

# Groundwater Use in Alaska

## Overview<sup>1</sup>

### Total

Groundwater (mgd — fresh, not saline)..... 478  
Percentage of total freshwater\* supply for state..... 55.00%

### Public Supply

Groundwater (mgd) ..... 27.2  
Percentage of total groundwater..... 5.69%  
Percentage of total public supply ..... 34.40%

### Individual Household

Groundwater (mgd) ..... 14.1  
Percentage of total groundwater..... 2.95%  
Percentage of total individual household supply ..... 95.30%

### Irrigation

Groundwater (mgd) ..... 1.57  
Percentage of total groundwater..... 0.33%  
Percentage of total irrigation..... 98.70%

### Livestock/Aquaculture

Groundwater (mgd) ..... 429  
Percentage of total groundwater..... 89.80%  
Percentage of total livestock/aquaculture..... 62.70%

### Industrial, Self-Supplied

Groundwater (mgd) ..... 3.38  
Percentage of total groundwater..... 0.71%  
Percentage of total industrial, self-supplied ..... 43.40%

### Mining

Groundwater (mgd) ..... 0.01  
Percentage of total groundwater..... 0.00%  
Percentage of total mining..... 0.04%

### Thermoelectric

Groundwater (mgd) ..... 2.19  
Percentage of total groundwater..... 0.46%  
Percentage of total thermoelectric..... 3.78%

(mgd = million gallons per day)

\*All totals and ratios are measures of freshwater only.

<sup>1</sup> US Geological Survey, November 2014 report on 2010 water use.

<sup>2</sup> US Census Bureau 2013 American Housing Survey.

<sup>3</sup> US Census Bureau 2013 American Community Survey.

<sup>4</sup> US Geological Survey, November 2014 report on 2010 water use.

<sup>5</sup> *Ibid.*

<sup>6</sup> US EPA Federal Safe Drinking Water Information System Data for 2014.

<sup>7</sup> *Ibid.*

<sup>8</sup> Census of Agriculture 2013 Farm and Ranch Irrigation Survey.

## Groundwater's Role in Alaska'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. Alaska is found in the West, along with these other states: Alaska, Hawaii, Washington, Oregon, California, Idaho, Utah, Nevada, Arizona, New Mexico, Colorado, Wyoming, and Montana. The last American Housing Survey Census indicates this region had 1,540,000<sup>2</sup> households served by residential wells, with an average of 2.88<sup>3</sup> 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 Alaska to be 260,000<sup>4</sup>.
- 305 community water systems use groundwater for 287,000 people<sup>5</sup>
- 190 non-community, non-transient water systems use groundwater for 47,100 people<sup>6</sup>
- 738 non-community, transient water systems use groundwater for 87,700 people<sup>7</sup>
- 142 irrigation wells used serving 114 farms and 863 acres<sup>8</sup>



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# Alaska's Groundwater Industry Employment

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

## Alaska'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.<sup>9</sup>

- 50 firms employ an estimated 253 people<sup>10</sup>
- Annual estimated sales of \$85.8 million

## Alaska's Scientists and Engineers Employment

Geologists, hydrogeologists, engineers, geochemists, geophysicists, microbiologists, regulators.

### Environmental Consulting<sup>11</sup>

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.

- 196 firms employ an estimated 576 people
- Annual estimated sales of \$80.9 million

### Remediation<sup>12</sup>

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

- 93 firms employ an estimated 984 people
- Annual estimated sales of \$168 million

### Public Service and Universities, Colleges, and Research Centers

- Many more dedicated individuals



<sup>9</sup> InfoUSA, SIC 1781, March 2015.

<sup>10</sup> Barnes Reports: Remediation Services Industry (NAICS 56291); C. Barnes & Co., 2015.

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

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