

Mineral Industry Surveys

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MANGANESE IN APRIL 2009

Reported data regarding the amount of manganese ore consumed by U.S. firms in April 2009 and industry stocks at the end of the month were not available at the time of publication. However, net imports may be used as a rough indicator of near-term manganese ore consumption. On a gross weight basis, net imports of manganese ore in April 2009 were 17,800 metric tons (t), which was a 64% decrease from that in March 2009. Net imports of manganese ore in the first 4 months of 2009 were 113,000 t, which was a 36% decrease from those during the first 4 months of 2008.

Data for U.S. imports and exports for March 2009 are published in this issue. On a contained-weight basis, U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal were about 47 times higher and 36% lower, respectively, than those in February 2009. U.S. imports

of manganese ore plus dioxide and manganese ferroalloys plus metal during the first quarter of 2009 were 7% higher and 65% lower, respectively, than those during the same period in 2008 (table 1).

On a contained-weight basis, U.S. manganese ore and manganese ferroalloys plus metal exports for March 2009 were 57% lower and 60% lower, respectively, than those in February 2009. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first quarter of 2009 were 84% less and 36% more, respectively, than those during the same period in 2008 (table 1).

Prices

Prices for manganese materials in April 2009, manganese content, are listed below.

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	880.00-1,050.00	950.50
Medium-carbon ferromanganese ³	85.00-102.00	95.70
Silicomanganese ³	36.00-43.00	40.70

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	115.00-120.00	115.00-117.50-120.00
36%-39% Manganese ore ⁵	4.00-4.30	4.00-4.12-4.24
44% Manganese ore ⁵	5.00-5.25	5.00-5.11-5.22
48% Manganese ore ⁵	5.30-5.60	5.30-5.42-5.54

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
2008:						
March	1,250	41,600	42,800	81	5,080	5,160
January-March	48,900	167,000	216,000	2,330	6,220	8,560
2009:						
January	25,600	36,600	62,100	102	2,460	2,560
February	559	13,400	14,000	188	4,270	4,460
March	26,300	8,670	35,000	80	1,730	1,810
Total	52,500	58,700	111,000	370	8,460	8,830

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 2009¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	--	--	--	5,070	3,360	\$5,810,000
China	14	12	\$39,900	537	321	937,000
Georgia	--	--	216,000	4,000	2,800	3,920,000
Korea, Republic of	--	--	--	6,230	4,110	5,580,000
Norway	2	1	2,300	3	2	4,600
Saudi Arabia	--	--	--	4,190	734	3,970,000
South Africa	3,150	2,100	2,460,000	18,400	12,100	26,100,000
Total	3,170	2,110	2,510,000	38,400	23,400	46,300,000

-- 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 2009¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	274	253	\$768,000	617	572	\$1,730,000
Korea, Republic of	--	--	216,000	1,700	1,380	2,770,000
South Africa	--	--	--	1,000	812	2,500,000
Sweden	5	3	27,500	5	3	27,500
Total	279	256	796,000	3,320	2,770	7,030,000
Medium carbon, 1%-2% C:						
China	73	61	340,000	283	227	718,000
France	--	--	--	19	15	103,000
Korea, Republic of	--	--	--	64	51	148,000
Mexico	42	33	123,000	68	53	196,000
South Africa	607	445	1,980,000	7,380	5,870	20,000,000
Turkey	--	--	--	20	16	95,800
Total	723	539	2,440,000	7,840	6,230	21,300,000
High carbon:						
Bahrain	1,000	814	1,180,000	1,000	814	1,180,000
China	--	--	--	300	221	630,000
India	136	101	132,000	136	101	132,000
Korea, Republic of	100	76	120,000	100	76	120,000
South Africa	4,450	3,470	5,010,000	26,100	20,100	38,700,000
Total	5,680	4,460	6,440,000	27,600	21,300	40,800,000
Grand total	6,680	5,260	9,680,000	38,800	30,300	69,100,000

-- 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 2009^{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	--	--	--	--	--	--
47% or more manganese:						
China	3,740	1,870	\$216,000	3,890	1,960	\$365,000
Gabon	45,900	23,700	26,700,000	92,300	48,500	44,300,000
Total	49,600	25,600	26,900,000	96,200	50,500	44,600,000

-- 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.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN MARCH 2009¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Belgium	--	--	40	\$134,000
Brazil	--	--	56	95,600
India	--	--	216000	4,740
Japan	287	\$800,000	812	2,260,000
Singapore	--	--	30	50,200
South Africa	962	1,980,000	2,400	4,590,000
Total	1,250	2,780,000	3,330	7,130,000

-- 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 METAL IN MARCH 2009¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	124	\$306,000	216,000	\$3,790,000
South Africa	170	345,000	359	727,000
Total	294	650,000	1,980	4,520,000
Unwrought powder:				
China	120	444,000	280	994,000
South Africa	260	541,000	279	631,000
Total	380	985,000	559	1,630,000
Unwrought, other:				
Brazil	--	--	7	23,800
China	217	504,000	1,710	3,490,000
Germany	64	175,000	207	688,000
Malaysia	(3)	3,650	(3)	3,650
United Kingdom	--	--	6	20,400
South Africa	76	158,000	95	249,000
Total	357	840,000	2,030	4,480,000
Other manganese, wrought:				
Belgium	2	10,600	2	10,600
Canada	7	14,100	22	54,600
China	176	477,000	249	684,000
Mexico	65	341,000	132	700,000
Total	250	842,000	405	1,450,000
Grand total	1,280	3,320,000	4,970	12,100,000

-- 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 35 metric tons, all of which was from Canada, to give a year-to-date total of 53 metric tons.

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 2009¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese,				Silicomanganese		Manganese metal ²	
	March	Year to date	2% or less C		More than 2% C		March	Year to date	March	Year to date
			March	Year to date	March	Year to date				
Argentina	--	--	--	--	--	--	--	--	--	1
Australia	--	--	216,000	--	--	160	--	--	--	--
Belgium	--	--	--	--	--	--	--	--	--	50
Brazil	1	1	--	--	100	200	--	--	--	--
Canada	116	418	320	2,210	683	2,460	40	543	10	13
Chile	--	--	--	--	--	80	--	--	--	--
China	--	--	--	--	--	--	--	--	--	13
Colombia	--	--	--	--	20	20	--	--	--	--
Finland	--	--	--	--	--	--	--	--	--	21
France	--	--	--	--	--	--	--	--	--	(3)
Germany	--	131	--	--	--	--	--	--	--	36
Guyana	--	--	--	--	--	--	--	--	--	1
Hong Kong	--	--	--	--	--	--	--	--	96	231
India	--	--	--	--	--	9	--	--	5	20
Ireland	--	--	--	--	--	8	--	--	--	--
Japan	--	--	--	--	245	1,000	--	--	78	271
Korea, Republic of	25	169	--	--	--	--	--	--	--	--
Malaysia	--	--	--	--	14	1,080	--	--	--	--
Mexico	--	--	--	1,050	61	194	499	528	3	23
Netherlands	--	3	--	--	--	--	--	--	--	--
Norway	--	--	--	--	--	3	--	--	--	--
Sweden	19	19	--	--	--	--	--	--	--	--
Taiwan	--	--	--	--	--	--	--	--	37	53
United Kingdom	--	--	--	--	--	402	--	--	--	--
Vietnam	--	--	--	--	--	--	--	--	--	4
Total	161	740	320	3,260	1,120	5,620	539	1,070	229	737

-- Zero.

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

²Includes manganese-aluminum, some other alloys, and waste and scrap.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN MARCH 2009, 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	778	\$542	Brazil 498; \$320	1,570	\$1,360	Brazil 860; \$543
Manganites, manganates, and other permanganates	--	--	216,000	--	--	--
Potassium permanganate	97	316	India 54; \$169	227	759	Czech Republic 155; \$538
Sodium permanganate	--	--	--	--	--	--
Sulfates, basket category, including manganese sulfate	1,930	2,530	Mexico 1,100; \$1,470	9,770	11,800	Mexico 4,450; \$6,490
Exports:						
Manganese dioxide	403	544	Canada 262; \$302	1,680	1,840	Canada 1,170; \$1,050
Manganese oxides other than dioxide	576	360	Canada 460; \$189	1,650	1,590	Canada 995; \$424
Manganites, manganates, and other permanganates	11	24	Canada 11; \$24	45	103	Canada 43; \$89
Potassium permanganate	248	664	Canada 98; \$204	399	1,210	Belgium 202; \$619
Sodium permanganate	105	312	Belgium 91; \$247	173	462	Belgium 110; \$300
Sulfates, basket category, including manganese sulfate	1,410	1,080	Canada 1,210; \$746	4,290	3,600	Canada 3,520; \$2,130

-- 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.