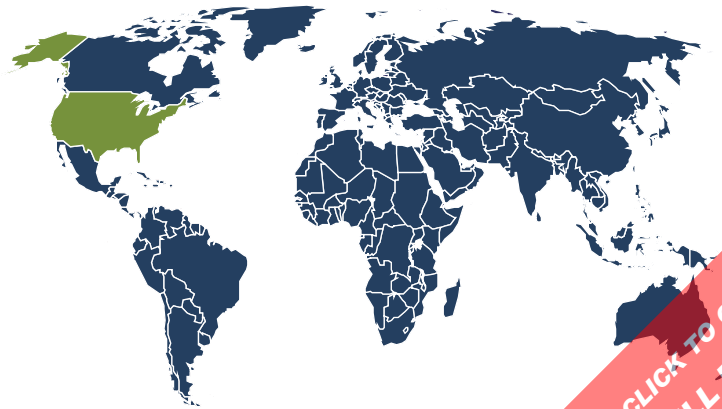




Freedonia Focus Reports
US Collection

Recovered Metals: United States

March 2017



Highlights

Market Environment

Historical Trends | Key Economic Indicators | Recycling Initiatives
Secondary Metal Production

Segmentation and Forecasts

Metals Generation and Recovery

Industry Structure

Industry Composition and Characteristics | Companies Cited

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ABOUT THIS REPORT

Scope & Method

This report forecasts the total recovery of post-consumer metal from the US municipal solid waste (MSW) stream in short tons to 2021. For comparison, this report also forecasts to 2021 the total generation of post-consumer metal in short tons. Total MSW metal recovery and generation are segmented by material as follows:

- steel and other ferrous
- lead
- aluminum
- other nonferrous (generation only).

Pre-consumer metal (industrial scrap) and lead from non-battery sources and non-vehicle batteries are excluded from the scope of this report. The following materials are also excluded from this analysis because MSW volumes are considered negligible (less than 0.05% of the total volume) or a method for accurately quantifying these volumes has not been established:

- recovery of aluminum from nondurable and durable goods
- recovery of other nonferrous metals (such as copper, titanium, zinc, and brass).

Throughout this report, measures in tons refer to short tons. To illustrate historical trends, total metal generated and recovered 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

Recovered Metals: United States (FF65055) 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

The topic of this report is related to the following industry codes:

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
331111	Iron and Steel Mills	3312	Steel Works, Blast Furnaces (including
331314	Secondary Smelting and Alloying of Aluminum	3341	Coke Ovens), and Rolling Mills
332431	Metal Can Manufacturing	3341	Secondary Smelting and Refining of Nonferrous Metals
335911	Storage Battery Manufacturing	3411	Metal Cans
423930	Recyclable Material Merchant Wholesalers	3691	Storage Batteries
562111	Solid Waste Collection	4212	Local Trucking Without Storage
562920	Materials Recovery Facilities	4953	Refuse Systems
		5093	Scrap and Waste Materials

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Trade Publications

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<http://americanrecycler.com>

Recycling Today

www.recyclingtoday.com

Resource Recycling

<http://resource-recycling.com>

Waste Dive

www.wastedive.com

Waste Management World

<https://waste-management-world.com>

Waste360

www.waste360.com

Agencies & Associations

The Aluminum Association

www.aluminum.org

American Iron and Steel Institute

www.steel.org

Association of Battery Recyclers

www.associationofbatteryrecyclers.com

Container Recycling Institute

www.container-recycling.org

Institute of Scrap Recycling Industries

www.isri.org

The Recycling Partnership

<http://recyclingpartnership.org>

Steel Manufacturers Association

www.steelnet.org

Steel Recycling Institute

www.recycle-steel.org

United States Census Bureau

www.census.gov

United States Environmental Protection Agency

www.epa.gov

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