

Groundwater Use in North Dakota

Overview¹

Total

Groundwater (mgd — fresh, not saline)..... 139
Percentage of total freshwater* supply for state..... 12.3%

Public Supply

Groundwater (mgd) 30.5
Percentage of total groundwater..... 21.9%
Percentage of total public supply 44.3%

Individual Household

Groundwater (mgd) 3.68
Percentage of total groundwater..... 2.65%
Percentage of total individual household supply 100%

Irrigation

Groundwater (mgd) 77.5
Percentage of total groundwater..... 55.8%
Percentage of total irrigation..... 47.0%

Livestock/Aquaculture

Groundwater (mgd) 12.9
Percentage of total groundwater..... 9.28%
Percentage of total livestock/aquaculture..... 46.9%

Industrial, Self-Supplied

Groundwater (mgd) 5.77
Percentage of total groundwater..... 4.15%
Percentage of total industrial, self-supplied 30.9%

Mining

Groundwater (mgd) 8.73
Percentage of total groundwater..... 6.28%
Percentage of total mining..... 65.2%

Thermoelectric

Groundwater (mgd) 0.00
Percentage of total groundwater..... 0.00%
Percentage of total thermoelectric..... 0.00%

(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 North Dakota State Water Commission Water Permit Database

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 North Dakota's Economic Vitality

- Approximately 26,500 known residential wells statewide.²
- 232 community water systems use groundwater for 227,000 people³
- 35 non-community, non-transient water systems use groundwater for 3,640 people⁴
- 163 non-community, transient water systems use groundwater for 14,200 people⁵
- 1,480 irrigation wells used serving 326 farms and 155,000 acres⁶



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North Dakota's Groundwater Industry Employment

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

North Dakota'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

- 47 firms employ an estimated 979 people⁸
- Annual estimated sales of \$222 million

North Dakota'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.

- 37 firms employ an estimated 119 people
- Annual estimated sales of \$18.3 million

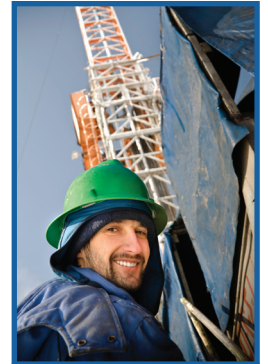
Remediation¹⁰

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

- 22 firms employ an estimated 160 people
- Annual estimated sales of \$22.1 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.