

Mineral Industry Surveys

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MANGANESE IN JULY 2011

Preliminary manganese ore consumption and ending stocks data for July 2011 will be published in a future issue of this report.

Data for U.S. manganese imports and exports for June 2011 are published in this issue. On a contained-weight basis, U.S. manganese ore plus dioxide and manganese ferroalloys plus metal imports for June 2011 were 27% higher and 35% higher, respectively, than those in May 2011. U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal during the first 6 months of 2011 were 9% lower and 26% higher, respectively, than those during the same period in 2010 (table 1).

On a contained-weight basis, U.S. manganese ore and manganese ferroalloys plus metal exports for June 2011 were 79% higher and 71% lower, respectively, than those in May 2011. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 6 months of 2011 were 85% lower and slightly higher, respectively, than those during the same period in 2010 (table 1).

Prices

Prices for manganese materials in July 2011, 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	1,332.50
Medium-carbon ferromanganese ³	105.00–109.00	107.00
Silicomanganese ³	61.00–63.00	62.25

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	180.00–182.00	180.00–181.00–182.00
36%-39% Manganese ore ⁵	4.50–5.10	4.59–4.84–5.10
44% Manganese ore ⁵	5.15–5.50	5.15–5.33–5.50
48% Manganese ore ⁵	5.90–6.10	5.90–6.00–6.10

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
2010:						
June	11,100	49,400	60,500	54	1,140	1,200
January–June	152,000	232,000	384,000	2,060	7,390	9,450
2011:						
January	28,900	44,500	73,400	36	1,080	1,120
February	9,160	30,400	39,600	46	1,240	1,290
March	50,900	68,900	120,000	73	1,740	1,810
April	1,720	27,800	29,500	61	1,150	1,210
May	21,100	51,000	72,100	33	1,800	1,830
June	26,800	68,700	95,500	59	519	578
Total	139,000	291,000	430,000	309	7,530	7,830

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 JUNE 2011¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–June		
				Gross weight	Mn content	Customs value ²
Australia	11,200	7,410	\$12,200,000	30,400	20,200	\$30,900,000
Canada	--	--	--	40	14	17,200
Georgia	17,500	12,800	20,600,000	68,800	47,400	84,800,000
Greece	--	--	--	20	15	45,100
India	104	58	164,000	494	275	779,000
Korea, Republic of	--	--	--	300	174	600,000
Mexico	1,000	655	1,090,000	6,180	4,050	6,850,000
Norway	3,000	1,880	5,140,000	15,400	9,590	27,100,000
Romania	3,680	2,420	3,680,000	3,680	2,420	3,680,000
South Africa	9,840	6,540	11,100,000	70,600	46,600	79,600,000
Spain	--	--	--	1,610	990	3,240,000
Total	46,300	31,800	54,000,000	198,000	132,000	238,000,000

-- 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 2011¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–June		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	2,940	2,570	\$7,990,000	10,400	9,160	\$28,500,000
Mexico	519	418	1,050,000	5,160	4,180	10,100,000
Norway	106	85	211,000	2,170	1,750	4,300,000
Vietnam	--	--	--	934	876	2,860,000
Total	3,560	3,080	9,250,000	18,700	16,000	45,700,000
Medium carbon, 1%–2% C:						
China	--	--	--	194	167	430,000
Korea, Republic of	4,500	3,600	7,520,000	17,500	14,000	32,000,000
Mexico	834	667	1,530,000	5,020	4,020	9,700,000
Norway	--	--	--	6,720	5,430	11,900,000
South Africa	786	625	1,240,000	12,200	9,800	21,200,000
Ukraine	--	--	--	392	342	783,000
Total	6,120	4,890	10,300,000	42,000	33,800	76,100,000
Medium carbon, 2%–4% C, South Africa	--	--	--	270	232	650,000
High carbon:						
Australia	--	--	--	3,510	2,720	3,570,000
Bahrain	--	--	--	180	142	205,000
Korea, Republic of	--	--	--	1,430	1,070	1,620,000
Norway	--	--	--	3,920	3,080	4,270,000
South Africa	16,900	13,000	19,200,000	93,800	72,300	106,000,000
Ukraine	13,000	10,200	14,300,000	13,200	10,400	14,800,000
Total	29,900	23,200	33,400,000	116,000	89,600	131,000,000
Grand total	39,600	31,200	53,000,000	177,000	140,000	253,000,000

-- 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 2011^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–June		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Australia	--	--	--	16,200	6,750	\$3,110,000
Brazil	--	--	--	3,210	1,480	1,140,000
Gabon	--	--	--	14,600	6,480	2,540,000
Mexico	--	--	--	2,980	1,080	701,000
Netherlands	--	--	--	86	18	17,200
South Africa	--	--	--	13,000	5,520	6,680,000
Turkey	--	--	--	548	192	182,000
Total	--	--	--	50,600	21,500	14,400,000
47% or more manganese:						
Australia	--	--	--	58,700	28,600	15,300,000
Brazil	3,050	1,560	\$965,000	3,100	1,590	1,050,000
Gabon	47,400	24,200	13,900,000	153,000	79,000	46,700,000
Morocco	588	294	35,300	746	356	176,000
Netherlands	--	--	--	446	223	26,700
Total	51,000	26,000	14,900,000	216,000	110,000	63,300,000
Grand total	51,000	26,000	14,900,000	266,000	131,000	77,700,000

-- 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 2011¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–June	
			Quantity	Customs value ²
Belgium	98	\$59,800	466	\$528,000
Brazil	--	--	35	39,900
Colombia	--	--	600	1,150,000
Germany	--	--	29	48,900
India	--	--	(3)	6,030
Japan	461	1,070,000	4,810	11,000,000
Mexico	118	110,000	297	275,000
Netherlands	--	--	101	61,500
Singapore	11	19,400	91	116,000
South Africa	663	2,020,000	5,780	17,500,000
Turkey	--	--	71	38,500
Total	1,350	3,280,000	12,300	30,700,000

-- 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 2011¹

(Metric tons)

Source	Gross weight	Customs value ²	January-June	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,890	\$5,150,000	7,110	\$20,100,000
Japan	--	--	20	27,400
Mexico	--	--	91	395,000
South Africa	289	1,180,000	724	2,850,000
Total	2,180	6,330,000	7,950	23,400,000
Unwrought powder:				
China	--	--	61	177,000
Mexico	--	--	25	110,000
South Africa	458	1,820,000	1,990	7,660,000
United Kingdom	--	--	1	2,210
Total	458	1,820,000	2,080	7,950,000
Unwrought, other:				
China	2,790	8,700,000	8,680	27,700,000
Germany	24	90,900	178	669,000
Korea, Republic of	1	8,220	1	8,220
Netherlands	--	--	10	71,200
Poland	--	--	(3)	3,010
South Africa	95	366,000	553	2,020,000
Spain	37	124,000	37	124,000
Total	2,950	9,290,000	9,460	30,600,000
Other manganese, wrought:				
China	10	43,400	149	498,000
Japan	--	--	(3)	3,460
Mexico	--	--	26	106,000
United Kingdom	(3)	5,860	(3)	5,860
Vietnam	84	274,000	84	274,000
Total	94	323,000	260	887,000
Grand total	5,670	17,800,000	19,700	62,900,000

-- 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 161 metric tons (t), of which 147 t was from Canada and 14 t was from Mexico; to give a year-to-date total of 335 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 JUNE 2011¹

(Metric tons, gross weight)

Country	Ferromanganese,											
	Manganese ore		2% or less C				More than 2% C		Silicomanganese		Manganese metal ²	
	June	January-June	June	January-June	June	January-June	June	January-June	June	January-June		
Australia	--	--	--	--	--	53	--	--	--	--	3	
Bahamas, The	--	--	--	--	--	--	--	--	--	--	1	
Belgium	--	18	--	--	--	--	--	--	--	--	1	
Brazil	--	--	--	--	--	115	--	--	--	--	--	
Canada	--	226	21	380	59	785	338	4,550	48	557		
China	--	40	--	--	--	--	--	--	73	681		
Colombia	--	--	--	--	--	--	--	352	--	1		
Dominican Republic	--	--	--	--	--	(3)	--	--	--	--		
France	--	--	--	--	--	--	--	--	--	1		
Germany	--	--	--	--	--	34	--	--	--	22		
Guyana	--	--	--	--	--	--	--	--	--	3		
Hong Kong	90	90	--	--	--	--	--	--	8	11		
India	--	--	--	--	--	--	--	--	--	60		
Ireland	--	--	--	--	--	4	--	--	--	--		
Italy	--	--	--	--	--	--	--	--	--	7		
Japan	--	--	--	--	--	--	--	--	20	212		
Korea, Republic of	--	204	--	--	--	--	--	--	--	--		
Malaysia	--	--	--	--	--	2	--	--	--	--		
Mexico	27	40	70	1,250	--	--	15	433	--	30		
Norway	--	--	--	--	4	11	--	--	--	--		
Peru	--	--	--	--	--	100	--	--	--	--		
Philippines	--	--	--	--	--	--	7	7	--	--		
Romania	--	--	--	--	--	4	--	--	--	--		
Saint Lucia	--	--	--	--	--	--	--	--	--	15		
Singapore	--	--	--	--	--	28	--	--	--	--		
Spain	--	--	--	--	--	--	--	--	10	10		
Taiwan	--	--	--	--	--	--	--	--	--	164		
United Kingdom	--	--	--	--	--	--	--	--	--	10		
Venezuela	--	--	--	--	--	4	--	--	--	--		
Vietnam	--	--	--	--	--	--	--	--	--	19		
Total	117	618	91	1,630	63	1,140	360	5,340	159	1,810		

-- 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.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JUNE 2011, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January-June		
				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	94	\$122	Brazil 57; \$65	1,760	\$1,880	Mexico 534; \$506
Manganites, manganates, and other permanganates	--	--	--	17	65	Germany 17; \$65
Potassium permanganate	162	499	India 162; \$499	728	2,220	India 684; \$2,070
Sodium permanganate	36	77	China 32; \$69	251	625	China 247; \$604
Sulfates, basket category, including manganese sulfate	3,290	3,480	Mexico 1,830; \$1,470	21,800	20,900	Mexico 9,850; \$8,250
Exports:						
Manganese dioxide	1,170	2,250	Canada 401; \$408	4,540	7,610	Canada 2,390; \$2,370
Manganese oxides other than dioxide	790	1,630	Canada 278; \$380	3,700	7,990	Canada 948; \$1,150
Manganites, manganates, and other permanganates	11	30	Canada 11; \$30	89	408	Canada 64; \$172
Potassium permanganate	284	800	Belgium 200; \$486	1,740	4,860	Belgium 1,330; \$3,360
Sodium permanganate	144	321	Belgium 57; \$83	568	1,340	Belgium 187; \$327
Sulfates, basket category, including manganese sulfate	1,200	1,380	Canada 697; \$457	8,740	7,860	Canada 6,420; \$3,230

-- 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.