Ground Water Use for America

Total Ground water (mgd—fresh, not saline)
Public SupplyGround water (mgd)15,979Percentage of total ground water19%Percentage of total public supply.36.9%Estimated annual economic value of pumped water\$14.15 bil.³Estimated value of installed well/pump infrastructure.\$3.73 bil.⁴
Individual Household Ground water (mgd) 3,534 Percentage of total ground water 4% Percentage of total individual household supply 95% Estimated annual economic value of pumped water \$3.09 bil. ⁵ Estimated value of installed well/pump infrastructure \$64.31 bil.
Irrigation58,040Ground water (mgd)58,040Percentage of total ground water70%Percentage of total irrigation42.4%Estimated annual economic value of pumped water\$1.161 bil.6Estimated value of installed well/pump infrastructure\$6.0 bil.
Livestock/Aquaculture Ground water (mgd)
Industrial, Self-Supplied Ground water (mgd)
Mining Ground water (mgd)
Thermoelectric Ground water (mgd)

Ground Water's Role in America's Economic Vitality

- 45.9%¹¹ of America's population regularly depends upon ground water for its drinking water supply¹²
- 44,372,500 American residents served by privately owned individual wells¹³
- 90,499,550 American residents served by ground water supplied community water systems¹⁴
- 15,426,000 American households served by privately owned individual wells¹⁵
- 107,848 community supply¹⁶ wells serving 41,264¹⁷ American community water systems
- 18,403 non-transient, non-community water systems serving 5,050,678 people¹⁸
- 84,374 transient, non-community water systems serving 15,432,962 people¹⁹
- 379,674 irrigation wells serving 104,776 farms²⁰
- The U.S. bottled water industry used 5.34 billion gallons of ground water in 2001²¹



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America's Ground Water Industry Employment

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

America'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.²²

- 8,085 firms employ an estimated 44,358 people
- Annual estimated sales of \$2,466,137,000

America's Scientists & Engineers Employment

Geologists, hydrogeologists, engineers, geochemists, geophysicists, microbiologists, regulators.²³

Hazardous Waste Management Firms

- 1,800 firms employ an estimated 46,777 people
- Annual estimated sales of \$5.8 billion

Remediation & Industrial Service Firms

- 4,400 firms employ an estimated 116,145 people
- Annual estimated sales of \$11.15 billion

Environmental Consulting Firms

- 3,900 firms employ an estimated 170,111 people
- Annual estimated sales of \$15.31 billion

Government, Research Institutes, Universities and Colleges

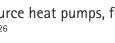
Hundreds more

American Manufacturers & Wholesalers

In 2005, shipments of domestic water systems used for wells equaled 2,168,163 pumps valued at \$379,607,000.24 Shipments of new machines used to drill water wells totaled 307 units at a combined value of \$129,003,000 in 2005.25 Shipments of ground and ground water source heat pumps, fossil fuelsaving technology, totaled 79,844 units in 2005, at a value of \$150,021,000²⁶

There are hundreds of firms emlpoying thousands of individuals throughout the nation.

- ¹ Value of extracted water as a resource before the water is applied for noted economic use
- ² Sum of all estimates below
- ³ Calculated by using value of \$0.0024227 per gallon for treated water from a Midwest utility. American Water Works Association, 2004
- ⁴ Based on dollar values for wells and pumps reported in *Ground Water Contracting* Industry Survey, September 2003, Research USA, Inc. Same source for individual household and irrigation segments.
- ⁵ Calculated by using value of \$0.0024227 per gallon for treated water from a Midwest utility. American Water Works Association, 2004
- ⁶ Calculated by using value of \$17.86 of direct agricultural impact per acre-foot of ground water in Kansas, or \$0.0000548 per gallon. The Docking Institute of Public Affairs, 2001, chapter 4.
- ⁷ Calculated by using the value of ground water for irrigation
- ⁸ Calculated by using the value of \$0.0024227 per gallon of treated water from a Midwest utility. American Water Works Association, 2004
- ⁹ Calculated by using the value of ground water for irrigation
- ¹⁰ Calculated by using the value of ground water for irrigation



- ¹¹ Resident population of U.S. 2000 was 281,421,906, U.S. Census
- ¹² US Geological Survey, March 2004 report on 2000 water use
- ¹³ US Geological Survey, March 2004 report on 2000 water use
- 14 US EPA, 2004
- 15 American Housing Survey, US Census, 2003
- 16 US EPA, 2004
- 17 US EPA, 2004
- 18 US EPA, 2004
- 19 US EPA, 2004
- 20 US Dept. of Agriculture, 2004
- ²¹ Drinking Water Research Foundation, May 2005
- ²² U.S. Census data for employee (1997) and non-employee firms (2002)
- ²³ Environmental Industry of the United States, US Commerce, January 1999
- ²⁴ U.S. Census, Current Industrial Reports Pumps and Compressors, 2005
- $^{\rm 25}$ U.S. Census, Current Industrial Reports Mining and Construction Machinery, 2005
- ²⁶ U.S. Census, Current Industrial Reports Refrigeration, Air Conditioning, and Warm Air Heating Equipment, 2005



