



Mineral Industry Surveys

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MANGANESE IN JUNE 2013

Preliminary domestic data (gross weight) for June 2013 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 51,200 metric tons (t). This was a 5% increase from that consumed in May 2013. Manganese ore consumption during the first 6 months of 2013 was 292,000 t, which was 8% higher than that of the same period in 2012. Industry stocks of

ore at the end of June 2013 were 153,000 t, which was a 15% decrease from those at the end of June 2012.

Included in this Mineral Industry Surveys are U.S. spot market prices and U.S. foreign trade data for selected manganese-containing materials in June 2013.

TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN JUNE 2013

		High	Low	Average	Average low, mid, and high
<u>Manganese ferroalloys:¹</u>					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,070.00	10.45.00	1,055.00	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	89.00	87.00	87.88	XX
Silicomanganese, 65% manganese	do.	54.00	49.50	51.38	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	133.00	128.00	XX	129.75–131.19–132.63
<u>Manganese ore:^{3,4}</u>					
36%–39% manganese	dollars per metric ton unit contained manganese	5.45	4.55	XX	4.32–4.63–4.93
44% manganese	do.	5.85	5.35	XX	5.35–5.60–5.85
46% manganese	do.	5.75	5.40	XX	5.40–5.58–5.75

do. Ditto. XX Not applicable.

¹Platts Metals Week; in U.S. warehouse; average prices reported for all transactions during the month.

²Ryan'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.

³Ryan'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
2012:						
June	30,100	21,000	51,100	19	576	595
January–June	98,200 ^r	272,000	370,000 ^r	713	4,080	4,790
2013:						
January	11,300	26,200	37,500	16	464	480
February	30,100	48,400	78,500	10	588	599
March	38,100	49,100	87,200	29	1,410	1,440
April	1,020	63,400	64,400	13	1,530	1,550
May	26,100	51,300	77,400	22	1,060	1,080
June	24,900	52,700	77,600	31	345	376
January–June	131,000	291,000	423,000	121	5,400	5,520

^rRevised.

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 2013¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–June		
				Gross weight	Mn content	Customs value ²
Australia	10,200	6,810	\$8,050,000	35,300	23,600	\$34,100,000
Bahrain	--	--	--	1,450	968	1,750,000
Canada	--	--	--	45	30	36,400
China	--	--	--	4	2	4,920
Georgia	12,900	9,280	13,100,000	69,100	48,800	68,400,000
India	--	--	--	2,300	1,360	3,470,000
Korea, Republic of	1,000	658	975,000	6,650	3,560	6,950,000
Mexico	6,000	3,920	6,300,000	18,200	11,900	19,000,000
Norway	5,240	3,410	4,960,000	16,500	10,400	22,100,000
South Africa	19	12	31,200	32,700	23,300	35,600,000
Spain	--	--	--	5,010	3,260	5,410,000
Total	35,400	24,100	33,400,000	187,000	127,000	197,000,000

-- 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 2013¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–June		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	1,820	1,720	\$4,360,000	3,590	3,390	\$8,380,000
Korea, Republic of	400	360	914,000	1,700	1,530	3,810,000
Mexico	--	--	--	500	405	868,000
Norway	378	304	600,000	7,060	5,700	10,200,000
South Africa	216	205	553,000	665	614	1,590,000
Total	2,810	2,590	6,420,000	13,500	11,600	24,800,000
Medium carbon, 1%–2% C:						
China	40	30	93,600	100	76	234,000
Hong Kong	--	--	--	208	166	320,000
India	--	--	--	506	392	737,000
Korea, Republic of	3,000	2,400	3,800,000	7,110	5,630	9,050,000
Mexico	288	217	626,000	1,250	943	2,700,000
Norway	300	244	365,000	6,700	5,600	8,000,000
South Africa	2,270	1,840	3,170,000	6,730	5,420	9,600,000
Vietnam	--	--	--	8	6	11,900
Total	5,900	4,730	8,050,000	22,600	18,200	30,700,000
Medium carbon, 2%–4% C, South Africa	--	--	--	18	14	40,300
High carbon:						
Australia	2,610	2,010	2,160,000	18,100	13,500	17,000,000
Bahrain	--	--	--	29	23	33,600
Brazil	100	74	91,000	532	401	494,000
Canada	2	1	2,850	57	36	68,200
France	--	--	--	8,250	6,420	7,840,000
India	2	2	2,800	5	4	7,460
Korea, Republic of	1,000	778	895,000	10,100	7,550	9,640,000
Norway	700	548	593,000	700	548	593,000
South Africa	17,600	13,500	17,200,000	106,000	80,700	107,000,000
Spain	144	108	151,000	360	272	386,000
Ukraine	3	2	3,430	92	60	112,000
United Kingdom	--	--	--	2	2	3,170
Total	22,200	17,000	21,100,000	144,000	110,000	144,000,000
Grand total	30,900	24,400	35,500,000	180,000	139,000	199,000,000

-- 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 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN JUNE 2013^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–June		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Australia	--	--	--	33,000	15,500	\$7,400,000
Brazil	53	23	\$21,700	53	23	21,700
Belgium	--	--	--	12	5	6,370
France	--	--	--	8,010	3,560	1,820,000
Gabon	9,000	3,870	1,040,000	24,200	10,800	3,430,000
Ghana	--	--	--	39,800	11,200	3,830,000
Mexico	--	--	--	3,310	1,240	715,000
Total	9,050	3,890	1,060,000	108,000	42,300	17,200,000
47% or more manganese:						
Argentina	--	--	--	(4)	(4)	120,000
Australia	--	--	--	10,700	5,300	3,090,000
Brazil	--	--	--	3,130	1,620	1,460,000
France	--	--	--	2,020	1,030	621,000
Gabon	39,600	20,400	9,960,000	137,000	74,700	34,100,000
Georgia	--	--	--	63	58	230,000
Morocco	--	--	--	3,080	1,540	185,000
South Africa	--	--	--	40	19	20,500
Total	39,600	20,400	9,960,000	156,000	84,200	39,800,000
Grand total	48,700	24,300	11,000,000	265,000	127,000	57,000,000

-- Zero.

¹Quantities for general imports and imports for consumption are identical.

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

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 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN JUNE 2013¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–June	
			Quantity	Customs value ²
Belgium	--	--	7	\$19,100
Brazil	--	--	19	26,900
Germany	--	--	31	52,400
Japan	630	\$1,500,000	2,930	6,830,000
Singapore	11	19,400	87	136,000
South Africa	327	620,000	5,040	10,800,000
Turkey	21	35,200	69	117,000
Total	989	2,180,000	8,180	18,000,000

-- 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 7
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN JUNE 2013¹
(Metric tons)

Source	Gross weight	Customs value ²	January–June	
			Gross weight	Customs value ²
Unwrought flake:				
China	881	\$1,940,000	6,420	\$14,700,000
Japan	--	--	37	127,000
Mexico	--	--	144	610,000
Netherlands	--	--	76	208,000
South Africa	828	2,340,000	5,080	13,900,000
Total	1,710	4,280,000	11,800	29,600,000
Unwrought powder:				
China	--	--	40	92,200
South Africa	70	280,000	1,010	4,080,000
Total	70	280,000	1,050	4,170,000
Unwrought, other:				
China	2,370	5,810,000	11,000	26,300,000
Germany	49	116,000	69	167,000
Netherlands	19	45,300	19	45,300
Poland	--	--	(3)	10,700
South Africa	41	88,600	326	1,250,000
Spain	--	--	60	186,000
Total	2,480	6,060,000	11,500	28,000,000
Other manganese, wrought:				
China	--	--	72	164,000
Germany	--	--	7	90,700
Japan	(3)	6,850	(3)	17,700
Korea, Republic of	--	--	19	47,000
Total	(3)	6,850	98	319,000
Metallic waste and scrap, Canada	25	16,100	321	228,000
Grand total	4,280	10,600,000	24,700	62,300,000

-- 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.

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 2013^{1,2}

Source	Gross weight (metric tons)	F.a.s. value ³ (thousands)	January–June	
			Gross weight (metric tons)	F.a.s. value ³ (thousands)
Ore and concentrates with 20% or more manganese:				
Canada	12	\$14	55	\$65
Malaysia	--	--	6	8
Mexico	32	51	34	57
Netherlands	--	--	114	337
Panama	17	14	17	14
Poland	--	--	18	21
Total	61	79	242	501
Ferromanganese:				
2% or less carbon:				
Australia	--	--	32	60
Canada	31	38	148	190
Hong Kong	6	11	6	11
Japan	20	35	80	155
Korea, Republic of	--	--	10	27
Mexico	3	5	4	8
Saudi Arabia	--	--	8	15
Spain	--	--	12	29
Sweden	--	--	20	35
Turkey	60	130	239	526
Other (2 countries)	--	--	6	11
Total	119	219	563	1,070
More than 2% carbon:				
Brazil	15	42	37	103
Canada	3	3	184	214
Chile	--	--	19	29
Congo	--	--	2	9
Malaysia	--	--	30	122
Mexico	--	--	4	11
Singapore	3	8	6	17
United Kingdom	--	--	22	62
Total	21	54	304	567
Silicomanganese:				
Brazil	--	--	360	360
Canada	106	112	4,990	5,410
Total	106	112	5,350	5,770
Metal, including alloys and waste and scrap:⁴				
Canada	10	28	35	117
China	61	387	436	1,270
Germany	1	3	13	52
Hong Kong	--	--	11	182
India	22	87	201	468
Korea, Republic of	51	283	92	467
Norway	19	840	94	1,190
Pakistan	--	--	190	200
Taiwan	--	--	22	47
Vietnam	--	--	77	134
Other (4 countries)	2	49	11	122
Total	165	1,680	1,180	4,240
Grand total	472	2,140	7,640	12,100

-- Zero.

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

²Data are 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.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JUNE 2013, 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	196	\$221	Mexico 147; \$131	1,850	\$1,970	Mexico 819; \$742
Manganites, manganates, and other permanganates	6	28	China 6; \$24	14	47	India 8; \$11
Potassium permanganate	18	58	India 18; \$58	553	1,610	India 553; \$1,610
Sodium permanganate	55	137	China 55; \$137	398	1,000	China 386; \$944
Sulfates, basket category, including manganese sulfate	3,830	4,240	China 1,350; \$1,670	28,100	28,600	China 10,900; \$12,700
Exports:						
Manganese dioxide	745	1,660	Belgium 256; \$861	3,410	7,200	Belgium 1,040; \$3,510
Manganese oxides other than dioxide	894	1,630	Canada 193; \$203	4,380	7,780	Canada 916; \$1,080
Manganites, manganates, and other permanganates	12	49	Canada 11; \$28	135	371	Canada 70; \$183
Potassium permanganate	300	817	Belgium 217; \$544	1,630	4,460	Belgium 1,170; \$2,750
Sodium permanganate	47	122	Belgium 19; \$40	285	735	Belgium 119; \$245
Sulfates, basket category, including manganese sulfate	1,110	1,070	Canada 951; \$534	8,890	8,940	Canada 6,840; \$4,620

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.