

Mineral Industry Surveys

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MANGANESE IN NOVEMBER 2009

Preliminary reported data (gross weight) for November 2009 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 38,600 metric tons (t), according to the U.S. Geological Survey. This was a 3% increase from that consumed in October 2009. Manganese ore consumption in the first 11 months of 2009 was 421,000 t, which was a 19% increase from the revised amount consumed during the first 11 months of 2008. This increase was the result of sustained production by a major manganese ferroalloy producer. Industry stocks of ore at the end of November 2009 were 111,000 t, which was slightly less than that at the end of October 2009.

Data for U.S. manganese imports and exports for October 2009 are published in this issue. On a contained-weight basis, U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal were 61% higher and 55% lower,

respectively, than those in September 2009. U.S. imports of manganese ore plus dioxide and manganese ferroalloys plus metal during the first 10 months of 2009 were 40% lower and 73% lower, respectively, than those during the same period in 2008 (table 1).

On a contained-weight basis, U.S. manganese ore and manganese ferroalloys plus metal exports for October 2009 were 95% lower and slightly lower, respectively, than those in September 2009. U.S. exports of manganese ore and manganese ferroalloys plus metal during the first 10 months of 2009 were 54% less and 26% greater, respectively, than those during the same period in 2008 (table 1).

Prices

Prices for manganese materials in November 2009, manganese content, are listed below.

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	1,400.00-1,475.00	1,444.38
Medium-carbon ferromanganese ³	100.00-110.00	106.88
Silicomanganese ³	61.00-68.00	65.63

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	140.00-146.00	141.29-143.50-145.71
36%-39% Manganese ore ⁵	4.75-5.75	4.93-5.05-5.18
44% Manganese ore ⁵	5.00-6.20	5.24-5.46-5.69
48% Manganese ore ⁵	5.50-6.70	5.75-6.12-6.49

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
2008:						
October	3,910	53,900	57,800	204	2,210	2,410
January-October	230,000	548,000	778,000	15,900	24,300	40,200
2009:						
January	25,600	36,600	62,100	102	2,460	2,560
February	559	13,400	14,000	188	4,270	4,460
March	26,300	8,670	35,000	80	1,730	1,810
April	9,960	7,450	17,400	80	3,190	3,270
May	946	12,400	13,400	2,310	2,900	5,210
June	61,300	8,970	70,300	526	5,360	5,890
July	1,220	16,000	17,200	1,400	4,050	5,440
August	11,300	11,500	22,900	1,110	2,930	4,040
September	592	21,900	22,500	1,390	1,880	3,270
October	955	9,830	10,800	76	1,830	1,910
Total	139,000	147,000	286,000	7,270	30,600	37,900

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 2009¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	--	--	--	13,100	8,660	\$11,800,000
China	--	--	--	537	321	937,000
Georgia	137	98	\$103,000	19,600	13,000	15,000,000
India	38	17	51,000	38	17	51,000
Korea, Republic of	--	--	--	7,090	4,620	6,380,000
Norway	258	178	369,000	9,230	5,690	12,800,000
Russia	--	--	--	1,500	986	1,250,000
Saudi Arabia	--	--	--	6,330	1,920	4,860,000
South Africa	127	76	119,000	39,200	26,000	40,600,000
Total	561	369	641,000	96,600	61,200	93,700,000

-- 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.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN OCTOBER 2009¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
Canada	22	18	\$30,600	22	18	\$30,600
China	1,560	1,470	4,240,000	5,060	4,710	12,800,000
Korea, Republic of	1,000	821	1,730,000	3,400	2,760	5,270,000
Mexico	--	--	--	2,040	1,600	4,040,000
Norway	95	78	148,000	1,720	1,400	2,980,000
South Africa	20	15	61,200	1,020	827	2,560,000
Sweden	--	--	--	5	3	27,500
Total	2,700	2,400	6,210,000	13,300	11,300	27,700,000
Medium carbon, 1%-2% C:						
China	148	115	301,000	740	600	1,610,000
France	--	--	--	19	15	103,000
Korea, Republic of	1,630	1,330	2,530,000	4,630	3,770	9,460,000
Mexico	20	15	45,000	1,320	1,060	2,640,000
Norway	1,770	1,460	2,740,000	2,780	2,280	4,190,000
South Africa	60	45	149,000	8,260	6,550	21,200,000
Turkey	--	--	--	20	16	95,800
Total	3,630	2,960	5,760,000	17,800	14,300	39,300,000
Medium carbon, 2%-4% C:						
Brazil	405	304	460,000	405	304	460,000
Norway	16	13	25,200	16	13	25,200
South Africa	18	16	44,100	162	131	368,000
Total	439	333	529,000	583	448	853,000
High carbon:						
Bahrain	--	--	--	2,000	1,630	2,350,000
Canada	--	--	--	149	86	132,000
China	--	--	--	816	614	1,140,000
India	982	747	1,160,000	5,910	4,510	5,930,000
Korea, Republic of	--	--	--	201	164	239,000
Mexico	--	--	--	1,300	990	1,410,000
South Africa	8	4	7,870	41,800	32,300	52,200,000
Spain	529	402	624,000	1,660	1,260	1,840,000
Total	1,520	1,150	1,790,000	53,900	41,500	65,200,000
Grand total	8,290	6,850	14,300,000	85,500	67,600	133,000,000

-- 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 2009^{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, Australia	--	--	--	25,600	10,500	\$10,200,000
47% or more manganese:						
Belgium	43	40	\$68,000	43	40	68,000
Brazil	--	--	--	2,960	1,540	930,000
China	--	--	--	4,080	2,090	533,000
Gabon	--	--	--	153,000	78,900	60,400,000
Ghana	--	--	--	37,500	37,100	3,400,000
Morocco	--	--	--	16	9	11,500
Total	43	40	68,000	198,000	120,000	65,400,000
Grand total	43	40	68,000	224,000	130,000	75,500,000

-- 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.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN OCTOBER 2009¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Belgium	--	--	74	\$226,000
Brazil	--	--	56	95,600
Colombia	46	\$95,300	51	104,000
France	--	--	18	31,000
Germany	--	--	28	47,200
India	(3)	4,190	(3)	11,900
Japan	485	1,080,000	3,850	9,850,000
Korea, Republic of	--	--	(3)	7,690
Mexico	--	--	10	16,300
Netherlands	--	--	29	49,500
Singapore	21	36,500	104	176,000
South Africa	972	2,520,000	10,000	23,700,000
Spain	--	--	136	309,000
Total	1,530	3,740,000	14,400	34,600,000

-- 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 2009¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,120	\$2,700,000	5,400	\$13,400,000
Hong Kong	--	--	20	45,700
Japan	18	25,800	46	121,000
South Africa	171	477,000	2,090	5,040,000
Vietnam	20	51,200	20	51,200
Total	1,320	3,260,000	7,580	18,700,000
Unwrought powder:				
China	240	717,000	624	2,010,000
South Africa	180	604,000	1,440	4,510,000
Total	420	1,320,000	2,070	6,530,000
Unwrought, other:				
Brazil	--	--	15	43,500
China	691	1,640,000	6,240	14,500,000
Germany	18	55,500	506	1,530,000
Hong Kong	--	--	183	394,000
Malaysia	--	--	(3)	3,650
Poland	14	20,200	14	22,400
South Africa	57	181,000	553	1,820,000
United Kingdom	12	35,000	85	262,000
Total	792	1,940,000	7,590	18,500,000
Other manganese, wrought:				
Belgium	--	--	6	31,200
Canada	--	--	22	54,600
China	14	17,100	263	708,000
France	--	--	8	34,100
Japan	(3)	2,440	(3)	4,580
Mexico	25	112,000	299	1,530,000
Poland	--	--	(3)	3,190
South Africa	--	--	12	54,300
United Kingdom	--	--	(3)	3,220
Total	39	131,000	610	2,420,000
Grand total	2,580	6,650,000	17,900	46,100,000

-- 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 76 metric tons (t), of which 75 t went to Canada and 1 t went to the Netherlands, to give a year-to-date total of 534 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 OCTOBER 2009¹

(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				
Argentina	--	--	--	--	--	--	--	--	--	5
Australia	--	--	--	--	--	160	--	--	59	59
Austria	--	--	--	--	--	--	--	1,130	--	--
Belgium	--	--	--	--	--	--	--	--	--	50
Brazil	--	2	--	--	--	380	--	23	--	--
Canada	--	13,500	20	2,370	736	6,630	675	4,970	--	31
Chile	--	--	--	200	--	340	--	--	--	--
China	--	--	--	--	--	--	--	--	73	789
Colombia	--	--	--	--	--	40	--	--	--	--
Finland	--	--	--	--	--	--	--	--	--	159
France	--	--	--	--	--	--	--	--	--	6
Germany	23	508	--	--	--	--	--	--	--	64
Guyana	--	--	--	--	--	--	--	--	--	1
Hong Kong	--	--	1	1	--	--	--	--	106	707
India	--	--	--	--	--	12	--	--	--	189
Indonesia	--	--	4	4	--	--	--	--	--	--
Ireland	--	18	--	--	--	8	--	--	--	--
Italy	--	--	--	--	--	--	--	2,540	--	--
Japan	--	--	--	--	--	1,000	--	--	18	419
Korea, Republic of	51	388	--	--	--	--	--	--	--	--
Latvia	38	38	--	--	--	--	--	--	--	--
Malaysia	40	40	--	--	--	1,080	--	--	1	4
Mexico	--	--	--	3,130	65	3,680	661	5,610	--	35
Netherlands	--	4	--	--	--	2,000	--	1,490	--	--
Norway	--	--	--	--	--	36	--	--	--	--
Peru	--	--	--	--	--	--	--	300	--	--
Portugal	--	--	--	--	--	--	20	20	--	--
Russia	--	3	--	--	--	--	--	--	--	--
Saint Lucia	--	--	--	--	--	--	--	--	--	10
Singapore	--	--	--	--	--	11	--	--	--	--
Slovenia	--	19	--	--	--	--	--	--	--	--
Sweden	--	19	--	--	--	--	--	--	--	--
Taiwan	--	--	--	--	--	--	--	299	--	76
Trinidad and Tobago	--	--	--	--	--	--	--	--	--	1
Turkey	--	--	--	--	--	--	40	40	--	--
United Arab Emirates	--	--	--	--	--	--	--	--	--	15
United Kingdom	--	--	--	--	--	459	--	--	--	36
Vietnam	--	--	--	--	--	--	--	--	--	78
Total	152	14,500	26	5,700	801	15,800	1,400	16,400	257	2,740

-- 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.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN OCTOBER 2009, 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	857	\$602	Mexico 330; \$286	7,690	\$5,610	Brazil 2,970; \$2,120
Manganites, manganates, and other permanganates	--	--	--	17	62	Germany 17; \$62
Potassium permanganate	107	344	Czech Republic 70; \$224	890	2,990	Czech Republic 494; \$1,650
Sodium permanganate	51	77	China 51; \$70	165	351	China 164; \$344
Sulfates, basket category, including manganese sulfate	2,000	1,790	Mexico 912; \$746	27,400	28,500	China 11,200; \$9,950
Exports:						
Manganese dioxide	1,380	1,790	Canada 758; \$609	6,890	10,700	Canada 3,520; \$3,340
Manganese oxides other than dioxide	619	963	Canada 175; \$148	5,450	6,970	Canada 1,910; \$1,110
Manganites, manganates, and other permanganates	8	19	Canada 8; \$19	106	261	Canada 104; \$234
Potassium permanganate	229	653	Belgium 99; \$277	1,790	5,590	Belgium 980; \$2,900
Sodium permanganate	105	270	Singapore 57; \$141	777	1,750	Singapore 306; \$602
Sulfates, basket category, including manganese sulfate	1,950	1,330	Canada 1,740; \$957	15,800	12,400	Canada 13,300; \$7,830

-- 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.