

Mineral Industry Surveys

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MANGANESE IN JANUARY 2018

Preliminary data for January 2018 indicated that domestic consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 29,500 metric tons (t) (gross weight). This was slightly less than the amount consumed in December 2017 (30,200 t) (fig. 1). Manganese ore consumption in January 2018 was 12% less than that in January 2017 (33,400 t) (fig. 1). Industry stocks of ore at the end of January 2018 were estimated to be 174,000 t, 17% more than the amount at the end of December 2017 (148,000 t).

On a gross-weight basis, U.S. imports of manganese ore in January 2018 were 35,600 t, up from 15,000 t in December 2017 (fig. 1, table 5).

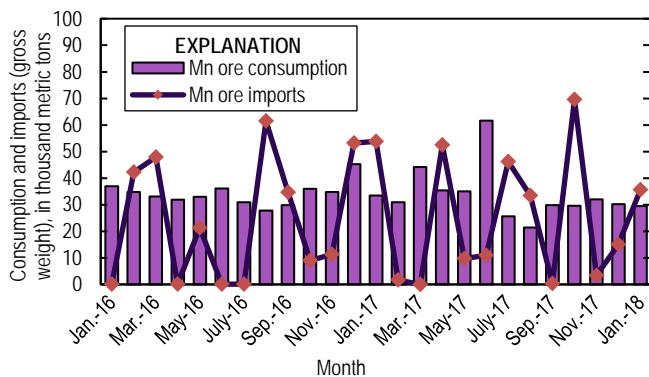


Figure 1. Monthly domestic consumption and imports of manganese (Mn) ore from January 2016 through January 2018. Sources: U.S. Census Bureau and U.S. Geological Survey.

In January 2018, the average spot prices for manganese ore deliveries to China were 6.67 dollars per metric ton unit, 36%–

39% grade and 6.77 dollars per metric ton unit, 44% grade (fig. 2, table 1). Compared to December 2017, they were 9% more for the 36%–39% grade and 8% more for the 44% grade. Compared to the 2-year high prices of December 2016, they were 17% less for the 36%–39% grade and 23% less for the 44% grade. However, they were 286% and 268% higher, respectively, than those of January 2016.

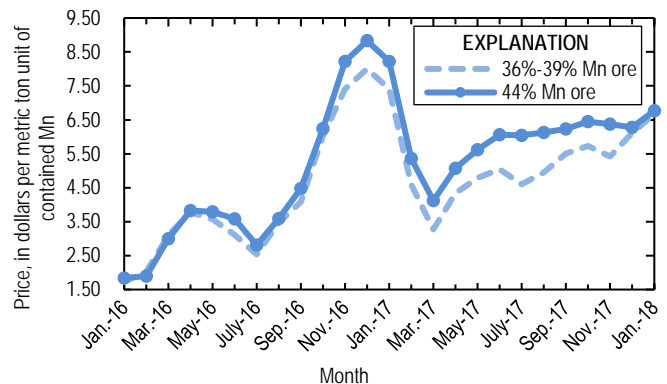


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from January 2016 through January 2018. Source: CRU Group.

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TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN JANUARY 2018

		Low	Average	High
Manganese ferroalloys: ¹				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,480.00	1,525.00	1,570.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	110.00	112.50	115.00
Silicomanganese, 65% manganese	do.	62.00	65.50	67.00
Manganese metal, 99.9% manganese flake ²	cents per pound	103.00	107.06	110.00
Manganese ore: ^{3, 4}				
36%–39% manganese	dollars per metric ton unit contained manganese	6.30	6.67	7.00
44% manganese	do.	6.40	6.77	7.00

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 44 when the manganese content is 44%.

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
2017, January	27,700	33,200	60,900	9	901	910
2018, January	17,300	66,800	84,000	18	221	239

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 2018¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²
Australia	11,700	7,770	\$14,800,000
Brazil	513	341	539,000
Georgia	14,700	10,800	16,200,000
India	108	64	155,000
Mexico	1,800	1,180	2,070,000
Norway	1,620	965	2,310,000
South Africa	5,200	3,380	5,720,000
Total	35,700	24,500	41,800,000

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 2018¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²
Low carbon:			
China	54	51	\$98,600
Germany	80	75	194,000
Japan	100	80	165,000
Korea, Republic of	900	828	1,710,000
Norway	4,260	3,450	7,080,000
South Africa	28	23	41,100
Total	5,420	4,500	9,280,000
Medium carbon, 1%–2% C:			
China	94	74	208,000
Korea, Republic of	3,660	2,930	5,670,000
Mexico	429	339	625,000
Norway	2,300	1,870	3,470,000
South Africa	1,270	1,020	2,380,000
Total	7,750	6,230	12,400,000
High carbon:			
Australia	11,700	8,930	15,500,000
Brazil	429	121	470,000
Georgia	3,100	2,410	3,930,000
India	2,940	911	3,470,000
Korea, Republic of	500	380	584,000
Malaysia	8,290	6,280	10,700,000
Saudi Arabia	38	24	62,700
South Africa	5,080	3,850	7,620,000
Spain	5,000	3,810	5,650,000
Ukraine	2,050	1,570	2,040,000
Total	39,100	28,300	50,000,000
Grand total	52,300	39,000	71,600,000

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 2018¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²
More than 20%, but less than 47% manganese, Gabon	9,610	4,130	\$1,910,000
47% or more manganese:			
Brazil	89	45	48,000
Gabon	25,400	12,700	7,640,000
South Africa	440	213	187,000
Total	26,000	13,000	7,870,000
Grand total	35,600	17,100	1,960,000

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 2018¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²
China	15	\$31,200
Japan	216	480,000
Ukraine	7	11,700
Total	238	523,000

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 2018¹

(Metric tons)

Source	Gross weight	Customs value ²
Unwrought flake:		
China	878	\$1,270,000
Japan	25	174,000
South Africa	467	1,050,000
Total	1,370	2,500,000
Unwrought powder:		
Mexico	5	19,100
South Africa	138	373,000
Total	143	392,000
Unwrought, other:		
China	1,470	2,580,000
Germany	116	226,000
South Africa	82	180,000
Total	1,670	2,980,000
Other manganese, wrought:		
Germany	24	278,000
Japan	(3)	16,400
Malaysia	(3)	3,040
Mexico	54	146,000
Poland	(3)	6,310
Total	78	450,000
Grand total	3,260	6,330,000

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

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 OR LOCALITY OF DESTINATION
IN JANUARY 2018^{1,2}

Source	Gross weight (metric tons)	F.a.s. ³ value (thousands)
Ore and concentrates with 20% or more manganese:		
Canada	9	\$7
Mexico	15	14
Netherlands	12	50
Total	36	71
Ferromanganese:		
2% or less carbon:		
Canada	3	5
Honduras	1	7
Total	4	12
More than 2% carbon, Canada	11	17
Silicomanganese, Canada	180	248
Metal, including alloys and waste and scrap: ⁵		
Canada	1	6
Germany	(4)	4
Guinea	1	5
Malaysia	18	73
Mexico	63	259
Venezuela	7	6
Total	90	355
Grand total	310	686

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 2018, 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	2,510	\$1,900	South Africa 1,320; \$790
Potassium permanganate	147	379	India 128; \$337
Sodium permanganate	158	373	China 158; \$373
Sulfates, basket category, including manganese sulfate	6,100	6,210	China 3,940; \$2,830
Exports:			
Manganese dioxide	654	728	Canada 461; \$370
Manganese oxides other than dioxide	368	751	Canada 124; \$175
Manganites, manganates, and other permanganates	7	17	Canada 6; \$12
Potassium permanganate	262	755	Belgium 128; \$315
Sodium permanganate	72	293	Australia 48; \$174
Sulfates, basket category, including manganese sulfate	1,310	1,480	Canada 1,010; \$668

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.