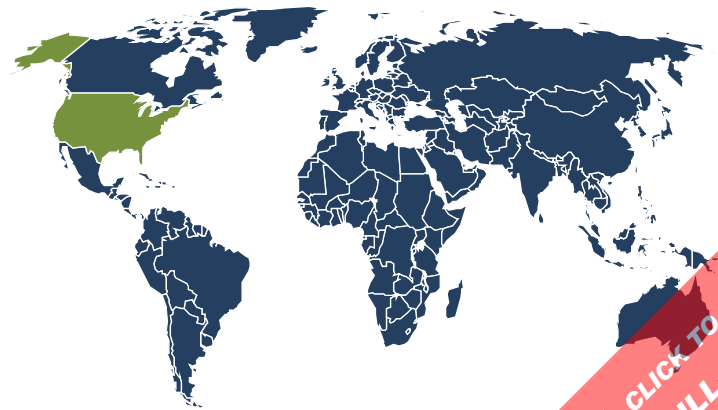




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# Mining & Quarrying: United States

April 2017



## Highlights

### Market Environment

Historical Trends | Key Economic Indicators | Trade  
Environmental and Regulatory Factors

### Segmentation and Forecasts Resources

### Industry Structure

Industry Characteristics | Market Leaders

### Resources

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# ABOUT THIS REPORT

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## Scope & Method

This report forecasts the total activity of US mines and quarries as measured in metric tons of materials handled to 2021. Material handled refers to the excavated volumes of metal ores, industrial minerals, and waste. Total material handled is segmented by targeted resource in terms of:

- copper
- gold
- iron ore
- other metal ores such as lead, molybdenum, and silver
- stone
- sand and gravel
- phosphate rock
- other industrial minerals such as gypsum, industrial clays, and salt.

Mining and quarrying for fuel sources (eg, coal) are excluded from the scope of this report.

To illustrate historical trends, total materials handled, the various segments, and trade are provided in annual series from 2006 to 2016.

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

*Mining & Quarrying: United States* (FF65051) 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 7 | Industry Codes Related to US Mining & Quarrying**

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
212210	Iron Ore Mining	1011	Iron Ores
212221	Gold Ore Mining	1021	Copper Ores
212234	Copper Ore and Nickel Ore Mining	1041	Gold Ores
212311	Dimension Stone Mining and Quarrying	1411	Dimension Stone
212312	Crushed and Broken Limestone Mining and Quarrying	1422	Crushed and Broken Limestone
212313	Crushed and Broken Granite Mining and Quarrying	1423	Crushed and Broken Granite
212319	Other Crushed and Broken Stone Mining and Quarrying	1429	Crushed and Broken Stone, NEC
212321	Construction Sand and Gravel Mining	1442	Construction Sand and Gravel
212322	Industrial Sand Mining	1446	Industrial Sand
212392	Phosphate Rock Mining	1475	Phosphate Rock

Source: US Census Bureau

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## Resources

### The Freedonia Group

#### Freedonia Industry Studies

*World Industrial Silica Sand*, October 2016  
*World Material Handling Equipment*, July 2016  
*World Construction Aggregates*, March 2016  
*World Mining Equipment*, November 2015  
*World Copper*, April 2015

#### Freedonia Focus Reports

*Fabrication Gold: United States*  
*Phosphate Rock: United States*  
*Steel Mill Products: United States*  
*Zinc: United States*

#### Freedonia Custom Research

### Trade Publications

*American Metal Market*  
*Engineering & Mining Journal*  
*Industrial Minerals*  
*Mining Journal*  
*Pit & Quarry*

### Agencies & Associations

Copper Alliance  
National Mining Association  
National Stone, Sand & Gravel Association  
United States Census Bureau  
United States Department of the Interior  
    Bureau of Land Management  
United States Department of Labor  
    Mine Safety and Health Administration  
United States Environmental Protection Agency  
United States Geological Survey  
United States International Trade Commission  
World Gold Council