, Self-Supplied

Groundwater (mgd) 61.8
Percentage of total groundwater..... 8.40%
Percentage of total industrial, self-supplied 46.1%

Mining

Groundwater (mgd) 8.32
Percentage of total groundwater..... 1.13%
Percentage of total mining..... 2.92%

Thermoelectric

Groundwater (mgd) 2.34
Percentage of total groundwater..... 0.32%
Percentage of total thermoelectric..... 0.09%

(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 Minnesota Department of Health

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 Minnesota's Economic Vitality

- Approximately 382,000 known residential wells statewide.²
- 918 community water systems use groundwater for 2,910,000 people³
- 486 non-community, non-transient water systems use groundwater for 65,700 people⁴
- 5,400 non-community, transient water systems use groundwater for 524,000 people⁵
- 5,390 irrigation wells used serving 1,890 farms and 467,000 acres⁶



Address 601 Dempsey Road, Westerville, Ohio 43081-8978 U.S.A.
Phone 800 551.7379 • 614 898.7791 **Fax** 614 898.7786
Email ngwa@ngwa.org **Websites** NGWA.org and WellOwner.org

Minnesota's Groundwater Industry Employment

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

Minnesota'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

- 175 firms employ an estimated 1,060 people⁸
- Annual estimated sales of \$345 million

Minnesota'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.

- 318 firms employ an estimated 1,010 people
- Annual estimated sales of \$153 million

Remediation¹⁰

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

- 98 firms employ an estimated 911 people
- Annual estimated sales of \$135 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.