

Mineral Industry Surveys

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MANGANESE IN FEBRUARY 2017

Preliminary data for February 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 the same as the amount consumed in January 2017. Manganese ore consumption during the first 2 months of 2017 was 52,800 t, 20% less than the amount consumed during the same period of 2016 (66,400 t). (fig. 1). Industry stocks of ore at the end of February 2017 were 133,000 t, 10% less than that at the end of January 2017 (148,000 t).

On a gross-weight basis, U.S. imports of manganese ore in February 2017 were 1,670 t, 97% less than the amount imported in January 2017 (53,840 t) (fig. 1, table 5). Manganese ore imports were 95% less in February 2017 compared with the amount in February 2016 (31,800 t).

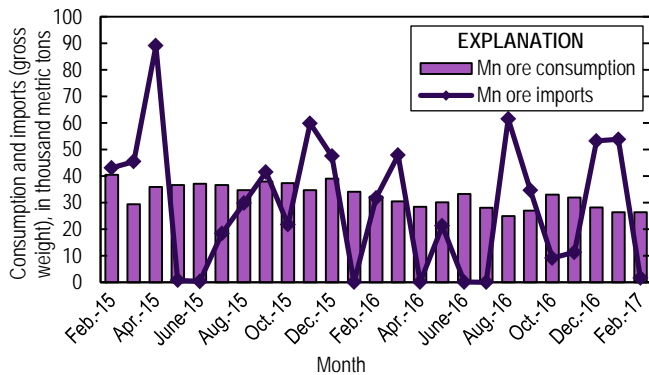


Figure 1. Monthly domestic consumption and imports of manganese (Mn) ore from February 2015 through February 2017. Sources: U.S. Census Bureau and U.S. Geological Survey.

In February 2017, CRU Ryan’s Notes discontinued reporting average monthly spot-market prices for the 46%-grade of manganese ore deliveries to China. The average spot prices for the remaining two manganese ore grades were 4.59 dollars per metric ton unit, 36%–39% grade and 5.36 dollars per metric ton unit, 44% grade (fig. 2, table 1). These were less than those in January 2017—38% for the 36%–39% grade and 35% for the 44% grade. However, they were significantly higher than those in February 2016—126% for the 36%–39% grade and 184% for the 44% grade.

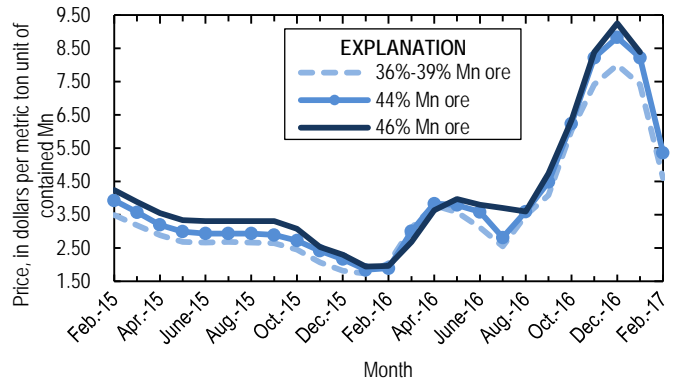


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from February 2015 through February 2017. Source: CRU Ryan’s Notes.

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

		Low	Average	High
Manganese ferroalloys:¹				
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,430.00	1,451.25	1,470.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	108.00	110.00	112.00
Silicomanganese, 65% manganese	do.	69.00	70.75	72.00
Manganese metal, 99.9% manganese flake ²	cents per pound	117.00	121.75	125.00
Manganese ore:^{3,4}				
36%–39% manganese	dollars per metric ton unit contained manganese	2.95	4.59	6.10
44% manganese	do.	4.40	5.36	6.40
46% manganese ⁵	do.	XX	XX	XX

do. Ditto. XX Not applicable.

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
February	17,200	34,700	51,900	18	2,350	2,370
January–February	17,400	88,400	106,000	47	4,320	4,370
2017:						
January	27,700	33,200	60,900	9	901	910
February	1,120	20,500	21,600	15	2,020	2,040
January–February	28,800	53,700	82,500	24	2,920	2,950

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 FEBRUARY 2017¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–February ²		
				Gross weight	Mn content	Customs value ³
Australia	--	--	--	6,510	4,320	\$7,120,000
France	2,300	1,390	\$3,680,000	2,300	1,390	3,680,000
Georgia	9,460	6,140	8,170,000	10,200	6,700	8,750,000
India	237	142	315,000	738	438	957,000
Malaysia	216	141	270,000	216	141	270,000
Mexico	1,900	1,240	1,850,000	6,550	4,270	6,750,000
Norway	104	66	179,000	1,420	863	2,100,000
Russia	--	--	--	4,970	3,360	6,340,000
South Africa	5,250	3,410	5,770,000	15,600	10,200	13,600,000
Total	19,500	12,500	20,200,000	48,600	31,700	49,500,000

-- Zero.

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

²May include revised data that are not broken out by specific month(s).

³Customs 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 FEBRUARY 2017¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–February ²		
				Gross weight	Mn content	Customs value ³
Low carbon:						
China	408	380	\$653,000	1,280	1,190	\$2,010,000
France	3,300	2,680	5,410,000	3,300	2,680	5,410,000
Germany	5	5	11,800	5	5	11,800
Japan	--	--	--	15	12	34,800
Mexico	220	176	276,000	220	176	276,000
Norway	944	767	1,570,000	4,210	3,420	6,930,000
Total	4,880	4,010	7,930,000	9,030	7,490	14,700,000
Medium carbon, 1%–2% C:						
China	6	4	11,000	6	4	11,000
France	400	324	625,000	400	324	625,000
Mexico	199	149	387,000	469	352	850,000
Norway	--	--	--	500	408	738,000
South Africa	--	--	--	2,540	2,060	3,330,000
Total	604	478	1,020,000	3,920	3,150	5,560,000
High carbon:						
Australia	--	--	--	9,840	4,290	8,820,000
Brazil	287	213	201,000	488	360	340,000
Canada	20	13	24,300	41	26	48,700
Georgia	104	81	150,000	104	81	150,000
Mexico	101	71	80,700	261	186	212,000
Norway	36	30	65,400	36	30	65,400
South Africa	1,270	965	1,560,000	3,230	2,460	3,750,000
Total	1,820	1,370	2,080,000	14,000	7,430	13,400,000
Grand total	7,300	5,860	11,000,000	26,900	18,100	33,600,000

-- Zero.

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

²May include revised data that are not broken out by specific month(s).

³Customs 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 FEBRUARY 2017¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–February ²		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese, South Africa	1,500	696	\$441,000	6,500	3,020	\$1,900,000
47% or more manganese:						
Brazil	153	104	75,500	201	128	95,700
Gabon	--	--	--	47,300	24,300	10,800,000
Korea, Republic of	20	14	12,800	20	14	12,800
Mexico	--	--	--	1,410	706	513,000
Morocco	--	--	--	39	22	50,900
South Africa	--	--	--	17	8	4,080
Total	173	118	88,300	49,000	25,200	11,400,000
Grand total	1,670	814	529,000	55,500	28,200	13,400,000

-- Zero.

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

²May include revised data that are not broken out by specific month(s).

³Customs 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 FEBRUARY 2017¹

(Metric tons, gross weight)

Source	Quantity	Customs value ³	January–February ²	
			Quantity	Customs value ³
Canada	--	--	3	\$3,380
China	--	--	13	38,000
Germany	--	--	2	8,540
Japan	502	\$1,050,000	862	1,780,000
Singapore	11	19,100	22	38,200
Ukraine	--	--	6	10,800
Total	513	1,060,000	908	1,880,000

-- Zero.

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

²May include revised data that are not broken out by specific month(s).

³Customs 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 FEBRUARY 2017¹

(Metric tons)

Source	Gross weight	Customs value ³	January–February ²	
			Gross weight	Customs value ³
Unwrought flake:				
China	122	\$223,000	122	\$223,000
Gabon	50	86,400	200	356,000
Japan	23	144,000	53	314,000
South Africa	918	2,270,000	1,640	3,920,000
Total	1,110	2,720,000	2,020	4,810,000
Unwrought powder:				
China	40	101,000	40	101,000
Mexico	2	6,900	27	89,800
South Africa	60	158,000	236	632,000
Total	102	266,000	303	823,000
Unwrought, other:				
Belgium	--	--	19	37,600
China	649	1,470,000	1,080	2,370,000
Germany	87	177,000	241	474,000
South Africa	81	157,000	163	323,000
Spain	23	45,300	23	45,300
Total	840	1,850,000	1,520	3,250,000
Other manganese, wrought:				
Germany	--	--	21	204,000
India	--	--	(4)	2,110
Japan	3	14,000	3	14,000
Mexico	--	--	6	23,600
Total	3	14,000	31	243,000
Metallic waste and scrap:				
Canada	71	21,500	141	43,300
Mexico	3	3,210	3	3,210
Total	74	24,700	144	46,500
Grand total	2,130	4,870,000	4,020	9,170,000

-- Zero.

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

²May include revised data that are not broken out by specific month(s).

³Customs 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.

⁴Less 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 FEBRUARY 2017^{1,2}

Source	Gross weight (metric tons)	F.a.s. ⁴ value (thousands)	January–February ³	
			Gross weight (metric tons)	F.a.s. ⁴ value (thousands)
Ore and concentrates with 20% or more manganese:				
China	--	--	(5)	\$5
Mexico	--	--	2	6
Netherlands	31	\$131	47	198
Total	31	131	49	209
Ferromanganese:				
2% or less carbon:				
Canada	701	1,160	830	1,360
Israel	--	--	5	9
Total	701	1,160	834	1,370
More than 2% carbon:				
Argentina	5	14	8	23
Brazil	--	--	21	59
Canada	40	40	110	120
Germany	(5)	4	(5)	4
Malaysia	--	--	1	4
Mexico	101	119	115	166
Singapore	--	--	4	12
United Arab Emirates	3	9	3	9
United Kingdom	(5)	4	3	13
Total	150	189	268	409
Silicomanganese:				
Canada	934	1,280	1,570	2,150
Georgia	128	120	128	120
Total	1,060	1,400	1,700	2,270
Metal, including alloys and waste and scrap:⁶				
Argentina	--	--	1	9
Belgium	12	229	16	303
Canada	1	7	1	7
China	19	66	64	237
India	149	41	255	69
Japan	23	87	23	87
Malaysia	351	105	468	227
Mexico	(5)	9	2	18
South Africa	92	80	92	80
United Kingdom	--	--	4	45
Other (5 countries)	--	--	8	48
Total	648	624	934	1,130
Grand total	2,590	3,510	3,780	5,390

-- Zero.

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

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

³May include revised data that are not broken out by specific month(s).

⁴Free alongside ship.

⁵Less than ½ unit.

⁶Includes manganese-aluminum, other alloys, and waste and scrap.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS
IN FEBRUARY 2017, BY CLASS¹

Class	Gross weight (metric tons)	Value ³ (thousands)	Principal sources and destinations: gross weight (metric tons); value ³ (thousands)	January–February ²		
				Gross weight (metric tons)	Value ³ (thousands)	Principal sources and destinations: gross weight (metric tons); value ³ (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	1,260	\$987	South Africa 405; \$241	3,050	\$2,130	South Africa 1,550; \$752
Manganites, manganates, and other permanganates						
Permanganates	--	--	--	(4)	3	Canada (4); \$3
Potassium permanganate	27	63	India 18; \$46	107	260	India 90; \$228
Sodium permanganate	76	170	China 76; \$170	94	212	China 76; \$170
Sulfates, basket category, including manganese sulfate	4,180	3,670	China 1,750; \$1,140	10,000	8,860	China 3,590; \$2,330
Exports:						
Manganese dioxide	456	728	Canada 198; \$113	693	1,140	Canada 324; \$263
Manganese oxides other than dioxide	424	724	Poland 103; \$138	920	1,480	Canada 181; \$238
Manganites, manganates, and other permanganates	2	12	Canada 2; \$4	7	21	Canada 7; \$13
Potassium permanganate	218	547	Belgium 127; \$305	357	1,000	Belgium 127; \$305
Sodium permanganate	23	66	Belgium 19; \$40	45	124	Belgium 38; \$81
Sulfates, basket category, including manganese sulfate	1,890	1,650	Canada 1,690; \$735	3,120	3,670	Canada 2,480; \$1,240

-- Zero.

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

²May include revised data that are not broken out by specific month(s).

³For imports, customs value; for exports, free alongside ship value.

⁴Less than ½ unit.

Source: U.S. Census Bureau.