

Mineral Industry Surveys

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MANGANESE IN JANUARY 2017

Preliminary data for January 2017 indicated that domestic consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 26,400 metric tons (t) (gross weight). This was a 6% decrease compared with the amount consumed in December 2016 (28,200 t). Manganese ore consumption in January 2017 was 23% less than that in January 2016 (34,100 t) (fig. 1). Industry stocks of ore at the end of January 2017 were 148,000 t, 8% less than that at the end of December 2016 (160,000 t).

On a gross-weight basis, U.S. imports of manganese ore in January 2017 were 53,800 t, slightly more than the amount imported in December 2016 (53,200 t) (fig. 1, table 5).

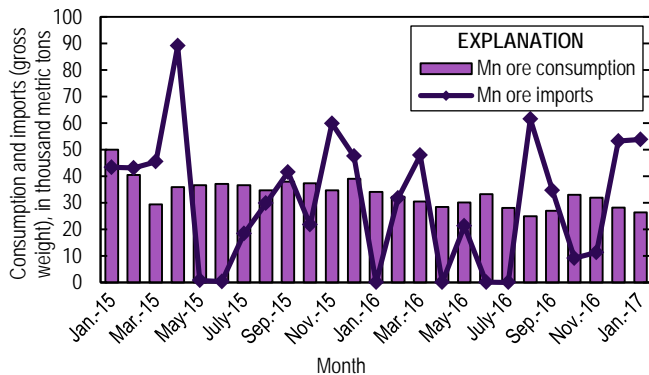


Figure 1. Monthly domestic consumption and imports of manganese (Mn) ore from January 2015 through January 2017. Sources: U.S. Census Bureau and U.S. Geological Survey.

In January 2017, the average monthly spot-market prices for manganese ore deliveries to China decreased compared to those in December 2016. The average spot prices were 7.41 dollars

per metric ton unit, 36%–39% grade; 8.22 dollars per metric ton unit, 44% grade; and 8.39 dollars per metric ton unit, 46% grade (fig. 2, table 1). These were less than those in December 2016—7% for the 36%–39% grade, 7% for the 44% grade, and 9% for the 46% grade. However, they were significantly higher than those at the beginning of 2016—328% for the 36%–39% grade, 347% for the 44% grade, and 332% for the 46% grade.

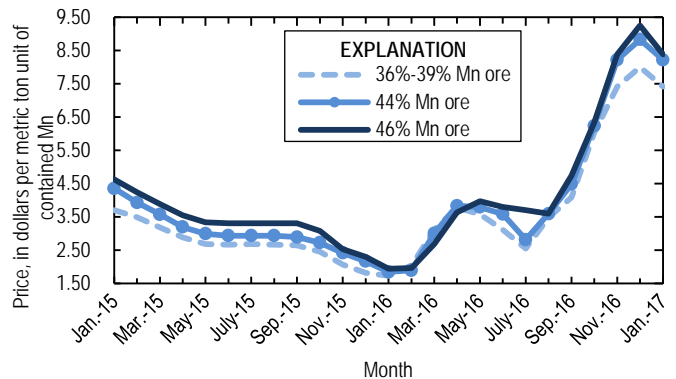


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from January 2015 through January 2017. Source: CRU Ryan's Notes.

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TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN JANUARY 2017

		Low	Average	High
<u>Manganese ferroalloys:¹</u>				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,400.00	1,435.00	1,470.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	94.00	99.00	112.00
Silicomanganese, 65% manganese	do.	69.00	70.50	72.00
Manganese metal, 99.9% manganese flake ²	cents per pound	120.00	130.28	137.00
<u>Manganese ore:^{3,4}</u>				
36%-39% manganese	dollars per metric ton unit contained manganese	5.80	6.73	7.70
44% manganese	do.	6.60	7.88	9.20
46% manganese	do.	7.55	8.68	9.45

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/Pittsburgh warehouse; Average prices reported for the price range.

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

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 content is 46%.

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
2016, January	252	53,700	53,900	29	1,970	2,000
2017, January	27,700	33,200	60,900	9	901	910

¹Revised.

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 2017¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²
Australia	6,510	4,320	\$7,120,000
Georgia	784	568	576,000
India	501	296	642,000
Mexico	4,650	3,030	4,900,000
Norway	1,320	798	1,920,000
Russia	4,970	3,360	6,340,000
South Africa	10,400	6,760	7,800,000
Total	29,100	19,100	29,300,000

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.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JANUARY 2017¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²
Low carbon:			
China	870	814	\$1,360,000
Japan	15	12	34,800
Norway	3,270	2,660	5,360,000
Total	4,150	3,480	6,750,000
Medium carbon, 1%–2% C:			
Mexico	270	203	463,000
Norway	500	408	738,000
South Africa	2,540	2,060	3,330,000
Total	3,310	2,670	4,530,000
High carbon:			
Australia	9,840	4,290	8,820,000
Brazil	201	146	140,000
Canada	20	13	24,300
Mexico	160	115	132,000
South Africa	1,960	1,490	2,190,000
Total	12,200	6,050	11,300,000
Grand total	19,600	12,200	22,600,000

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 2017¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²
More than 20%, but less than 47% manganese, South Africa	5,000	2,320	\$1,460,000
47% or more manganese:			
Brazil	48	25	20,200
Gabon	47,300	24,300	10,800,000
Mexico	1,410	706	513,000
Morocco	39	22	50,900
South Africa	17	8	4,080
Total	48,800	25,100	11,400,000
Grand total	53,800	27,400	12,800,000

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 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE
IN JANUARY 2017¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²
Canada	3	\$3,380
China	13	38,000
Germany	2	8,540
Japan	360	738,000
Singapore	11	19,100
Ukraine	6	10,800
Total	395	817,000

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 2017¹

(Metric tons)

Source	Gross weight	Customs value ²
Unwrought flake:		
Gabon	150	\$269,000
Japan	31	170,000
South Africa	723	1,650,000
Total	904	2,090,000
Unwrought powder:		
Mexico	25	82,900
South Africa	176	474,000
Total	201	557,000
Unwrought, other:		
Belgium	19	37,600
China	426	896,000
Germany	155	297,000
South Africa	82	166,000
Total	682	1,400,000
Other manganese, wrought:		
Germany	21	204,000
India	(3)	2,110
Mexico	6	23,600
Total	27	229,000
Metallic waste and scrap, Canada	71	21,700
Grand total	1,890	4,300,000

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 2017^{1,2}

Source	Gross weight (metric tons)	F.a.s. ³ value (thousands)
Ore and concentrates with 20% or more manganese:		
China	(4)	\$5
Mexico	2	6
Netherlands	16	68
Total	18	78
Ferromanganese:		
2% or less carbon:		
Canada	128	201
Israel	5	9
Total	133	210
More than 2% carbon:		
Argentina	3	9
Brazil	21	59
Canada	70	80
Malaysia	1	4
Mexico	14	47
Singapore	4	12
United Kingdom	3	9
Total	117	220
Silicomanganese, Canada	633	868
Metal, including alloys and waste and scrap: ⁵		
Argentina	(4)	9
Belgium	4	75
China	45	171
Costa Rica	(4)	5
Dominican Republic	3	19
El Salvador	4	15
Germany	1	6
India	105	29
South Korea	(4)	4
Malaysia	117	122
Mexico	2	9
United Kingdom	4	45
Total	286	507
Grand total	1,190	1,880

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.

⁴Less than ½ unit.

⁵Includes manganese-aluminum, other alloys, and waste and scrap.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS
IN JANUARY 2017, 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	1,800	\$1,140	South Africa 1,140; \$510
Manganites, manganates, and other permanganates	(3)	3	Canada (3); \$3
Potassium permanganate	80	197	India 72; \$182
Sodium permanganate	18	42	India 18; \$42
Sulfates, basket category, including manganese sulfate	5,840	5,180	China 1,840; \$1,180
Exports:			
Manganese dioxide	237	407	Canada 126; \$150
Manganese oxides other than dioxide	496	751	Netherlands 95; \$73
Manganites, manganates, and other permanganates	4	9	Canada 4; \$9
Potassium permanganate	139	457	Brazil 98; \$229
Sodium permanganate	23	58	Belgium 19; \$41
Sulfates, basket category, including manganese sulfate	1,230	2,020	Canada 784; \$503

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

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

³Less than ½ unit.

Source: U.S. Census Bureau.