

Mineral Industry Surveys

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MANGANESE IN MAY 2007

Preliminary data (gross weight) for May 2007 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 34,400 metric tons (t), according to the U.S. Geological Survey. This was a 9% increase from that in April 2007.

Corresponding industry stocks of ore at the end of the month were 115,000 t, which was a 5% decrease from those at the end of April 2007. These data include estimates for annual respondents on the basis of 2006 data.

U.S. trade data for April 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)
May 3	980.00-1,000.00	75.00-77.00	58.00-61.00	185.00-195.00
May 10	1,000.00-1,040.00	79.00-82.00	60.00-65.00	190.00-195.00
May 17	1,020.00-1,100.00	80.00-83.00	64.00-70.00	220.00-230.00
May 24	1,250.00-1,350.00	85.00-88.00	77.00-82.00	220.00-230.00
May 31	1,450.00-1,550.00	90.00-95.00	87.00-95.00	243.00-247.00

Ore Prices, dollars per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
May 3	3.20-3.60	3.60-4.00
May 10	3.90-4.15	4.20-4.30
May 17	4.05-4.20	4.35-4.60
May 24	4.30-4.50	4.70-5.00
May 31	4.60-4.80	4.90-5.20

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:						
April	30,300	34,800	65,200	25	661	686
January-April	83,000	161,000	244,000	221	5,200	5,420
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
Total	109,000	157,000	266,000	307	10,300	10,600

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 APRIL 2007¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	3,840	2,690	\$2,920,000	14,200	9,640	\$9,330,000
Canada	442	321	340,000	442	321	340,000
Georgia	2,360	1,540	2,150,000	2,360	1,540	2,150,000
Macedonia	1,930	1,280	1,720,000	1,930	1,280	1,720,000
Mexico	1,400	916	1,110,000	5,000	3,270	3,660,000
Morocco	20 ³	20 ³	6,000	20	20	6,000
Norway	3,150	2,080	3,540,000	13,000	8,300	12,900,000
Romania	--	--	--	14,100	9,630	11,200,000
South Africa	20,400	13,700	15,000,000	48,000	31,900	33,900,000
Total	33,600	22,500	26,700,000	99,100	65,900	75,200,000

-- 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.

³All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

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

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	1,320	1,190	\$2,160,000	11,500	9,660	\$13,900,000
Korea, Republic of	--	--	--	2,000	1,600	2,230,000
Mexico	925	759	994,000	2,620	2,120	2,840,000
Russia	--	--	--	60	50	189,000
South Africa	--	--	--	5,400	4,410	4,990,000
Total	2,250	1,950	3,160,000	21,600	17,800	24,100,000
Medium carbon, 1% -2% C:						
China	--	--	--	4,080	3,290	4,150,000
Japan	--	--	--	1,700	1,450	1,990,000
Korea, Republic of	--	--	--	2,500	2,030	2,590,000
Mexico	855	690	642,000	3,170	2,540	2,810,000
South Africa	1,900	1,540	2,110,000	7,690	6,240	8,820,000
Total	2,760	2,230	2,750,000	19,100	15,500	20,400,000
High carbon:						
Australia	--	--	--	503	384	312,000
Brazil	510	401	372,000	510	401	372,000
China	2,580	1,980	2,040,000	13,400	10,300	9,790,000
Egypt	1,470	1,100	1,440,000	1,470	1,100	1,440,000
France	--	--	--	1,300	1,050	970,000
South Africa	15,600	12,100	12,200,000	43,700	33,900	31,600,000
Total	20,100	15,600	16,000,000	60,900	47,100	44,500,000
Grand total	25,100	19,700	21,900,000	102,000	80,500	89,000,000

-- 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 APRIL 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	403	82	\$12,300	423	91	18,600
Gabon	--	--	--	6,640	2,920	433,000
South Africa	--	--	--	900	360	53,700
Total	403	82	12,300	35,400	15,800	3,440,000
47% or more manganese:						
Australia	--	--	--	16,500	8,720	2,530,000
Brazil	1,550	775	93,000	10,300	5,270	1,200,000
China	194	114	109,000	1,510	1,080	253,000
Gabon	22,700	11,300	1,360,000	80,900	53,700	8,840,000
South Africa	--	--	--	35,600	17,700	3,250,000
Total	24,400	12,200	1,560,000	145,000	86,500	16,100,000
Grand total	24,800	12,300	1,580,000	180,000	102,000	19,500,000

-- 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 APRIL 2007

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Australia	3,510	\$4,650,000	6,140	\$8,360,000
Belgium	40	93,300	93	282,000
Brazil	20	11,100	26	21,000
China	1,690	1,760,000	3,940	4,120,000
Colombia	--	--	4	7,630
Germany	3	23,700	4	33,500
Japan	264	370,000	770	1,070,000
Mexico	--	--	13	9,240
Singapore	--	--	33	34,500
Total	5,530	6,900,000	11,000	13,900,000

-- 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 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 APRIL 2007¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,490	\$2,690,000	5,880	\$9,190,000
South Africa	285	545,000	742	1,390,000
Total	1,780	3,240,000	6,620	10,600,000
Unwrought powder:				
China	233	455,000	756	1,270,000
South Africa	293	541,000	1,540	2,750,000
Total	526	996,000	2,290	4,010,000
Unwrought, other:				
China	236	468,000	623	1,090,000
Germany	24	45,100	446	927,000
Spain	--	--	60	92,200
Total	260	514,000	1,130	2,110,000
Other manganese, wrought:				
France	4	64,400	21	283,000
Japan	--	--	(3)	2,100
Mexico	--	--	114	225,000
Spain	--	--	50	127,000
Total	4	64,400	186	638,000
Grand total	2,570	4,810,000	10,200	17,300,000

-- 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 23 metric tons, all of which was from Canada, to give a year-to-date total of 421 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 APRIL 2007¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	April	Year to date	April	Year to date	April	Year to date	April	Year to date
Argentina	--	--	--	--	--	--	--	3
Australia	--	--	--	--	--	1	--	--
Belgium	--	8	--	--	--	--	39	343
Brazil	--	--	--	--	--	--	--	1
Canada	20	178	117	1,910	615	1,380	1	5
Chile	--	--	--	--	--	--	8	8
China	--	--	--	--	--	--	--	26
Colombia	--	--	--	--	--	--	1	138
Germany	--	244	--	--	--	--	35	52
Hong Kong	--	--	--	--	--	--	61	136
India	--	--	--	--	--	--	16	56
Ireland	--	--	4	18	--	--	--	--
Israel	--	--	--	--	--	--	--	8
Japan	--	--	--	--	--	--	2	215
Korea, Republic of	34	34	--	--	--	--	--	1
Mexico	--	20	--	--	--	147	--	5
Sweden	--	--	--	--	--	--	--	16
Taiwan	--	--	--	--	--	--	--	65
United Kingdom	--	--	5	5	--	--	3	3
Vietnam	60	129	--	--	--	--	--	--
Total	114	614	127	1,930	615	1,520	167	1,080

-- 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 451 metric tons, of which 289 went to Mexico and 162 to Canada to give a year-to-date total of 8,410 metric tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN APRIL 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	276	\$212	Mexico 205; \$83	1,320	\$926	Mexico 1,020; \$449
Manganites, manganates, and other permanganates	--	--	--	--	--	--
Potassium permanganate	117	284	India 89; \$218	393	948	India 232; \$558
Sodium permanganate	--	--	--	82	129	China 82; \$129
Sulfates, basket category, including manganese sulfate	3,330	1,620	China 2,400; \$881	15,900	7,510	China 7,950; \$3,180
Exports:						
Manganese dioxide	1,020	1,150	Canada 306; \$173	2,980	3,140	Canada 1,320; \$723
Manganese oxides other than dioxide	1,330	1,000	Canada 737; \$303	4,710	3,420	Canada 2,470; \$1,010
Manganites, manganates, and other permanganates	6	16	Canada 6; \$16	28	74	Canada 19; \$46
Potassium permanganate	48	125	Canada 25; \$69	799	1,810	Belgium 403; \$697
Sodium permanganate	128	270	Spain 73; \$137	723	1,570	Spain 335; \$690
Sulfates, basket category, including manganese sulfate	1,740	1,070	Canada 1,090; \$464	8,820	7,340	Canada 5,290; \$3,420

-- 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.