

# Groundwater Use in Iowa

## Overview<sup>1</sup>

### Total

Groundwater (mgd — fresh, not saline)..... 630  
Percentage of total freshwater\* supply for state..... 23.42%

### Public Supply

Groundwater (mgd) ..... 314  
Percentage of total groundwater..... 49.84%  
Percentage of total public supply ..... 80.51%

### Individual Household

Groundwater (mgd) ..... 32.0  
Percentage of total groundwater..... 5.08%  
Percentage of total individual household supply ..... 100%

### Irrigation

Groundwater (mgd) ..... 32.2  
Percentage of total groundwater..... 5.11%  
Percentage of total irrigation..... 92.00%

### Livestock/Aquaculture

Groundwater (mgd) .....131.5  
Percentage of total groundwater..... 20.87%  
Percentage of total livestock/aquaculture..... 71.20%

### Industrial, Self-Supplied

Groundwater (mgd) .....92.8  
Percentage of total groundwater..... 14.73%  
Percentage of total industrial, self-supplied ..... 32.22%

### Mining

Groundwater (mgd) ..... 1.08  
Percentage of total groundwater..... 0.17%  
Percentage of total mining..... 1.43%

### Thermoelectric

Groundwater (mgd) ..... 27.0  
Percentage of total groundwater..... 4.29%  
Percentage of total thermoelectric..... 1.61%

(mgd = million gallons per day)

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

<sup>1</sup> US Geological Survey, Estimated use of water in the United States in 2015, published 2018.

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

<sup>3</sup> *Ibid.*

<sup>4</sup> US Geological Survey, Estimated use of water in the United States in 2015, published 2018.

<sup>5</sup> US EPA Federal Safe Drinking Water Information System Data for 2019.

<sup>6</sup> *Ibid.*

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

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

## Groundwater's Role in Iowa'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. Iowa is found in the Midwest, along with these other states: Ohio, Michigan, Indiana, Illinois, Wisconsin, Minnesota, North Dakota, South Dakota, Iowa, Nebraska, Kansas, and Missouri. The last American Housing Survey Census indicates this region had 3,990,000<sup>2</sup> households served by residential wells, with an average of 2.42<sup>3</sup> persons per household. The USGS estimates the population of self-supplied water supply users in Iowa to be 494,000, all of which were groundwater supplied.<sup>4</sup>
- 934 community water systems use groundwater for 1,492,000 people<sup>5</sup>
- 135 non-community, non-transient water systems use groundwater for 44,500 people<sup>6</sup>
- 631 non-community, transient water systems use groundwater for 72,200 people<sup>7</sup>
- 1,880 irrigation wells used serving 744 farms and 167,000 acres<sup>8</sup>



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# Iowa's Groundwater Industry Employment

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

## Iowa'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>

- 63 firms employ an estimated 344 people
- Annual estimated sales of \$121.4 million

## Iowa's Scientists and Engineers Employment

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

### Environmental Consulting<sup>10</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.

- 185 firms employ an estimated 445 people
- Annual estimated sales of \$79.7 million

### Remediation<sup>11</sup>

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

- 44 firms employ an estimated 464 people
- Annual estimated sales of \$102.3 million

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

- Many more dedicated individuals



<sup>9</sup> InfoUSA, SIC 1781, June 2019.

<sup>10</sup> Barnes Reports: Environmental Consulting Services Industry (NAICS 54162); C. Barnes & Co., 2019.

<sup>11</sup> Barnes Reports: Remediation Services Industry (NAICS 56291); C. Barnes & Co., 2019.