

Mineral Industry Surveys

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MANGANESE IN MARCH 2015

Preliminary data for March 2015 indicated that domestic consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 51,700 metric tons (t) (gross weight). This was a 10% decrease compared with the amount consumed in February 2015 (57,100 t). Manganese ore consumption during the first 3 months of 2015 was about 175,000 t, 45% more than the amount consumed during the same period of 2014 (120,000 t). This year-over-year increase was primarily the result of resumed production at Felman Production, LLC's silicomanganese production facility in Letart, WV, which started in July 2014.

Industry stocks of ore at the end of March 2015 were estimated to be 220,000 t, which was 41% more than the amount at the end of February 2015 (156,000 t).

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TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN MARCH 2015

		High	Low	Average	Average low, mid, and high
Manganese ferroalloys:¹					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,050.00	975.00	1,016.25	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	98.00	97.00	97.50	XX
Silicomanganese, 65% manganese	do.	57.00	55.00	55.75	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	125.00	121.00	XX	121.00–123.50–125.00
Manganese ore:^{3,4}					
36%–39% manganese	dollars per metric ton unit contained manganese	3.35	2.90	XX	3.12–3.18–3.24
44% manganese	do.	3.70	3.20	XX	3.51–3.57–3.63
46% manganese	do.	4.00	3.75	XX	3.75–3.88–4.00

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
2014:						
January	6,510	32,200	38,700	21	1,130	1,150
February	28,000	61,500	89,500	202	1,100	1,310
March	1,910	46,400	48,300	1	1,010	1,020
January–March	36,500	140,000	177,000	224	3,250	3,470
2015:						
January	25,200	53,800	78,900	9	894	903
February	24,600	44,300	69,000	27	378	405
March	24,600	32,800	57,300	56	292	348
January–March	74,300	131,000	205,000	91	1,560	1,660

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 MARCH 2015¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–March		
				Gross weight	Mn content	Customs value ²
Australia	--	--	--	15,300	10,100	\$16,900,000
Georgia	1,720	1,240	\$1,750,000	18,400	13,400	19,400,000
India	1,490	891	2,440,000	2,250	1,370	3,650,000
Indonesia	--	--	--	23	15	24,800
Mexico	6,280	4,090	6,530,000	6,280	4,090	6,530,000
Norway	135	88	229,000	4,440	2,790	5,720,000
South Africa	8,970	5,830	9,410,000	24,800	16,100	26,500,000
Spain	1,510	984	1,470,000	6,360	4,150	6,200,000
Total	20,100	13,100	21,800,000	77,900	51,900	85,000,000

-- Zero.

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 MARCH 2015¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–March		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	2,490	2,330	\$5,660,000	5,620	5,260	\$12,600,000
Germany	2	2	4,450	26	22	62,800
Korea, Republic of	--	--	--	1,510	1,260	3,230,000
Mexico	200	157	316,000	200	157	316,000
Norway	287	232	527,000	4,910	3,980	8,090,000
Total	2,980	2,720	6,510,000	12,300	10,700	24,300,000
Medium carbon, 1%–2% C:						
Egypt	--	--	--	298	242	444,000
Korea, Republic of	3,000	2,400	4,470,000	7,500	6,000	11,200,000
Mexico	830	637	1,420,000	1,020	782	1,790,000
Norway	70	57	123,000	970	791	1,430,000
South Africa	19	15	33,500	6,500	5,220	10,600,000
Total	3,920	3,110	6,040,000	16,300	13,000	25,400,000
Medium carbon, 2%–4% C:						
Norway	36	29	64,000	36	29	64,000
South Africa	--	--	--	384	302	1,160,000
Vietnam	54	42	76,100	54	42	76,100
Total	90	72	140,000	474	374	1,300,000
High carbon:						
Australia	--	--	--	9,110	6,790	7,870,000
Brazil	--	--	--	162	124	132,000
Canada	--	--	--	20	13	25,700
France	49	37	40,700	49	37	40,700
Norway	--	--	--	1,000	783	815,000
South Africa	13,700	10,200	13,100,000	45,600	34,200	43,100,000
Ukraine	1,410	1,050	1,260,000	4,320	3,310	3,920,000
Zambia	--	--	--	20	13	29,600
Total	15,100	11,300	14,400,000	60,300	45,300	55,900,000
Grand total	22,100	17,200	27,100,000	89,300	69,400	107,000,000

-- 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.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn)
IN MARCH 2015¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–March		
				Gross weight	Mn content	Customs value ²
More than 20%, but less than 47% manganese, Gabon	6,000	2,580	\$706,000	34,600	16,100	\$5,960,000
47% or more manganese:						
Australia	19,800	9,830	5,840,000	19,800	9,830	5,840,000
Brazil	3,350	1,740	1,070,000	3,410	1,770	1,090,000
Canada	--	--	--	38	20	8,220
China	--	--	--	4	2	3,920
Gabon	19,400	9,870	5,080,000	87,400	45,200	19,300,000
Ivory Coast	18	8	19,400	18	8	19,400
Morocco	39	34	51,100	39	34	51,100
South Africa	400	200	106,000	400	200	106,000
Total	43,000	21,700	12,200,000	111,000	57,000	26,400,000
Grand total	49,000	24,300	12,900,000	146,000	73,100	32,400,000

-- 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.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE
DIOXIDE IN MARCH 2015¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–March	
			Quantity	Customs value ²
Belgium	--	--	20	\$92,400
China	8	\$33,300	71	98,300
Germany	2	9,600	8	19,700
India	(3)	5,040	(3)	5,040
Japan	473	1,050,000	1,500	3,320,000
Korea, Republic of	(3)	3,880	(3)	3,880
Netherlands	--	--	15	24,900
Singapore	12	20,200	48	80,900
South Africa	--	--	275	468,000
Spain	(3)	6,820	4	13,600
Turkey	--	--	156	266,000
Total	495	1,120,000	2,100	4,390,000

-- 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 7
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN MARCH 2015¹

(Metric tons)

Source	Gross weight	Customs value ²	January–March	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,120	\$2,160,000	3,610	\$7,180,000
Japan	43	147,000	98	333,000
Mexico	--	--	4	10,900
South Africa	634	1,650,000	2,340	6,170,000
Total	1,790	3,950,000	6,050	13,700,000
Unwrought powder:				
China	60	130,000	100	217,000
Mexico	22	76,700	101	312,000
South Africa	57	204,000	254	820,000
Total	139	410,000	455	1,350,000
Unwrought, other:				
China	410	932,000	2,250	4,990,000
Germany	16	30,800	60	133,000
Russia	12	12,200	12	12,200
South Africa	39	91,600	77	191,000
United Kingdom	--	--	(3)	2,790
Total	477	1,070,000	2,390	5,330,000
Other manganese, wrought:				
France	--	--	1	4,690
Germany	41	422,000	79	890,000
India	4	14,400	4	14,400
Japan	(3)	13,800	(3)	13,800
Korea, Republic of	14	43,000	515	1,170,000
Mexico	12	38,800	17	64,800
Sweden	--	--	(3)	4,500
Total	71	532,000	617	2,160,000
Grand total	2,480	5,960,000	9,520	22,500,000

-- 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 8
 U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE,
 SILICOMANGANESE, FERROMANGANESE, SILICOMANGANESE, AND MANGANESE
 METAL BY COUNTRIES OF DESTINATION IN MARCH 2015^{1,2}

Source	Gross weight (metric tons)	F.a.s. ³ value (thousands)	January–March	
			Gross weight (metric tons)	F.a.s. ³ value (thousands)
Ore and concentrates with 20% or more manganese:				
Mexico	--	--	2	\$6
Netherlands	16	\$62	48	185
United Kingdom	95	78	133	104
Total	111	139	183	295
Ferromanganese:				
2% or less carbon:				
Canada	19	36	704	1,090
Mexico	2	5	3	9
United Kingdom	--	--	5	9
Total	20	40	712	1,110
More than 2% carbon:				
Angola	--	--	2	3
Canada	4	4	237	244
Equatorial Guinea	9	20	9	20
Germany	4	11	4	11
Ghana	(5)	5	(5)	5
Italy	--	--	22	38
Venezuela	--	--	1	3
Total	17	40	275	322
Silicomanganese:				
Canada	18	23	207	238
India	--	--	20	18
Mexico	--	--	142	201
Total	18	23	369	458
Metal, including alloys and waste and scrap:⁴				
Canada	2	6	5	14
China	1	4	1	4
Costa Rica	--	--	(5)	13
Japan	27	99	29	115
Korea, Republic of	(5)	7	2	30
Malaysia	156	130	358	213
Mexico	3	11	4	60
Netherlands	21	85	81	325
Norway	--	--	19	855
Taiwan	40	16	40	21
Other (3 countries)	--	--	(5)	15
Total	250	359	541	1,660
Grand total	417	601	2,080	3,850

-- Zero.

¹Presentation of monthly data is based on the "January–March" 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 ½ unit.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS
IN MARCH 2015, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–March		
				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	706	\$630	Korea, Republic of 366; \$310	1,880	\$1,570	Korea, Republic of 945; \$744
Manganites, manganates, and other permanganates	57	149	China 57; \$149	98	278	China 95; \$248
Potassium permanganate	127	353	India 127; \$353	321	902	India 321; \$902
Sodium permanganate	153	356	China 153; \$356	497	1,050	China 496; \$1,040
Sulfates, basket category, including manganese sulfate	11,400	8,940	Chile 5,700; \$4,240	19,800	16,100	Chile 5,800; \$4,320
Exports:						
Manganese dioxide	228	625	Canada 68; \$56	675	1,600	Canada 300; \$288
Manganese oxides other than dioxide	998	1,610	United Arab Emirates 190; \$241	2,310	3,790	United Arab Emirates 342; \$414
Manganites, manganates, and other permanganates	14	35	Canada 12; \$25	22	81	Canada 19; \$40
Potassium permanganate	317	726	Belgium 254; \$567	870	2,110	Belgium 651; \$1,470
Sodium permanganate	40	175	Mexico 38; \$165	202	691	Mexico 132; \$522
Sulfates, basket category, including manganese sulfate	2,470	1,310	Canada 2,040; \$668	7,370	4,730	Canada 6,380; \$2,320

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.