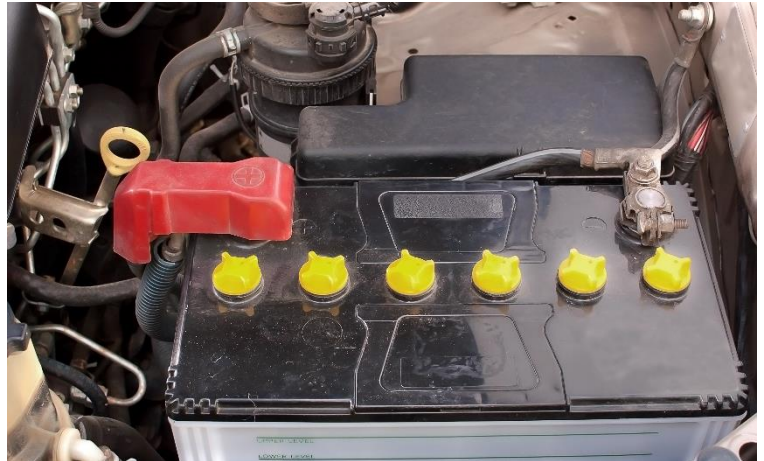


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Lead: United States

March 2018



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About This Report

Scope & Method

This report forecasts to 2022 US lead demand and production in metric tons of lead content. Total demand is segmented by application in terms of:

- batteries
- metal products
- other applications such as glass and ceramic products, paint, and chemicals

The following measures of US lead production, in metric tons of lead content are also forecast to 2022:

- mine production
- secondary refinery production

To illustrate historical trends, total demand; mine, primary refinery, and secondary refinery production; the various demand segments; and trade are provided in annual series from 2007 to 2017.

Re-exports of lead are excluded from demand and trade figures.

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

Lead: United States (FF65018) 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

About This Report

- 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 9 | Industry Codes Related to Lead

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
212231	Lead Ore and Zinc Ore Mining	1031	Lead and Zinc Ores
331419	Primary Smelting and Refining of Nonferrous Metal (except Copper and Aluminum)	3339	Primary Smelting and Refining of Nonferrous Metals, except Copper and Aluminum
331491	Nonferrous Metal (except Copper and Aluminum) Rolling, Drawing, and Extruding	3341	Secondary Smelting and Refining of Nonferrous Metals
331492	Secondary Smelting, Refining, and Alloying of Nonferrous Metal (except Copper and Aluminum)	3356	Rolling, Drawing, and Extruding of Nonferrous Metals, except Copper and Aluminum
332992	Small Arms Ammunition Manufacturing	3482	Small Arms Ammunition
335911	Storage Battery Manufacturing	3691	Storage Batteries
423520	Coal and Other Mineral and Ore Merchant Wholesalers	5052	Coal and Other Minerals and Ores

Source: US Census Bureau

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Resources

The Freedonia Group

Freedonia Industry Studies

Metal Roofing Market in the US, August 2017
Automotive Batteries Aftermarket in North America, July 2017
Architectural Paint Market in the US, February 2017
Paint & Coatings: US Market Forecast, February 2017
Rechargeable (Secondary) Batteries, September 2016
Rigid Bulk Packaging, September 2016
World Bearings, August 2016
World Paint & Coatings, June 2016

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Fabricated Metal Products: United States
Fabrication Gold: United States
Steel Mill Products: United States
Tin: United States
Titanium: United States
World Bearings
Zinc: United States

Freedonia Custom Research

Trade Publications

American Metal Market
Batteries International
Battery Power
Metal Bulletin
Recycling Today
S&P Global Platts

Agencies & Associations

Advanced Lead Acid Battery Consortium
Association of Battery Recyclers
Battery Council International
Institute of Scrap Recycling Industries

About This Report

International Lead and Zinc Study Group
International Lead Association
London Metal Exchange
Plumbing Manufacturers International
United States Consumer Product Safety Commission
United States Department of Commerce
 Bureau of Economic Analysis
 United States Census Bureau
United States Environmental Protection Agency
United States Geological Survey
United States International Trade Commission
World Bank