

# Mineral Industry Surveys

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## MANGANESE IN JANUARY 2015

Preliminary data for January 2015 indicated that domestic consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 65,900 metric tons (t) (gross weight). This was a slight increase compared with the amount consumed in December 2014 (65,300 t), and 76% more than that consumed in January 2014 (37,500 t). This year-over-year increase was primarily the result of resumed production at Felman Production, LLC's silicomanganese production facility in Letart, WV, in July 2014. Industry stocks of ore at the end of January 2015 were estimated to be 161,000 t, which was slightly more than the amount at the end of December 2014 (158,000 t).

Included in this Mineral Industry Surveys are U.S. spot market prices and U.S. foreign trade data for selected manganese-containing materials in January 2015.

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TABLE 1  
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN JANUARY 2015

	High	Low	Average	Average low, mid, and high
<b>Manganese ferroalloys:<sup>1</sup></b>				
High-carbon ferromanganese, 75% manganese      dollars per long ton of contained manganese	1,080.00	1,040.00	1,057.50	XX
Medium-carbon ferromanganese, 85% manganese      cents per pound of contained manganese	98.00	97.00	97.50	XX
Silicomanganese, 65% manganese      do.	58.00	56.00	56.50	XX
Manganese metal, 99.9% manganese flake <sup>2</sup> cents per pound	130.00	125.00	XX	125.00–127.50–130.00
<b>Manganese ore:<sup>3,4</sup></b>				
36%–39% manganese      dollars per metric ton unit contained manganese	3.80	3.55	XX	3.66–3.70–3.75
44% manganese      do.	4.45	4.18	XX	4.28–4.35–4.43
46% manganese      do.	4.80	4.39	XX	4.54–4.62–4.75

do. Ditto. XX Not applicable.

<sup>1</sup>Platts Metals Week; in U.S. warehouse; average prices reported for all transactions during the month.

<sup>2</sup>CRU Ryan's Notes North American transaction prices, electrolytic manganese metal flake, 99.99% manganese, free-on-board producing point or Chicago/Pittsburgh warehouse; average prices reported for the price range.

<sup>3</sup>CRU Ryan's Notes, cost and freight, China; average prices reported for the price range.

<sup>4</sup>To determine dollars per metric ton of ore (gross weight), multiply the manganese content percentage by the price; that is, by 46 when the manganese content is 46%.

TABLE 2  
SELECTED U.S. FOREIGN TRADE IN MANGANESE<sup>1</sup>

(Metric tons, manganese content)<sup>2</sup>

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2014, January	6,510	32,200	38,700	21	1,130	1,150
2015, January	25,200	53,800	78,900	9	894	903

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

Source: U.S. Census Bureau.

TABLE 3  
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JANUARY 2015<sup>1</sup>

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>2</sup>
Australia	7,510	4,880	\$8,440,000
Georgia	14,900	10,800	15,800,000
India	567	355	895,000
Norway	2,050	1,330	1,960,000
South Africa	15,900	10,300	17,100,000
Spain	2,420	1,580	2,390,000
Total	43,300	29,200	46,600,000

<sup>1</sup>Data are rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 4  
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JANUARY 2015<sup>1</sup>

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>2</sup>
Low carbon:			
China	1,470	1,370	\$3,140,000
Germany	24	20	58,400
Norway	128	104	227,000
Total	1,620	1,490	3,430,000
Medium carbon, 1%–2% C:			
Mexico	71	55	146,000
South Africa	6,450	5,170	10,500,000
Total	6,520	5,230	10,600,000
High carbon:			
Brazil	162	124	132,000
Norway	1	1	2,720
South Africa	16,400	12,500	15,100,000
Ukraine	2,900	2,250	2,640,000
Total	19,500	14,900	17,900,000
Grand total	27,600	21,600	32,000,000

<sup>1</sup>Data rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 5  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn)  
IN JANUARY 2015<sup>1</sup>

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>2</sup>
More than 20%, but less than 47% manganese, Gabon	9,000	3,870	\$979,000
47% or more manganese:			
Brazil	53	25	22,900
Canada	38	20	8,220
China	4	2	3,920
Gabon	39,800	20,700	8,670,000
Total	39,900	20,700	8,700,000
Grand total	48,900	24,600	9,680,000

<sup>1</sup>Data rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 6  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE  
DIOXIDE IN JANUARY 2015<sup>1</sup>

(Metric tons, gross weight)

Source	Quantity	Customs value <sup>2</sup>
Belgium	1	\$5,800
China	63	64,900
Germany	6	10,100
Japan	433	920,000
Netherlands	15	24,900
Singapore	12	20,200
South Africa	275	468,000
Turkey	156	266,000
Total	961	1,780,000

<sup>1</sup>Data rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 7  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN JANUARY 2015<sup>1</sup>

(Metric tons)

Source	Gross weight	Customs value <sup>2</sup>
<b>Unwrought flake:</b>		
China	1,060	\$2,080,000
Japan	4	13,700
Mexico	4	10,900
South Africa	789	2,070,000
Total	1,860	4,180,000
<b>Unwrought powder:</b>		
China	40	86,600
Mexico	23	65,800
South Africa	178	543,000
Total	241	695,000
<b>Unwrought, other:</b>		
China	715	1,690,000
Germany	33	75,900
South Africa	19	50,400
United Kingdom	( <sup>3</sup> )	2,790
Total	767	1,820,000
<b>Other manganese, wrought:</b>		
Germany	38	468,000
Mexico	6	26,000
Total	43	494,000
Grand total	2,910	7,190,000

<sup>1</sup>Data rounded to no more than three significant digits; may not add to totals shown.

<sup>2</sup>Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

<sup>3</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 8  
 U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE,  
 SILICOMANGANESE, FERROMANGANESE, SILICOMANGANESE, AND MANGANESE  
 METAL BY COUNTRIES OF DESTINATION IN JANUARY 2015<sup>1,2</sup>

Source	Gross weight (metric tons)	F.a.s. <sup>3</sup> value (thousands)
<b>Ore and concentrates with 20% or more manganese:</b>		
Mexico	2	\$6
Netherlands	16	62
Total	18	67
<b>Ferromanganese:</b>		
2% or less carbon:		
Canada	527	804
Mexico	2	5
Total	529	809
More than 2% carbon, Canada	212	214
<b>Silicomanganese:</b>		
Canada	130	138
Mexico	142	201
Total	272	339
<b>Metal, including alloys and waste and scrap:<sup>4</sup></b>		
Korea, Republic of	2	6
Malaysia	99	42
Mexico	2	41
Netherlands	26	105
Taiwan	(5)	4
United Kingdom	(5)	3
Total	129	201
Grand total	1,160	1,630

<sup>1</sup>Presentation of monthly data is based on the January quantities of the leading countries.

<sup>2</sup>Data rounded to no more than three significant digits; may not add to totals shown.

<sup>3</sup>Free alongside ship.

<sup>4</sup>Includes manganese-aluminum, other alloys, and waste and scrap.

<sup>5</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 9  
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS  
IN JANUARY 2015, BY CLASS<sup>1</sup>

Class	Gross weight (metric tons)	Value <sup>2</sup> (thousands)	Principal sources and destinations: gross weight (metric tons); value <sup>2</sup> (thousands)
<b>Imports for consumption:</b>			
Manganese oxides other than dioxide	622	\$494	Korea, Republic of 478; \$355
Manganites, manganates, and other permanganates	41	129	China 38; \$99
Potassium permanganate	104	301	India 104; \$301
Sodium permanganate	124	231	China 124; \$225
Sulfates, basket category, including manganese sulfate	3,460	2,870	Mexico 1,780; \$1,480
<b>Exports:</b>			
Manganese dioxide	293	505	Canada 194; \$188
Manganese oxides other than dioxide	709	1,120	Netherlands 83; \$198
Manganites, manganates, and other permanganates	6	17	Canada 5; \$11
Potassium permanganate	342	877	Belgium 300; \$685
Sodium permanganate	65	201	Mexico 37; \$149
Sulfates, basket category, including manganese sulfate	1,520	1,320	Canada 1,330; \$796

<sup>1</sup>Data are rounded to no more than three significant digits.

<sup>2</sup>For imports, customs value; for exports, free alongside ship value.

Source: U.S. Census Bureau.