

Mineral Industry Surveys

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MANGANESE IN OCTOBER 2010

Preliminary reported data (gross weight) for October 2010 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 39,400 metric tons (t), according to the U.S. Geological Survey. This was slightly more than the amount consumed in September 2010. The amount of manganese ore consumed in the first 10 months of 2010 was 380,000 t. This was an 8% increase from the revised amount consumed during the same period in 2009 (353,000 t). Industry stocks of ore at the end of October 2010 were 204,000 t, which was a slight increase from those at the end of September 2010.

Data for U.S. manganese imports and exports for September 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 about 9.5 times greater, and 41% lower, respectively, than those in August 2010. U.S. imports of

manganese ore plus dioxide and manganese ferroalloys plus metal during the first 9 months of 2010 were 50% higher and 173% 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 September 2010 were 3% lower and 34% lower, respectively, than those in August 2010. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 9 months of 2010 were 8% lower and 54% lower, respectively, than those during the same period in 2009 (table 1).

Prices

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

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	1,320.00-1,375.00	1,358.75
Medium-carbon ferromanganese ³	119.00-125.00	122.00
Silicomanganese ³	61.00-65.00	63.00

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	164.00-167.00	164.00-165.50-167.00
36%-39% Manganese ore ⁵	5.25-5.90	5.62-5.71-5.80
44% Manganese ore ⁵	5.90-6.40	6.13-6.23-6.33
48% Manganese ore ⁵	6.50-7.10	6.83-6.92-7.00

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:						
September	592	21,900	22,500	1,390	1,880	3,270
January-September	138,000	137,000	275,000	7,200	28,800	36,000
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
Total	206,000	374,000	580,000	6,640	13,100	19,800

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 SEPTEMBER 2010¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	1,510	994	\$1,560,000	25,600	17,000	\$27,300,000
Bahrain	--	--	--	1,140	760	1,480,000
Canada	--	--	--	14	5	11,400
China	35	23	54,100	35	23	54,100
Georgia	1,690	1,190	1,950,000	45,200	31,500	54,900,000
India	104	58	173,000	598	331	1,050,000
Macedonia	--	--	--	986	657	1,310,000
Mexico	1,060	694	1,310,000	9,390	6,170	11,000,000
Norway	--	--	--	34,200	21,400	54,600,000
Russia	1,500	995	1,790,000	2,050	1,350	2,310,000
Saudi Arabia	--	--	--	2,540	1,670	2,990,000
South Africa	5,340	3,690	6,480,000	108,000	72,200	131,000,000
Spain	--	--	--	2,490	1,500	4,520,000
Vietnam	--	--	--	40	26	60,100
Total	11,200	7,640	13,300,000	232,000	155,000	292,000,000

-- 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 SEPTEMBER 2010¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	904	845	\$2,280,000	19,800	17,300	\$49,700,000
Korea, Republic of	--	--	--	3,000	2,420	6,760,000
Mexico	500	403	1,140,000	7,950	6,410	16,300,000
Netherlands	--	--	--	220	178	429,000
Norway	1	1	4,570	3,310	2,690	6,810,000
South Africa	--	--	--	23	21	69,800
Vietnam	--	--	--	57	54	112,000
Total	1,410	1,250	3,430,000	34,400	29,100	80,200,000
Medium carbon, 1%-2% C:						
China	3,500	2,800	7,000,000	10,600	8,470	19,200,000
India	--	--	--	1,110	875	2,340,000
Korea, Republic of	--	--	--	12,400	9,920	27,100,000
Mexico	1,120	898	2,340,000	8,850	6,990	17,800,000
Netherlands	--	--	--	48	39	118,000
Norway	1,000	807	1,940,000	16,300	13,100	30,500,000
Russia	--	--	--	18	14	46,300
South Africa	1,500	1,120	2,290,000	24,900	19,800	45,600,000
Spain	--	--	--	99	80	146,000
Total	7,120	5,620	13,600,000	74,300	59,300	143,000,000
Medium carbon, 2%-4% C:						
Brazil	--	--	--	1	1	2,780
China	--	--	--	40	22	74,800
South Africa	18	17	47,600	144	131	367,000
Switzerland	--	--	--	50	39	49,100
Total	18	17	47,600	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	--	--	--	7,730	5,690	9,170,000
India	198	147	233,000	198	147	233,000
Kazakhstan	--	--	--	1,450	1,100	1,620,000
Korea, Republic of	--	--	--	1,500	1,130	1,800,000
Mexico	--	--	--	7	5	11,500
Norway	2,500	1,970	2,800,000	4,000	3,160	4,460,000
Russia	--	--	--	649	473	659,000
South Africa	15,200	12,000	17,700,000	85,600	66,400	104,000,000
Ukraine	29	23	42,400	25,000	19,500	28,100,000
Venezuela	--	--	--	1,000	750	1,450,000
Zambia	497	351	569,000	1,490	1,050	1,600,000
Total	18,400	14,500	21,300,000	134,000	104,000	159,000,000
Grand total	26,900	21,400	38,400,000	243,000	192,000	383,000,000

-- 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.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN SEPTEMBER 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	--	--	--	6,780	3,440	2,520,000
China	221	150	\$199,000	486	331	438,000
Gabon	46,200	23,500	15,400,000	165,000	84,400	46,000,000
Georgia	--	--	--	12,400	8,610	13,000,000
Morocco	38	19	29,200	1,430	706	128,000
South Africa	--	--	--	18,000	9,850	6,010,000
Total	46,500	23,600	15,600,000	274,000	164,000	88,200,000
Grand total	46,500	23,600	15,600,000	364,000	196,000	101,000,000

-- 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 SEPTEMBER 2010¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Belgium	19	\$79,200	75	\$304,000
Brazil	--	--	1	2,240
China	--	--	41	20,200
Colombia	--	--	80	154,000
Germany	--	--	38	67,800
India	--	--	(3)	3,970
Japan	602	1,330,000	5,190	11,300,000
Korea, Republic of	(3)	4,260	(3)	4,260
Mexico	--	--	2	4,000
Morocco	--	--	45	28,800
Netherlands	--	--	246	145,000
Singapore	11	19,400	99	168,000
South Africa	735	2,050,000	10,300	28,100,000
Spain	--	--	214	424,000
Total	1,370	3,490,000	16,300	40,800,000

-- 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 SEPTEMBER 2010¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	500	\$1,440,000	10,900	\$26,800,000
Hong Kong	160	423,000	604	1,570,000
Japan	30	38,700	30	38,700
South Africa	171	576,000	1,090	3,360,000
Vietnam	--	--	1,110	2,690,000
Total	861	2,470,000	13,800	34,500,000
Unwrought powder:				
China	--	--	200	541,000
Mexico	19	126,000	39	206,000
South Africa	488	1,740,000	2,230	7,610,000
Total	507	1,870,000	2,460	8,360,000
Unwrought, other:				
China	81	223,000	8,460	20,100,000
Germany	46	152,000	630	1,910,000
Hong Kong	--	--	132	339,000
Poland	--	--	(3)	3,010
South Africa	114	393,000	800	2,670,000
Spain	--	--	9	22,700
Ukraine	19	23,800	19	23,800
United Kingdom	19	67,600	130	447,000
Total	280	859,000	10,200	25,500,000
Other manganese, wrought:				
Canada	--	--	(3)	7,110
China	(3)	3,640	45	139,000
France	--	--	23	83,700
Mexico	20	118,000	285	1,640,000
Poland	--	--	(3)	4,900
South Africa	--	--	40	124,000
United Kingdom	--	--	8	30,700
Total	20	122,000	401	2,030,000
Grand total	1,670	5,320,000	26,800	70,300,000

-- 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 67 metric tons, all of which was from Canada, to give a year-to-date total of 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 SEPTEMBER 2010¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese,				Silicomanganese		Manganese metal ²	
			2% or less C		More than 2% C		September	Year to date	September	Year to date
	September	Year to date	September	Year to date	September	Year to date				
Australia	--	2	--	--	--	--	--	1	--	22
Belgium	160	377	--	--	--	--	--	240	--	192
Brazil	--	--	778	1,470	295	551	4	4	--	99
Canada	24	3,140	27	318	177	4,370	370	1,440	14	87
Chile	--	--	484	1,390	16	184	--	--	--	28
China	--	8,730	--	--	--	--	--	--	--	615
Colombia	--	1	--	21	--	--	--	--	--	--
Denmark	--	--	--	--	--	2	--	--	--	--
France	--	--	--	--	--	--	--	--	--	(3)
Germany	--	75	--	--	--	--	--	--	--	82
Guyana	--	--	--	--	--	--	--	--	--	2
Hong Kong	--	--	--	--	--	--	--	--	--	704
India	--	--	--	--	--	--	--	--	85	423
Indonesia	--	--	--	--	--	1	--	--	--	38
Ireland	--	--	--	--	--	19	--	--	--	--
Japan	--	--	--	--	--	--	--	--	--	163
Korea, Republic of	--	204	--	--	--	--	--	--	2	2
Luxembourg	--	--	--	--	--	--	--	--	--	3
Malaysia	--	102	--	--	--	--	--	--	--	1
Mexico	--	21	205	364	10	30	124	2,720	19	90
Norway	--	--	--	--	--	3	--	19	--	--
Russia	--	14	--	--	--	--	--	--	--	--
Singapore	--	--	--	--	--	23	--	--	--	--
Spain	--	8	--	--	--	--	--	60	--	--
Suriname	--	--	--	--	--	--	--	--	--	1
Taiwan	--	560	--	--	--	--	--	--	21	38
Trinidad and Tobago	--	7	--	--	--	--	--	279	--	--
Turkey	--	--	--	--	--	--	--	420	--	--
United Kingdom	--	40	--	--	--	--	--	--	--	1
Venezuela	--	--	--	--	--	1	--	--	--	--
Vietnam	--	--	--	--	--	--	--	--	--	217
Total	184	13,300	1,490	3,560	498	5,180	498	5,190	141	2,810

-- 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.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN SEPTEMBER 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	480	\$453	Mexico 262; \$251	6,090	\$5,210	South Africa 2,090; \$1,400
Manganites, manganates, and other permanganates	--	--	--	17	62	Germany 17; \$62
Potassium permanganate	54	168	India 54; \$168	828	2,530	India 486; \$1,510
Sodium permanganate	73	184	China 73; \$181	530	1,220	China 528; \$1,200
Sulfates, basket category, including manganese sulfate	2,930	2,900	Mexico 1,780; \$1,490	30,300	30,500	Mexico 14,400; \$12,200
Exports:						
Manganese dioxide	1,050	2,100	Canada 442; \$406	7,260	11,800	Canada 3,220; \$3,290
Manganese oxides other than dioxide	487	874	Canada 166; \$92	5,930	9,930	Canada 1,860; \$1,620
Manganites, manganates, and other permanganates	6	21	Canada 6; \$15	75	272	Canada 74; \$186
Potassium permanganate	402	1,220	Belgium 237; \$641	2,400	6,940	Belgium 1,420; \$3,670
Sodium permanganate	160	446	Singapore 97; \$301	1,050	2,610	Singapore 384; \$1,040
Sulfates, basket category, including manganese sulfate	1,540	1,250	Canada 982; \$530	13,100	10,800	Canada 10,000; \$5,980

-- 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.