

Mineral Industry Surveys

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MANGANESE IN JUNE 2015

Preliminary data for June 2015 indicated that domestic consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 43,700 metric tons (t) (gross weight). This was a slight increase compared with the revised amount consumed in May 2015 (43,500 t). Manganese ore consumption during the first 6 months of 2015 was about 279,000 t, 26% more than the amount consumed during the same period of 2014 (221,000 t). This year-over-year increase was primarily the result of resumed production at Felman Production, LLC’s silicomanganese production facility in Letart, WV, in July 2014. Industry stocks of ore at the end of June 2015 were estimated to be 165,000 t, which was 10% lower than the revised amount at the end of May 2015 (183,000 t).

Combined U.S. imports of manganese dioxide and manganese ore (contained weight) were 97 % and 98 % lower in May and June 2015, , respectively, compared to the average amount imported during the first quarter of 2015 (24,800 t) (table 2). This was partially a result of the large amount of manganese ore imported in April 2015 (fig. 1). Another contributing factor to lower manganese ore imports in May and June was the delay in the restart of 1 of 2 idled furnaces at Felman Production’s silicomanganese plant. Operation of the furnace was supposed to resume in early May 2015, but has been indefinitely postponed because of weak market conditions (Conway, 2015).

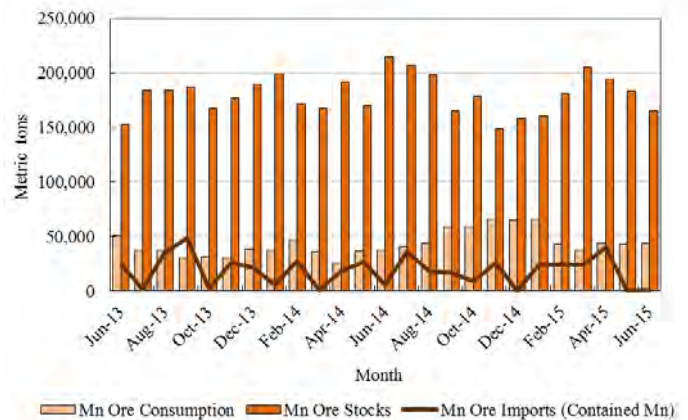


Figure 1. Monthly domestic consumption, stocks, and imports of manganese (Mn) ore from June 2013–June 2015. Sources: U.S. Census Bureau and U.S. Geological Survey.

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Reference Cited

Conway, Declan, 2015, US SiMn market looking stable near term, awaits tender result: Metal-Pages, June 26. (Accessed September 15, 2015, via <http://www.metal-pages.com/>.)

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

	High	Low	Average	Average low, mid, and high
Manganese ferroalloys:¹				
High-carbon ferromanganese, 75% manganese	960.00	840.00	921.25	XX
Medium-carbon ferromanganese, 85% manganese	98.00	94.00	96.00	XX
Silicomanganese, 65% manganese	55.00	52.50	53.75	XX
Manganese metal, 99.9% manganese flake ²	118.00	112.00	XX	113.67–115.17–116.67
Manganese ore:^{3,4}				
36%–39% manganese	2.70	2.60	XX	2.62–2.66–2.70
44% manganese	3.05	2.80	XX	2.80–2.93–3.05
46% manganese	3.35	3.25	XX	3.25–3.30–3.35

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:						
June	6,740	48,400	55,200	19	346	366
January–June	89,800	315,000	405,000	297	4,810	5,100
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
April	40,700	40,900	81,500	9	582	591
May	745	67,900	68,600	25	235	260
June	526	30,700	31,200	36	337	373
January–June	116,000	270,000	387,000	161	2,720	2,880

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 JUNE 2015¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–June		
				Gross weight	Mn content	Customs value ²
Australia	3,910	2,570	\$3,930,000	35,800	23,500	\$38,700,000
China	10	7	20,100	10	7	20,100
Georgia	198	139	168,000	46,800	34,000	48,700,000
India	38	25	44,300	2,340	1,430	3,760,000
Indonesia	--	--	--	23	15	24,800
Mexico	160	105	151,000	15,100	9,860	15,200,000
Norway	3,410	2,130	4,760,000	10,300	6,450	14,400,000
South Africa	11,700	7,610	12,300,000	57,300	37,200	60,400,000
Spain	44	29	38,100	8,240	5,370	8,020,000
Zambia	1,750	1,140	1,690,000	3,300	2,150	3,200,000
Total	21,200	13,700	23,100,000	179,000	120,000	192,000,000

-- 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 JUNE 2015¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–June		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	612	569	\$1,400,000	7,880	7,290	\$17,400,000
Germany	24	23	67,700	98	91	265,000
Korea, Republic of	--	--	--	1,510	1,260	3,230,000
Mexico	--	--	--	400	315	631,000
Norway	1,240	1,000	1,820,000	11,700	9,440	18,900,000
South Africa	76	72	197,000	178	168	460,000
Total	1,950	1,670	3,490,000	21,700	18,600	40,900,000
Medium carbon, 1%–2% C:						
Australia	1,300	1,040	1,040,000	1,300	1,040	1,040,000
China	--	--	--	80	61	177,000
Egypt	--	--	--	298	242	444,000
Korea, Republic of	--	--	--	12,600	10,100	21,000,000
Mexico	107	84	180,000	1,190	915	2,080,000
Norway	762	621	1,070,000	5,540	4,520	7,940,000
South Africa	1,900	1,520	3,160,000	11,100	8,860	18,000,000
Total	4,070	3,270	5,440,000	32,100	25,700	50,600,000
Medium carbon, 2%–4% C:						
China	--	--	--	13	10	28,500
Norway	--	--	--	36	29	64,000
South Africa	--	--	--	424	333	1,200,000
Vietnam	--	--	--	54	42	76,100
Total	--	--	--	527	415	1,360,000
High carbon:						
Australia	1,310	992	908,000	15,700	11,700	13,200,000
Brazil	--	--	--	324	241	258,000
Canada	19	15	29,800	39	27	55,500
France	--	--	--	49	37	40,700
Korea, Republic of	--	--	--	1,730	1,320	1,470,000
Norway	--	--	--	2,000	1,570	1,680,000
South Africa	11,900	8,380	9,880,000	80,200	60,100	73,300,000
Spain	716	478	690,000	812	551	774,000
Ukraine	20	13	29,800	16,600	12,900	13,800,000
Zambia	--	--	--	20	13	29,600
Total	14,000	9,870	11,500,000	118,000	88,300	105,000,000
Grand total	20,000	14,800	20,500,000	172,000	133,000	198,000,000

-- 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 JUNE 2015¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–June		
				Gross weight	Mn content	Customs value ²
More than 20%, but less than 47% manganese:						
Gabon	--	--	--	34,700	16,100	\$5,970,000
South Africa	--	--	--	40,000	14,700	4,290,000
Total	--	--	--	74,700	30,800	10,300,000
47% or more manganese:						
Australia	--	--	--	19,800	9,830	5,840,000
Brazil	53	27	\$24,600	3,570	1,840	1,160,000
Canada	22	11	4,280	60	30	12,500
China	--	--	--	8	4	7,840
France	--	--	--	15	8	19,600
Gabon	94	48	20,300	137,000	70,800	34,200,000
Ivory Coast	--	--	--	18	8	19,400
Morocco	--	--	--	39	34	51,100
Netherlands	--	--	--	(3)	(3)	23,900
South Africa	200	100	51,000	1,040	518	279,000
Total	369	186	100,000	161,000	83,100	41,600,000
Grand total	369	186	100,000	236,000	114,000	51,900,000

-- 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 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN JUNE 2015¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–June	
			Quantity	Customs value ²
Belgium	--	--	39	\$179,000
China	--	--	77	117,000
Germany	--	--	9	29,300
India	--	--	(3)	8,640
Japan	541	\$1,300,000	3,200	7,420,000
Korea, Republic of	--	--	(3)	3,880
Mexico	--	--	(3)	4,220
Netherlands	14	24,100	89	73,900
Poland	--	--	(3)	4,320
Singapore	12	20,200	83	142,000
South Africa	--	--	275	468,000
Spain	--	--	4	13,600
Turkey	--	--	156	266,000
Total	567	1,350,000	3,930	8,730,000

-- 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 JUNE 2015¹

(Metric tons)

Source	Gross weight	Customs value ²	January–June	
			Gross weight	Customs value ²
Unwrought flake:				
China	42	\$143,000	5,040	\$9,940,000
Japan	--	--	204	694,000
Mexico	4	12,200	9	28,900
South Africa	400	1,010,000	4,780	12,400,000
Total	446	1,170,000	10,000	23,100,000
Unwrought powder:				
China	60	121,000	285	675,000
Mexico	--	--	123	380,000
South Africa	157	541,000	904	2,970,000
Total	217	662,000	1,310	4,020,000
Unwrought, other:				
China	1,180	2,480,000	4,630	10,200,000
Germany	49	113,000	147	336,000
Russia	--	--	12	12,200
South Africa	19	49,000	135	338,000
Spain	137	330,000	160	387,000
United Kingdom	--	--	(3)	2,790
Total	1,390	2,970,000	5,080	11,300,000
Other manganese, wrought:				
France	--	--	2	29,500
Germany	5	49,800	125	1,330,000
India	(3)	3,540	4	18,000
Japan	(3)	13,700	(3)	27,500
Korea, Republic of	--	--	515	1,170,000
Mexico	4	10,900	90	309,000
Sweden	--	--	(3)	4,500
Total	9	78,000	737	2,890,000
Metallic waste and scrap, Canada	202	55,300	435	113,000
Grand total	2,260	4,930,000	17,600	41,400,000

-- 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.

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 JUNE 2015^{1,2}

Source	Gross weight (metric tons)	F.a.s. ³ value (thousands)	January–June	
			Gross weight (metric tons)	F.a.s. ³ value (thousands)
Ore and concentrates with 20% or more manganese:				
Israel	--	--	1	\$8
Mexico	--	--	5	17
Netherlands	32	\$129	128	510
Poland	--	--	15	10
United Kingdom	40	34	173	138
Total	72	163	322	684
Ferromanganese:				
2% or less carbon:				
Canada	--	--	787	1,200
France	--	--	8	15
Mexico	--	--	3	9
United Kingdom	--	--	5	9
Total	--	--	802	1,230
More than 2% carbon:				
Angola	--	--	2	3
Canada	22	23	317	327
Congo	--	--	7	14
Equatorial Guinea	--	--	9	20
Germany	--	--	4	11
Ghana	--	--	-4	5
Italy	--	--	22	38
Venezuela	--	--	1	3
Total	22	23	362	419
Silicomanganese:				
Canada	11	13	326	396
India	--	--	20	18
Mexico	13	28	155	229
Total	24	40	500	643
Metal, including alloys and waste and scrap:⁵				
Canada	7	17	31	80
China	87	31	100	241
Germany	--	--	26	108
Japan	6	24	97	346
Malaysia	153	59	889	536
Netherlands	--	--	81	325
Norway	--	--	19	855
Pakistan	40	15	120	50
Taiwan	--	--	40	21
United Kingdom	7	36	17	91
Other (7 countries)	4	22	48	561
Total	303	205	1,470	3,210
Grand total	422	432	3,460	6,190

-- Zero.

¹Presentation of monthly data is based on the "January–June" 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 JUNE 2015, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–June		
				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	989	\$731	Korea, Republic of 440; \$355	5,710	\$4,400	Korea, Republic of 2,240; \$1,780
Manganites, manganates, and other permanganates	24	85	China 24; \$71	123	376	China 120; \$318
Potassium permanganate	30	84	India 30; \$84	567	1,490	India 558; \$1,470
Sodium permanganate	160	386	China 160; \$386	1,110	2,480	China 1,110; \$2,480
Sulfates, basket category, including manganese sulfate	3,860	4,190	India 1,450; \$883	35,900	31,100	Mexico 11,000; \$9,770
Exports:						
Manganese dioxide	458	729	Germany 320; \$384	1,490	3,450	Canada 395; \$412
Manganese oxides other than dioxide	629	940	United Arab Emirates 114; \$119	4,250	7,020	United Arab Emirates 713; \$844
Manganites, manganates, and other permanganates	15	33	Canada 13; \$28	75	314	Canada 69; \$146
Potassium permanganate	477	1,160	Belgium 172; \$387	2,140	5,340	Belgium 1,310; \$2,980
Sodium permanganate	99	216	Belgium 95; \$206	476	1,450	Mexico 230; \$889
Sulfates, basket category, including manganese sulfate	1,620	1,560	Canada 1,200; \$633	13,700	9,640	Canada 11,600; \$4,770

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.