



# Mineral Industry Surveys

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## MANGANESE IN JANUARY 2014

Preliminary domestic data (gross weight) for January 2014 indicated that consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 37,800 metric tons (t). This was slightly less than the amount consumed in December 2013. Manganese ore consumption in January 2014 was 29% less than the revised amount (53,500 t) consumed in January 2013. This decrease in manganese ore consumption was primarily the result of continuing curtailment at Felman Production, LLC's

silicomanganese production facility in Letart, WV. Industry stocks of ore at the end of January 2014 were estimated to be 193,000 t, which was a slight increase from those at the end of December 2013.

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 2014.

TABLE 1  
 PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN JANUARY 2014

		High	Low	Average	Average low, mid, and high
<u>Manganese ferroalloys:<sup>1</sup></u>					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,070.00	990.00	1,033.13	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	87.00	86.00	86.75	XX
Silicomanganese, 65% manganese	do.	59.00	53.00	56.81	XX
Manganese metal, 99.9% manganese flake <sup>2</sup>	cents per pound	130.00	128.00	XX	128.00–129.00–130.00
<u>Manganese ore:<sup>3,4</sup></u>					
36%–39% manganese	dollars per metric ton unit contained manganese	4.50	4.25	XX	4.25–4.38–4.50
44% manganese	do.	5.30	5.15	XX	5.17–5.23–5.30
46% manganese	do.	5.45	5.35	XX	5.35–5.40–5.45

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>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>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
2013, January	11,300	26,200	37,500	16	464	480
2014, January	6,510	32,200	38,700	21	1,130	1,150

<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 2014<sup>1</sup>

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>2</sup>
Australia	10,200	6,920	\$8,910,000
Brazil	3,020	1,980	3,060,000
Georgia	1,130	817	1,040,000
Mexico	3,000	1,960	3,080,000
Norway	4,290	2,840	4,180,000
South Africa	10,100	6,600	10,200,000
Total	31,800	21,100	30,500,000

<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 4  
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JANUARY 2014<sup>1</sup>

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>2</sup>
<b>Low carbon:</b>			
China	1,120	1,030	\$2,520,000
France	19	15	48,300
Norway	554	446	825,000
South Africa	297	282	712,000
Total	1,990	1,770	4,110,000
<b>Medium carbon, 1%–2% C:</b>			
Mexico	59	45	83,200
Norway	582	472	715,000
Total	641	516	799,000
<b>Medium carbon, 2%–4% C, Brazil</b>			
	135	100	123,000
<b>High carbon:</b>			
Australia	3,910	2,970	2,450,000
Brazil	135	101	117,000
Canada	10	7	13,500
Korea, Republic of	200	153	199,000
South Africa	3,330	2,520	2,340,000
Ukraine	44	30	58,400
Total	7,620	5,780	5,190,000
Grand total	10,400	8,170	10,200,000

<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 2014<sup>1,2</sup>

(Metric tons)

Source	Gross weight	Mn content	Customs value <sup>3</sup>
<b>More than 20%, but less than 47% manganese:</b>			
Mexico	60	28	\$19,200
Gabon	9,020	4,240	1,290,000
Total	9,080	4,270	1,310,000
<b>47% or more manganese:</b>			
Brazil	2,830	1,520	1,240,000
South Africa	100	49	51,000
Total	2,930	1,560	1,290,000
Grand total	12,000	5,830	2,600,000

<sup>1</sup>Quantities for general imports and imports for consumption are identical.

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

<sup>3</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 2014<sup>1</sup>

(Metric tons, gross weight)

Source	Quantity	Customs value <sup>2</sup>
China	2	\$7,930
Japan	358	836,000
Netherlands	80	34,000
Singapore	12	20,200
South Africa	681	1,290,000
Total	1,130	2,190,000

<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.

Source: U.S. Census Bureau.

TABLE 7  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN JANUARY 2014<sup>1</sup>

(Metric tons)

Source	Gross weight	Customs value <sup>2</sup>
<b>Unwrought flake:</b>		
China	650	\$1,410,000
Japan	46	157,000
Mexico	56	179,000
South Africa	972	2,600,000
Total	1,730	4,350,000
<b>Unwrought powder:</b>		
China	20	45,200
South Africa	278	973,000
Total	298	1,020,000
<b>Unwrought, other:</b>		
China	767	1,790,000
South Africa	58	172,000
Spain	1	2,400
Total	827	1,960,000
Metallic waste and scrap, Canada	102	228,000
Grand total	2,950	7,560,000

<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 8  
 U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE,  
 AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN JANUARY 2014<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>		
China	19	\$17
Malaysia	6	8
Netherlands	18	88
Total	43	112
<b>Ferromanganese:</b>		
2% or less carbon:		
Canada	1,050	1,560
Japan	80	143
Spain	40	82
Total	1,170	1,790
More than 2% carbon:		
Malaysia	2	6
Singapore	2	4
Total	4	10
<b>Silicomanganese:</b>		
Canada	39	60
Mexico	20	33
Total	59	93
<b>Metal, including alloys and waste and scrap:<sup>4</sup></b>		
Canada	3	7
China	4	18
India	20	13
Korea, Republic of	(5)	(5)
Malaysia	55	25
Mexico	22	63
Norway	18	833
Philippines	36	19
Taiwan	2	75
Total	162	1,060
Grand total	1,440	3,060

<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 2014, 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	433	\$405	Korea, Republic of 200; \$154
Manganites, manganates, and other permanganates	(3)	5	Canada (3); \$5
Potassium permanganate	216	620	India 216; \$620
Sodium permanganate	135	321	China 135; \$321
Sulfates, basket category, including manganese sulfate	6,310	5,000	China 2,110; \$1,830
<b>Exports:</b>			
Manganese dioxide	359	935	Canada 137; \$149
Manganese oxides other than dioxide	699	1,170	Norway 133; \$70
Manganites, manganates, and other permanganates	43	116	Mexico 36; \$101
Potassium permanganate	248	699	Belgium 109; \$259
Sodium permanganate	18	58	Korea, Republic of 13; \$36
Sulfates, basket category, including manganese sulfate	1,580	1,660	Canada 1,310; \$852

<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.

<sup>3</sup>Less than ½ unit.

Source: U.S. Census Bureau.