

Groundwater Use in South Dakota

Overview¹

Total

Groundwater (mgd — fresh, not saline)..... 339
Percentage of total freshwater* supply for state..... 54.2%

Public Supply

Groundwater (mgd) 74.3
Percentage of total groundwater..... 21.9%
Percentage of total public supply 59.9%

Individual Household

Groundwater (mgd) 5.37
Percentage of total groundwater..... 1.58%
Percentage of total individual household supply 100%

Irrigation

Groundwater (mgd) 198
Percentage of total groundwater..... 58.4%
Percentage of total irrigation..... 54.7%

Livestock/Aquaculture

Groundwater (mgd) 43.9
Percentage of total groundwater..... 13.0%
Percentage of total livestock/aquaculture..... 45.8%

Industrial, Self-Supplied

Groundwater (mgd) 6.85
Percentage of total groundwater..... 2.02%
Percentage of total industrial, self-supplied 72.3%

Mining

Groundwater (mgd) 7.22
Percentage of total groundwater..... 2.13%
Percentage of total mining..... 39.7%

Thermoelectric

Groundwater (mgd) 3.34
Percentage of total groundwater..... 0.99%
Percentage of total thermoelectric..... 32.4%

(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 South Dakota Department of Environment & Natural Resources Water Well Completion Report

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 South Dakota's Economic Vitality

- Approximately 33,700 known residential wells statewide.²
- 313 community water systems use groundwater for 311,000 people³
- 24 non-community, non-transient water systems use groundwater for 10,500 people⁴
- 161 non-community, transient water systems use groundwater for 24,700 people⁵
- 2,160 irrigation wells used serving 768 farms and 241,000 acres⁶



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South Dakota's Groundwater Industry Employment

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

South 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

- 32 firms employ an estimated 127 people⁸
- Annual estimated sales of \$29.0 million

South 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.

- 15 firms employ an estimated 42 people
- Annual estimated sales of \$6.80 million

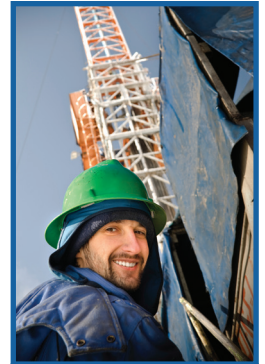
Remediation¹⁰

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

- 9 firms employ an estimated 77 people
- Annual estimated sales of \$10.7 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.