

Mineral Industry Surveys

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MANGANESE IN MAY 2010

Preliminary reported data (gross weight) for May 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 the same as consumed in April 2010. Manganese ore consumption in the first 5 months of 2010 was 185,000 t, which was a 4% increase from the revised amount consumed during the first 5 months of 2009 (178,000 t). Industry stocks of ore at the end of May 2010 were 182,000 t, which was the same as that at the end of April 2010.

Data for U.S. manganese imports and exports for April 2010 are published in this issue. On a contained-weight basis, U.S. manganese ore and manganese ferroalloys plus metal imports for April 2010 were 23% higher and 20% lower, respectively, than those in March 2010. U.S. imports of manganese ore plus

dioxide and manganese ferroalloys plus metal during the first 4 months of 2010 were 75% higher and 124% 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 April 2010 were 86% lower and 16% lower, respectively, than those in March 2010. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 4 months of 2010 were 153% greater and 55% less, respectively, than those during the same period in 2009 (table 1).

Prices

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

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	1,400.00-1,600.00	1,516.25
Medium-carbon ferromanganese ³	140.00-150.00	146.50
Silicomanganese ³	62.00-73.00	68.50

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	6.50-7.50	6.91-7.10-7.29
44% Manganese ore ⁵	7.10-8.60	7.38-7.87-8.36
48% Manganese ore ⁵	8.00-8.90	8.31-8.52-8.73

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:						
April	9,960	7,450	17,400	80	3,190	3,270
January-April	62,400	66,100	129,000	451	11,600	12,100
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
April	18,000	33,600	51,600	113	1,290	1,410
Total	109,000	148,000	258,000	1,140	5,230	6,370

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 APRIL 2010¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	5,400	3,550	\$5,550,000	14,100	9,430	\$13,900,000
Bahrain	--	--	--	1,140	760	1,480,000
Canada	14	5 ³	11,400	14	5	11,400
Georgia	601	413	753,000	5,150	3,550	5,830,000
India	--	--	--	104	58	171,000
Mexico	1,800	1,180	2,070,000	4,800	3,160	5,280,000
Norway	1,520	1,020	1,920,000	12,300	7,450	18,900,000
Russia	--	--	--	403	265	335,000
Saudi Arabia	--	--	--	2,050	1,350	2,260,000
South Africa	13,100	8,840	15,700,000	51,800	34,800	60,000,000
Spain	--	--	--	1,590	954	2,810,000
Total	22,400	15,000	26,000,000	93,400	61,800	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.

³All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN APRIL 2010¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	2,440	2,110	\$6,030,000	8,620	7,370	\$20,400,000
Korea, Republic of	--	--	--	1,700	1,360	3,570,000
Mexico	1,900	1,540	3,990,000	5,650	4,540	11,000,000
Netherlands	--	--	--	220	178	429,000
Norway	31	25	54,200	2,120	1,730	4,060,000
South Africa	--	--	--	3	2	7,080
Total	4,370	3,670	10,100,000	18,300	15,200	39,400,000
Medium carbon, 1%-2% C:						
China	400	315	935,000	820	643	2,240,000
India	132	105	286,000	132	105	286,000
Korea, Republic of	700	553	1,680,000	4,400	3,510	8,440,000
Mexico	1,640	1,300	3,310,000	4,240	3,390	7,770,000
Netherlands	48	39	118,000	48	39	118,000
Norway	254	206	512,000	9,850	7,950	17,200,000
Russia	--	--	--	18	14	46,300
South Africa	1,270	1,030	2,390,000	7,090	5,650	11,900,000
Total	4,440	3,550	9,230,000	26,600	21,300	48,000,000
Medium carbon, 2%-4% C, South Africa	18	17	47,700	54	49	137,000
High carbon:						
Australia	501	388	648,000	501	388	648,000
Brazil	400	300	500,000	1,100	829	1,340,000
France	--	--	--	4,730	3,630	5,150,000
Kazakhstan	1,450	1,100	1,620,000	1,450	1,100	1,620,000
Mexico	--	--	--	1	1	2,450
Norway	--	--	--	704	565	746,000
Russia	--	--	--	20	14	17,700
South Africa	7,910	6,020	9,980,000	32,000	24,700	36,900,000
Ukraine	--	--	--	8,200	6,370	8,990,000
Zambia	--	--	--	495	347	495,000
Total	10,300	7,810	12,700,000	49,200	37,900	55,900,000
Grand total	19,100	15,000	32,100,000	94,100	74,400	143,000,000

-- 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 APRIL 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	4,000	2,100	\$357,000	35,000	17,800	5,230,000
Georgia	6,900	4,600 ⁴	6,900,000	12,400	8,610	13,000,000
Morocco	--	--	--	853	430	41,300
South Africa	18,000	9,850	6,010,000	18,000	9,850	6,010,000
Total	28,900	16,500	13,300,000	123,000	87,300	40,200,000
Grand total	28,900	16,500	13,300,000	167,000	105,000	47,500,000

-- 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 42.

Source: U.S. Census Bureau.

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

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Belgium	18	\$75,700	38	\$156,000
Germany	--	--	38	67,800
Japan	448	956,000	1,850	3,990,000
Netherlands	--	--	123	67,400
Singapore	32	54,700	54	91,200
South Africa	1,870	5,100,000	4,820	13,000,000
Spain	19	38,200	24	48,600
Total	2,380	6,230,000	6,940	17,400,000

-- 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 APRIL 2010¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,970	\$5,390,000	5,000	\$13,100,000
Hong Kong	--	--	444	1,150,000
South Africa	133	413,000	495	1,430,000
Vietnam	500	1,320,000	940	2,530,000
Total	2,600	7,130,000	6,870	18,200,000
Unwrought powder:				
China	20	57,500	80	198,000
Mexico	20	79,800	20	79,800
South Africa	277	933,000	920	3,080,000
Total	317	1,070,000	1,020	3,360,000
Unwrought, other:				
China	428	1,000,000	3,220	7,150,000
Germany	73	222,000	245	690,000
Hong Kong	66	183,000	132	339,000
Poland	(3)	3,010	(3)	3,010
Spain	9	22,700	9	22,700
South Africa	38	123,000	324	1,050,000
United Kingdom	2	5,550	56	189,000
Total	616	1,560,000	3,990	9,450,000
Other manganese, wrought:				
Canada	--	--	(3)	7,110
China	(3)	5,520	40	122,000
France	--	--	8	31,600
Mexico	--	--	13	47,600
South Africa	20	62,200	40	124,000
United Kingdom	--	--	8	30,700
Total	20	67,700	109	364,000
Grand total	3,550	9,830,000	12,000	31,400,000

-- 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 310 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 APRIL 2010¹

(Metric tons, gross weight)

Country	Ferromanganese,											
	Manganese ore		2% or less C				More than 2% C		Silicomanganese		Manganese metal ²	
	April	Year to date	April	Year to date	April	Year to date	April	Year to date	April	Year to date		
Australia	--	--	--	--	--	--	1	1	1	22		
Belgium	35	35	--	--	--	--	--	240	76	192		
Brazil	--	--	--	--	--	25	--	--	--	--		
Canada	105	1,990	56	192	388	2,350	69	837	1	51		
China	--	--	--	--	--	--	--	--	119	380		
Colombia	--	1	--	--	--	--	--	--	--	--		
Germany	17	58	--	--	--	--	--	--	--	59		
Hong Kong	--	--	--	--	--	--	--	--	76	389		
India	--	--	--	--	--	--	--	--	94	164		
Indonesia	--	--	--	--	--	--	--	--	38	38		
Ireland	--	--	--	--	--	17	--	--	--	--		
Japan	--	--	--	--	--	--	--	--	30	83		
Korea, Republic of	68	102	--	--	--	--	--	--	--	--		
Luxembourg	--	--	--	--	--	--	--	--	--	3		
Malaysia	--	95	--	--	--	--	--	--	--	1		
Mexico	--	--	19	19	--	20	455	475	7	27		
Norway	--	--	--	--	3	3	--	19	--	--		
Singapore	--	--	--	--	--	9	--	--	--	--		
Spain	--	8	--	--	--	--	--	60	--	--		
Suriname	--	--	--	--	--	--	--	--	1	1		
Trinidad and Tobago	--	--	--	--	--	--	--	279	--	--		
Turkey	--	--	--	--	--	--	140	420	--	--		
United Kingdom	--	--	--	--	--	--	--	--	--	1		
Venezuela	--	--	--	--	1	1	--	--	--	--		
Vietnam	--	--	--	--	--	--	--	--	43	197		
Total	225	2,290	75	211	391	2,430	666	2,330	485	1,610		

-- Zero.

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

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

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN APRIL 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	683	\$567	Brazil 272; \$165	3,220	\$2,500	South Africa 1,350; \$757
Manganites, manganates, and other permanganates	--	--	--	--	--	--
Potassium permanganate	47	136	Czech Republic 29; \$86	406	1,280	India 234; \$750
Sodium permanganate	40	92	China 40; \$92	215	491	China 214; \$485
Sulfates, basket category, including manganese sulfate	3,740	3,220	Mexico 2,600; \$2,130	13,400	11,500	Mexico 7,780; \$6,420
Exports:						
Manganese dioxide	791	823	Canada 334; \$337	2,820	3,800	Canada 1,460; \$1,400
Manganese oxides other than dioxide	759	919	Canada 305; \$270	2,460	3,870	Canada 822; \$730
Manganites, manganates, and other permanganates	6	87	Canada 5; \$12	18	118	Canada 17; \$43
Potassium permanganate	215	627	Belgium 133; \$337	894	2,620	Belgium 481; \$1,240
Sodium permanganate	61	141	Taiwan 31; \$81	417	979	Singapore 172; \$460
Sulfates, basket category, including manganese sulfate	1,640	1,300	Canada 1,080; \$748	6,540	5,060	Canada 5,140; \$2,840

-- 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.