

Mineral Industry Surveys

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MANGANESE IN JANUARY 2016

Preliminary data for January 2016 indicated that domestic consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 32,600 metric tons (t) (gross weight). This was a 10% decrease compared with the amount consumed in December 2015 (36,300 t), and 50% less than that consumed in January 2015 (65,700 t). Industry stocks of ore at the end of January 2016 were estimated to be 154,000 t, which was a 6% decrease from the amount at the end of December 2015 (165,000 t).

Combined U.S. imports of manganese dioxide and manganese ore (contained weight) were 99% less than those in December 2015 and in January 2016 (table 2). The amounts of manganese ore (gross weight) that were consumed and imported from January 2014 through January 2016 are shown in figure 1.

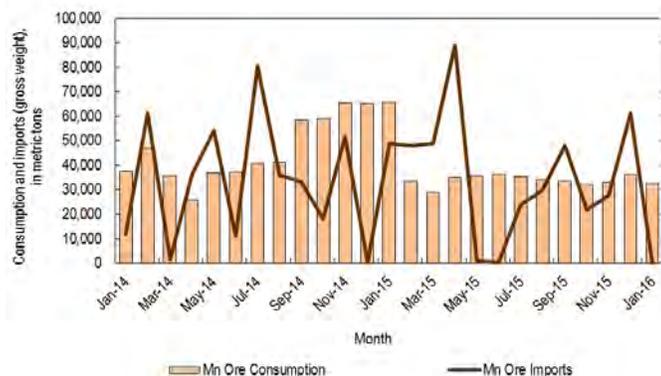


Figure 1. Monthly domestic consumption and imports of manganese (Mn) ore from January 2014 through January 2016. Sources: U.S. Census Bureau and U.S. Geological Survey.

Average spot-market prices for three grades of manganese ore delivered to China from January 2014 through January 2016 are shown in figure 2. In January 2016, the average monthly spot prices were \$1.73 per metric ton unit, 36%–39% grade; \$1.84 per metric ton unit, 44% grade; and \$1.94 per metric ton unit,

46% grade (fig. 2, table 1). These were all significantly lower than manganese ore prices at the start of 2015—58% less for both the 44% and 46% grades and 53% less for the 36%–39% grade. Compared with January 2014 prices, the average monthly prices were considerably lower—65% less for the 44% ore grade, 64% less for the 46% ore grade, and 61% less than the 36%–39% ore grade.

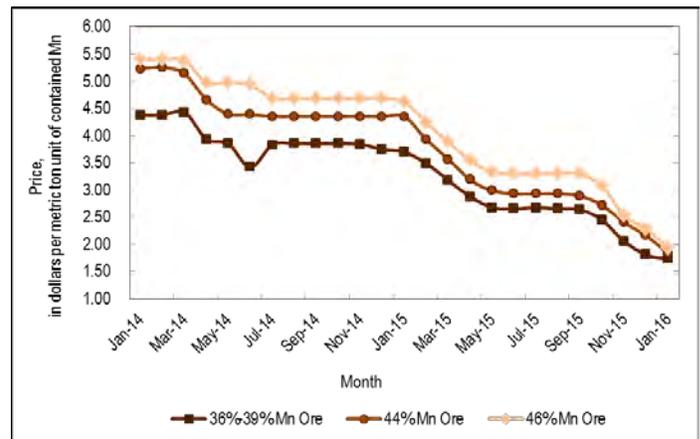


Figure 2. Average monthly spot prices for manganese (Mn) ore deliveries to China from January 2014 through January 2016. Prices are reported in dollars per metric ton unit of contained Mn. Source: CRU Ryan’s Notes.

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TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN JANUARY 2016

		High	Low	Average
Manganese ferroalloys:¹				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	820.00	760.00	787.50
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	83.00	82.00	82.50
Silicomanganese, 65% manganese	do.	38.00	34.00	36.25
Manganese metal, 99.9% manganese flake ²	cents per pound	87.00	84.00	85.56
Manganese ore:^{3,4}				
36%–39% manganese	dollars per metric ton unit contained manganese	1.95	1.50	1.73
44% manganese	do.	2.20	1.80	1.84
46% manganese	do.	2.30	1.90	1.94

do. Ditto.

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

²CRU Ryan's Notes North American transaction prices, electrolytic manganese metal flake, 99.99% manganese, free-on-board producing point or Chicago warehouse; average prices reported for all transactions during the month.

³CRU Ryan's Notes, cost and freight, China; average prices reported for all transactions during the month.

⁴To determine dollars per metric ton of ore (gross weight), multiply the manganese content percentage by the price; that is, by 46 when the manganese co

TABLE 2
SELECTED U.S. FOREIGN TRADE IN MANGANESE¹

(Metric tons, manganese content)²

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2015, January	25,200	53,800	78,900	9	894	903
2016, January	252	53,700	53,900	29	1,970	2,000

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

²As 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 2016¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²
Australia	5,210	3,420	\$3,040,000
Brazil	807	552	523,000
Georgia	15,600	11,200	12,300,000
India	282	169	302,000
Mexico	2,870	1,870	2,030,000
Norway	1,250	753	1,410,000
Russia	14	9 ³	20,400
South Africa	7,800	5,080	5,810,000
Spain	98	63	84,100
Total	33,900	23,100	25,500,000

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

²Customs 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.

³Adjusted by the U.S. Geological Survey based on the stoichiometric ratio of silicomanganese (66.17%).

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JANUARY 2016¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²
Low carbon:			
China	773	722	\$1,170,000
Germany	25	24	54,400
Korea, Republic of	900	828	1,530,000
Mexico	500	402	559,000
Norway	2,070	1,670	2,390,000
South Africa	50	46	82,000
Total	4,320	3,690	5,790,000
Medium carbon, 1%–2% C:			
Australia	1,930	1,550	1,750,000
Korea, Republic of	6,000	4,800	6,980,000
Mexico	858	671	1,100,000
Norway	700	569	705,000
South Africa	2,570	2,080	3,730,000
Total	12,100	9,670	14,300,000
High carbon:			
Australia	10,900	8,130	9,720,000
Canada	19	14	47,000
Georgia	5,000	3,760	3,440,000
Korea, Republic of	633	492	912,000
Norway	255	198	368,000
South Africa	2,590	1,980	1,980,000
Ukraine	78	49	89,200
Total	19,500	14,600	16,600,000
Grand total	35,900	28,000	36,600,000

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

²Customs 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 2016¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²
More than 20%, but less than 47% manganese:	--	--	--
47% or more manganese:			
Brazil	53	27	\$25,200
Morocco	39	22	51,100
South Africa	(3)	(3)	2,690
Total	91	49	78,900
Grand total	91	49	78,900

-- Zero.

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

²Customs 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.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE
IN JANUARY 2016¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²
Belgium	37	\$62,200
Brazil	10	17,500
India	17	33,900
Japan	263	618,000
Singapore	11	19,100
Total	338	751,000

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

²Customs 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 2016¹

(Metric tons)

Source	Gross weight	Customs value ²
Unwrought flake:		
China	572	\$1,950,000
Japan	16	54,800
South Africa	594	1,120,000
Total	1,180	3,130,000
Unwrought powder:		
Mexico	22	71,900
South Africa	178	507,000
Total	199	579,000
Unwrought, other:		
China	1,070	1,800,000
Germany	19	35,800
South Africa	81	173,000
Total	1,170	2,010,000
Other manganese, wrought:		
China	(3)	3,000
Germany	12	116,000
Japan	(3)	11,100
Total	12	131,000
Metallic waste and scrap, Canada	66	15,900
Grand total	2,630	5,860,000

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

²Customs 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.

³Less than ½ unit.

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 2016^{1,2}

Source	Gross weight (metric tons)	F.a.s. ³ value (thousands)
Ore and concentrates with 20% or more manganese:		
Canada	19	\$15
Korea, Republic of	3	17
Mexico	4	13
Netherlands	32	134
Total	58	180
Ferromanganese:		
2% or less carbon:		
Canada	5	10
Colombia	2	4
Total	8	14
More than 2% carbon:		
Canada	1,820	1,520
Total	1,820	1,520
Silicomanganese:		
Canada	18	23
Mexico	1	4
Venezuela	3	5
Total	22	32
Metal, including alloys and waste and scrap:⁴		
Canada	4	9
Costa Rica	(5)	6
Germany	20	82
India	12	188
Malaysia	460	189
Mexico	(5)	13
Netherlands	18	71
United Kingdom	2	11
Total	517	569
Grand total	2,420	2,320

¹Presentation of monthly data is based on the January quantities of the leading countries.

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

³Free alongside ship.

⁴Includes manganese-aluminum, other alloys, and waste and scrap.

⁵Less than 1/2 unit.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS
IN JANUARY 2016, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)
Imports for consumption:			
Manganese oxides other than dioxide	1,240	\$628	Brazil 1,020; \$310
Manganites, manganates, and other permanganates	--	--	--
Potassium permanganate	36	91	India 36; \$91
Sodium permanganate	58	137	China 58; \$137
Sulfates, basket category, including manganese sulfate	4,950	4,000	Mexico 1,720; \$1,490
Exports:			
Manganese dioxide	349	548	Canada 244; \$176
Manganese oxides other than dioxide	595	1,100	Canada 167; \$238
Manganites, manganates, and other permanganates	3	16	Canada 2; \$4
Potassium permanganate	208	516	Belgium 91; \$213
Sodium permanganate	20	78	Mexico 18; \$64
Sulfates, basket category, including manganese sulfate	1,720	1,170	Canada 1,390; \$521

-- Zero.

¹Data are rounded to no more than three significant digits.

²For imports, customs value; for exports, free alongside ship value.

Source: U.S. Census Bureau.