

Mineral Industry Surveys

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MANGANESE IN APRIL 2013

Preliminary domestic data (gross weight) for April 2013 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 46,000 metric tons (t). This was a 6% decrease from the revised amount of 48,900 t consumed in March 2013. Manganese ore consumption during the first 4 months of 2013 was 193,000 t, which was 11% higher than that of the same

period in 2012. Industry stocks of ore at the end of April 2013 were 168,000 t, which was a 6% increase from the revised amount (158,000 t) at the end of March 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 April 2013.

TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN APRIL 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	1,100.00	1,080.00	1,095.00	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	90.00	89.00	89.50	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	130.00–131.56–133.11
<u>Manganese ore:^{3,4}</u>					
36%–39% manganese	dollars per metric ton unit contained manganese	5.50	5.15	XX	5.24–5.35–5.47
44% manganese	do.	5.90	5.50	XX	5.59–5.75–5.90
46% manganese	do.	5.75	5.55	XX	5.59–5.67–5.75

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:						
April	3,960	59,500	63,400	106	816	922
January–April	52,600	201,000	254,000	652	2,880	3,540
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
January–April	80,500	187,000	268,000	69	4,000	4,070

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 APRIL 2013¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–April		
				Gross weight	Mn content	Customs value ²
Australia	2,950	1,960	\$3,100,000	19,700	13,200	\$20,900,000
Bahrain	231	151	255,000	1,450	968	1,750,000
Canada	--	--	--	45	30	36,400
China	4	2	4,920	4	2	4,920
Georgia	17,300	12,200	16,700,000	54,900	38,600	54,200,000
India	451	264	673,000	2,170	1,280	3,280,000
Korea, Republic of	--	--	--	5,650	2,900	5,970,000
Mexico	3,000	1,960	3,150,000	9,080	5,920	9,470,000
Norway	2,940	1,810	4,640,000	5,870	3,610	9,330,000
South Africa	5,040	3,340	5,510,000	25,100	18,300	27,500,000
Spain	8	5	15,100	5,010	3,260	5,410,000
Total	31,900	21,700	34,000,000	129,000	88,100	138,000,000

-- 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 APRIL 2013¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–April		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	486	459	\$1,170,000	956	901	\$2,210,000
Korea, Republic of	500	450	1,090,000	1,300	1,170	2,900,000
Mexico	--	--	--	500	405	868,000
Norway	1,300	1,040	1,890,000	3,930	3,160	5,580,000
South Africa	324	308	848,000	449	410	1,040,000
Total	2,610	2,260	4,990,000	7,130	6,040	12,600,000
Medium carbon, 1%–2% C:						
China	--	--	--	60	46	140,000
Hong Kong	208	166	320,000	208	166	320,000
India	76	61	117,000	265	202	372,000
Korea, Republic of	3,500	2,850	4,310,000	4,110	3,230	5,250,000
Mexico	241	183	491,000	922	696	1,990,000
Norway	400	325	501,000	3,700	3,010	4,290,000
South Africa	1,920	1,520	2,650,000	3,830	3,070	5,470,000
Total	6,350	5,110	8,390,000	13,100	10,400	17,800,000
Medium carbon, 2%–4% C, South Africa	--	--	--	18	14	40,300
High carbon:						
Australia	5,090	4,040	4,900,000	12,700	9,380	12,300,000
Bahrain	27	21	31,000	29	23	33,600
Brazil	--	--	--	216	163	200,000
Canada	20	14	23,700	55	35	65,400
France	--	--	--	8,250	6,420	7,840,000
Korea, Republic of	--	--	--	6,100	4,530	6,170,000
South Africa	32,200	24,600	33,500,000	61,600	47,100	64,100,000
Spain	72	55	83,500	216	163	235,000
Ukraine	28	18	35,000	68	43	82,000
United Kingdom	2	2	3,170	2	2	3,170
Total	37,500	28,800	38,600,000	89,200	67,900	91,100,000
Grand total	46,400	36,100	52,000,000	109,000	84,400	122,000,000

-- 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 APRIL 2013^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–April		
				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
Gabon	--	--	--	4,510	1,940	545,000
Ghana	--	--	--	39,800	11,200	3,830,000
Mexico	--	--	--	3,310	1,240	715,000
Total	--	--	--	80,600	29,900	12,500,000
47% or more manganese:						
Argentina	(4)	(4)	\$120,000	(4)	(4)	120,000
Australia	--	--	--	10,700	5,300	3,090,000
Brazil	53	26	20,500	3,070	1,600	1,440,000
France	--	--	--	15	8	26,600
Gabon	--	--	--	69,900	39,500	16,100,000
Georgia	--	--	--	63	58	230,000
Morocco	--	--	--	851	425	51,100
South Africa	--	--	--	40	19	20,500
Total	53	26	140,000	84,600	46,900	21,100,000
Grand total	53	26	140,000	165,000	76,800	33,500,000

-- 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 APRIL 2013¹
DIOXIDE IN APRIL 2013¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–April	
			Quantity	Customs value ²
Belgium	--	--	7	\$19,100
Brazil	19	\$26,900	19	26,900
Germany	--	--	23	39,300
Japan	305	720,000	1,830	4,220,000
Singapore	23	38,800	65	96,800
South Africa	1,310	2,710,000	4,170	9,050,000
Turkey	--	--	48	81,600
Total	1,660	3,500,000	6,160	13,500,000

-- 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 APRIL 2013¹
(Metric tons)

Source	Gross weight	Customs value ²	January–April	
			Gross weight	Customs value ²
Unwrought flake:				
China	2,090	\$4,650,000	3,620	\$8,380,000
Japan	25	84,500	37	127,000
Mexico	42	178,000	115	491,000
Netherlands	--	--	76	208,000
South Africa	702	1,940,000	3,550	9,630,000
Total	2,850	6,850,000	7,390	18,800,000
Unwrought powder, South Africa	204	790,000	703	2,840,000
Unwrought, other:				
China	2,400	5,800,000	5,930	14,000,000
Germany	7	17,000	7	17,000
Poland	(3)	2,080	(3)	10,700
South Africa	114	464,000	248	1,000,000
Spain	--	--	24	69,800
Total	2,520	6,280,000	6,210	15,100,000
Other manganese, wrought:				
China	11	29,000	72	153,000
Germany	7	90,700	7	90,700
Japan	--	--	(3)	4,000
Korea, Republic of	19	47,000	19	47,000
Total	36	167,000	97	295,000
Metallic waste and scrap, Canada	--	--	270	196,000
Grand total	5,610	14,100,000	14,700	37,200,000

-- 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 APRIL 2013^{1,2}

Source	Gross weight (metric tons)	F.a.s. value ³ (thousands)	January–April	
			Gross weight (metric tons)	F.a.s. value ³ (thousands)
Ore and concentrates with 20% or more manganese:				
Canada	26	\$33	31	\$39
Malaysia	--	--	6	8
Netherlands	--	--	83	241
Poland	--	--	18	21
Total	26	33	138	309
Ferromanganese:				
2% or less carbon:				
Australia	32	60	32	60
Canada	30	37	117	152
Japan	20	38	60	120
Korea, Republic of	--	--	10	27
Mexico	1	3	1	3
Nicaragua	3	7	3	7
Spain	12	29	12	29
Sweden	--	--	20	35
Turkey	40	88	139	308
United Kingdom	--	--	2	4
Total	139	261	396	745
More than 2% carbon:				
Brazil	2	4	19	53
Canada	43	51	157	180
Chile	19	29	19	29
Malaysia	15	82	15	82
Mexico	--	--	3	7
Singapore	--	--	3	8
United Kingdom	22	62	22	62
Total	102	228	238	421
Silicomanganese:				
Brazil	360	360	360	360
Canada	1,330	1,390	3,800	4,160
Total	1,690	1,750	4,160	4,520
Metal, including alloys and waste and scrap:⁴				
Canada	13	36	22	82
China	85	190	298	819
Germany	--	--	1	3
India	56	97	93	177
Japan	--	--	4	15
Korea, Republic of	(5)	4	22	111
Norway	--	--	75	344
Pakistan	13	52	134	120
Taiwan	--	--	22	47
Vietnam	60	97	77	134
Other (1 country)	(5)	11	(5)	11
Total	228	487	748	1,860
Grand total	2,190	2,760	5,680	7,860

-- Zero.

¹Presentation of monthly data is based on the "January–April" 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.

⁵Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN APRIL 2013, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–April		
				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	402	\$433	Korea, Republic of 200; \$144	1,230	\$1,290	Mexico 526; \$477
Manganites, manganates, and other permanganates	--	--	--	8	14	India 8; \$11
Potassium permanganate	108	308	India 108; \$308	414	1,200	India 414; \$1,200
Sodium permanganate	58	136	China 58; \$136	243	600	China 241; \$582
Sulfates, basket category, including manganese sulfate	5,130	5,610	China 2,100; \$2,610	20,200	19,800	China 8,460; \$9,330
Exports:						
Manganese dioxide	572	1,290	Belgium 118; \$397	2,080	4,400	Belgium 591; \$1,990
Manganese oxides other than dioxide	836	1,240	United Kingdom 146; \$237	2,570	4,600	Canada 620; \$754
Manganites, manganates, and other permanganates	25	59	Mexico 22; \$52	96	255	Canada 52; \$134
Potassium permanganate	243	712	Belgium 186; \$427	1,020	2,760	Belgium 793; \$1,840
Sodium permanganate	57	129	Belgium 37; \$73	180	462	Belgium 81; \$165
Sulfates, basket category, including manganese sulfate	1,740	2,190	Canada 1,160; \$1,110	6,460	6,670	Canada 4,860; \$3,380

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.