

Mineral Industry Surveys

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MANGANESE IN AUGUST 2010

Preliminary reported data (gross weight) for August 2010 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 36,600 metric tons (t), according to the U.S. Geological Survey. This was about the same as the amount consumed in July 2010. The amount of manganese ore consumed in the first 8 months of 2010 was 298,000 t. This was a 5% increase from the revised amount consumed during the same period in 2009 (283,000 t). Industry stocks of ore at the end of August 2010 were 181,000 t, which was the same as that at the end of July 2010.

Data for U.S. manganese imports and exports for July 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 143% higher and 20% higher, respectively, than those in June 2010. U.S. imports of

manganese ore plus dioxide and manganese ferroalloys plus metal during the first 7 months of 2010 were 42% higher and 181% 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 July 2010 were 81 times greater and 48% lower, respectively, than those in June 2010. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 7 months of 2010 were 38% higher and 67% lower, respectively, than those during the same period in 2009 (table 1).

Prices

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

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	1,320.00-1,350.00	1,336.88
Medium-carbon ferromanganese ³	120.00-130.00	124.25
Silicomanganese ³	58.50-65.00	62.19

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	153.00-158.00	153.00-155.50-158.00
36%-39% Manganese ore ⁵	6.00-6.40	6.00-6.21-6.42
44% Manganese ore ⁵	6.80-7.20	6.80-6.99-7.18
48% Manganese ore ⁵	7.20-7.50	7.20-7.35-7.50

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:						
July	1,220	16,000	17,200	1,400	4,050	5,440
January-July	126,000	104,000	229,000	4,690	24,000	28,600
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
July	26,900	59,300	86,200	4,390	591	4,980
Total	179,000	291,000	470,000	6,450	7,980	14,400

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 JULY 2010¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	4,410	2,900	\$5,020,000	24,100	16,000	\$25,800,000
Bahrain	--	--	--	1,140	760	1,480,000
Canada	--	--	--	14	5	11,400
Georgia	10,400	6,950	13,100,000	29,200	20,300	35,100,000
India	--	--	--	364	201	640,000
Macedonia	986	657	1,310,000	986	657	1,310,000
Mexico	1,530	999	1,890,000	8,330	5,480	9,650,000
Norway	4,900	3,090	8,720,000	29,400	18,400	46,200,000
Russia	1	1	2,350	545	359	517,000
Saudi Arabia	486	318	729,000	2,540	1,670	2,990,000
South Africa	13,300	8,780	17,800,000	81,400	54,400	96,600,000
Spain	--	--	--	2,490	1,500	4,520,000
Vietnam	--	--	--	40	26	60,100
Total	35,900	23,700	48,600,000	180,000	120,000	225,000,000

-- 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 JULY 2010¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	2,300	1,990	\$5,900,000	17,700	15,400	\$44,400,000
Korea, Republic of	1,300	1,060	3,190,000	3,000	2,420	6,760,000
Mexico	900	732	2,060,000	7,450	6,000	15,100,000
Netherlands	--	--	--	220	178	429,000
Norway	300	241	707,000	2,960	2,410	6,020,000
South Africa	20	19	62,700	23	21	69,800
Vietnam	--	--	--	57	54	112,000
Total	4,820	4,040	11,900,000	31,400	26,400	72,900,000
Medium carbon, 1%-2% C:						
China	--	--	--	7,110	5,670	12,100,000
India	195	156	429,000	857	682	1,790,000
Korea, Republic of	3,300	2,670	7,430,000	12,400	9,920	27,100,000
Mexico	777	614	1,740,000	7,590	5,990	15,100,000
Netherlands	--	--	--	48	39	118,000
Norway	1,300	1,050	2,820,000	15,300	12,300	28,600,000
Russia	--	--	--	18	14	46,300
South Africa	5,890	4,730	10,400,000	17,800	14,200	32,600,000
Spain	--	--	--	99	80	146,000
Total	11,500	9,210	22,800,000	61,200	48,900	118,000,000
Medium carbon, 2%-4% C:						
Brazil	1	1	2,780	1	1	2,780
China	--	--	--	20	11	36,000
South Africa	18	16	45,200	90	82	230,000
Switzerland	--	--	--	50	39	49,100
Total	19	17	47,900	161	133	318,000
High carbon:						
Australia	2,400	1,860	2,410,000	2,900	2,250	3,050,000
Bahrain	--	--	--	300	229	360,000
Brazil	--	--	--	1,100	829	1,340,000
France	--	--	--	7,730	5,690	9,170,000
Kazakhstan	--	--	--	1,450	1,100	1,620,000
Mexico	2	2	4,540	7	5	11,500
Norway	--	--	--	704	565	746,000
Russia	--	--	--	649	473	659,000
South Africa	15,800	12,200	19,200,000	60,400	46,700	73,700,000
Ukraine	4,990	3,900	5,640,000	17,100	13,400	19,200,000
Venezuela	--	--	--	1,000	750	1,450,000
Zambia	--	--	--	994	698	1,030,000
Total	23,200	17,900	27,300,000	94,400	72,600	112,000,000
Grand total	39,500	31,200	62,100,000	187,000	148,000	303,000,000

-- 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 JULY 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
Mexico	--	--	--	1,470	528	345,000
South Africa	--	--	--	44,300	17,700	7,250,000
Total	--	--	--	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	--	--	--	265	181	239,000
Gabon	48,100	24,700	\$14,300,000	119,000	60,900	30,700,000
Georgia	--	--	--	12,400	8,610	13,000,000
Morocco	--	--	--	1,360	670	70,100
South Africa	--	--	--	18,000	9,850	6,010,000
Total	48,100	24,700	14,300,000	224,000	139,000	71,300,000
Grand total	48,100	24,700	14,300,000	315,000	171,000	84,400,000

-- 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 JULY 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
China	40	\$16,000	40	16,000
Germany	--	--	38	67,800
India	--	--	(3)	3,970
Japan	607	1,290,000	3,950	8,530,000
Mexico	2	4,000	2	4,000
Morocco	--	--	45	28,800
Netherlands	120	73,400	246	145,000
Singapore	--	--	76	129,000
South Africa	2,740	7,590,000	8,430	23,000,000
Spain	190	376,000	214	424,000
Total	3,700	9,350,000	13,100	32,500,000

-- 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 JULY 2010¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,830	\$3,860,000	9,800	\$23,800,000
Hong Kong	--	--	444	1,150,000
South Africa	248	823,000	914	2,780,000
Vietnam	--	--	1,110	2,690,000
Total	2,070	4,690,000	12,300	30,400,000
Unwrought powder:				
China	--	--	160	433,000
Mexico	--	--	20	79,800
South Africa	340	1,160,000	1,580	5,330,000
Total	340	1,160,000	1,760	5,840,000
Unwrought, other:				
China	1,630	4,050,000	7,090	16,800,000
Germany	44	139,000	491	1,470,000
Hong Kong	--	--	132	339,000
Poland	--	--	(3)	3,010
South Africa	171	585,000	610	2,020,000
Spain	--	--	9	22,700
United Kingdom	--	--	93	316,000
Total	1,840	4,780,000	8,420	21,000,000
Other manganese, wrought:				
Canada	--	--	(3)	7,110
China	--	--	45	136,000
France	--	--	12	35,400
Mexico	60	363,000	205	1,160,000
Poland	--	--	(3)	4,900
South Africa	--	--	40	124,000
United Kingdom	--	--	8	30,700
Total	60	363,000	310	1,500,000
Grand total	4,320	11,000,000	22,800	58,700,000

-- 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 61 metric tons (t), of which 58 t was from Canada and 3 t was from Mexico; to give a year-to-date total of 507 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 JULY 2010¹

(Metric tons, gross weight)

Country	Ferromanganese,											
	Manganese ore		2% or less C				More than 2% C		Silicomanganese		Manganese metal ²	
	July	Year to date	July	Year to date	July	Year to date	July	Year to date	July	Year to date		
Australia	--	--	--	--	--	--	--	1	--	22		
Belgium	24	136	--	--	--	--	--	240	--	192		
Brazil	--	--	--	189	--	25	--	--	--	--		
Canada	12	3,110	59	288	367	3,800	20	890	1	70		
China	8,700	8,730	--	--	--	--	--	--	69	611		
Colombia	--	1	--	--	--	--	--	--	--	--		
Denmark	--	--	--	--	2	2	--	--	--	--		
Germany	--	75	--	--	--	--	--	--	(3)	59		
Hong Kong	--	--	--	--	--	--	--	--	63	676		
India	--	--	--	--	--	--	--	--	20	204		
Indonesia	--	--	--	--	--	1	--	--	--	38		
Ireland	--	--	--	--	--	19	--	--	--	--		
Japan	--	--	--	--	--	--	--	--	17	145		
Korea, Republic of	34	170	--	--	--	--	--	--	--	--		
Luxembourg	--	--	--	--	--	--	--	--	--	3		
Malaysia	--	102	--	--	--	--	--	--	--	1		
Mexico	--	2	--	19	--	20	87	1,440	10	56		
Norway	--	--	--	--	--	3	--	19	--	--		
Singapore	--	--	--	--	--	9	--	--	--	--		
Spain	--	8	--	--	--	--	--	60	--	--		
Suriname	--	--	--	--	--	--	--	--	--	1		
Taiwan	13	560	--	--	--	--	--	--	2	15		
Trinidad and Tobago	3	7	--	--	--	--	--	279	--	--		
Turkey	--	--	--	--	--	--	--	420	--	--		
United Kingdom	--	--	--	--	--	--	--	--	--	1		
Venezuela	--	--	--	--	--	1	--	--	--	--		
Vietnam	--	--	--	--	--	--	--	--	--	217		
Total	8,790	12,900	59	496	369	3,880	107	3,350	182	2,310		

-- 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 JULY 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	302	\$338	Mexico 205; \$206	5,180	\$4,210	South Africa 1,790; \$1,100
Manganites, manganates, and other permanganates	--	--	--	17	62	Germany 17; \$62
Potassium permanganate	80	235	Czech Republic 44; \$129	713	2,190	India 414; \$1,290
Sodium permanganate	--	--	--	292	661	China 290; \$646
Sulfates, basket category, including manganese sulfate	2,230	2,060	China 1,060; \$913	24,900	22,000	Mexico 11,700; \$9,778
Exports:						
Manganese dioxide	800	1,400	Canada 328; \$381	5,120	7,610	Canada 2,350; \$2,390
Manganese oxides other than dioxide	827	1,370	Canada 336; \$261	4,770	7,710	Canada 1,570; \$1,450
Manganites, manganates, and other permanganates	14	35	Canada 14; \$35	56	213	Canada 55; \$138
Potassium permanganate	154	455	Belgium 84; \$208	1,710	4,910	Belgium 1,040; \$2,640
Sodium permanganate	106	272	Belgium 24; \$60	725	1,730	Singapore 263; \$668
Sulfates, basket category, including manganese sulfate	1,560	1,400	Canada 1,180; \$688	10,500	8,780	Canada 8,170; \$4,950

-- 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.