

Mineral Industry Surveys

For information, contact:

Lisa A. Corathers, Manganese Commodity Specialist
 U.S. Geological Survey
 989 National Center
 Reston, VA 20192
 Telephone: (703) 648-4973, Fax: (703) 648-7757
 E-mail: lcorathers@usgs.gov

Connie Lopez (Data)
 Telephone: (703) 648-7995
 Fax: (703) 648-7975
 E-mail: connielopez@usgs.gov

Internet: <http://minerals.usgs.gov/minerals>

MANGANESE IN NOVEMBER 2010

Preliminary reported data (gross weight) for November 2010 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 40,300 metric tons (t), according to the U.S. Geological Survey. This was slightly more than the amount consumed in October 2010. The amount of manganese ore consumed in the first 11 months of 2010 was 421,000 t. This was an 8% increase from the revised amount consumed during the same period in 2009 (388,000 t). Industry stocks of ore at the end of November 2010 were 205,000 t, which was a slight increase from those at the end of October 2010.

Data for U.S. manganese imports and exports for October 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 8% higher and 12% higher, respectively, than those in September 2010. U.S. imports of

manganese ore plus dioxide and manganese ferroalloys plus metal during the first 10 months of 2010 were 67% higher and 178% 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 October 2010 were 9% lower and 4% higher, respectively, than those in September 2010. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 10 months of 2010 were 8% lower and 50% lower, respectively, than those during the same period in 2009 (table 1).

Prices

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

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	1,350.00-1,375.00	1,362.50
Medium-carbon ferromanganese ³	119.00-125.00	122.00
Silicomanganese ³	63.00-65.00	64.00

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	165.00-190.00	176.13-178.81-181.50
36%-39% Manganese ore ⁵	5.25-5.60	5.25-5.43-5.60
44% Manganese ore ⁵	5.90-6.20	5.90-6.05-6.20
48% Manganese ore ⁵	6.50-6.80	6.50-6.65-6.80

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:						
October	955	9,830	10,800	76	1,830	1,910
January-October	139,000	147,000	286,000	7,270	30,600	37,900
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
August	2,570	52,100	54,700	95	3,120	3,210
September	24,500	30,700	55,200	92	2,040	2,140
October	26,400	34,400	60,800	84	2,130	2,210
Total	232,000	408,000	641,000	6,730	15,300	22,000

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 OCTOBER 2010¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	1,440	949	\$1,430,000	27,000	18,000	\$28,800,000
Bahrain	--	--	--	1,140	760	1,480,000
Canada	38	26	33,300	52	31	44,700
China	--	--	--	35	23	54,100
Georgia	910	638	1,090,000	46,100	32,100	56,000,000
India	104	58	170,000	702	389	1,220,000
Macedonia	--	--	--	986	657	1,310,000
Mexico	1,040	679	1,290,000	10,400	6,850	12,200,000
Norway	2,080	1,310	3,480,000	36,300	22,700	58,100,000
Russia	--	--	--	2,050	1,350	2,310,000
Saudi Arabia	--	--	--	2,540	1,670	2,990,000
South Africa	4,990	3,310	5,310,000	113,000	75,500	136,000,000
Spain	1,510	910	2,950,000	3,990	2,410	7,470,000
Vietnam	--	--	--	40	26	60,100
Total	12,100	7,880	15,700,000	244,000	162,000	308,000,000

-- 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 OCTOBER 2010¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	174	162	\$469,000	20,000	17,500	\$50,200,000
Korea, Republic of	--	--	--	3,000	2,420	6,760,000
Mexico	419	337	1,020,000	8,370	6,740	17,300,000
Netherlands	--	--	--	220	178	429,000
Norway	300	241	606,000	3,610	2,930	7,410,000
South Africa	--	--	--	23	21	69,800
Vietnam	304	284	821,000	361	338	933,000
Total	1,200	1,020	2,920,000	35,600	30,100	83,100,000
Medium carbon, 1%-2% C:						
China	498	389	1,100,000	11,100	8,860	20,200,000
India	--	--	--	1,110	875	2,340,000
Korea, Republic of	--	--	--	12,400	9,920	27,100,000
Mexico	1,170	940	2,420,000	10,000	7,930	20,200,000
Netherlands	--	--	--	48	39	118,000
Norway	900	728	1,710,000	17,200	13,800	32,200,000
Russia	--	--	--	18	14	46,300
South Africa	773	610	1,180,000	25,600	20,400	46,800,000
Spain	--	--	--	99	80	146,000
Total	3,340	2,670	6,400,000	77,600	61,900	149,000,000
Medium carbon, 2%-4% C:						
Brazil	--	--	--	1	1	2,780
China	--	--	--	40	22	74,800
South Africa	--	--	--	144	131	367,000
Switzerland	--	--	--	50	39	49,100
Total	--	--	--	235	193	494,000
High carbon:						
Australia	--	--	--	4,040	3,140	4,200,000
Bahrain	--	--	--	300	229	360,000
Brazil	--	--	--	1,100	829	1,340,000
France	3,000	2,070	3,610,000	10,700	7,760	12,800,000
India	--	--	--	198	147	233,000
Kazakhstan	--	--	--	1,450	1,100	1,620,000
Korea, Republic of	--	--	--	1,500	1,130	1,800,000
Mexico	1	1	3,160	8	6	14,600
Norway	3,000	2,350	3,350,000	7,000	5,510	7,810,000
Russia	--	--	--	649	473	659,000
South Africa	11,600	9,030	13,500,000	97,200	75,400	118,000,000
Ukraine	8,890	7,010	11,800,000	33,900	26,500	39,800,000
Venezuela	--	--	--	1,000	750	1,450,000
Zambia	--	--	--	1,490	1,050	1,600,000
Total	26,500	20,500	32,200,000	161,000	124,000	191,000,000
Grand total	31,000	24,100	41,600,000	274,000	216,000	424,000,000

-- 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 OCTOBER 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	8,800	3,920	\$1,920,000	16,800	7,480	\$2,320,000
Ghana	--	--	--	36,600	10,300	5,080,000
Mexico	1,460	524	342,000	2,920	1,050	687,000
South Africa	--	--	--	44,300	17,700	7,250,000
Total	10,300	4,440	2,270,000	101,000	36,500	15,300,000
47% or more manganese:						
Australia	--	--	--	69,600	56,900	20,100,000
Brazil	--	--	--	6,780	3,440	2,520,000
China	--	--	--	486	331	438,000
Gabon	39,300	20,600	14,600,000	204,000	105,000	60,600,000
Georgia	--	--	--	12,400	8,610	13,000,000
Morocco	38	35	29,200	1,470	741	157,000
South Africa	--	--	--	18,000	9,850	6,010,000
Total	39,300	20,600	14,600,000	313,000	185,000	103,000,000
Grand total	49,600	25,000	16,900,000	414,000	221,000	118,000,000

-- 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 OCTOBER 2010¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Belgium	19	\$69,400	94	\$374,000
Brazil	--	--	1	2,240
China	--	--	41	20,200
Colombia	300	577,000	380	731,000
Germany	2	9,900	40	77,700
India	--	--	(3)	3,970
Japan	469	1,070,000	5,660	12,400,000
Korea, Republic of	--	--	(3)	4,260
Mexico	--	--	2	4,000
Morocco	--	--	45	28,800
Netherlands	--	--	246	145,000
Singapore	23	38,800	121	206,000
South Africa	1,410	4,150,000	11,700	32,300,000
Spain	--	--	214	424,000
Total	2,230	5,920,000	18,600	46,700,000

-- 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 OCTOBER 2010¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	764	\$2,150,000	11,700	\$29,000,000
Hong Kong	60	238,000	664	1,810,000
Japan	--	--	30	38,700
South Africa	133	459,000	1,220	3,820,000
Vietnam	100	258,000	1,210	2,940,000
Total	1,060	3,110,000	14,800	37,600,000
Unwrought powder:				
China	--	--	200	541,000
Mexico	--	--	39	206,000
South Africa	379	1,330,000	2,600	8,940,000
Total	379	1,330,000	2,840	9,690,000
Unwrought, other:				
China	772	2,010,000	9,230	22,100,000
Germany	116	355,000	744	2,260,000
Hong Kong	--	--	132	339,000
Poland	(3)	3,980	(3)	6,990
South Africa	--	--	800	2,670,000
Spain	34	67,500	43	90,200
Ukraine	--	--	19	23,800
United Kingdom	18	72,100	149	519,000
Total	940	2,510,000	11,100	28,000,000
Other manganese, wrought:				
Canada	--	--	(3)	7,110
China	--	--	45	139,000
France	--	--	23	83,700
Mexico	39	242,000	324	1,890,000
Poland	--	--	(3)	4,900
South Africa	--	--	40	124,000
United Kingdom	--	--	8	30,700
Total	39	242,000	440	2,280,000
Grand total	2,420	7,190,000	29,200	77,500,000

-- 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 1/2 unit.

Note: There were no imports for consumption of metallic waste and scrap in October 2010; the year-to-date total remains at 612 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 OCTOBER 2010¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese,				Silicomanganese		Manganese metal ²	
	October	Year to date	2% or less C		More than 2% C		October	Year to date	October	Year to date
			October	Year to date	October	Year to date				
Australia	--	2	--	--	--	--	--	1	--	22
Belgium	30	407	--	--	--	--	--	240	--	192
Brazil	--	--	147	1,620	--	551	--	4	40	139
Canada	--	3,140	8	327	171	4,540	207	1,650	6	93
Chile	--	--	--	1,390	--	184	--	--	--	28
China	51	8,790	--	--	--	--	--	--	17	632
Colombia	--	1	--	21	--	--	--	--	--	--
Denmark	--	--	--	--	--	2	--	--	--	--
El Salvador	--	--	--	--	--	--	--	--	1	1
France	--	--	--	--	--	--	--	--	--	(3)
Germany	--	75	--	--	--	--	--	--	--	82
Guyana	--	--	--	--	--	--	--	--	--	2
Hong Kong	--	--	--	--	--	--	--	--	74	778
India	--	--	--	--	--	--	--	--	--	423
Indonesia	--	--	--	--	--	1	--	--	--	38
Ireland	--	--	--	--	--	19	--	--	--	--
Japan	--	--	--	--	--	--	--	--	56	219
Korea, Republic of	68	272	--	--	--	--	--	--	--	2
Luxembourg	--	--	--	--	--	--	--	--	--	3
Malaysia	--	102	--	--	4	4	--	--	--	1
Mexico	19	40	724	1,090	337	367	1,040	3,760	10	100
Norway	--	--	--	--	--	3	--	19	--	--
Romania	--	--	--	--	3	3	--	--	--	--
Russia	--	14	--	--	--	--	--	--	--	--
Singapore	--	--	--	--	1	24	--	--	--	--
Spain	--	8	--	--	--	--	--	60	--	--
Suriname	--	--	--	--	--	--	--	--	--	1
Taiwan	--	560	--	--	--	--	--	--	--	38
Trinidad and Tobago	--	7	--	--	--	--	--	279	--	--
Turkey	1	1	--	--	--	--	--	420	--	--
United Kingdom	--	40	--	--	--	--	--	--	--	1
Venezuela	--	--	--	--	--	1	--	--	--	--
Vietnam	--	--	--	--	--	--	--	--	--	217
Total	169	13,500	880	4,440	516	5,700	1,250	6,430	203	3,010

-- 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 OCTOBER 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	733	\$741	South Africa 422; \$360	6,820	\$5,950	South Africa 2,510; \$1,760
Manganites, manganates, and other permanganates	1	39	Japan 1; \$32	18	101	Germany 17; \$62
Potassium permanganate	107	324	India 78; \$241	934	2,860	India 564; \$1,750
Sodium permanganate	--	--	--	530	1,220	China 528; \$1,200
Sulfates, basket category, including manganese sulfate	3,640	4,030	Mexico 1,680; \$1,420	33,900	34,500	Mexico 16,000; \$13,600
Exports:						
Manganese dioxide	620	1,220	Canada 239; \$278	7,880	13,000	Canada 3,460; \$3,570
Manganese oxides other than dioxide	665	1,290	Canada 288; \$206	6,590	11,200	Canada 2,152; \$1,828
Manganites, manganates, and other permanganates	3	9	Canada 3; \$9	78	280	Canada 77; \$195
Potassium permanganate	364	1,020	Belgium 221; \$604	2,770	7,950	Belgium 1,650; \$4,270
Sodium permanganate	37	77	Mexico 37; \$77	1,080	2,690	Singapore 383; \$1,040
Sulfates, basket category, including manganese sulfate	1,190	1,320	Canada 715; \$486	14,300	12,100	Canada 10,800; \$6,470

-- 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.