

Mineral Industry Surveys

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MANGANESE IN JANUARY 2005

On a gross-weight basis, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 32,600 metric tons (t) in January 2005, which was a 3% increase from that of December 2004, according to the U.S. Geological Survey. This figure increases to 35,000 t when estimates for annual respondents are added on the basis of 2003 data. Corresponding industry stocks of ore at the end of the month were 165,000 t, which includes an estimate for annual respondents on the basis of 2003 data. (Data for the most recent 13 months are plotted in the graph on page 2.)

Foreign trade data for January will appear in a subsequent report. The following comparisons of trade data were made on the basis of manganese content. The data for December 2004 tabulated in this report indicate that the total exports of 23,700 t were 19 times those of the prior month, owing to significant increases in manganese ore, ferromanganese, and metal exports. Manganese imports were 80,900 t, which was a decrease of 22%, compared with those of November. The decrease in manganese imports was based on significant decreases in manganese ore, ferroalloy, and metal imports.

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 6	880.00-850.00	78.00-82.00	40.00-43.00	95.00-100.00
January 13	880.00-850.00	76.00-80.50	40.00-43.00	95.00-100.00
January 20	880.00-950.00	77.00-80.00	40.00-43.00	95.00-100.00
January 27	800.00-850.00	77.00-80.00	40.00-43.00	95.00-100.00

Ore Prices, dollar per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
January 6	3.00-3.50	4.00-4.50
January 13	3.00-3.50	4.00-4.50
January 20	3.00-3.50	4.00-4.50
January 27	3.00-3.50	4.00-4.50

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
2003:						
December	3,760 ^r	43,300	47,100	592	564	1,160
January-December	204,000	374,000 ^r	578,000 ^r	9,110	11,100	20,200
2004:						
January	13,100	37,500	50,600	653	796	1,450
February	20,600	33,100	53,700	1,920	745	2,660
March	34,800	29,300 ³	64,100	12,400	559	13,000
April	3,720	57,300 ³	61,000	733	1,300	2,030
May	44,200	25,000	69,200	1,990	643	2,630
June	23,800	45,200	69,000	3,210	507	3,720
July	1,130	76,300	77,400	7,260	701	7,960
August	4,410	99,300	104,000	1,940	543	2,490
September	25,200	54,700	79,900	2,580	497	3,080
October	35,200	59,700	95,000	7,140	776	7,920
November	23,800	80,100	104,000	376	845	1,220
December	19,600	61,400	80,900	21,300	2,410	23,700
Total	250,000	659,000	908,000	61,500	10,300	71,800

^rRevised.

¹Data are 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.

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

Source: U.S. Census Bureau.

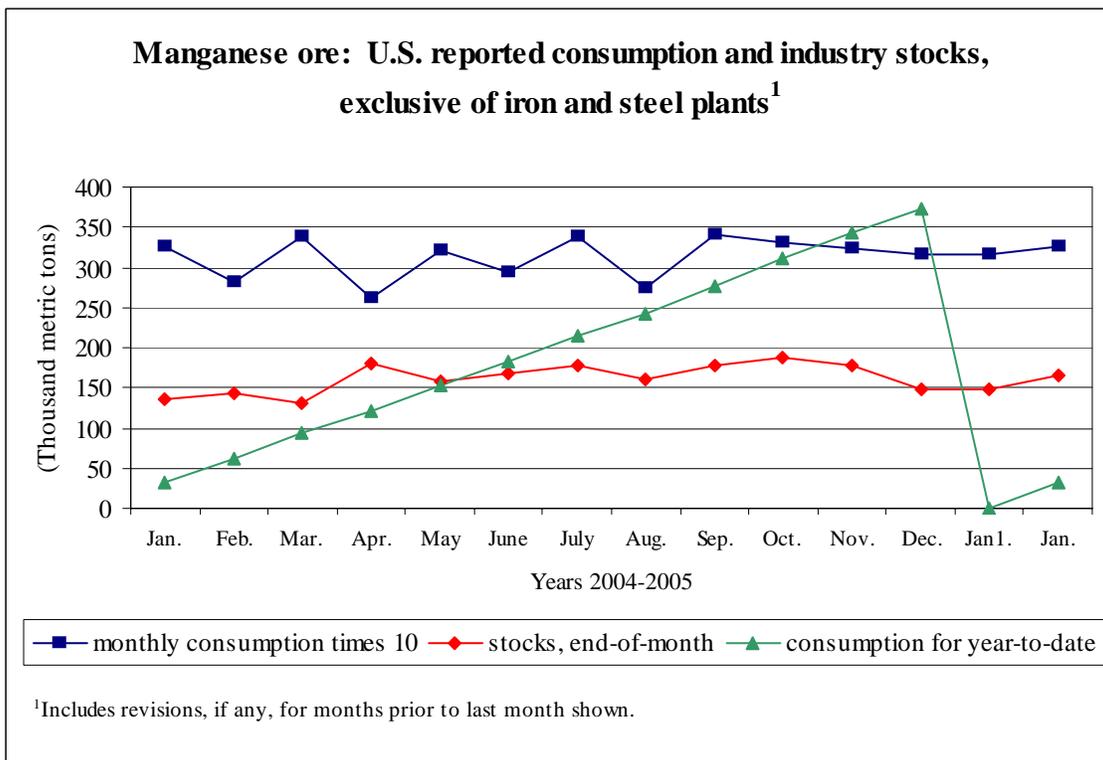


TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN DECEMBER 2004¹

(Metric tons)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	3,000	1,990	\$3,720,000	29,500	19,600	\$24,600,000
Brazil	--	--	--	54	36	92,000
Canada	--	--	--	1,230	967	613,000
China	--	--	--	850	537	932,000
France	--	--	--	3,010	2,030	2,980,000
Gabon	--	--	--	46	33	63,300
Georgia	6,000	4,550	5,400,000	34,300	26,300	33,200,000
Korea, Republic of	4,660	3,000	4,450,000	16,800	10,900	13,100,000
Mexico	1,100	717	780,000	12,300	8,070	8,160,000
Norway	7,100	4,610	8,290,000	77,500	41,000	59,900,000
Romania	--	--	--	70,300	50,300	75,200,000
Russia	--	--	--	28,900	11,400	15,500,000
Slovakia	--	--	--	1,520	985	803,000
South Africa	12,600	8,310	13,200,000	159,000	99,300	148,000,000
Spain	--	--	--	1,400	933	1,910,000
Ukraine	--	--	--	72	40	56,200
United Kingdom	--	--	--	17	13	11,700
Venezuela	--	--	--	1,310	1,190	1,200,000
Total	34,500	23,200	35,800,000	438,000	274,000	386,000,000
Total, general imports	34,500	23,200	35,800,000	438,000	274,000	386,000,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN DECEMBER 2004¹

(Metric tons)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Low carbon:						
China	856	759	\$1,460,000	8,850	7,830	\$12,700,000
Japan	--	--	--	1,200	965	1,230,000
Mexico	578	464	618,000	2,650	2,120	2,780,000
Norway	--	--	--	2,960	2,410	4,940,000
South Africa	239	222	397,000	1,890	1,750	2,860,000
Spain	--	--	--	18	14	19,000
Ukraine	--	--	--	40	32	47,900
Total, low carbon	1,670	1,450	2,480,000	17,600	15,100	24,600,000
Total, general imports of low carbon	1,670	1,450	2,480,000	17,600	15,100	24,600,000

See footnotes at end of table.

TABLE 3--Continued
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN DECEMBER 2004¹

(Metric tons)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Medium carbon, 1%-2% C:						
Argentina	--	--	--	420	287	\$482,000
Austria	--	--	--	5	4	2,880
China	40	33	\$81,500	17,300	13,800	20,200,000
Italy	--	--	--	11	76	42,000
Korea, Republic of	1,600	1,280	2,130,000	10,100	8,330	10,400,000
Mexico	1,140	877	1,110,000	13,100	10,300	12,000,000
Netherlands	--	--	--	757	590	848,000
Norway	--	--	--	6,940	5,670	8,280,000
Romania	--	--	--	150	113	78,500
Saudi Arabia	--	--	--	8	7	3,620
South Africa	5,240	4,250	7,280,000	43,100	35,000	46,800,000
Ukraine	--	--	--	4,410	3,510	4,780,000
Venezuela	--	--	--	400	253	372,000
Total, m.c., 1%-2% C	8,020	6,440	10,600,000	96,700	78,000	104,000,000
Total, general imports of m.c., 1%-2% C	8,020	6,440	10,600,000	96,700	78,000	104,000,000
Medium carbon, 2%-4% C						
China	118	97	195,000	476	393	649,000
Georgia	--	--	--	5,990	5,640	5,530,000
Total, m.c., 2%-4% C	118	97	195,000	6,470	6,030	6,170,000
Total, general imports of m.c., 2%-4% C	118	97	195,000	6,470	6,030	6,170,000
High carbon:						
Australia	8,830	6,780	8,090,000	31,500	22,900	24,900,000
Brazil	--	--	--	12,900	9,150	7,910,000
Canada	30	23	22,900	156	119	97,800
China	2,770	2,100	2,640,000	44,300	31,000	27,800,000
France	--	--	--	4,010	3,170	3,850,000
India	--	--	--	11,800	9,000	13,300,000
Korea, Republic of	1,200	900	1,110,000	3,200	2,400	3,290,000
Mexico	100	80	93,000	100	80	93,000
Norway	2,540	1,960	2,800,000	16,700	12,700	14,700,000
Poland	--	--	--	15,200	11,700	16,000,000
Saudi Arabia	--	--	--	11	46	21,500
South Africa	12,900	10,000	13,900,000	176,000	127,000	143,000,000
Spain	--	--	--	8,600	6,720	8,640,000
Switzerland	--	--	--	80	64	120,000
Ukraine	7,680	6,060	5,800,000	16,000	17,100	14,900,000
United Kingdom	--	--	--	60	47	86,600
Total, high carbon	36,000	27,900	34,500,000	341,000	253,000	279,000,000
Total, general imports of high carbon	36,000	27,900	34,500,000	341,000	253,000	279,000,000
Grand total	45,800	35,900	47,800,000	462,000	352,000	414,000,000
Grand total, general imports	45,800	35,900	47,800,000	462,000	352,000	414,000,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN DECEMBER 2004^{1,2}

(Metric tons)

Source	20% - 47% Mn		47% or more Mn		Total	
	Gross weight	Mn content	Gross weight	Mn content	Gross weight	Mn content
Belgium	--	--	38	25	38	25
China	--	--	558	425	558	425
Gabon	--	--	27,700	16,700	27,700	16,700
Total	--	--	28,300	17,100	28,300	17,100
Year to date:						
Australia	--	--	52,400	27,700	52,400	27,700
Belgium	--	--	201	140	201	140
Brazil	--	--	26	23	26	23
China	18	8	4,520	2,530	4,540	2,540
Gabon	1,540	706	361,000	188,000	363,000	188,000
Georgia	--	--	21	16	21	16
India	--	--	41	37	41	37
Mexico	4,400	1,640	--	--	4,400	1,640
Poland	--	--	109	86	109	86
South Africa	--	--	26,900	13,200	26,900	13,200
Total	5,950	2,360	445,000	231,000	451,000	234,000

-- Zero.

¹Quantities for general imports and imports for consumption are identical.

²Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN DECEMBER 2004¹

(Metric tons, gross weight)

Source	Manganese dioxide			
	Quantity	Customs value	Year to date	
			Quantity	Customs value
Australia	2,480	\$3,090,000	7,970	\$9,780,000
Austria	--	--	--	--
Belgium	28	33,000	637	1,280,000
Brazil	--	--	595	403,000
China	1,500	1,530,000	11,300	11,400,000
France	--	--	--	--
Germany	8	44,800	122	425,000
Greece	--	--	2,340	2,960,000
India	--	--	--	--
Japan	16	25,200	2,410	3,080,000
Netherlands	--	--	--	--
Poland	--	--	--	--
South Africa	41	73,900	1,020	1,460,000
Spain	--	--	20	24,500
United Kingdom	--	--	1	9,250
Total	4,070	4,790,000	26,400	30,800,000
Total, general imports	4,070	4,790,000	26,400	30,800,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN DECEMBER 2004¹

(Metric tons)

Source	Gross weight	Customs value	Year to date	
			Gross weight	Customs value
Unwrought flake:				
China	311	\$434	8,680	\$13,500
Netherlands	--	--	260	364
South Africa	505	703	7,840	11,000
Total	816	1,140	16,800	24,900
Unwrought powder:				
China	173	278	5,490	7,480
Germany	--	--	55	125
South Africa	359	570	4,260	6,550
Total	532	848	9,800	14,200
Unwrought, other:				
China	--	--	59	111,000
Germany	472	1,020	741	1,450,000
Poland	--	--	112	159,000
South Africa	220	323	2,910	4,230,000
Spain	113	214	1,110	2,020,000
Total	805	1,550	4,930	7,970,000
Other manganese, wrought:				
Austria	--	--	(2)	10,700
China	20	34,100	349	552,000
France	4	43,400	23	234,000
Germany	3	28,100	24	295,000
Japan	--	--	4	14,400
India	--	--	8	12,000
Netherlands	8	20,000	17	40,900
Poland	--	--	40	26,300
South Africa	--	--	4	2,160
Spain	38	48,700	208	459,000
United Kingdom	--	--	(2)	7,990
Total	74	174,000	676	1,650,000
Grand total	2,230	178,000	32,200	9,670,000

-- Zero.

¹Data are rounded to no more than three significant digits; may not add to totals shown.

²Less than 1/2 unit.

Note: Imports for consumption of metallic manganese waste and scrap totaled 153 tons, all of which was from Canada, to give a year-to-date total of 2,520 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 2004¹

(Metric tons, gross weight)

	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
Australia	--	243	--	--	--	3	--	--
Belgium	--	--	--	--	--	--	36	318
Brazil	--	1,090	--	--	--	30	--	32
Canada	1,120	5,130	674	4,440	--	46	11	824
Chile	--	22	--	--	--	--	--	--
China	41,000	89,000	--	23	--	--	--	(3)
Colombia	--	--	--	--	--	--	--	1
Costa Rica	--	--	--	--	--	--	--	2
Croatia	--	--	--	19	--	--	--	--
Dominican Republic	--	--	--	--	--	--	--	14
Estonia	--	--	--	54	--	--	--	--
France	--	242	--	--	--	24	--	4
Germany	315	10,900	--	--	--	--	37	259
Hong Kong	--	23	--	--	--	--	(3)	(3)
India	--	41	--	--	--	--	--	--
Indonesia	--	46	--	10	--	18	--	--
Israel	--	118	--	--	--	--	--	--
Italy	--	74	--	--	16	16	4	55
Japan	--	37	--	--	--	--	76	730
Korea, Republic of	--	295	--	--	--	--	2	66
Kuwait	--	434	--	--	--	--	--	--
Malaysia	--	--	--	--	--	--	--	2
Mexico	--	2	--	141	7	277	80	273
Netherlands	--	6,240	--	--	--	16	--	--
New Zealand	--	38	--	--	--	--	--	--
Norway	--	1,790	--	--	--	--	--	--
Peru	--	--	--	--	--	17	--	4
Philippines	--	464	--	--	--	--	--	--
Poland	38	726	--	--	--	--	--	--
Russia	36	58	--	--	--	--	--	--
Singapore	--	--	--	8	--	--	--	--
Spain	--	--	--	--	--	16	--	--
Sweden	--	1,660	--	--	--	--	--	186
Switzerland	--	60	--	--	--	--	(3)	(3)
Taiwan	--	229	--	--	--	--	(3)	2
Thailand	--	--	--	--	--	--	--	(3)
Trinidad and Tobago	--	--	--	--	--	38	11	11
Turkey	--	--	--	9	--	--	--	--
United Kingdom	--	4,010	--	--	--	--	--	4
Venezuela	--	34	--	390	--	--	--	--
Total	42,500	123,000	674	5,090	23	501	257	2,790

-- Zero.

¹Data are 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 1/2 unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 2,040 tons, of which 136 tons went to Canada and 1,900 tons went to the Netherlands, to give a year-to-date total of 4,030 tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN DECEMBER 2004, 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	300	\$350	Mexico 173; \$72	3,380	\$2,830	Mexico 1,530; \$639
Sulfates, basket category, including manganese sulfate	1,030	1,130	Mexico 427; \$287	35,400	20,200	China 16,800; \$7,900
Potassium permanganate	76	146	Czech Republic 58; \$112	1,120	2,220	Czech Republic 767; \$1,480
Manganites, manganates, and other permanganates	54	77	China 54; \$77	1,000	1,600	China 985; \$1,530
Exports:						
Manganese dioxide	451	394	Canada 293; \$134	4,000	3,680	Canada 1,960; \$890
Manganese oxides other than dioxide	1,140	753	Canada 905; \$333	6,660	4,840	Canada 4,820; \$1,790
Sulfates, basket category, including manganese sulfate	1,440	966	Canada 1,300; \$596	18,800	12,900	Canada 15,900; \$6,950
Potassium permanganate	86	136	Mexico 19; \$37	2,950	4,440	Spain 1,840; \$2,790
Manganites, manganates, and other permanganates	28	118	Japan 16; \$54	702	2,280	Japan 286; \$1,150

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.