



Freedonia Focus Reports  
US Collection

# Mining & Quarrying: United States

April 2019



CLICK TO ORDER  
FULL REPORT

**BROCHURE**

CLICK TO ORDER  
FULL REPORT

[www.freedoniafocusreports.com](http://www.freedoniafocusreports.com)

# Table of Contents

---

<b>1. Highlights</b>	<b>3</b>
<b>2. Market Environment</b>	<b>4</b>
Historical Trends	4
Key Economic Indicators	6
Price	7
Trade	9
Environmental & Regulatory Factors	12
<b>3. Segmentation &amp; Forecasts</b>	<b>13</b>
Resources	13
Industrial Minerals	15
Stone	16
Sand & Gravel	17
Phosphate Rock	18
Other Industrial Minerals	19
Metal Ores	20
Gold	21
Copper	22
Iron	23
Other Metals	24
<b>4. Industry Structure</b>	<b>27</b>
Industry Characteristics	27
Market Leaders	30
Barrick Gold	30
Cleveland-Cliffs	31
Freeport-McMoRan	31
Vulcan Materials Company	31
<b>5. About This Report</b>	<b>33</b>
Scope	33
Sources	33
Industry Codes	34
Freedonia Methodology	34
Resources	36

# List of Tables & Figures

---

Figure 1   Key Trends in US Mining & Quarrying Materials Handled, 2018 – 2023	3
Figure 2   US Mining & Quarrying Materials Handled Trends, 2008 – 2018	4
Table 1   Key Indicators for US Mining & Quarrying Materials Handled, 2008 – 2023 (2012US\$ bil)	6
Figure 3   US Mining & Quarrying Resource Price Index, 2008 – 2018 (2008=1.00)	7
Table 2   US Mining & Quarrying Resource Price Index, 2008 – 2018 (2008=1.00)	7
Figure 4   US Metal Ores & Nonmetallic Minerals Trade, 2008 – 2018 (mil m tons)	9
Table 3   US Metal Ores & Nonmetallic Minerals Trade, 2008 – 2018 (mil m tons)	9
Table 4   US Metal Ores & Nonmetallic Minerals Trade, 2008 – 2018 (US\$ mil)	10
Table 5   US Metal Ores & Nonmetallic Minerals Trade by Country, 2008 – 2018 (US\$ mil)	10
Figure 5   US Mining & Quarrying Materials Handled by Resource, 2008 – 2023 (mil m tons)	13
Figure 6   US Mining & Quarrying Materials Handled by Resource, 2008 – 2023 (%)	13
Table 6   US Mining & Quarrying Materials Handled by Resource, 2008 – 2023 (mil m tons)	14
Figure 7   US Industrial Minerals & Waste Handled w/ Construction Expenditures, 2008 – 2023	15
Figure 8   US Metal Ores & Waste Handled w/ Fabricated Metal Products Shipments, 2008 – 2023	20
Table 7   US Mined Metal Ores & Applications	25
Figure 9   US Mining & Quarrying Materials Handled by Resource, 2008 – 2023 (mil m tons)	26
Figure 10   US Industrial Mineral Mines by Resource, 2018 (%)	28
Figure 11   US Metal Ore Mines by Resource, 2018 (%)	28
Table 8   Leading Participants in the US Mining & Quarrying Industry by Resource	30
Table 9   NAICS & SIC Codes Related to Mining & Quarrying	34

# About This Report

---

## Scope

This report forecasts to 2023 US mining and quarrying materials handled in metric tons of material at the mine or quarry level. 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:

- industrial minerals
  - stone
  - sand and gravel
  - phosphate rock
  - other industrial minerals such as gypsum, industrial clays, and salt
- metal ores
  - gold
  - copper
  - iron ore
  - other metal ores such as lead, lithium, magnesium, tin, and zinc

To illustrate historical trends, total materials handed, the various segments, and trade are provided in annual series from 2008 to 2018.

Mining and quarrying for fuel sources (e.g., coal) are excluded from the scope of this report, as are oil and gas extraction. Re-exports of mined materials and waste are excluded from the scope of this report.

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 secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- intergovernmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group

## About This Report

- 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 9 | NAICS & SIC Codes Related to Mining & Quarrying

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
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

## 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 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,

## About This Report

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.

## Copyright & Licensing

The full report is protected by copyright laws of the United States of America and international treaties. The entire contents of the publication are copyrighted by The Freedonia Group.

## Resources

### The Freedonia Group

#### Freedonia Industry Studies

*Global Housing*

*Global Industrial Silica Sand*

*Global Mining Equipment*

*Precast Concrete Products*

#### Freedonia Focus Reports

*Aluminum: United States*

*Coal: United States*

*Gypsum: United States*

*Industrial Clays: United States*

*Jewelry & Watches: United States*

*Lead: United States*

*Nonresidential Building Construction: United States*

*Sheet Metal: United States*

*Steel Mill Products: United States*

*Tin: United States*

#### Freedonia Custom Research

### Trade Publications

*American Metal Market*

*Engineering & Mining Journal*

*Industrial Minerals*

*Mining.com*

*Mining Journal*

*Pit & Quarry*

### Agencies & Associations

International Copper Association

National Mining Association

National Stone, Sand & Gravel Association

United States Census Bureau

United States Department of Labor

    Mine Safety & Health Administration

United States Environmental Protection Agency

United States Geological Survey

United States International Trade Commission