Groundwater Use in Hawaii

Overview

Total
Groundwater (mgd — fresh, not saline) ................................................. 338
Percentage of total freshwater supply for state.............................. 49.5%

Public Supply
Groundwater (mgd) ........................................................................... 252
Percentage of total groundwater.................................................... 74.6%
Percentage of total public supply.................................................. 94.4%

Individual Household
Groundwater (mgd) ........................................................................... 0.66
Percentage of total groundwater.................................................... 0.20%
Percentage of total individual household supply ......................... 8.12%

Irrigation
Groundwater (mgd) ........................................................................... 73.8
Percentage of total groundwater.................................................... 21.8%
Percentage of total irrigation......................................................... 19.2%

Livestock/Aquaculture
Groundwater (mgd) ........................................................................... 9.1
Percentage of total groundwater.................................................... 2.69%
Percentage of total livestock/aquaculture..................................... 47.4%

Industrial, Self-Supplied
Groundwater (mgd) ........................................................................... 0.24
Percentage of total groundwater.................................................... 0.07%
Percentage of total industrial, self-supplied ................................. 100.0%

Mining
Groundwater (mgd) ........................................................................... 0.89
Percentage of total groundwater.................................................... 0.26%
Percentage of total mining.............................................................. 96.7%

Thermoelectric
Groundwater (mgd) ........................................................................... 1.48
Percentage of total groundwater.................................................... 0.44%
Percentage of total thermoelectric............................................... 100.0%

(mgd = million gallons per day)
*All totals and ratios are measures of freshwater only.

Groundwater’s Role in Hawaii’s Economic Vitality

• The USGS estimates the population of self-supplied water supply users in Hawaii to be 56,300 with 8.1% of the supply from groundwater sources.2
• 109 community water systems use groundwater for 1,321,300 people3
• 13 non-community, non-transient water systems use groundwater for 11,700 people4
• 4 non-community, transient water systems use groundwater for 2,500 people5
• 171 irrigation wells used serving 129 farms and 4,323 acres6

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2 Ibid.
4 Ibid.
5 Ibid.
6 Census of Agriculture 2013 Farm and Ranch Irrigation Survey.

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Hawaii's Groundwater Industry Employment

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

Hawaii'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

- 11 firms employ an estimated 114 people
- Annual estimated sales of $30.4 million

Hawaii's Scientists and Engineers Employment
Geologists, hydrogeologists, engineers, geochemists, geophysicists, microbiologists, regulators.

Environmental Consulting8
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.

- 160 firms employ an estimated 504 people
- Annual estimated sales of $96.1 million

Remediation9
NAICS 56291: Establishments include those engaged in remediation and cleanup of contaminated buildings, mine sites, soil, or groundwater.

- 27 firms employ an estimated 314 people
- Annual estimated sales of $77 million

Public Service and Universities, Colleges, and Research Centers

- Many more dedicated individuals

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7 InfoUSA, SIC 1781, June 2019.