

Mineral Industry Surveys

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MANGANESE IN APRIL 2010

Preliminary reported data (gross weight) for April 2010 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 36,800 metric tons (t), according to the U.S. Geological Survey. This was a slight decrease from the amount consumed in March 2010. Manganese ore consumption in the first 4 months of 2010 was 148,000 t, which was a 4% increase from the revised amount consumed during the first 4 months of 2009 (142,000 t). Industry stocks of ore at the end of April 2010 were 182,000 t, which was slightly less than that at the end of March 2010.

Data for U.S. manganese imports and exports for March 2010 are published in this issue. On a contained-weight basis, U.S. manganese ore and manganese ferroalloys plus metal imports for March 2010 were 81% lower and 12% higher, respectively, than those in February 2010. U.S. imports of manganese ore

plus dioxide and manganese ferroalloys plus metal during the first 3 months of 2010 were 74% higher and 95% higher, respectively, than those during the same period in 2009 (table 1).

On a contained-weight basis, U.S. manganese ore and manganese ferroalloys plus metal exports for March 2010 were 416% higher and 10% higher, respectively, than those in February 2010. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 3 months of 2010 were 178% greater and 53% less, respectively, than those during the same period in 2009 (table 1).

Prices

Prices for manganese materials in April 2010, manganese content, are listed below.

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	1,550.00-1,600.00	1,575.00
Medium-carbon ferromanganese ³	140.00-150.00	147.25
Silicomanganese ³	68.00-73.00	71.25

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	156.00-162.00	156.00-159.00-162.00
36%-39% Manganese ore ⁵	6.20-7.10	6.67-6.86-7.06
44% Manganese ore ⁵	6.75-8.00	7.14-7.51-7.89
48% Manganese ore ⁵	7.00-8.50	7.78-8.08-8.39

¹Source: Platts Metals Week, dealer import price; average prices reported for all transactions during the month.

²Dollars per gross ton.

³Cents per pound.

⁴Source: Ryan's Notes, cost and freight, China; average prices reported for the price range.

⁵Dollars per metric ton unit, contained manganese. To determine dollars per metric ton of ore (gross weight), multiply the manganese content percentage by the price; that is, by 48 when the manganese content is 48%.

TABLE 1
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
2009:						
March	26,300	8,670	35,000	80	1,730	1,810
January-March	52,500	58,700	111,000	370	8,460	8,830
2010:						
January	782	34,600	35,400	51	992	1,040
February	75,800	37,800	114,000	159	1,400	1,560
March	14,600	42,300	56,900	820	1,540	2,360
Total	91,200	115,000	206,000	1,030	3,940	4,970

¹Data 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 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN MARCH 2010¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	5,010	3,370	\$4,510,000	8,650	5,880	\$8,350,000
Bahrain	--	--	--	1,140	760	1,480,000
Georgia	2,330	1,590	2,760,000	4,550	3,140	5,070,000
India	--	--	--	104	58	171,000
Mexico	1,000	657	1,090,000	3,000	1,980	3,210,000
Norway	4,220	2,610	6,990,000	10,800	6,430	17,000,000
Russia	--	--	--	403	265	335,000
Saudi Arabia	--	--	--	2,050	1,350	2,260,000
South Africa	15,500	10,500	18,800,000	38,700	26,000	44,300,000
Spain	--	--	--	1,590	954	2,810,000
Total	28,100	18,700	34,200,000	71,000	46,800	85,000,000

-- 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 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN MARCH 2010¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	1,530	1,390	\$4,100,000	6,190	5,260	\$14,300,000
Korea, Republic of	1,700	1,360	3,570,000	1,700	1,360	3,570,000
Mexico	900	722	1,740,000	3,750	3,010	7,010,000
Netherlands	--	--	--	220	178	429,000
Norway	1,420	1,140	2,830,000	2,090	1,700	4,010,000
South Africa	--	--	--	3	2	7,080
Total	5,540	4,610	12,200,000	14,000	11,500	29,400,000
Medium carbon, 1%-2% C:						
China	420	328	1,310,000	420	328	1,310,000
Korea, Republic of	2,000	1,600	3,900,000	3,700	2,960	6,760,000
Mexico	857	685	1,610,000	2,590	2,090	4,460,000
Norway	4,000	3,240	7,390,000	9,600	7,740	16,700,000
Russia	--	--	--	18	14	46,300
South Africa	18	13	46,000	5,820	4,620	9,550,000
Total	7,300	5,870	14,200,000	22,200	17,700	38,800,000
Medium carbon, 2%-4% C, South Africa						
	18	16	44,900	36	32	89,300
High carbon:						
Brazil	400	300	480,000	700	529	840,000
France	4,730	3,630	5,150,000	4,730	3,630	5,150,000
Mexico	--	--	--	1	1	2,450
Norway	--	--	--	704	565	746,000
Russia	20	14	17,700	20	14	17,700
South Africa	3,860	3,000	4,580,000	24,100	18,600	26,900,000
Ukraine	3,310	2,570	3,750,000	8,200	6,370	8,990,000
Zambia	495	347	495,000	495	347	495,000
Total	12,800	9,860	14,500,000	38,900	30,100	43,100,000
Grand total	25,700	20,400	41,000,000	75,100	59,400	111,000,000

-- 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 4
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN MARCH 2010^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	Year to date		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese, South Africa	--	--	--	44,300	17,700	\$7,250,000
47% or more manganese:						
Australia	--	--	--	52,900	48,600	14,700,000
Brazil	--	--	--	3,960	2,020	1,230,000
Gabon	19,000	9,380	\$3,370,000	31,000	15,700	4,870,000
Georgia	5,500	4,010 ⁴	6,080,000	5,500	4,010	6,080,000
Morocco	846	423	29700	853	430	41,300
Total	25,300	13,800	9,480,000	94,200	70,800	27,000,000
Grand total	25,300	13,800	9,480,000	138,000	88,500	34,200,000

-- Zero.

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

²Data 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.

⁴Reported manganese content is indicative of total natural manganese dioxide. The percentage of manganese contained in manganese dioxide at this grade is about 46.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN MARCH 2010¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Belgium	16	\$62,600	20	\$80,000
Germany	16	30,800	38	67,800
Japan	576	1,270,000	1,400	3,040,000
Netherlands	--	--	123	67,400
Singapore	11	18,200	21	36,500
South Africa	753	1,950,000	2,950	7,860,000
Spain	--	--	5	10,400
Total	1,370	3,330,000	4,560	11,200,000

-- 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 METAL IN MARCH 2010¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,080	\$2,810,000	3,030	\$7,730,000
Hong Kong	--	--	444	1,150,000
South Africa	114	356,000	362	1,020,000
Vietnam	400	1,110,000	440	1,210,000
Total	1,590	4,280,000	4,270	11,100,000
Unwrought powder:				
China	--	--	60	141,000
South Africa	346	1,170,000	643	2,140,000
Total	346	1,170,000	703	2,290,000
Unwrought, other:				
China	901	2,090,000	2,800	6,150,000
Germany	49	134,000	171	468,000
Hong Kong	66	156,000	66	156,000
South Africa	133	432,000	286	926,000
United Kingdom	41	131,000	54	184,000
Total	1,190	2,950,000	3,370	7,880,000
Other manganese, wrought:				
Canada	--	--	(3)	7,110
China	20	61,300	40	117,000
France	--	--	8	31,600
Mexico	--	--	13	47,600
South Africa	20	62,300	20	62,300
United Kingdom	--	--	8	30,700
Total	40	124,000	89	296,000
Grand total	3,170	8,530,000	8,440	21,600,000

-- Zero.

¹Data rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represent 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.

Note: Imports for consumption of metallic waste and scrap totaled 140 metric tons (t), of which 96 t were from Canada, and 44 t were from Mexico; to give a year-to-date total of 274 t.

Source: U.S. Census Bureau.

TABLE 7

U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE,
AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN MARCH 2010¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese,				Silicomanganese		Manganese metal ²	
			2% or less C		More than 2% C					
	March	Year to date	March	Year to date	March	Year to date	March	Year to date	March	Year to date
Australia	--	--	--	--	--	--	--	--	3	22
Belgium	--	--	--	--	--	--	40	240	19	117
Brazil	--	--	--	--	--	25	--	--	--	--
Canada	1,600	1,880	36	136	823	1,960	62	768	48	50
China	--	--	--	--	--	--	--	--	213	261
Colombia	1	1	--	--	--	--	--	--	--	--
Germany	21	41	--	--	--	--	--	--	45	59
Hong Kong	--	--	--	--	--	--	--	--	113	313
India	--	--	--	--	--	--	--	--	20	70
Ireland	--	--	--	--	--	17	--	--	--	--
Japan	--	--	--	--	--	--	--	--	--	53
Korea, Republic of	17	34	--	--	--	--	--	--	--	--
Luxembourg	--	--	--	--	--	--	--	--	--	3
Malaysia	--	95	--	--	--	--	--	--	--	1
Mexico	--	--	--	--	20	20	--	20	4	20
Norway	--	--	--	--	--	--	19	19	--	--
Singapore	--	--	--	--	4	9	--	--	--	--
Spain	--	8	--	--	--	--	40	60	--	--
Trinidad	--	--	--	--	--	--	279	279	--	--
Turkey	--	--	--	--	--	--	--	280	--	--
United Kingdom	--	--	--	--	--	--	--	--	1	1
Venezuela	--	--	--	--	1	1	--	--	--	--
Vietnam	--	--	--	--	--	--	--	--	89	154
Total	1,640	2,060	36	136	848	2,030	440	1,670	555	1,120

-- Zero.

¹Data rounded to no more than three significant digits; may not add to totals shown²Includes manganese-aluminum, other alloys, and waste and scrap.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN MARCH 2010, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	Year to date		
				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	719	\$621	Mexico 318; \$318	2,540	\$1,930	South Africa 1,150; \$656
Manganites, manganates, and other permanganates	--	--	--	--	--	--
Potassium permanganate	143	440	India 72; \$223	359	1,140	India 216; \$700
Sodium permanganate	70	172	China 70; \$172	175	400	China 174; \$393
Sulfates, basket category, including manganese sulfate	3,930	3,370	Mexico 2,500; \$2,090	9,700	8,290	Mexico 5,180; \$4,300
Exports:						
Manganese dioxide	872	1,250	Canada 309; \$294	2,030	2,980	Canada 1,130; \$1,060
Manganese oxides other than dioxide	650	1,220	Canada 137; \$83	1,700	2,960	Canada 517; \$459
Manganites, manganates, and other permanganates	6	16	Canada 6; \$16	12	30	Canada 12; \$30
Potassium permanganate	265	623	Belgium 165; \$342	679	2,000	Belgium 348; \$899
Sodium permanganate	102	212	Belgium 64; \$113	355	838	Singapore 172; \$460
Sulfates, basket category, including manganese sulfate	1,390	1,250	Canada 1,060; \$685	4,910	3,760	Canada 4,060; \$2,090

-- Zero.

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.