

Mineral Industry Surveys

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MANGANESE IN SEPTEMBER 2011

Preliminary domestic data (gross weight) for September 2011 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 48,000 metric tons (t). This was a 7% decrease from the amount consumed in August 2011 (51,600 t). Manganese ore consumption during the first 9 months of 2011 was 406,000 t, which included revisions to prior months' data. This was a 19% increase from that consumed during the same period in 2010. Industry stocks of ore at the end of September 2011 were 152,000 t, which was a slight increase from those at the end of August 2011 (150,000 t).

Update

Preliminary domestic consumption and ending stocks of manganese ore containing 35% or more manganese were as follows: June 2011, 49,900 t (consumption) and 161,000 t (ending stocks); and July 2011, 52,600 t (consumption) and 164,000 t (ending stocks). Data for U.S. manganese imports and exports for August 2011 are published in this issue.

Prices

Prices for manganese materials in September 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	1,335.00
Medium-carbon ferromanganese ³	106.00–110.00	107.50
Silicomanganese ³	59.00–62.00	60.63

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	182.00–192.00	183.56–185.89–188.22
36%-39% Manganese ore ⁵	4.50–5.10	4.50–4.80–5.10
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:						
August	2,570	52,100	54,700	95	3,120	3,210
January–August	182,000	343,000	525,000	6,550	11,100	17,600
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
July	11,500	57,400	69,000	82	669	750
August	25,500	50,600	76,100	65	902	967
Total	176,000	399,000	575,000	456	9,100	9,550

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 AUGUST 2011¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–August		
				Gross weight	Mn content	Customs value ²
Australia	1,910	1,260	\$1,900,000	37,200	24,800	\$37,700,000
Canada	--	--	--	40	14	17,200
Georgia	8,800	6,000	9,100,000	83,200	57,500	102,000,000
Greece	--	--	--	20	15	45,100
India	78	43	130,000	676	376	1,070,000
Korea, Republic of	--	--	--	300	174	600,000
Mexico	1,000	657	1,090,000	9,400	6,170	10,400,000
Norway	3,800	2,430	4,870,000	23,900	14,900	40,200,000
Romania	3,810	2,200	3,810,000	7,490	4,620	7,490,000
South Africa	8,180	5,440	9,530,000	95,800	63,300	108,000,000
Spain	--	--	--	3,260	1,980	6,610,000
Total	27,600	18,000	30,400,000	261,000	174,000	314,000,000

-- 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 AUGUST 2011¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–August		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	2,080	1,820	\$5,500,000	15,500	13,600	\$41,900,000
India	200	155	376,000	200	155	376,000
Korea, Republic of	102	92	334,000	222	200	727,000
Mexico	500	401	915,000	6,960	5,630	13,400,000
Norway	--	--	--	3,170	2,560	6,090,000
Vietnam	--	--	--	934	876	2,860,000
Total	2,880	2,470	7,130,000	27,000	23,000	65,300,000
Medium carbon, 1%–2% C:						
China	--	--	--	194	167	430,000
Korea, Republic of	4,500	3,640	7,650,000	26,500	21,300	47,700,000
Mexico	714	571	1,250,000	8,560	6,880	16,000,000
Norway	--	--	--	7,720	6,240	13,600,000
South Africa	4,680	3,720	7,770,000	18,200	14,600	31,100,000
Spain	--	--	--	40	32	122,000
Ukraine	--	--	--	392	342	783,000
Total	9,900	7,930	16,700,000	61,600	49,500	110,000,000
Medium carbon, 2%–4% C, South Africa	18	16	46,000	324	283	794,000
High carbon:						
Australia	4,800	3,730	4,680,000	9,030	6,990	8,950,000
Bahrain	--	--	--	180	142	205,000
France	2,600	1,770	3,110,000	2,600	1,770	3,110,000
Korea, Republic of	--	--	--	1,430	1,070	1,620,000
Norway	--	--	--	6,420	5,030	7,030,000
South Africa	8,710	6,670	9,440,000	123,000	94,500	138,000,000
Sweden	100	67	176,000	100	67	176,000
Ukraine	10,400	8,050	11,500,000	23,700	18,400	26,300,000
Total	26,600	20,300	28,900,000	166,000	128,000	186,000,000
Grand total	39,400	30,700	52,700,000	255,000	201,000	361,000,000

-- 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 AUGUST 2011^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–August		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Australia	--	--	--	16,200	6,750	\$3,110,000
Brazil	18	(4)	\$2,540	3,220	1,480	1,150,000
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	18	(4)	2,540	50,700	21,500	14,400,000
47% or more manganese:						
Australia	--	--	--	78,600	38,300	18,800,000
Brazil	--	--	--	3,100	1,590	1,050,000
Gabon	46,600	24,100	13,200,000	199,000	103,000	60,000,000
Morocco	78	41	70,600	824	397	247,000
Netherlands	--	--	--	446	223	26,700
South Africa	--	--	--	20	10	12,800
Total	46,700	24,200	13,300,000	282,000	144,000	80,100,000
Grand total	46,700	24,200	13,300,000	333,000	165,000	94,500,000

-- 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.

⁴Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN AUGUST 2011¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–August	
			Quantity	Customs value ²
Belgium	--	--	466	\$528,000
Brazil	--	--	54	60,200
Colombia	--	--	600	1,150,000
Germany	--	--	29	48,900
India	--	--	(3)	6,030
Japan	414	\$1,020,000	6,310	14,500,000
Mexico	138	128,000	615	572,000
Netherlands	--	--	101	61,500
Singapore	11	19,400	114	155,000
South Africa	1,680	4,140,000	9,220	26,300,000
Turkey	--	--	71	38,500
Total	2,240	5,300,000	17,600	43,400,000

-- 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.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN AUGUST 2011¹

(Metric tons)

Source	Gross weight	Customs value ²	January–August	
			Gross weight	Customs value ²
Unwrought flake:				
China	795	\$2,630,000	8,650	\$25,100,000
Japan	--	--	20	33,000
Mexico	--	--	91	395,000
South Africa	134	558,000	1,030	4,120,000
Total	929	3,180,000	9,790	29,700,000
Unwrought powder:				
China	--	--	121	408,000
Mexico	25	119,000	51	229,000
South Africa	85	341,000	2,330	9,020,000
United Kingdom	--	--	1	2,210
Total	110	460,000	2,510	9,660,000
Unwrought, other:				
China	538	1,770,000	10,800	34,500,000
Germany	11	38,600	214	799,000
Korea, Republic of	--	--	1	8,220
Netherlands	--	--	10	71,200
Poland	--	--	(3)	3,010
South Africa	114	434,000	781	2,890,000
Spain	--	--	112	453,000
Total	663	2,240,000	11,900	38,700,000
Other manganese, wrought:				
China	1	2,500	150	500,000
Germany	--	--	4	68,900
Japan	--	--	(3)	3,460
Mexico	(3)	2,390	26	109,000
United Kingdom	--	--	(3)	5,860
Vietnam	84	274,000	168	548,000
Total	85	279,000	348	1,230,000
Grand total	1,790	6,160,000	24,500	79,200,000

-- 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: Imports for consumption of metallic waste and scrap totaled 117 metric tons (t), all of which was from Canada, to give a year-to-date total of 456 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 AUGUST 2011¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese,				Silicomanganese		Manganese metal ²	
	August	January–August	2% or less C		More than 2% C		August	January–August	August	January–August
			August	January–August	August	January–August				
Australia	--	--	--	--	--	53	--	--	--	3
Bahamas, The	--	--	--	--	--	--	--	--	--	1
Bahrain	66	66	--	--	--	--	--	--	--	--
Belgium	--	18	169	289	--	--	--	--	--	--
Brazil	--	--	--	--	(3)	128	--	--	--	--
Canada	19	289	16	416	180	1,080	577	5,320	2	558
China	--	91	--	--	--	--	--	--	85	879
Colombia	--	--	--	--	--	--	--	352	--	1
Costa Rica	--	--	--	--	--	--	--	--	--	6
Dominican Republic	--	--	--	--	--	(3)	--	--	--	--
France	--	--	--	--	--	27	--	--	--	1
Germany	10	10	--	--	--	34	--	--	--	22
Guyana	--	--	--	--	--	--	--	--	--	3
Hong Kong	--	90	--	--	--	--	--	--	--	11
India	(3)	(3)	--	--	--	--	--	--	30	113
Ireland	--	--	--	--	--	4	--	--	--	--
Italy	--	--	--	--	--	--	--	--	--	7
Japan	--	--	--	--	--	--	--	--	43	345
Korea, Republic of	34	306	--	--	--	--	--	--	--	--
Malaysia	--	--	--	--	1	4	--	--	--	--
Mexico	1	42	--	1,250	--	--	--	455	8	44
Norway	--	--	--	--	1	14	--	--	--	--
Peru	--	--	--	--	--	100	--	--	--	--
Philippines	--	--	--	--	--	--	--	7	--	--
Romania	--	--	--	--	22	33	--	--	--	--
Saint Lucia	--	--	--	--	--	--	--	--	--	15
Singapore	--	--	--	--	4	34	--	--	--	--
Spain	--	--	--	--	--	--	--	--	--	10
Taiwan	--	--	--	--	--	--	--	--	43	250
United Kingdom	--	--	--	--	--	--	--	--	--	10
Venezuela	--	--	--	--	--	4	--	--	--	--
Vietnam	--	--	--	--	--	--	--	--	--	19
Total	131	913	185	1,960	208	1,510	577	6,140	210	2,300

-- 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 AUGUST 2011, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–August		
				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	79	\$132	Brazil 38; \$44	2,230	\$2,340	South Africa 638; \$620
Manganites, manganates, and other permanganates	--	--	--	17	65	Germany 17; \$65
Potassium permanganate	144	443	India 144; \$441	998	3,050	India 954; \$2,890
Sodium permanganate	40	97	China 40; \$97	385	954	China 380; \$929
Sulfates, basket category, including manganese sulfate	2,620	3,340	Mexico 1,170; \$1,070	27,300	26,800	Mexico 12,100; \$10,200
Exports:						
Manganese dioxide	804	1,860	Canada 331; \$319	6,140	10,900	Canada 3,100; \$3,030
Manganese oxides other than dioxide	588	1,150	Belgium 302; \$471	4,920	10,100	Canada 1,210; \$1,420
Manganites, manganates, and other permanganates	6	17	Canada 6; \$17	102	442	Canada 76; \$206
Potassium permanganate	326	889	Belgium 216; \$560	2,270	6,520	Belgium 1,620; \$4,110
Sodium permanganate	63	161	Belgium 37; \$65	693	1,650	Belgium 244; \$435
Sulfates, basket category, including manganese sulfate	1,110	1,100	Canada 855; \$589	10,900	10,000	Canada 8,140; \$4,360

-- 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.