

Mineral Industry Surveys

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MANGANESE IN APRIL 2007

Preliminary data (gross weight) for April 2007 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 31,500 metric tons (t), according to the U.S. Geological Survey. This was a 155% increase from that in March 2007.

Corresponding industry stocks of ore at the end of the month were 121,000 t, which was an 11% increase from those at the end of March 2007. These data include estimates for annual respondents on the basis of 2006 data.

U.S. trade data for March 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)
April 5	980.00-1,000.00	73.00-77.00	59.00-62.00	185.00-190.00
April 12	980.00-1,000.00	75.00-77.00	59.00-61.00	185.00-190.00
April 19	980.00-1,000.00	75.00-77.00	56.00-59.00	185.00-190.00
April 26	980.00-1,000.00	75.00-77.00	56.00-59.00	185.00-190.00

Ore Prices, dollars per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
April 5	2.55-2.65	2.80-2.90
April 12	2.55-2.65	2.80-2.90
April 19	2.65-2.75	2.90-3.00
April 26	2.80-3.20	3.20-3.60

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:						
March	4,970	47,400	52,300	63	1,660	1,720
January-March	52,700	126,000 ^r	178,000 ^r	196	4,540	4,740
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
Total	93,300	112,000	205,000	250	9,220	9,480

^rRevised.

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 MARCH 2007¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	--	--	--	10,400	6,950	\$6,420,000
Mexico	1,300	850	\$930,000	3,600	2,350	2,550,000
Norway	--	--	--	9,850	6,220	9,320,000
Romania	9,560	6,310	7,610,000	14,100	9,630	11,200,000
South Africa	3,720	2,440	2,620,000	27,600	18,300	18,900,000
Total	14,600	9,600	11,200,000	65,500	43,400	48,400,000

-- 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.

Source: U.S. Census Bureau.

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

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	537	471	\$737,000	10,200	8,470	\$11,700,000
Korea, Republic of	2,000	1,600	2,230,000	2,000	1,600	2,230,000
Mexico	550	451	591,000	1,690	1,360	1,840,000
Russia	--	--	--	60	50	189,000
South Africa	5,200	4,220	4,680,000	5,400	4,410	4,990,000
Total	8,290	6,740	8,240,000	19,300	15,900	21,000,000
Medium carbon, 1% -2% C:						
China	500	404	580,000	4,080	3,290	4,150,000
Japan	1,700	1,450	1,990,000	1,700	1,450	1,990,000
Korea, Republic of	--	--	--	2,500	2,030	2,590,000
Mexico	797	640	846,000	2,320	1,850	2,170,000
South Africa	635	511	788,000	5,790	4,700	6,710,000
Total	3,630	3,000	4,200,000	16,400	13,300	17,600,000
High carbon:						
Australia	--	--	--	503	384	312,000
China	2,790	2,120	2,210,000	10,800	8,280	7,750,000
France	--	--	--	1,300	1,050	970,000
South Africa	16,100	12,500	11,300,000	28,200	21,800	19,400,000
Total	18,900	14,600	13,500,000	40,800	31,500	28,400,000
Grand total	30,800	24,300	26,000,000	76,500	60,700	67,000,000

-- 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 MARCH 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
China	20	9	\$6,370	20	9	6,370
Gabon	--	--	--	6,640	2,920	433,000
South Africa	900	360	53,700	900	360	53,700
Total	920	369	60,100	35,000	15,800	3,430,000
47% or more manganese:						
Australia	--	--	--	16,500	8,720	2,530,000
Brazil	1,650	823	98,800	8,770	4,490	1,110,000
China	575	287	61,600	1,320	970	144,000
Gabon	--	--	--	58,200	42,300	7,480,000
South Africa	35,600	17,700	3,250,000	35,600	17,700	3,250,000
Total	37,900	18,800	3,410,000	120,000	74,200	14,500,000
Grand total	38,800	19,200	3,470,000	155,000	90,000	17,900,000

-- 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 MARCH 2007¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Australia	692	\$1,090,000	2,630	\$3,710,000
Belgium	29	67,700	53	189,000
Brazil	--	--	6	9,830
China	872	911,000	2,250	2,370,000
Colombia	--	--	4	7,630
Germany	1	6,860	1	9,800
Japan	282	391,000	506	696,000
Mexico	--	--	13	9,240
Singapore	7	11,500	33	34,500
Total	1,880	2,480,000	5,500	7,030,000

-- 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 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN MARCH 2007¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	857	\$1,280,000	4,390	\$6,500,000
South Africa	210	391,000	457	846,000
Total	1,070	1,670,000	4,850	7,350,000
Unwrought powder:				
China	197	330,000	523	812,000
South Africa	493	891,000	1,240	2,210,000
Total	690	1,220,000	1,770	3,020,000
Unwrought, other:				
China	99	177,000	387	621,000
Germany	90	183,000	422	882,000
Spain	44	83,300	60	92,200
Total	234	444,000	870	1,590,000
Other manganese, wrought:				
France	10	126,000	18	219,000
Japan	--	--	(3)	2,100
Mexico	41	77,600	114	225,000
Spain	(3)	42,400	50	127,000
Total	51	246,000	182	573,000
Grand total	2,040	3,580,000	7,660	12,500,000

-- 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 1/2 unit.

Note: Imports for consumption of metallic waste and scrap totaled 112 metric tons, all of which was from Canada, to give a year-to-date total of 398.

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 MARCH 2007¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	March	Year to date	March	Year to date	March	Year to date	March	Year to date
Argentina	--	--	--	--	--	--	--	3
Australia	--	--	--	--	1	1	--	--
Belgium	--	8	--	--	--	--	76	303
Brazil	--	--	--	--	--	--	1	1
Canada	20	159	62	1,790	334	760	2	5
China	--	--	--	--	--	--	--	26
Colombia	--	--	--	--	--	--	137	137
Germany	19	244	--	--	--	--	16	18
Hong Kong	--	--	--	--	--	--	--	74
India	--	--	--	--	--	--	26	40
Ireland	--	--	5	14	--	--	--	--
Israel	--	--	--	--	--	--	--	8
Japan	--	--	--	--	--	--	--	213
Korea, Republic of	--	--	--	--	--	--	--	1
Mexico	20	20	--	--	7	147	--	5
Sweden	--	--	--	--	--	--	--	16
Taiwan	--	--	--	--	--	--	65	65
Vietnam	--	69	--	--	--	--	--	--
Total	59	500	68	1,800	343	909	322	915

-- 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 117 metric tons, all of which went to Canada, to give a year-to-date total of 7,960 metric tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN MARCH 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	363	\$261	Mexico 266; \$106	1,050	\$715	Mexico 811; \$366
Manganites, manganates, and other permanganates	--	--	--	--	--	--
Potassium permanganate	75	181	Czech Republic 57; \$130	276	664	India 142; \$341
Sodium permanganate	--	--	--	82	129	China 82; \$129
Sulfates, basket category, including manganese sulfate	3,600	1,670	China 2,710; \$889	12,600	5,880	China 5,550; \$2,300
Exports:						
Manganese dioxide	579	679	Canada 204; \$126	1,970	1,990	Canada 1,010; \$550
Manganese oxides other than dioxide	1,810	1,150	Canada 856; \$318	3,380	2,420	Canada 1,740; \$703
Manganites, manganates, and other permanganates	8	37	Canada 5; \$13	22	58	Canada 13; \$30
Potassium permanganate	292	692	Belgium 211; \$371	751	1,690	Belgium 403; \$697
Sodium permanganate	296	669	Spain 175; \$388	595	1,300	Spain 262; \$553
Sulfates, basket category, including manganese sulfate	2,600	2,440	Canada 1,409; \$1,010	7,090	6,270	Canada 4,200; \$2,950

-- 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.