

Mineral Industry Surveys

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MANGANESE IN NOVEMBER 2008

Preliminary reported data (gross weight) for November 2008 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 24,200 metric tons (t), according to the U.S. Geological Survey. This was slightly less than that reported consumed in October 2008. Manganese ore consumption during the first 11 months of 2008 was 277,000 t. This was 67% of the net manganese ore imports during the same period (413,000 t), and slightly less than the revised amount consumed during the same period in 2007 (280,000 t). Industry stocks of ore at the end of November were 100,000 t, which was slightly less than those at the end of October 2008. These data include estimates for annual respondents on the basis of 2007 data.

Data for U.S. imports and exports for October 2008 are published in this issue. On a contained-weight basis, U.S. manganese ore plus dioxide and manganese ferroalloys plus

metal imports were 85% lower and 4% higher, respectively, than those in September 2008. U.S. manganese ore plus dioxide and manganese ferroalloys plus metal imports during the first 10 months of 2008 were 20% lower and 21% higher, respectively, than those during the same period in 2007 (table 1).

On a contained-weight basis, U.S. manganese ore and manganese ferroalloys plus metal exports for October 2008 were 34% higher and slightly lower, respectively, than those in September 2008. U.S. manganese ore and manganese ferroalloys plus metal exports during the first 11 months of 2008 were double and 12% less than, respectively, those during the same period in 2007 (table 1).

Prices

Prices for manganese materials in November 2008, manganese content, are listed below.

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	1,950.00-2,350.00	2,150.00
Medium-carbon ferromanganese ³	180.00-200.00	190.00
Silicomanganese ³	60.00-88.00	73.38

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	125.00-135.00	125.00-130.00-135.00
44% Manganese ore ⁵	10.00-12.50	11.50-11.89-12.29
48% Manganese ore ⁵	11.00-13.00	11.86-12.36-12.86

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. To determine dollars per metric ton, multiply the manganese content percentage by the price.

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
2007:						
October	40,600	37,100	77,700	7,290	3,510	10,800
January-October	286,000	453,000	739,000	8,180	27,500	35,700
2008:						
January	3,910	77,900	81,800	2,200	586	2,790
February	43,700	47,200	90,900	45	556	601
March	1,250	41,600	42,800	81	5,080	5,160
April	53,000	33,100	86,100	4,660	6,370	11,000
May	25,200	73,600	98,800	5,380	1,270	6,650
June	22,700	52,500	75,100	2,060	1,440	3,500
July	20,800	66,800	87,600	634	2,560	3,190
August	30,000	49,700	79,700	510	1,990	2,500
September	25,600	51,600	77,100	152	2,260	2,410
October	3,910	53,900	57,800	204	2,210	2,410
Total	230,000	548,000	778,000	15,900	24,300	40,200

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 2008¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Argentina	--	--	--	504	328	\$857,000
Australia	5,830	3,670	\$11,600,000	34,400	22,600	66,500,000
Canada	--	--	--	204	152	242,000
China	--	--	--	2	2	6,000
Georgia	6,990	5,170	16,700,000	54,200	40,400	104,000,000
Korea, Republic of	800	464	2,010,000	3,820	2,390	7,540,000
Macedonia	--	--	--	12,900	8,470	27,500,000
Mexico	2,200	1,440	3,220,000	11,900	7,830	16,400,000
Norway	6,500	4,160	11,800,000	60,200	37,600	110,000,000
Poland	--	--	--	13	8	17,000
Romania	--	--	--	2,340	1,660	5,010,000
Russia	--	--	--	2,070	1,370	3,870,000
Saudi Arabia	723	493	1,630,000	4,380	2,910	8,940,000
South Africa	18,300	12,300	37,900,000	131,000	88,000	250,000,000
Total	41,300	27,700	84,800,000	318,000	214,000	602,000,000

-- 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 2008¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
Brazil	--	--	--	649	508	\$2,420,000
Canada	--	--	--	42	34	137,000
China	1,310	1,170	\$5,120,000	31,100	26,000	101,000,000
Korea, Republic of	--	--	--	1,500	1,210	4,980,000
Mexico	1,620	1,300	4,120,000	8,800	7,140	20,400,000
Norway	350	287	1,450,000	3,830	3,150	14,200,000
United Kingdom	--	--	--	72	61	43,200
Total	3,280	2,750	10,700,000	46,000	38,100	143,000,000
Medium carbon, 1%-2% C:						
Brazil	--	--	--	1,240	988	4,820,000
China	159	125	616,000	38,400	30,400	115,000,000
France	--	--	--	80	66	345,000
Georgia	--	--	--	4,140	3,340	9,600,000
Korea, Republic of	--	--	--	7,600	6,140	25,400,000
Mexico	2,840	2,280	5,540,000	10,700	8,590	19,900,000
Norway	--	--	--	1,170	962	3,420,000
South Africa	1,910	1,540	8,130,000	26,200	21,200	70,800,000
Turkey	39	32	188,000	79	65	372,000
Ukraine	242	194	921,000	638	548	2,040,000
Total	5,190	4,170	15,400,000	90,200	72,300	252,000,000
Medium carbon, 2%-4% C:						
China	--	--	--	633	498	275,000
Georgia	348	295	1,250,000	3,050	2,610	9,920,000
South Africa	18	15	42,100	18	15	42,100
Ukraine	220	191	837,000	220	191	837,000
Total	586	502	2,130,000	3,920	3,310	11,100,000
High carbon:						
Australia	--	--	--	1,010	781	2,790,000
Brazil	--	--	--	2,440	1,850	5,730,000
British Virgin Islands	--	--	--	176	132	418,000
Canada	--	--	--	18	13	24,000
China	2,130	1,620	6,140,000	36,200	27,600	83,600,000
Georgia	--	--	--	488	415	1,170,000
India	2,220	1,680	6,190,000	18,700	13,900	47,500,000
Korea, Republic of	5,220	3,950	14,500,000	18,300	13,900	45,600,000
Macedonia	--	--	--	5,480	4,390	15,500,000
Mexico	--	--	--	43	34	147,000
Russia	--	--	--	3,020	2,300	8,370,000
South Africa	11,100	8,740	30,600,000	147,000	113,000	333,000,000
Spain	--	--	--	2,740	2,100	7,090,000
Ukraine	--	--	--	14,800	11,600	34,600,000
Venezuela	--	--	--	284	211	533,000
Total	20,700	16,000	57,400,000	251,000	192,000	586,000,000
Grand total	29,700	23,400	85,600,000	391,000	306,000	992,000,000

-- 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 2008^{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:						
Brazil	569	262	\$255,000	1,010	463	\$450,000
Gabon	--	--	--	106,000	49,400	19,100,000
India	--	--	--	4	1	6,050
Total	569	262	255,000	107,000	49,900	19,600,000
47% or more manganese:						
Australia	--	--	--	46,200	23,700	16,400,000
Brazil	4,550	2,340	3,090,000	62,200	32,300	18,100,000
China	--	--	--	862	516	436,000
Gabon	--	--	--	169,000	90,800	46,300,000
Ghana	--	--	--	12,500	6,230	5,580,000
South Africa	405	203	24,300	30,800	14,600	18,400,000
Total	4,960	2,550	3,120,000	322,000	168,000	105,000,000
Grand total	5,530	2,810	3,370,000	428,000	218,000	125,000,000

-- 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 2008^{1,2}

(Metric tons, gross weight)

Source	Quantity	Customs value ³	Year to date	
			Quantity	Customs value ³
Australia	--	--	4,380	\$6,230,000
Belgium	8	\$13,700	299	836,000
Brazil	38	52,800	221	334,000
China	--	--	507	565,000
France	15	25,300	15	25,300
Germany	9	14,500	52	115,000
Japan	580	1,290,000	3,870	6,550,000
Mexico	--	--	3,000	1,420,000
Singapore	10	16,700	116	197,000
South Africa	1,170	2,160,000	7,390	15,400,000
Other (3 countries)	(4)	6,030	11	39,800
Total	1,830	3,570,000	19,900	31,800,000

-- Zero.

¹Data rounded to no more than three significant digits; may not add to totals shown.

²Presentation of monthly data is based on the year-to-date quantities of the 10 leading countries.

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 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN OCTOBER 2008¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,620	\$5,760,000	12,400	\$42,700,000
Germany	--	--	500	1,470,000
New Caledonia	--	--	120	348,000
South Africa	132	410,000	794	2,210,000
Total	1,750	6,170,000	13,900	46,700,000
Unwrought powder:				
China	119	493,000	2,920	12,200,000
Korea, Republic of	--	--	44	143,000
Mexico	--	--	41	217,000
Spain	--	--	24	132,000
South Africa	258	1,220,000	3,700	16,400,000
Total	377	1,710,000	6,730	29,100,000
Unwrought, other:				
China	226	719,000	3,970	12,700,000
Germany	144	611,000	1,430	6,040,000
Russia	--	--	34	129,000
South Africa	76	351,000	248	1,140,000
United Kingdom	34	176,000	592	2,670,000
Total	481	1,860,000	6,270	22,700,000
Other manganese, wrought:				
Belgium	2	10,700	2	13,100
Canada	--	--	(3)	4,210
China	170	591,000	467	1,620,000
Japan	--	--	(3)	5,160
Mexico	--	--	426	2,530,000
Singapore	--	--	(3)	2,100
United Kingdom	--	--	(3)	5,860
Total	172	601,000	895	4,180,000
Grand total	2,780	10,300,000	27,800	103,000,000

-- 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.

³Less than ½ unit.

Note: There were no imports for consumption of metallic waste and scrap in October 2008; the year-to-date total remains at 72 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 2008¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	October	Year to date	October	Year to date	October	Year to date	October	Year to date
Argentina	--	--	--	--	--	--	--	4
Australia	--	--	--	10	--	--	--	--
Belgium	--	--	--	--	--	--	107	580
Brazil	--	1	--	--	--	96	--	--
Canada	304	1,470	104	10,000	--	736	--	94
Chile	--	--	--	40	--	--	--	--
China	--	29,200	--	--	--	--	136	665
Colombia	--	--	--	--	--	--	--	1
Finland	--	--	--	--	--	--	84	84
France	--	--	--	--	--	--	2	11
Germany	86	815	--	--	--	--	--	122
Hong Kong	--	--	--	--	--	--	54	435
India	1	1	--	--	--	--	7	232
Indonesia	--	--	--	--	--	--	--	19
Israel	--	16	--	--	--	--	--	--
Italy	--	--	--	--	--	203	--	11
Japan	--	2	--	6	--	217	18	973
Korea, Republic of	17	282	--	--	--	--	--	2
Latvia	--	23	--	--	--	--	--	--
Malaysia	--	5	--	--	--	--	--	--
Mexico	--	10	--	3,170	184	2,310	33	59
Netherlands	--	18	--	796	--	429	--	--
Niger	--	--	--	--	--	405	--	--
Panama	--	--	--	--	--	--	47	47
Peru	--	--	--	--	--	--	2	44
Poland	--	--	--	--	--	--	--	20
Russia	--	13	--	--	--	--	--	--
South Africa	--	--	--	--	--	--	4	51
Spain	--	--	532	1,040	--	1,640	--	--
Sweden	--	12	--	--	--	--	--	--
Taiwan	--	--	--	--	--	--	--	141
United Kingdom	--	--	--	--	--	--	96	194
Vietnam	--	--	--	--	--	--	10	86
Total	408	31,900	636	15,100	184	6,040	600	3,870

-- Zero.

¹Data rounded to no more than three significant digits; may not add to totals shown.

²Includes manganese-aluminum, some other alloys, and waste and scrap.

Note: Exports of ferromanganese with more than 2% carbon totaled 1,240 metric tons (t), of which 641 t went to Canada, 501 t went to Brazil, 92 t went to Chile, 7 t went to Mexico, and 3 t went to India, to give a year-to-date total of 5,750 t.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN OCTOBER 2008, 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	837	\$949	Brazil 590; \$481	3,970	\$3,660	Mexico 1,660; \$1,400
Manganites, manganates, and other permanganates	--	--	--	69	70	Poland 69; \$70
Potassium permanganate	14	38	Czech Republic 14; \$38	558	1,470	Czech Republic 311; \$816
Sodium permanganate	--	--	--	315	668	China 298; \$598
Sulfates, basket category, including manganese sulfate	5,840	7,370	China 4,100; \$4,470	36,800	38,600	China 16,200; \$15,800
Exports:						
Manganese dioxide	937	1,750	Canada 308; \$305	9,260	11,800	Canada 4,550; \$3,200
Manganese oxides other than dioxide	535	873	Canada 207; \$106	12,600	13,300	Canada 7,500; \$3,270
Manganites, manganates, and other permanganates	29	65	Canada 29; \$62	240	611	Canada 121; \$301
Potassium permanganate	395	924	Belgium 304, \$608	2,800	6,320	Belgium 2,090; \$3,990
Sodium permanganate	225	517	Japan 52; \$140	1,410	3,470	Belgium 436; \$791
Sulfates, basket category, including manganese sulfate	1,620	1,850	Canada 1,310; \$855	21,400	23,100	Canada 16,000; \$13,500

-- 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.