

Mineral Industry Surveys

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MANGANESE IN MAY 2013

Preliminary domestic data (gross weight) for May 2013 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 48,800 metric tons (t). This was a 7% increase from the revised amount of 45,700 t consumed in April 2013. Manganese ore consumption during the first 5 months of 2013 was 240,000 t, which was 6% higher than that of the same period in 2012. The amount of ore consumed through May 2013

included revisions to prior months' data; the revised amount was 192,000 t through April. Industry stocks of ore at the end of May 2013 were 180,000 t, which was an 8% increase from the revised amount (167,000 t) at the end of April 2013.

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

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

		High	Low	Average	Average low, mid, and high
Manganese ferroalloys: ¹					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,100.00	1,050.00	1,073.00	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	89.00	87.00	88.40	XX
Silicomanganese, 65% manganese	do.	54.00	52.00	53.00	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	133.00	130.00	XX	130.00–131.50–133.00
Manganese ore: ^{3,4}					
36%–39% manganese	dollars per metric ton unit contained manganese	5.45	4.55	XX	4.84–5.03–5.21
44% manganese	do.	5.90	5.35	XX	5.37–5.61–5.86
46% manganese	do.	5.75	5.40	XX	5.42–5.58–5.75

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:						
May	15,500	49,500	65,000	42	620	662
January–May	68,100	251,000	319,000	694	3,500	4,200
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
January–May	107,000	238,000	345,000	91	5,050	5,150

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 MAY 2013¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–May		
				Gross weight	Mn content	Customs value ²
Australia	5,320	3,540	\$5,150,000	25,000	16,800	\$26,000,000
Bahrain	--	--	--	1,450	968	1,750,000
Canada	--	--	--	45	30	36,400
China	--	--	--	4	2	4,920
Georgia	1,280	899	1,100,000	56,200	39,500	55,300,000
India	133	76	193,000	2,300	1,360	3,470,000
Korea, Republic of	--	--	--	5,650	2,900	5,970,000
Mexico	3,080	2,010	3,240,000	12,200	7,930	12,700,000
Norway	5,390	3,350	7,850,000	11,300	6,960	17,200,000
South Africa	7,520	4,970	8,070,000	32,600	23,300	35,500,000
Spain	--	--	--	5,010	3,260	5,410,000
Total	22,700	14,800	25,600,000	152,000	103,000	163,000,000

-- 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 MAY 2013¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–May		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	815	772	\$1,810,000	1,770	1,670	\$4,020,000
Korea, Republic of	--	--	--	1,300	1,170	2,900,000
Mexico	--	--	--	500	405	868,000
Norway	2,760	2,240	3,990,000	6,680	5,390	9,570,000
South Africa	--	--	--	449	410	1,040,000
Total	3,570	3,010	5,800,000	10,700	9,050	18,400,000
Medium carbon, 1%–2% C:						
China	--	--	--	60	46	140,000
Hong Kong	--	--	--	208	166	320,000
India	241	190	366,000	506	392	737,000
Korea, Republic of	--	--	--	4,110	3,230	5,250,000
Mexico	40	30	90,800	962	726	2,080,000
Norway	2,700	2,350	3,340,000	6,400	5,350	7,630,000
South Africa	635	508	954,000	4,460	3,580	6,430,000
Vietnam	8	6	11,900	8	6	11,900
Total	3,620	3,080	4,760,000	16,700	13,500	22,600,000
Medium carbon, 2%–4% C, South Africa	--	--	--	18	14	40,300
High carbon:						
Australia	2,810	2,160	2,570,000	15,500	11,500	14,900,000
Bahrain	--	--	--	29	23	33,600
Brazil	216	163	203,000	432	326	403,000
Canada	--	--	--	55	35	65,400
France	--	--	--	8,250	6,420	7,840,000
India	3	2	4,660	3	2	4,660
Korea, Republic of	3,000	2,250	2,570,000	9,100	6,780	8,740,000
South Africa	26,300	20,100	26,200,000	87,900	67,200	90,300,000
Spain	--	--	--	216	163	235,000
Ukraine	22	16	26,200	89	58	108,000
United Kingdom	--	--	--	2	2	3,170
Total	32,400	24,600	31,500,000	122,000	92,500	123,000,000
Grand total	39,600	30,700	42,100,000	149,000	115,000	164,000,000

-- 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 MAY 2013^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–May		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Australia	--	--	--	33,000	15,500	\$7,400,000
Belgium	--	--	--	12	5	6,370
France	8,010	3,560	\$1,820,000	8,010	3,560	1,820,000
Gabon	10,700	4,970	1,840,000	15,200	6,910	2,390,000
Ghana	--	--	--	39,800	11,200	3,830,000
Mexico	--	--	--	3,310	1,240	715,000
Total	18,700	8,540	3,660,000	99,300	38,400	16,200,000
47% or more manganese:						
Argentina	--	--	--	(4)	(4)	120,000
Australia	--	--	--	10,700	5,300	3,090,000
Brazil	52	26	19,800	3,130	1,620	1,460,000
France	2,000	1,020	595,000	2,020	1,030	621,000
Gabon	27,800	14,800	8,020,000	97,700	54,300	24,100,000
Georgia	--	--	--	63	58	230,000
Morocco	2,230	1,110	134,000	3,080	1,540	185,000
South Africa	--	--	--	40	19	20,500
Total	32,100	16,900	8,770,000	117,000	63,800	29,800,000
Grand total	50,800	25,400	12,400,000	216,000	102,000	46,000,000

-- 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 MAY 2013¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–May	
			Quantity	Customs value ²
Belgium	--	--	7	\$19,100
Brazil	--	--	19	26,900
Germany	8	\$13,100	31	52,400
Japan	468	1,110,000	2,300	5,330,000
Singapore	11	19,400	76	116,000
South Africa	544	1,180,000	4,720	10,200,000
Turkey	--	--	48	81,600
Total	1,030	2,320,000	7,190	15,900,000

-- 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 MAY 2013¹
(Metric tons)

Source	Gross weight	Customs value ²	January–May	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,920	\$4,400,000	5,540	\$12,800,000
Japan	--	--	37	127,000
Mexico	29	119,000	144	610,000
Netherlands	--	--	76	208,000
South Africa	709	1,940,000	4,250	11,600,000
Total	2,660	6,460,000	10,100	25,300,000
Unwrought powder:				
China	40	92,200	40	92,200
South Africa	238	963,000	941	3,800,000
Total	278	1,060,000	981	3,890,000
Unwrought, other:				
China	2,730	6,570,000	8,670	20,500,000
Germany	13	34,700	20	51,700
Poland	--	--	(3)	10,700
South Africa	38	155,000	286	1,160,000
Spain	36	116,000	60	186,000
Total	2,820	6,880,000	9,030	21,900,000
Other manganese, wrought:				
China	(3)	10,500	72	164,000
Germany	--	--	7	90,700
Japan	(3)	6,850	(3)	10,900
Korea, Republic of	--	--	19	47,000
Total	(3)	17,400	98	312,000
Metallic waste and scrap, Canada	25	16,100	295	212,000
Grand total	5,780	14,400,000	20,500	51,700,000

-- 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 MAY 2013^{1,2}

Source	Gross weight (metric tons)	F.a.s. value ³ (thousands)	January–May	
			Gross weight (metric tons)	F.a.s. value ³ (thousands)
Ore and concentrates with 20% or more manganese:				
Canada	11	\$12	42	\$51
Malaysia	--	--	6	8
Mexico	2	6	2	6
Netherlands	30	95	114	337
Poland	--	--	18	21
Total	43	113	181	422
Ferromanganese:				
2% or less carbon:				
Australia	--	--	32	60
Canada	--	--	117	152
Japan	--	--	60	120
Korea, Republic of	--	--	10	27
Nicaragua	--	--	3	7
Saudi Arabia	8	15	8	15
Spain	--	--	12	29
Sweden	--	--	20	35
Turkey	40	88	179	396
United Kingdom	--	--	2	4
Other (1 country)	--	--	1	3
Total	48	103	444	848
More than 2% carbon:				
Brazil	3	7	21	60
Canada	24	31	181	211
Chile	--	--	19	29
Congo	2	9	2	9
Malaysia	15	41	30	122
Mexico	2	4	4	11
Singapore	--	--	3	8
United Kingdom	--	--	22	62
Total	45	92	283	513
Silicomanganese:				
Brazil	--	--	360	360
Canada	1,090	1,130	4,890	5,300
Total	1,090	1,130	5,250	5,660
Metal, including alloys and waste and scrap:⁴				
Canada	2	7	25	89
China	78	61	376	880
Germany	11	45	12	48
Hong Kong	11	182	11	182
India	87	205	180	381
Korea, Republic of	18	73	41	185
Norway	--	--	75	344
Pakistan	56	80	190	200
Taiwan	--	--	22	47
Vietnam	--	--	77	134
Other (4 countries)	5	47	9	74
Total	268	700	1,020	2,560
Grand total	1,490	2,140	7,170	10,000

-- Zero.

¹Presentation of monthly data is based on the "January–May" 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 MAY 2013, BY CLASS¹

Class			Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–May		Principal sources and destinations: gross weight (metric tons); value ² (thousands)
	Gross weight (metric tons)	Value ² (thousands)		Gross weight (metric tons)	Value ² (thousands)	
Imports for consumption:						
Manganese oxides other than dioxide	426	\$462	Korea, Republic of 220; \$159	1,650	\$1,750	Mexico 672; \$611
Manganites, manganates, and other permanganates	(3)	5	Canada (3); \$5	8	18	India 8; \$11
Potassium permanganate	121	352	India 121; \$352	535	1,550	India 535; \$1,550
Sodium permanganate	101	264	China 90; \$225	343	864	China 331; \$807
Sulfates, basket category, including manganese sulfate	4,070	4,590	Mexico 1,770; \$1,520	24,300	24,400	China 9,520; \$11,100
Exports:						
Manganese dioxide	586	1,140	Canada 216; \$234	2,670	5,540	Canada 797; \$755
Manganese oxides other than dioxide	919	1,550	Indonesia 164; \$177	3,490	6,150	Canada 724; \$879
Manganites, manganates, and other permanganates	28	68	Mexico 20; \$47	123	323	Mexico 64; \$168
Potassium permanganate	314	881	Belgium 163; \$375	1,330	3,640	Belgium 956; \$2,210
Sodium permanganate	58	152	Japan 26; \$75	238	613	Belgium 100; \$205
Sulfates, basket category, including manganese sulfate	1,310	1,190	Canada 1,030; \$711	7,770	7,860	Canada 5,890; \$4,090

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

²For imports, customs value; for exports, free alongside ship value.

³Less than ½ unit.

Source: U.S. Census Bureau.