

Mineral Industry Surveys

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MANGANESE IN SEPTEMBER 2008

Preliminary reported data (gross weight) for September 2008 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 25,300 metric tons (t), according to the U.S. Geological Survey. This was the same as that reported consumed in August 2008. Manganese ore consumption during the first 9 months of 2008 was 228,000 t. This was 61% of the net manganese ore imports during the same period (372,000 t), and 2% more than the revised amount consumed during the same period in 2007 (223,000 t).

Industry stocks of ore at the end of September were 101,000 t, which was the same as the revised amount at the end of August 2008. These data include estimates for annual respondents on the basis of 2007 data.

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

were 44% higher and 26% lower, respectively, than those in July 2008. U.S. manganese ore plus dioxide, and manganese ferroalloys plus metal imports during the first 8 months of 2008 were 17% 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 August 2008 were 20% and 22% lower, respectively, than those in July 2008. U.S. manganese ore, and manganese ferroalloys plus metal exports during the first 8 months of 2008 were 21 times greater and 15% less, respectively, than those during the same period in 2007 (table 1).

Prices

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

Ferroalloys prices¹

	<u>Price Range</u>	<u>Average Price</u>
High-carbon ferromanganese ²	2,850.00-3,250.00	3,013.13
Medium-carbon ferromanganese ³	210.00-245.00	227.00
Silicomanganese ³	105.00-115.00	108.00

Manganese metal and ore prices⁴

	<u>Price Range</u>	<u>Average Low, Mid, and High Prices</u>
Manganese metal ³	210.00-215.00	210.00-212.50-215.00
44% Manganese ore ⁵	15.75-16.25	15.75-16.00-16.25
48% Manganese ore ⁵	17.00-18.00	17.00-17.50-18.00

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. 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:						
August	44,300	66,100	110,000	95	836	931
January-August	242,000	367,000	609,000	751	23,300	24,000
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
Total	200,000	442,000	643,000	15,600	19,800	35,400

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 AUGUST 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	629	407	\$1,270,000	27,000	17,900	52,100,000
Canada	--	--	--	204	152	242,000
Georgia	1,530	1,120	3,560,000	45,200	33,800	83,100,000
Korea, Republic of	150	87	308,000	3,020	1,930	5,530,000
Macedonia	--	--	--	12,900	8,470	27,500,000
Mexico	1,100	727	1,600,000	9,740	6,390	13,100,000
Norway	1,500	1,010	2,300,000	42,600	26,700	75,400,000
Poland	--	--	--	13	8	17,000
Romania	--	--	--	2,340	1,660	5,010,000
Russia	--	--	--	2,070	1,370	3,870,000
Saudi Arabia	785	515	1,690,000	3,270	2,150	6,470,000
South Africa	5,270	3,530	11,600,000	93,400	62,700	172,000,000
Total	11,000	7,400	22,400,000	242,000	163,000	445,000,000

-- 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 AUGUST 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	2,780	2,370	\$10,700,000	27,700	23,100	88,000,000
Korea, Republic of	500	400	1,970,000	1,500	1,210	4,980,000
Mexico	856	688	2,210,000	7,180	5,840	16,300,000
Norway	--	--	--	2,880	2,370	10,200,000
United Kingdom	--	--	--	72	61	43,200
Total	4,130	3,460	14,900,000	40,000	33,100	122,000,000
Medium carbon, 1%-2% C:						
Brazil	777	610	3,040,000	1,240	988	4,820,000
China	8,960	7,060	32,400,000	34,400	27,300	101,000,000
France	--	--	--	80	66	345,000
Georgia	--	--	--	4,140	3,340	9,600,000
Korea, Republic of	2,000	1,600	7,830,000	5,100	4,120	15,900,000
Mexico	1,040	837	2,090,000	7,780	6,260	14,100,000
Norway	--	--	--	1,170	962	3,420,000
South Africa	635	516	2,700,000	23,600	19,100	59,900,000
Turkey	--	--	--	20	16	94,200
Ukraine	--	--	--	395	354	1,120,000
Total	13,400	10,600	48,100,000	78,000	62,500	211,000,000
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	--	--	--	501	385	1,410,000
Brazil	80	61	227,000	1,440	1,090	2,970,000
British Virgin Islands	--	--	--	176	132	418,000
Canada	--	--	--	18	13	24,000
China	4,300	3,250	11,800,000	30,500	23,300	67,300,000
Georgia	--	--	--	488	415	1,170,000
India	3,000	2,270	8,610,000	13,500	10,000	33,100,000
Korea, Republic of	6,300	4,750	17,500,000	12,100	9,200	28,200,000
Macedonia	4,930	3,950	14,000,000	5,480	4,390	15,500,000
Mexico	19	15	76,200	41	32	145,000
Russia	--	--	--	3,020	2,300	8,370,000
South Africa	13,600	10,500	38,200,000	121,000	93,300	263,000,000
Spain	--	--	--	2,740	2,100	7,090,000
Ukraine	615	480	1,710,000	13,900	10,900	32,200,000
Venezuela	--	--	--	284	211	533,000
Total	32,800	25,300	92,100,000	206,000	158,000	461,000,000
Grand total	50,400	39,300	155,000,000	327,000	256,000	803,000,000

-- 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 AUGUST 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	10,300	5,080	\$4,560,000	46,200	23,700	16,400,000
Brazil	--	--	--	51,700	27,000	14,700,000
China	--	--	--	661	415	421,000
Gabon	44,600	23,200	12,800,000	125,000	69,500	34,700,000
Ghana	--	--	--	12,500	6,230	5,580,000
South Africa	--	--	--	30,300	14,300	18,400,000
Total	54,800	28,300	17,300,000	267,000	141,000	90,100,000
Grand total	54,800	28,300	17,300,000	373,000	191,000	109,000,000

-- 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 AUGUST 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	40	\$129,000	291	822,000
Brazil	21	36,300	172	262,000
China	--	--	507	565,000
Germany	9	14,500	35	85,600
India	--	--	7	15,100
Japan	363	570,000	2,880	4,390,000
Mexico	--	--	3,000	1,420,000
Singapore	--	--	96	163,000
South Africa	2,360	5,200,000	4,830	10,400,000
Other (2 countries)	--	--	4	18,700
Total	2,800	5,950,000	16,200	24,400,000

-- 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 AUGUST 2008¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,320	\$5,520,000	10,000	\$34,200,000
Germany	--	--	500	1,470,000
New Caledonia	--	--	120	348,000
South Africa	95	253,000	586	1,590,000
Total	1,410	5,770,000	11,200	37,600,000
Unwrought powder:				
China	120	666,000	2,620	10,900,000
Korea, Republic of	--	--	44	143,000
Mexico	--	--	41	217,000
South Africa	415	1,960,000	3,010	13,100,000
Total	535	2,620,000	5,710	24,400,000
Unwrought, other:				
China	734	2,780,000	3,280	10,200,000
Germany	102	384,000	1,130	4,780,000
Russia	--	--	34	129,000
South Africa	76	348,000	76	348,000
United Kingdom	57	270,000	480	2,150,000
Total	969	3,790,000	5,000	17,600,000
Other manganese, wrought:				
Belgium	--	--	(3)	2,350
Canada	--	--	(3)	4,210
China	37	135,000	224	763,000
Japan	--	--	(3)	5,160
Mexico	--	--	426	2,530,000
Singapore	--	--	(3)	2,100
United Kingdom	--	--	(3)	5,860
Total	37	135,000	650	3,310,000
Grand total	2,950	12,300,000	22,600	82,900,000

-- 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: Imports for consumption of metallic waste and scrap totaled 37 metric tons, all of which was from Canada, to give a year-to-date total of 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 AUGUST 2008¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	August	Year to date	August	Year to date	August	Year to date	August	Year to date
Argentina	--	--	--	--	--	--	--	4
Australia	--	--	--	10	--	--	--	--
Belgium	--	--	--	--	--	--	141	250
Brazil	--	1	--	--	--	96	--	--
Canada	105	921	1,280	8,650	--	298	15	82
Chile	--	--	--	13	--	--	--	--
China	802	29,200	--	--	--	--	34	468
Colombia	--	--	--	--	--	--	--	1
France	--	--	--	--	--	--	1	1
Germany	19	668	--	--	--	--	3	122
Hong Kong	--	--	--	--	--	--	--	330
India	--	--	--	--	--	--	25	184
Indonesia	--	--	--	--	--	--	19	19
Israel	--	16	--	--	--	--	--	--
Italy	--	--	--	--	--	203	--	11
Japan	--	2	--	6	--	217	211	800
Korea, Republic of	52	264	--	--	--	--	2	2
Latvia	23	23	--	--	--	--	--	--
Malaysia	--	5	--	--	--	--	--	--
Mexico	--	10	4	3,170	46	2,010	19	26
Netherlands	18	18	--	796	--	429	--	--
Niger	--	--	--	--	--	405	--	--
Peru	--	--	--	--	--	--	1	42
Poland	--	--	--	--	--	--	--	20
Russia	--	13	--	--	--	--	--	--
South Africa	--	--	--	--	--	--	--	47
Spain	--	--	--	502	--	1,640	--	--
Sweden	--	12	--	--	--	--	--	--
Taiwan	--	--	--	--	--	--	97	141
United Kingdom	--	--	--	--	--	--	--	2
Vietnam	--	--	--	--	--	--	19	71
Total	1,020	31,100	1,290	13,100	46	5,300	588	2,620

-- 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 444 metric tons (t), of which 307 t went to Canada and 137 t went to Ireland, to give a year-to-date total of 4,230 t.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN AUGUST 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	138	\$165	Mexico 138; \$165	2,910	\$2,340	Mexico 1,290; \$960
Manganites, manganates, and other permanganates	--	--	--	69	70	Poland 69; \$70
Potassium permanganate	36	101	India 36; \$101	526	1,380	Czech Republic 297; \$778
Sodium permanganate	52	106	China 52; \$106	265	598	China 247; \$528
Sulfates, basket category, including manganese sulfate	3,310	3,960	China 2,000; \$2,100	27,900	26,600	China 10,800; \$9,780
Exports:						
Manganese dioxide	843	1,340	Canada 328; \$296	7,520	8,760	Canada 3,910; \$2,580
Manganese oxides other than dioxide	1,530	1,500	Canada 799; \$351	10,700	11,100	Canada 6,320; \$2,740
Manganites, manganates, and other permanganates	21	40	Mexico 19; \$36	210	543	Mexico 116; \$218
Potassium permanganate	406	938	Belgium 308; \$611	2,270	5,060	Belgium 1,720; \$3,260
Sodium permanganate	82	201	Belgium 36; \$65	996	2,460	Belgium 357; \$646
Sulfates, basket category, including manganese sulfate	1,770	2,050	Canada 1,200; \$865	18,200	19,700	Canada 13,500; \$11,800

-- 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.