

Mineral Industry Surveys

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MANGANESE IN JANUARY 2008

Preliminary data (gross weight) for January 2008 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 17,000 metric tons (t), according to the U.S. Geological Survey. This was about the same as the revised amount consumed in December 2007. Corresponding industry stocks of

ore at the end of the month were 110,000 t, which was a 3% decrease from that at the end of December 2007. These data include estimates for annual respondents on the basis of 2007 data.

Data for U.S. imports and exports for January through December 2007 are published in this issue.

Ferroalloy Prices, manganese content

	High-carbon ferromanganese ¹ (dollars per gross ton)	Medium-carbon ferromanganese ¹ (cents per pound)	Silicomanganese ¹ (cents per pound)	Manganese metal ² (cents per pound)
January 3	1,875.00-1,950.00	160.00-170.00	81.00-83.00	180.00-190.00
January 10	1,960.00-1,990.00	160.00-170.00	82.00-85.00	180.00-190.00
January 17	2,000.00-2,050.00	170.00-175.00	82.00-85.00	180.00-190.00
January 24	2,085.00-2,150.00	175.00-180.00	83.00-85.00	180.00-190.00
January 31	2,200.00-2,300.00	175.00-180.00	83.00-85.00	185.00-195.00

Ore Prices, dollars per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
January 3	9.50-10.00	11.50-12.00
January 10	10.00-10.50	11.50-12.50
January 17	10.00-10.50	11.50-12.50
January 24	10.00-10.50	11.50-12.50
January 31	10.00-10.50	11.50-12.50

¹Source: Platts Metals Week, dealer import price.

²Source: Ryan's Notes, North American transaction price.

³To 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
2006:						
December	32,300	53,600	85,900	135	1,060	1,190
January-December	292,000	578,000	870,000	1,120	21,700	22,800
2007:						
January	24,500	40,300	64,800	77	1,180	1,250
February	48,500	35,700	84,200	144	7,350	7,500
March	20,300	36,000	56,400	29	694	724
April	15,600	44,800	60,400	57	1,030	1,090
May	37,200	66,500	104,000	93	6,110	6,200
June	26,000	47,200	73,300	163	4,250	4,410
July	25,600	30,000	55,700	93	1,830	1,930
August	44,300	66,100	110,000	95	836	931
September	3,520	48,900	52,500	141	692	833
October	40,600	37,100	77,700	7,290	3,510	10,800
November	18,300	48,000	66,300	3,060	392	3,450
December	11,400	61,600	73,000	3,120	558	3,670
Total	316,000	562,000	878,000	14,300	28,400	42,800

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 DECEMBER 2007¹

(Metric tons)

Source				Year to date		
	Gross weight	Mn content	Customs value ²	Gross weight	Mn content	Customs value ²
Australia	1,640	1,110	\$2,430,000	36,300	24,700	\$40,200,000
Canada	--	--	--	912	652	866,000
China	--	--	--	34	33	115,000
Georgia	2,500	1,800	4,060,000	52,600	37,600	68,500,000
Korea, Republic of	1,500	942	2,220,000	7,430	4,810	10,100,000
Macedonia	5,000	3,320	7,930,000	29,900	19,900	37,100,000
Mexico	1,320	871	1,130,000	15,700	10,300	12,600,000
Morocco	--	--	--	20	20	6,000
Netherlands	--	--	--	21	13	24,400
Norway	6,150	3,650	9,490,000	55,700	34,600	72,700,000
Romania	16,700	11,600	27,200,000	37,800	26,500	49,900,000
Russia	1,630	1,100	2,940,000	7,160	4,990	10,600,000
Saudi Arabia	--	--	--	3,540	2,250	3,350,000
South Africa	15,000	9,900	21,800,000	166,000	110,000	181,000,000
Spain	--	--	--	1,500	992	2,430,000
Total	51,400	34,300	79,200,000	414,000	278,000	489,000,000

-- 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 changes incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN DECEMBER 2007¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	3,070	2,600	\$7,960,000	32,100	27,000	\$57,400,000
Japan	--	--	--	1,100	935	1,400,000
Korea, Republic of	2,000	1,630	4,360,000	4,200	3,390	7,210,000
Mexico	694	557	816,000	6,560	5,320	7,600,000
Norway	40	24	79,500	1,170	934	2,510,000
Russia	--	--	--	60	50	189,000
South Africa	--	--	--	5,400	4,410	4,990,000
Total	5,810	4,820	13,200,000	50,600	42,000	81,300,000
Medium carbon, 1%-2% C:						
China	937	749	510,000	11,600	9,270	10,800,000
Japan	--	--	--	1,700	1,450	1,990,000
Korea, Republic of	1,500	1,220	3,000,000	5,300	4,290	7,090,000
Mexico	1,760	1,410	1,800,000	9,900	7,950	9,930,000
Norway	325	267	782,000	516	424	1,100,000
South Africa	3,860	3,130	6,310,000	24,800	20,100	34,300,000
Spain	--	--	--	60	48	107,000
Turkey	--	--	--	40	38	75,900
Total	8,380	6,780	12,400,000	53,900	43,600	65,400,000
High carbon:						
Australia	--	--	--	3,410	2,500	3,880,000
Brazil	500	375	677,000	2,220	1,710	1,980,000
Canada	19	14	10,300	19	14	10,300
China	2,620	2,000	3,640,000	32,600	24,800	31,200,000
Egypt	--	--	--	1,470	1,100	1,440,000
France	--	--	--	1,300	1,050	970,000
Georgia	--	--	--	2,010	1,580	1,910,000
India	500	362	585,000	2,450	1,850	2,880,000
Mexico	--	--	--	370	295	414,000
Poland	--	--	--	778	595	1,090,000
Romania	--	--	--	191	149	248,000
Saudi Arabia	--	--	--	2,040	1,290	1,470,000
South Africa	11,100	8,600	16,100,000	152,000	117,000	150,000,000
Spain	--	--	--	3,250	2,490	4,870,000
Ukraine	--	--	--	5,010	3,870	7,290,000
Venezuela	--	--	--	1,540	1,090	1,550,000
Total	14,800	11,400	21,000,000	211,000	162,000	211,000,000
Grand total	29,000	23,000	46,600,000	315,000	247,000	358,000,000

-- 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 changes 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 DECEMBER 2007^{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	--	--	--	27,500	12,500	\$2,940,000
Canada	--	--	--	24,500	5,380	1,000,000
China	--	--	--	31,500	7,830	1,060,000
Gabon	--	--	--	46,600	20,300	3,860,000
India	--	--	--	2	1	4,630
Mexico	2,870	1,030	\$345,000	5,980	2,150	712,000
South Africa	--	--	--	60,400	26,900	4,370,000
Total	2,870	1,030	345,000	196,000	75,000	13,900,000
47% or more manganese:						
Australia	--	--	--	43,000	22,500	6,300,000
Belgium	--	--	--	64	42	25,800
Brazil	6,080	3,040	365,000	39,600	20,000	3,950,000
China	152	98	83,000	4,760	2,760	630,000
Gabon	12,100	6,710	1,540,000	261,000	149,000	27,300,000
Mexico	--	--	--	3,040	1,520	183,000
South Africa	--	--	--	54,200	26,700	5,230,000
Total	18,300	9,850	1,990,000	405,000	223,000	43,700,000
Grand total	21,200	10,900	2,340,000	602,000	298,000	57,600,000

-- 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 changes 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 DECEMBER 2007¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Australia	272	\$368,000	16,300	\$21,700,000
Belgium	20	46,300	370	920,000
Brazil	9	14,900	118	178,000
China	282	315,000	9,050	9,520,000
Colombia	--	--	59	47,400
Germany	15	24,900	95	187,000
India	--	--	5	13,000
Japan	126	160,000	3,560	4,860,000
Mexico	--	--	347	577,000
Singapore	--	--	82	118,000
South Africa	143	216,000	161	274,000
United Kingdom	--	--	(3)	7,070
Total	867	1,150,000	30,100	38,400,000

-- 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 changes 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 DECEMBER 2007¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	2,870	\$8,440,000	23,100	\$59,800,000
Hong Kong	--	--	220	752,000
South Africa	133	400,000	1,500	3,180,000
Total	3,000	8,840,000	24,800	63,800,000
Unwrought powder:				
China	420	1,310,000	2,260	6,480,000
South Africa	532	1,540,000	4,450	8,720,000
Total	952	2,850,000	6,700	15,200,000
Unwrought, other:				
China	101	415,000	2,560	6,510,000
Germany	220	929,000	1,420	4,840,000
Hong Kong	20	68,400	20	68,400
Russia	--	--	31	171,000
Spain	--	--	181	380,000
United Kingdom	18	72,300	116	499,000
Total	359	1,480,000	4,330	12,500,000
Other manganese, wrought:				
Canada	--	--	6	40,700
China	--	--	372	914,000
France	--	--	36	529,000
Japan	--	--	(3)	2,100
Mexico	20	100,000	420	1,870,000
Spain	--	--	50	127,000
Taiwan	--	--	(3)	14,300
United Kingdom	--	--	75	388,000
Total	20	100,000	959	3,890,000
Grand total	4,330	13,300,000	36,800	95,300,000

-- 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 changes incurred in bringing the material into the United States.

³Less than ½ unit.

Note: Imports for consumption of metallic waste and scrap totaled 34 metric tons, all of which was from Canada, to give a year-to-date total of 1,140 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 DECEMBER 2007¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	December	Year to date	December	Year to date	December	Year to date	December	Year to date
Argentina	--	--	--	--	--	--	--	6
Australia	--	--	--	--	--	3	--	8
Belgium	--	8	--	--	--	--	--	615
Brazil	--	--	--	--	--	21	25	26
Canada	46	1,090	57	3,000	71	2,960	4	168
Chile	--	--	--	--	--	--	--	8
China	6,150	26,700	--	--	--	--	--	235
Colombia	--	--	--	--	--	--	--	138
Dominican Republic	--	--	--	--	--	32	--	--
France	--	--	--	--	--	--	--	5
Germany	--	469	--	--	--	--	20	178
Hong Kong	--	65	--	--	--	--	20	469
India	--	--	--	--	--	--	111	307
Ireland	--	--	--	29	--	--	--	--
Israel	--	--	--	--	--	--	--	8
Jamaica	--	--	--	--	--	--	--	(3)
Japan	--	--	--	5	--	--	122	736
Korea, Republic of	30	124	--	--	--	--	--	3
Malaysia	--	5	--	--	--	--	--	11
Mexico	--	50	--	1,640	18	301	--	64
Poland	--	18	--	--	--	--	--	--
Saudi Arabia	--	--	--	943	--	--	--	--
South Africa	--	--	--	--	--	--	--	5
Sweden	--	--	--	--	--	--	--	26
Taiwan	--	--	--	--	--	--	--	97
United Kingdom	--	--	--	5	--	--	--	12
Venezuela	--	--	--	--	--	--	--	28
Vietnam	--	209	--	--	--	--	13	123
Total	6,230	28,700	57	5,620	89	3,310	315	3,280

-- 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.

³Less than ½ unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 176 metric tons, of which 108 went to Canada and 68 went to Colombia, to give a year-to-date total of 23,500 metric tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN DECEMBER 2007, 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	187	\$181	Mexico 105; \$48	4,750	\$3,060	Mexico 2,920; \$1,330
Manganites, manganates, and other permanganates	20	23	Poland 20; \$23	20	23	Poland 20; \$23
Potassium permanganate	114	280	India 54; \$131	1,120	2,680	India 554; \$1,340
Sodium permanganate	35	71	China 35; \$71	286	514	China 251; \$442
Sulfates, basket category, including manganese sulfate	4,430	2,480	China 2,900; \$1,390	39,700	22,100	China 19,400; \$9,040
Exports:						
Manganese dioxide	1,140	974	Canada 629; \$334	9,330	8,640	Canada 5,060; \$2,740
Manganese oxides other than dioxide	747	652	Canada 404; \$185	17,300	11,700	Canada 12,400; \$4,930
Manganites, manganates, and other permanganates	6	16	Canada 6; \$16	74	188	Canada 65; \$160
Potassium permanganate	70	220	Australia 31; \$88	2,290	5,940	Belgium 1,090; \$1,930
Sodium permanganate	36	112	China 29; \$81	1,330	3,390	Spain 398; \$1,010
Sulfates, basket category, including manganese sulfate	3,340	2,440	Canada 2,550; \$1,460	28,000	22,500	Canada 20,200; \$12,900

-- 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.