

Mineral Industry Surveys

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MANGANESE IN OCTOBER 2008

Preliminary reported data (gross weight) for October 2008 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 24,800 metric tons (t), according to the U.S. Geological Survey. This was slightly less than that reported consumed in September 2008. Manganese ore consumption during the first 10 months of 2008 was 253,000 t. This was 67% of the net manganese ore imports during the same period (377,000 t), and slightly less than the revised amount consumed during the same period in 2007 (254,000 t). Industry stocks of ore at the end of October were 101,000 t, which was the same as those at the end of September 2008. These data include estimates for annual respondents on the basis of 2007 data.

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

metal imports were 15% lower and 4% higher, respectively, than those in August 2008. U.S. manganese ore plus dioxide and manganese ferroalloys plus metal imports during the first 9 months of 2008 were 8% lower and 19% 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 September 2008 were 70% lower and 14% higher, respectively, than those in August 2008. U.S. manganese ore and manganese ferroalloys plus metal exports during the first 9 months of 2008 were 18 times and 8% less than, respectively, those during the same period in 2007 (table 1).

Prices

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

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	2,450.00-2,900.00	2,687.00
Medium-carbon ferromanganese ³	195.00-225.00	210.30
Silicomanganese ³	88.00-107.00	101.80

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	185.00-205.00	192.78-196.94-201.11
44% Manganese ore ⁵	11.75-16.25	14.42-14.71-15.00
48% Manganese ore ⁵	12.00-18.00	15.33-15.83-16.33

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:						
September	3,520	48,900	52,500	141	692	833
January-September	246,000	416,000	661,000	892	24,000	24,900
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
Total	226,000	494,000	720,000	15,700	22,100	37,800

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 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	1,590	1,060	\$2,760,000	28,600	18,900	54,900,000
Canada	--	--	--	204	152	242,000
China	2	2	6,000	2	2	6,000
Georgia	2,000	1,420	4,590,000	47,200	35,300	87,600,000
Korea, Republic of	--	--	--	3,020	1,930	5,530,000
Macedonia	--	--	--	12,900	8,470	27,500,000
Mexico	--	--	--	9,740	6,390	13,100,000
Norway	11,000	6,760	23,300,000	53,700	33,400	98,700,000
Poland	--	--	--	13	8	17,000
Romania	--	--	--	2,340	1,660	5,010,000
Russia	--	--	--	2,070	1,370	3,870,000
Saudi Arabia	391	262	841,000	3,660	2,410	7,310,000
South Africa	19,800	13,100	40,500,000	113,000	75,800	212,000,000
Total	34,800	22,600	72,100,000	277,000	186,000	517,000,000

-- 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 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	2,120	1,760	\$8,130,000	29,800	24,900	96,100,000
Korea, Republic of	--	--	--	1,500	1,210	4,980,000
Mexico	--	--	--	7,180	5,840	16,300,000
Norway	600	491	2,530,000	3,480	2,860	12,700,000
United Kingdom	--	--	--	72	61	43,200
Total	2,720	2,250	10,700,000	42,700	35,400	133,000,000
Medium carbon, 1%-2% C:						
Brazil	--	--	--	1,240	988	4,820,000
China	3,810	3,020	13,100,000	38,200	30,300	114,000,000
France	--	--	--	80	66	345,000
Georgia	--	--	--	4,140	3,340	9,600,000
Korea, Republic of	2,500	2,020	9,520,000	7,600	6,140	25,400,000
Mexico	61	47	277,000	7,840	6,310	14,400,000
Norway	--	--	--	1,170	962	3,420,000
South Africa	635	514	2,740,000	24,300	19,700	62,600,000
Turkey	20	17	89,900	40	33	184,000
Ukraine	--	--	--	395	354	1,120,000
Total	7,030	5,620	25,800,000	85,000	68,100	236,000,000
Medium carbon, 2%-4% C:						
China	--	--	--	633	498	275,000
Georgia	--	--	--	2,710	2,310	8,670,000
Total	--	--	--	3,340	2,810	8,950,000
High carbon:						
Australia	512	396	1,380,000	1,010	781	2,790,000
Brazil	999	760	2,770,000	2,440	1,850	5,730,000
British Virgin Islands	--	--	--	176	132	418,000
Canada	--	--	--	18	13	24,000
China	3,510	2,660	10,200,000	34,100	26,000	77,500,000
Georgia	--	--	--	488	415	1,170,000
India	2,940	2,210	8,220,000	16,500	12,200	41,300,000
Korea, Republic of	1,000	753	2,840,000	13,100	9,960	31,100,000
Macedonia	--	--	--	5,480	4,390	15,500,000
Mexico	2	1	2,250	43	34	147,000
Russia	--	--	--	3,020	2,300	8,370,000
South Africa	14,600	11,300	39,800,000	136,000	105,000	302,000,000
Spain	--	--	--	2,740	2,100	7,090,000
Ukraine	861	672	2,390,000	14,800	11,600	34,600,000
Venezuela	--	--	--	284	211	533,000
Total	24,400	18,700	67,600,000	230,000	177,000	529,000,000
Grand total	34,200	26,600	104,000,000	361,000	283,000	907,000,000

-- 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 SEPTEMBER 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	--	--	--	436	201	\$195,000
Gabon	--	--	--	106,000	49,400	19,100,000
India	--	--	--	4	1	6,050
Total	--	--	--	106,000	49,600	19,300,000
47% or more manganese:						
Australia	--	--	--	46,200	23,700	16,400,000
Brazil	5,960	2,980	\$357,000	57,700	29,900	15,000,000
China	201	101	15,000	862	516	436,000
Gabon	44,000	21,300	11,600,000	169,000	90,800	46,300,000
Ghana	--	--	--	12,500	6,230	5,580,000
South Africa	33	30	51,600	30,400	14,400	18,400,000
Total	50,200	24,500	12,000,000	317,000	166,000	102,000,000
Grand total	50,200	24,500	12,000,000	423,000	215,000	121,000,000

-- 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 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	--	--	291	822,000
Brazil	11	\$19,200	183	281,000
China	--	--	507	565,000
Germany	9	14,500	44	100,000
India	--	--	7	15,100
Japan	411	879,000	3,290	5,260,000
Mexico	--	--	3,000	1,420,000
Singapore	10	16,700	106	180,000
South Africa	1,400	2,890,000	6,230	13,300,000
Other (2 countries)	--	--	4	18,700
Total	1,840	3,820,000	18,000	28,200,000

-- 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.

Source: U.S. Census Bureau.

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

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	786	\$2,730,000	10,800	\$36,900,000
Germany	--	--	500	1,470,000
New Caledonia	--	--	120	348,000
South Africa	75	205,000	662	1,800,000
Total	861	2,930,000	12,100	40,500,000
Unwrought powder:				
China	186	821,000	2,800	11,700,000
Korea, Republic of	--	--	44	143,000
Mexico	--	--	41	217,000
Spain	24	132,000	24	132,000
South Africa	438	2,080,000	3,450	15,200,000
Total	648	3,030,000	6,360	27,400,000
Unwrought, other:				
China	464	1,780,000	3,740	12,000,000
Germany	155	648,000	1,290	5,430,000
Russia	--	--	34	129,000
South Africa	95	441,000	171	789,000
United Kingdom	78	346,000	558	2,500,000
Total	792	3,210,000	5,790	20,800,000
Other manganese, wrought:				
Belgium	--	--	(3)	2,350
Canada	--	--	(3)	4,210
China	73	267,000	297	1,030,000
Japan	--	--	(3)	5,160
Mexico	--	--	426	2,530,000
Singapore	--	--	(3)	2,100
United Kingdom	--	--	(3)	5,860
Total	73	267,000	723	3,580,000
Grand total	2,370	9,450,000	25,000	92,400,000

-- 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.

Note: There were no imports for consumption of metallic waste and scrap in September 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 SEPTEMBER 2008¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	September	Year to date	September	Year to date	September	Year to date	September	Year to date
Argentina	--	--	--	--	--	--	--	4
Australia	--	--	--	10	--	--	--	--
Belgium	--	--	--	--	--	--	223	473
Brazil	--	1	--	--	--	96	--	--
Canada	242	1,160	1,260	9,900	438	736	12	94
Chile	--	--	27	40	--	--	--	--
China	--	29,200	--	--	--	--	61	529
Colombia	--	--	--	--	--	--	--	1
France	--	--	--	--	--	--	7	9
Germany	62	729	--	--	--	--	--	122
Hong Kong	--	--	--	--	--	--	51	381
India	--	--	--	--	--	--	41	225
Indonesia	--	--	--	--	--	--	--	19
Israel	--	16	--	--	--	--	--	--
Italy	--	--	--	--	--	203	--	11
Japan	--	2	--	6	--	217	155	955
Korea, Republic of	--	264	--	--	--	--	--	2
Latvia	--	23	--	--	--	--	--	--
Malaysia	--	5	--	--	--	--	--	--
Mexico	--	10	--	3,170	118	2,130	--	26
Netherlands	--	18	--	796	--	429	--	--
Niger	--	--	--	--	--	405	--	--
Peru	--	--	--	--	--	--	1	42
Poland	--	--	--	--	--	--	--	20
Russia	--	13	--	--	--	--	--	--
South Africa	--	--	--	--	--	--	--	47
Spain	--	--	--	502	--	1,640	--	--
Sweden	--	12	--	--	--	--	--	--
Taiwan	--	--	--	--	--	--	--	141
United Kingdom	--	--	--	--	--	--	96	98
Vietnam	--	--	--	--	--	--	5	76
Total	303	31,500	1,280	14,400	556	5,860	652	3,270

-- 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 284 metric tons (t), of which 243 t went to Canada and 41 t went to Mexico, to give a year-to-date total of 4,510 t.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN SEPTEMBER 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	217	\$369	Mexico 177; \$211	3,130	\$2,710	Mexico 1,470; \$1,170
Manganites, manganates, and other permanganates	--	--	--	69	70	Poland 69; \$70
Potassium permanganate	18	58	India 18; \$58	544	1,440	Czech Republic 297; \$778
Sodium permanganate	51	70	China 51; \$70	315	668	China 298; \$598
Sulfates, basket category, including manganese sulfate	3,030	4,600	Mexico 1,500; \$2,520	31,000	31,200	Mexico 13,000; \$14,200
Exports:						
Manganese dioxide	801	1,310	Canada 339; \$310	8,320	10,100	Canada 4,240; \$2,890
Manganese oxides other than dioxide	1,320	1,340	Canada 973; \$422	12,000	12,400	Canada 7,290; \$3,170
Manganites, manganates, and other permanganates	1	3	Canada 1; \$3	211	546	Mexico 116; \$218
Potassium permanganate	143	335	Belgium 63; \$122	2,410	5,390	Belgium 1,790; \$3,380
Sodium permanganate	187	489	Belgium 62; \$125	1,180	2,950	Belgium 419; \$771
Sulfates, basket category, including manganese sulfate	1,540	1,510	Canada 1,200; \$758	19,800	21,300	Canada 14,700; \$12,600

-- 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.