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Water: United States

April 2018



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About This Report

Scope & Method

This report forecasts to 2022 US water use and water withdrawal in gallons. Total water use is segmented by market in terms of:

- utilities
- manufacturing and mining
- municipal

Total water withdrawal is also segmented by market as follows:

- agriculture
- other markets such as utilities and manufacturing

To illustrate historical trends, water use, water withdrawals, and the various segments are provided in annual series from 2007 to 2017.

For the purposes of this report, water use encompasses water withdrawals from surface and groundwater sources, and includes reclaimed wastewater. Trends and forecasts related to water use apply to water that has been treated to some appreciable degree and do not include water used in agricultural applications. Water withdrawal totals refer to water from surface and groundwater sources, excluding reclaimed wastewater. The municipal segment excludes water withdrawn from wells on residential properties.

This report quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Water: United States (FF95025) represents the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 8 | Industry Codes Related to Water

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
221310	Water Supply and Irrigation Systems	4941	Water Supply
221320	Sewage Treatment Facilities	4952	Sewerage Systems
221330	Steam and Air-Conditioning Supply	4961	Steam and Air-Conditioning Supply

Source: US Census Bureau

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Resources

The Freedonia Group

Freedonia Industry Studies

Global Water Filtration Equipment Markets, November 2017
Consumer Water Treatment Systems in the US, October 2017
Lawn & Garden Watering Products Market in the US, October 2017
Global Water Disinfection Equipment Market, August 2017
Global Water Treatment Chemicals Market, June 2017
Global Air & Fluid Filters Market, January 2017
Activated Carbon, October 2016
Corrosion Inhibitors, April 2016

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Activated Carbon: United States
Air & Fluid Filters: United States
Bottled Water: United States
Consumer Water Treatment Systems: United States
Precast Water & Waste Handling Products: United States
Water Disinfection Equipment: United States
Water Filtration Equipment: United States
Water Treatment Chemicals: United States
Water Treatment Equipment: United States

Freedonia Custom Research

Trade Publications

Water Conditioning & Purification International
Water Quality Products
Water Technology
WaterWorld

Agencies & Associations

American Society of Civil Engineers
American Water Works Association
International Water Association
Marcellus Shale Coalition
National Association of Water Companies
United States Census Bureau
United States Department of Energy
United States Department of the Interior

About This Report

United States Energy Information Administration
United States Environmental Protection Agency
United States Geological Survey
United States Green Building Council
US Water Alliance
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