

Mineral Industry Surveys

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MANGANESE IN JULY 2010

Preliminary reported data (gross weight) for July 2010 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 36,700 metric tons (t), according to the U.S. Geological Survey. This was a slight increase from the amount consumed in June 2010. The amount of manganese ore consumed in the first 7 months of 2010 was 261,000 t. This was a 5% increase from the revised amount consumed during the same period in 2009 (248,000 t). Industry stocks of ore at the end of July 2010 were 181,000 t, which was a slight decrease from that at the end of June 2010.

Data for U.S. manganese imports and exports for June 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 65% lower and 46% higher, respectively, than those in May 2010. U.S. imports of

manganese ore plus dioxide and manganese ferroalloys plus metal during the first 6 months of 2010 were 22% higher and 165% 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 June 2010 were 94% lower and 13% higher, respectively, than those in May 2010. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 6 months of 2010 were 37% lower and 63% lower, respectively, than those during the same period in 2009 (table 1).

Prices

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

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	1,320.00-1,365.00	1,337.50
Medium-carbon ferromanganese ³	122.00-132.00	128.00
Silicomanganese ³	62.50-65.00	63.75

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	150.00-158.00	150.33-152.83-155.33
36%-39% Manganese ore ⁵	6.00-7.50	6.89-7.06-7.22
44% Manganese ore ⁵	7.10-8.60	7.17-7.65-8.13
48% Manganese ore ⁵	7.90-8.90	7.99-8.17-8.36

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:						
June	61,300	8,970	70,300	526	5,360	5,890
January-June	125,000	87,500	212,000	3,290	19,900	23,200
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
June	11,100	49,400	60,500	54	1,140	1,200
Total	152,000	232,000	384,000	2,060	7,390	9,450

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 JUNE 2010¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	4,510	2,950	\$5,520,000	19,700	13,100	\$20,800,000
Bahrain	--	--	--	1,140	760	1,480,000
Canada	--	--	--	14	5	11,400
Georgia	12,900	9,310	15,400,000	18,800	13,400	22,000,000
India	--	--	--	364	201	640,000
Mexico	2,000	1,320	2,470,000	6,800	4,480	7,760,000
Norway	5,100	3,500	7,000,000	24,500	15,300	37,500,000
Russia	--	--	--	544	358	515,000
Saudi Arabia	--	--	--	2,050	1,350	2,260,000
South Africa	6,600	4,320	9,140,000	68,100	45,600	78,800,000
Spain	897	547	1,710,000	2,490	1,500	4,520,000
Vietnam	40	26	60,100	40	26	60,100
Total	32,100	22,000	41,300,000	145,000	96,100	176,000,000

-- 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 JUNE 2010¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	2,590	2,270	\$6,800,000	15,400	13,400	\$38,500,000
Korea, Republic of	--	--	--	1,700	1,360	3,570,000
Mexico	900	726	2,060,000	6,550	5,270	13,100,000
Netherlands	--	--	--	220	178	429,000
Norway	540	436	1,250,000	2,660	2,170	5,310,000
South Africa	--	--	--	3	2	7,080
Vietnam	57	54	112,000	57	54	112,000
Total	4,090	3,490	10,200,000	26,600	22,400	60,900,000
Medium carbon, 1%-2% C:						
China	2,810	2,240	6,010,000	7,110	5,670	12,100,000
India	200	158	426,000	662	526	1,360,000
Korea, Republic of	499	399	1,250,000	9,140	7,250	19,700,000
Mexico	2,520	1,940	5,370,000	6,810	5,370	13,300,000
Netherlands	--	--	--	48	38	118,000
Norway	4,100	3,320	8,570,000	14,000	11,300	25,700,000
Russia	--	--	--	18	14	46,300
South Africa	1,270	1,020	2,980,000	11,900	9,520	22,200,000
Spain	--	--	--	99	80	146,000
Total	11,400	9,070	24,600,000	49,800	39,700	94,800,000
Medium carbon, 2%-4% C:						
China	--	--	--	20	11	36,000
South Africa	--	--	--	72	66	185,000
Switzerland	50	39	49,100	50	39	49,100
Total	50	39	49,100	142	116	270,000
High carbon:						
Australia	--	--	--	501	388	648,000
Bahrain	--	--	--	300	229	360,000
Brazil	--	--	--	1,100	829	1,340,000
France	3,000	2,060	4,020,000	7,730	5,690	9,170,000
Kazakhstan	--	--	--	1,450	1,100	1,620,000
Mexico	--	--	--	5	4	6,940
Norway	--	--	--	704	565	746,000
Russia	629	459	641,000	649	473	659,000
South Africa	6,860	5,330	10,200,000	44,600	34,500	54,500,000
Ukraine	3,930	3,090	4,540,000	12,100	9,470	13,500,000
Venezuela	1,000	750	1,450,000	1,000	750	1,450,000
Zambia	--	--	--	994	698	1,030,000
Total	15,400	11,700	20,900,000	71,200	54,700	85,000,000
Grand total	30,900	24,300	55,700,000	148,000	117,000	241,000,000

-- 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 JUNE 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
Ghana	36,600	10,300	\$5,080,000	36,600	10,300	5,080,000
Mexico	--	--	--	1,470	528	345,000
South Africa	--	--	--	44,300	17,700	7,250,000
Total	36,600	10,300	5,080,000	90,500	32,100	13,100,000
47% or more manganese:						
Australia	--	--	--	69,600	56,900	20,100,000
Brazil	--	--	--	3,960	2,020	1,230,000
China	133	91	120,000	265	181	239,000
Gabon	--	--	--	70,700	36,100	16,300,000
Georgia	--	--	--	12,400	8,610	13,000,000
Morocco	501	240	28,800	1,360	670	70,100
South Africa	--	--	--	18,000	9,850	6,010,000
Total	634	331	149,000	176,000	114,000	57,000,000
Grand total	37,300	10,600	5,230,000	267,000	146,000	70,000,000

-- 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 JUNE 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
Germany	--	--	38	67,800
India	--	--	(3)	3,970
Japan	828	\$1,800,000	3,340	7,240,000
Morocco	--	--	45	28,800
Netherlands	--	--	126	71,400
Singapore	11	19,400	76	129,000
South Africa	--	--	5,690	15,400,000
Spain	--	--	24	48,600
Total	840	1,820,000	9,380	23,100,000

-- 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.

³Less than ½ unit.

Source: U.S. Census Bureau.

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

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,700	\$4,020,000	7,980	\$19,900,000
Hong Kong	--	--	444	1,150,000
South Africa	38	120,000	666	1,960,000
Vietnam	167	153,000	1,110	2,690,000
Total	1,900	4,300,000	10,200	25,700,000
Unwrought powder:				
China	20	59,900	160	433,000
Mexico	--	--	20	79,800
South Africa	39	138,000	1,240	4,170,000
Total	59	198,000	1,420	4,680,000
Unwrought, other:				
China	953	2,320,000	5,460	12,800,000
Germany	84	267,000	447	1,330,000
Hong Kong	--	--	132	339,000
Poland	--	--	(3)	3,010
South Africa	19	64,600	438	1,440,000
Spain	--	--	9	22,700
United Kingdom	18	63,500	93	316,000
Total	1,070	2,720,000	6,580	16,200,000
Other manganese, wrought:				
Canada	--	--	(3)	7,110
China	--	--	45	136,000
France	4	3860	12	35,400
Mexico	65	376,000	145	801,000
Poland	--	--	(3)	4,900
South Africa	--	--	40	124,000
United Kingdom	--	--	8	30,700
Total	69	380,000	250	1,140,000
Grand total	3,110	7,590,000	18,400	47,800,000

-- 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 137 metric tons, all of which was from Canada, to give a year-to-date total of 446 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 JUNE 2010¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese,				Silicomanganese		Manganese metal ²	
	June	Year to date	2% or less C		More than 2% C		June	Year to date	June	Year to date
			June	Year to date	June	Year to date				
Australia	--	--	--	--	--	--	--	1	--	22
Belgium	38	113	--	--	--	--	--	240	--	192
Brazil	--	--	189	189	--	25	--	--	--	--
Canada	19	3,100	37	229	679	3,430	19	870	10	68
China	--	34	--	--	--	--	--	--	80	542
Colombia	--	1	--	--	--	--	--	--	--	--
Germany	17	75	--	--	--	--	--	--	--	59
Hong Kong	--	--	--	--	--	--	--	--	141	613
India	--	--	--	--	--	--	--	--	21	184
Indonesia	--	--	--	--	--	1	--	--	--	38
Ireland	--	--	--	--	--	19	--	--	--	--
Japan	--	--	--	--	--	--	--	--	18	128
Korea, Republic of	34	136	--	--	--	--	--	--	--	--
Luxembourg	--	--	--	--	--	--	--	--	--	3
Malaysia	--	102	--	--	--	--	--	--	--	1
Mexico	--	2	--	19	--	20	199	1,350	14	46
Norway	--	--	--	--	--	3	--	19	--	--
Singapore	--	--	--	--	--	9	--	--	--	--
Spain	--	8	--	--	--	--	--	60	--	--
Suriname	--	--	--	--	--	--	--	--	--	1
Taiwan	--	548	--	--	--	--	--	--	--	13
Trinidad and Tobago	--	4	--	--	--	--	--	279	--	--
Turkey	--	--	--	--	--	--	--	420	--	--
United Kingdom	--	--	--	--	--	--	--	--	--	1
Venezuela	--	--	--	--	--	1	--	--	--	--
Vietnam	--	--	--	--	--	--	--	--	--	217
Total	108	4,120	226	437	679	3,510	218	3,240	284	2,130

-- 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 JUNE 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	860	\$781	Brazil 436; \$337	4,870	\$3,870	South Africa 1,770; \$1,070
Manganites, manganates, and other permanganates	--	--	--	17	62	Germany 17; \$62
Potassium permanganate	78	235	Czech Republic 42; \$124	634	1,960	India 378; \$1,180
Sodium permanganate	41	98	China 40; \$89	292	661	China 290; \$646
Sulfates, basket category, including manganese sulfate	4,941	4,991	China 2,380; \$1,760	22,700	19,900	Mexico 11,000; \$9,240
Exports:						
Manganese dioxide	956	1,288	Canada 265; \$291	4,320	6,210	Canada 2,020; \$2,000
Manganese oxides other than dioxide	613	949	Canada 188; \$170	3,940	6,350	Canada 1,230; \$1,190
Manganites, manganates, and other permanganates	16	42	Canada 16; \$42	41	178	Canada 40; \$103
Potassium permanganate	427	1,134	Belgium 350; \$892	1,560	4,450	Belgium 952; \$2,440
Sodium permanganate	117	313	Belgium 38; \$92	619	1,460	Singapore 243; \$610
Sulfates, basket category, including manganese sulfate	1,274	1,182	Canada 972; \$658	8,990	7,380	Canada 6,990; \$4,270

-- 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.