

Mineral Industry Surveys

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MANGANESE IN JUNE 2010

Preliminary reported data (gross weight) for June 2010 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 36,400 metric tons (t), according to the U.S. Geological Survey. This was a slight decrease from the amount consumed in May 2010. The amount of manganese ore consumed in the second quarter of 2010 decreased by 4% to 114,000 t from that consumed during the first quarter of 2010. Manganese ore consumption in the first half of 2010 was 224,000 t, which was a 5% increase from the revised amount consumed during the same period in 2009 (213,000 t). Industry stocks of ore at the end of June 2010 were 182,000 t, the same as that at the end of May 2010.

Data for U.S. manganese imports and exports for May 2010 are published in this issue. On a contained-weight basis, U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal were 27% higher and 34% higher,

respectively, than those in April 2010. U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal during the first 5 months of 2010 were 122% higher and 132% 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 May 2010 were 665% higher and 22% lower, respectively, than those in April 2010. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 5 months of 2010 were 27% less and 57% less, respectively, than those during the same period in 2009 (table 1).

Prices

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

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	1,360.00-1,430.00	1,338.00
Medium-carbon ferromanganese ³	128.00-139.00	131.90
Silicomanganese ³	62.00-66.00	64.55

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	150.00-155.00	150.67-153.22-155.78
36%-39% Manganese ore ⁵	7.00-7.50	7.10-7.30-7.50
44% Manganese ore ⁵	7.40-8.60	7.53-8.07-8.60
48% Manganese ore ⁵	8.30-8.90	8.43-8.67-8.90

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:						
May	946	12,400	13,400	2,310	2,900	5,210
January-May	63,400	78,600	142,000	2,760	14,500	17,300
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
May	31,800	33,900	65,700	864	1,010	1,880
Total	141,000	182,000	323,000	2,010	6,240	8,250

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 MAY 2010¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	1,120	735	\$1,350,000	15,200	10,200	\$15,300,000
Bahrain	--	--	--	1,140	760	1,480,000
Canada	--	--	--	14	5	11,400
Georgia	740	517	831,000	5,890	4,070	6,660,000
India	260	143	469,000	364	201	640,000
Mexico	--	--	--	4,800	3,160	5,280,000
Norway	7,050	4,380	11,600,000	19,400	11,800	30,500,000
Russia	141	93	180,000	544	358	515,000
Saudi Arabia	--	--	--	2,050	1,350	2,260,000
South Africa	9,740	6,460	9,590,000	61,500	41,300	69,600,000
Spain	--	--	--	1,590	954	2,810,000
Total	19,100	12,300	24,000,000	112,000	74,100	135,000,000

-- 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 MAY 2010¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	4,190	3,730	\$11,300,000	12,800	11,100	\$31,600,000
Korea, Republic of	--	--	--	1,700	1,360	3,570,000
Mexico	--	--	--	5,650	4,540	11,000,000
Netherlands	--	--	--	220	178	429,000
Norway	--	--	--	2,120	1,730	4,060,000
South Africa	--	--	--	3	2	7,080
Total	4,190	3,730	11,300,000	22,500	18,900	50,700,000
Medium carbon, 1%-2% C:						
China	3,480	2,790	3,900,000	4,300	3,430	6,140,000
India	331	263	652,000	462	368	938,000
Korea, Republic of	4,240	3,340	10,000,000	8,640	6,860	18,500,000
Mexico	59	46	171,000	4,300	3,440	7,950,000
Netherlands	--	--	--	48	38	118,000
Norway	--	--	--	9,850	7,950	17,200,000
Russia	--	--	--	18	14	46,300
South Africa	3,570	2,850	7,260,000	10,700	8,500	19,200,000
Spain	99	80	146,000	99	80	146,000
Total	11,800	9,380	22,200,000	38,400	30,700	70,200,000
Medium carbon, 2%-4% C:						
China	20	11	36,000	20	11	36,000
South Africa	18	17	47,900	72	66	185,000
Total	38	28	83,900	92	77	221,000
High carbon:						
Australia	--	--	--	501	388	648,000
Bahrain	300	229	360,000	300	229	360,000
Brazil	--	--	--	1,100	829	1,340,000
France	--	--	--	4,730	3,630	5,150,000
Kazakhstan	--	--	--	1,450	1,100	1,620,000
Mexico	3	2	4,490	5	4	6,940
Norway	--	--	--	704	565	746,000
Russia	--	--	--	20	14	17,700
South Africa	5,810	4,490	7,390,000	37,800	29,200	44,300,000
Ukraine	--	--	--	8,200	6,370	8,990,000
Zambia	499	352	539,000	994	698	1,030,000
Total	6,610	5,080	8,300,000	55,800	43,000	64,200,000
Grand total	22,600	18,200	41,800,000	117,000	92,700	185,000,000

-- 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 MAY 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:						
Gabon	8,020	3,570	\$399,000	8,020	3,570	\$399,000
Mexico	1,470	528	345,000	1,470	528	345,000
South Africa	--	--	--	44,300	17,700	7,250,000
Total	9,480	4,090	743,000	53,800	21,800	7,990,000
47% or more manganese:						
Australia	16,700	8,270	5,380,000	69,600	56,900	20,100,000
Brazil	--	--	--	3,960	2,020	1,230,000
China	132	90	119,000	132	90	119,000
Gabon	35,700	18,400	11,100,000	70,700	36,100	16,300,000
Georgia	--	--	--	12,400	8,610	13,000,000
Morocco	--	--	--	853	430	41,300
South Africa	--	--	--	18,000	9,850	6,010,000
Total	52,600	26,700	16,600,000	176,000	114,000	56,800,000
Grand total	62,000	30,800	17,300,000	229,000	136,000	64,800,000

-- 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 MAY 2010¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Belgium	--	--	38	\$156,000
Brazil	1	\$2,240	1	2,240
Germany	--	--	38	67,800
India	(3)	3,970	(3)	3,970
Japan	665	1,450,000	2,510	5,440,000
Morocco	45	28,800	45	28,800
Netherlands	3	4,030	126	71,400
Singapore	11	18,200	64	109,000
South Africa	867	2,410,000	5,690	15,400,000
Spain	--	--	24	48,600
Total	1,590	3,920,000	8,540	21,300,000

-- 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.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN MAY 2010¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,280	\$2,790,000	6,280	\$15,900,000
Hong Kong	--	--	444	1,150,000
South Africa	133	408,000	628	1,840,000
Vietnam	--	--	940	2,530,000
Total	1,420	3,200,000	8,290	21,400,000
Unwrought powder:				
China	60	175,000	140	373,000
Mexico	--	--	20	79,800
South Africa	279	951,000	1,200	4,030,000
Total	339	1,130,000	1,360	4,480,000
Unwrought, other:				
China	1,290	3,290,000	4,510	10,400,000
Germany	118	371,000	363	1,060,000
Hong Kong	--	--	132	339,000
Poland	--	--	(3)	3,010
South Africa	95	322,000	419	1,370,000
Spain	--	--	9	22,700
United Kingdom	18	63,200	75	252,000
Total	1,520	4,050,000	5,510	13,500,000
Other manganese, wrought:				
Canada	--	--	(3)	7,110
China	5	13,300	45	136,000
France	--	--	8	31,600
Mexico	67	377,000	79	425,000
Poland	(3)	4,900	(3)	4,900
South Africa	--	--	40	124,000
United Kingdom	--	--	8	30,700
Total	72	396,000	181	759,000
Grand total	3,340	8,770,000	15,300	40,200,000

-- 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: There were no imports for consumption of metallic waste and scrap in May 2010; the year-to-date total remains at 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 MAY 2010¹

(Metric tons, gross weight)

Country	Ferromanganese,											
	Manganese ore		2% or less C				More than 2% C		Silicomanganese		Manganese metal ²	
	May	Year to date	May	Year to date	May	Year to date	May	Year to date	May	Year to date		
Australia	--	--	--	--	--	--	--	1	--	22		
Belgium	39	74	--	--	--	--	--	240	--	192		
Brazil	--	--	--	--	--	25	--	--	--	--		
Canada	1,100	3,080	--	192	403	2,750	14	851	7	58		
China	34	34	--	--	--	--	--	--	83	463		
Colombia	--	1	--	--	--	--	--	--	--	--		
Germany	--	58	--	--	--	--	--	--	--	59		
Hong Kong	--	--	--	--	--	--	--	--	83	471		
India	--	--	--	--	--	--	--	--	--	164		
Indonesia	--	--	--	--	1	1	--	--	--	38		
Ireland	--	--	--	--	2	19	--	--	--	--		
Japan	--	--	--	--	--	--	--	--	27	110		
Korea, Republic of	--	102	--	--	--	--	--	--	--	--		
Luxembourg	--	--	--	--	--	--	--	--	--	3		
Malaysia	7	102	--	--	--	--	--	--	--	1		
Mexico	2	2	--	19	--	20	677	1,150	5	32		
Norway	--	--	--	--	--	3	--	19	--	--		
Singapore	--	--	--	--	--	9	--	--	--	--		
Spain	--	8	--	--	--	--	--	60	--	--		
Suriname	--	--	--	--	--	--	--	--	(3)	1		
Taiwan	548	548	--	--	--	--	--	--	13	13		
Trinidad and Tobago	4	4	--	--	--	--	--	279	--	--		
Turkey	--	--	--	--	--	--	--	420	--	--		
United Kingdom	--	--	--	--	--	--	--	--	--	1		
Venezuela	--	--	--	--	--	1	--	--	--	--		
Vietnam	--	--	--	--	--	--	--	--	20	217		
Total	1,730	4,010	--	211	406	2,830	690	3,020	237	1,850		

-- 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.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN MAY 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	790	\$587	Brazil 369; \$206	4,010	\$3,090	South Africa 1,550; \$859
Manganites, manganates, and other permanganates	17	62	Germany 17; \$62	17	62	Germany 17; \$62
Potassium permanganate	150	446	India 108; \$323	556	1,720	India 342; \$1,070
Sodium permanganate	36	72	China 36; \$72	252	563	China 252; \$563
Sulfates, basket category, including manganese sulfate	4,320	3,440	China 2,290; \$1,600	17,800	14,900	Mexico 9,420; \$7,790
Exports:						
Manganese dioxide	549	1,120	Canada 294; \$314	3,370	4,920	Canada 1,760; \$1,710
Manganese oxides other than dioxide	870	1,530	Canada 223; \$287	3,330	5,400	Canada 1,050; \$1,020
Manganites, manganates, and other permanganates	7	18	Canada 7; \$18	25	134	Canada 24; \$61
Potassium permanganate	239	696	Belgium 121; \$307	1,130	3,320	Belgium 602; \$1,540
Sodium permanganate	85	168	Singapore 36; \$54	502	1,150	Singapore 208; \$514
Sulfates, basket category, including manganese sulfate	1,170	1,130	Canada 875; \$772	7,710	6,190	Canada 6,010; \$3,610

-- 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.