



Freedonia Focus Reports
US Collection

Construction Aggregates: United States

December 2019



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About This Report

Scope

This report forecasts to 2023 US construction aggregates demand in metric tons. Total demand is segmented by product in terms of:

- crushed stone
- gravel
- sand
- alternative aggregates such as clay, shale, and crushed concrete

Total demand is also segmented by market as follows:

- nonbuilding construction
- residential construction
- nonresidential construction

To illustrate historical trends, total demand is provided in annual series from 2008 to 2018; the various segments are reported at five-year intervals for 2008, 2013, and 2018.

The types of aggregates covered in this report include:

- hard, inert granular materials that are mixed with cementing materials to form concrete, mortar, plaster, or grout
- minerals mixed with bitumen to form asphaltic concrete
- aggregates utilized as road bases and coverings
- aggregates employed in various other construction-related applications, such as foundation fill, railroad ballast, pipe bedding, drainage and erosion control, embankments and earth dams, landscaping, roadway snow and ice control, and roofing granules

Aggregates materials excluded from the scope of this report are:

- minerals used in the manufacture of cement (such as clinker)
- aggregates used in industrial applications (such as silica sand, fracking sand, and gravel used in sand production)
- industrial grades of sand used in non-construction-related applications such as glassmaking (silica sand), foundry molds, and abrasives

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

Sources

Construction Aggregates: United States (FF60046) is based on [Global Construction Aggregates](#), a comprehensive industry study published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental and 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 5 | NAICS & SIC Codes Related to Construction Aggregates

NAICS/SCIAN 2017		SIC	
North American Industry Classification System		Standard Industrial Classification	
212312	Crushed & broken limestone mining & quarrying	1422	Crushed & broken limestone
212313	Crushed & broken granite mining & quarrying	1423	Crushed & broken granite
212319	Other crushed & broken stone mining & quarrying	1429	Crushed & broken stone, NEC
212321	Construction sand & gravel mining	1442	Construction sand & gravel
212399	All other nonmetallic mineral mining	1499	Miscellaneous nonmetallic mining
		3295	Minerals, ground or treated

Source: US Census Bureau

Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a

About This Report

market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia 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.

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Resources

The Freedonia Group

Global Construction Aggregates

Freedonia Industry Studies

Asphalt Market Forecasts

Cement & Concrete Additives

Construction Chemicals in the US

Global Cement

Global Cement & Concrete Additives

Global Construction Chemicals

Global Construction Machinery

Global Industrial Silica Sand

Global Material Handling Equipment

Global Mining Equipment

Paving Asphalt Market in the US

Precast Concrete Products in the US

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Cement: United States

Commercial Building Construction: United States

Construction Chemicals: United States

Construction: United States

Engineering Services: United States

Housing: United States

Precast Architectural Building Components: United States

Precast Concrete Products: United States

Precast Structural Building Components: United States

Precast Transport Infrastructure Products: United States

Prefabricated Housing: United States

Freedonia Custom Research

Trade Publications

Aggregates & Road Building

Aggregates Business

Aggregates Manager

Aggregates Research

Global Cement Magazine

Global Gypsum Magazine

International Construction

About This Report

Pit & Quarry

Roads & Bridges

Rock to Road

Agencies & Associations

American Coal Ash Association

American Concrete Institute

ASTM International

Mineral Products Association

Mine Safety and Health Administration

National Stone, Sand, and Gravel Association

Occupational Safety and Health Administration

Portland Cement Association

United States Census Bureau

United States Department of Energy

United States Environmental Protection Agency

United States Geological Survey

United States Green Building Council

United States International Trade Commission