

Mineral Industry Surveys

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MANGANESE IN OCTOBER 2004

In October, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 30,700 metric tons (t), which was a 4% decrease from that of September 2004, according to the U.S. Geological Survey. This figure increases to 33,100 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 188,000 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.)

Based on a content-weight comparison of September 2004 trade data (table 1) to those of the prior month, total exports increased by 24%, owing to a significant increase in manganese ore exports. Manganese imports decreased by 23%, owing to a significant decrease in manganese ferroalloy and metal imports.

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:						
September	28,100	39,000	67,100	345	1,210	1,560
January-September	178,000	265,000 ^r	443,000 ^r	7,920	8,440	16,400
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
Total	171,000	458,000	629,000	32,700	6,290	39,000

^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.

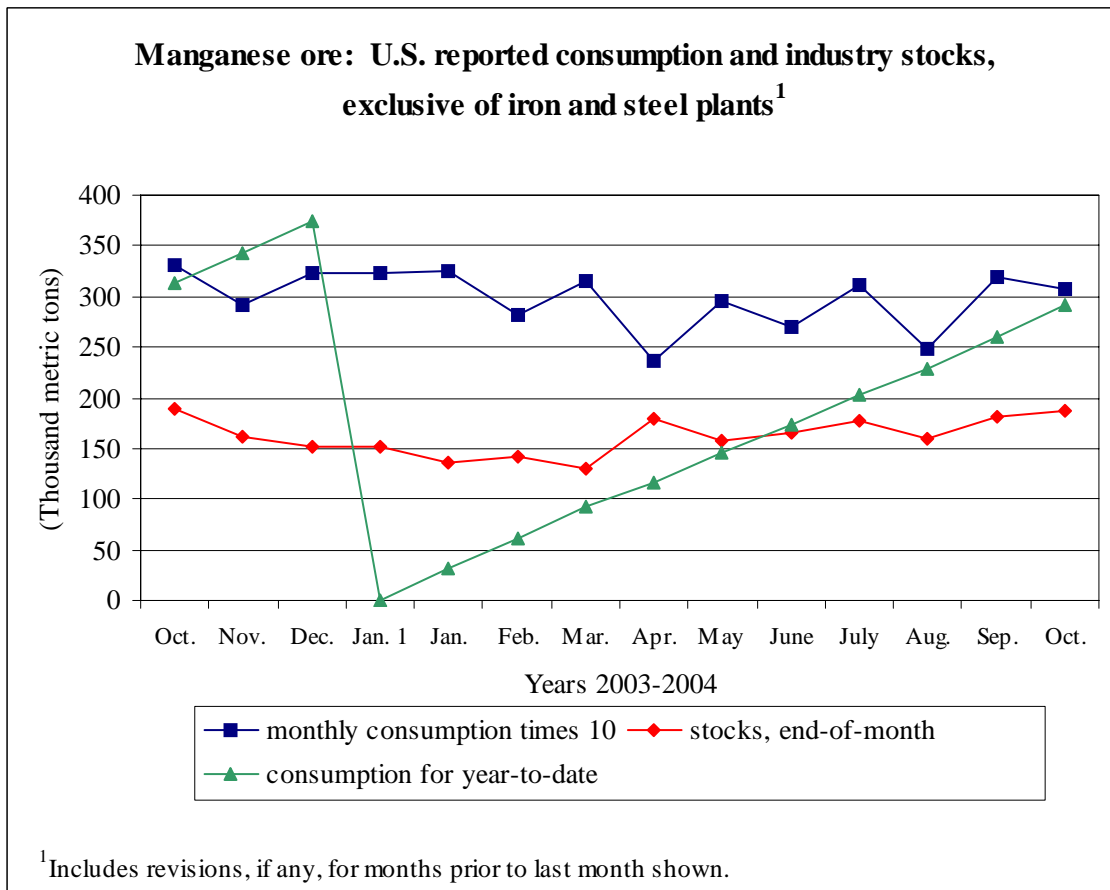


TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN SEPTEMBER 2004¹

(Metric tons)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	1,760	1,170	\$2,210,000	22,900	15,200	\$17,200,000
Canada	92	62	57,500	796	642	374,000
China	160	96	137,000	400	256	452,000
France	--	--	--	3,010	2,030	2,980,000
Gabon	--	--	--	46	33	63,300
Georgia	5,200	3,880	6,270,000	28,300	21,800	27,800,000
Korea, Republic of	6,290	4,070	5,300,000	12,100	7,900	8,660,000
Mexico	2,000	1,320	1,330,000	6,510	4,270	4,110,000
Norway	1,830	1,190	2,190,000	40,700	22,200	31,600,000
Romania	1,490	1,040	1,650,000	49,300	35,900	51,600,000
Russia	2,480	1,610	2,730,000	26,500	10,800	12,900,000
Slovakia	--	--	--	1,520	985	803,000
South Africa	6,400	4,240	7,580,000	109,000	68,100	98,700,000
Spain	--	--	--	1,400	933	1,910,000
Ukraine	--	--	--	72	40	56,200
United Kingdom	--	--	--	17	13	11,700
Venezuela	--	--	--	18	404	210,000
Total	27,700	18,700	29,500,000	303,000	191,000	259,000,000
Total, general imports	27,700	18,700	29,500,000	303,000	191,000	259,000,000

-- 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 SEPTEMBER 2004¹

(Metric tons)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Low carbon:						
China	784	695	\$1,140,000	5,600	5,020	\$7,510,000
Japan	--	--	--	1,200	965	1,230,000
Mexico	19	16	47,200	1,360	1,080	1,380,000
Norway	--	--	--	1,190	974	1,230,000
South Africa	241	224	401,000	1,410	1,310	2,070,000
Spain	--	--	--	18	14	19,000
Ukraine	--	--	--	40	32	47,900
Total, low carbon	1,040	935	1,590,000	10,800	9,390	13,500,000
Total, general imports of low carbon	1,040	935	1,590,000	10,800	9,390	13,500,000

See footnotes at end of table.

TABLE 3--Continued
 U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN SEPTEMBER 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	5,890	4,650	\$7,560,000	12,100	9,620	13,600,000
Italy	--	--	--	11	76	42,000
Korea, Republic of	3,000	2,400	4,250,000	8,500	7,050	8,290,000
Mexico	2,060	1,620	1,890,000	8,780	6,930	8,100,000
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	2,570	2,110	3,920,000	33,900	27,400	33,100,000
Ukraine	--	--	--	4,140	3,270	4,450,000
Venezuela	--	--	--	400	253	372,000
Total, m.c., 1%-2% C	13,500	10,800	17,600,000	76,100	61,200	77,600,000
Total, general imports of m.c., 1%-2% C	13,500	10,800	17,600,000	76,100	61,200	77,600,000
Medium carbon, 2%-4% C						
China	19	17	26,200	57	52	86,400
Georgia	598	518	780,000	5,990	5,640	5,530,000
Total, m.c., 2%-4% C	617	535	806,000	6,050	5,690	5,610,000
Total, general imports of m.c., 2%-4% C	617	535	806,000	6,050	5,690	5,610,000
High carbon:						
Australia	4,760	3,630	4,920,000	22,700	16,100	16,800,000
Brazil	1,250	980	1,670,000	10,900	7,570	5,130,000
Canada	14	11	9,990	91	69	54,100
China	9,010	7,200	10,100,000	34,300	23,500	17,500,000
France	2,700	2,120	2,900,000	4,010	3,170	3,850,000
India	--	--	--	6,810	5,190	7,090,000
Korea, Republic of	2,000	1,500	2,180,000	2,000	1,500	2,180,000
Norway	2,500	1,960	2,880,000	13,200	9,910	10,800,000
Poland	--	--	--	231	183	344,000
Saudi Arabia	--	--	--	11	46	21,500
South Africa	2,590	2,020	2,900,000	128,000	89,200	89,400,000
Spain	--	--	--	8,600	6,720	8,640,000
Switzerland	--	--	--	80	64	120,000
Ukraine	583	446	833,000	2,460	1,890	3,080,000
United Kingdom	--	--	--	60	47	86,600
Total, high carbon	25,400	19,900	28,400,000	234,000	165,000	165,000,000
Total, general imports of high carbon	25,400	19,900	28,400,000	234,000	165,000	165,000,000
Grand total	40,600	32,100	48,400,000	327,000	241,000	262,000,000
Grand total, general imports	40,600	32,100	48,400,000	327,000	241,000	262,000,000

-- 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 SEPTEMBER 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
Australia	--	--	7,640	4,020	7,640	4,020
Belgium	--	--	18	13	18	13
Gabon	--	--	39,500	20,100	39,500	20,100
Total	--	--	47,100	24,200	47,100	24,200
Year to date:						
Australia	--	--	38,100	20,200	38,100	20,200
Belgium	--	--	127	89	127	89
Brazil	--	--	6	6	6	6
China	18	8	3,950	2,100	3,960	2,110
Gabon	1,540	706	269,000	136,000	271,000	136,000
Georgia	--	--	21	16	21	16
India	--	--	41	37	41	37
Mexico	2,900	1,100	--	--	2,900	1,100
Poland	--	--	109	86	109	86
Total	4,450	1,810	312,000	158,000	316,000	160,000

-- 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 SEPTEMBER 2004¹

(Metric tons, gross weight)

Source	Manganese dioxide			
	Quantity	Customs value	Year to date	
			Quantity	Customs value
Australia	--	--	4,440	\$5,400,000
Austria	--	--	--	--
Belgium	56	\$107,000	527	1,090,000
Brazil	16	27,600	564	351,000
China	549	538,000	8,200	8,240,000
France	--	--	--	--
Germany	4	22,400	77	232,000
Greece	488	627,000	2,230	2,820,000
India	--	--	--	--
Japan	562	696,000	1,640	2,030,000
Netherlands	--	--	--	--
Poland	--	--	--	--
South Africa	61	111,000	553	796,000
Spain	--	--	20	24,500
United Kingdom	--	--	1	9,250
Total	1,740	2,130,000	18,300	21,000,000
Total, general imports	1,740	2,130,000	18,300	21,000,000

-- Zero.

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

Source: U.S. Census Bureau.

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

(Metric tons)

Source	Gross weight	Customs value	Year to date	
			Gross weight	Customs value
Unwrought flake:				
China	1,490	\$2,020	7,300	\$11,500
Netherlands	260	364	260	364
South Africa	519	758	5,750	7,960
Total	2,270	3,140	13,300	19,800
Unwrought powder:				
China	876	1,270	3,960	5,350
Germany	39	83	55	125
South Africa	282	448	3,080	4,660
Total	1,200	1,800	7,100	10,100
Unwrought, other:				
China	20	41,100	59	111,000
Germany	47	116,000	85	196,000
Poland	--	--	112	159,000
South Africa	200	290,000	2,200	3,240,000
Spain	132	231,000	730	1,270,000
Total	399	678,000	3,190	4,980,000
Other manganese, wrought:				
Austria	--	--	(2)	10,700
China	--	--	299	460,000
France	--	--	7	65,800
Germany	6	63,600	14	199,000
Japan	--	--	4	14,400
India	--	--	8	12,000
Netherlands	--	--	9	20,900
Poland	--	--	40	26,300
South Africa	--	--	4	2,160
Spain	--	--	169	410,000
United Kingdom	--	--	(2)	5,100
Total	6	63,600	554	1,230,000
Grand total	3,880	746,000	24,100	6,230,000

-- 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 113 tons, all of which was from Canada, to give a year-to-date total of 1,240 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	
	September	Year to date	September	Year to date	September	Year to date	September	Year to date
Australia	--	142	--	--	--	3	--	--
Belgium	--	--	--	--	--	--	16	146
Brazil	--	888	--	--	--	26	1	6
Canada	334	3,550	249	2,840	--	46	18	694
Chile	3	22	--	--	--	--	--	--
China	--	42,400	--	23	--	--	--	--
Colombia	--	--	--	--	--	--	(3)	1
Costa Rica	--	--	--	--	--	--	1	2
Croatia	--	--	--	19	--	--	--	--
Dominican Republic	--	--	--	--	--	--	--	14
Estonia	--	--	--	54	--	--	--	--
France	--	242	--	--	--	24	--	4
Germany	794	5,380	--	--	--	--	34	184
Hong Kong	--	23	--	--	--	--	--	(3)
India	--	41	--	--	--	--	--	--
Indonesia	--	26	--	10	--	18	--	--
Israel	--	118	--	--	--	--	--	--
Italy	--	74	--	--	--	--	4	32
Japan	--	37	--	--	--	--	18	495
Korea, Republic of	203	228	--	--	--	--	--	64
Kuwait	--	434	--	--	--	--	--	--
Malaysia	--	--	--	--	--	--	--	2
Mexico	--	--	109	132	33	198	27	188
Netherlands	2,390	5,490	--	--	--	14	--	--
Norway	73	1,070	--	--	--	--	--	--
Peru	--	--	--	--	--	--	--	4
Philippines	--	464	--	--	--	--	--	--
Poland	38	551	--	--	--	--	--	--
Russia	--	21	--	--	--	--	--	--
Singapore	--	--	8	8	--	--	--	--
Spain	--	--	--	--	--	8	--	--
Sweden	18	1,630	--	--	--	--	--	126
Switzerland	--	35	--	--	--	--	--	--
Taiwan	--	108	--	--	--	--	--	2
Thailand	--	--	--	--	--	--	(3)	(3)
Trinidad and Tobago	--	--	--	--	--	38	--	--
Turkey	--	--	--	9	--	--	--	--
United Kingdom	1,320	2,460	--	--	--	--	--	4
Venezuela	--	34	--	390	--	--	--	--
Total	5,170	65,500	366	3,490	33	375	119	1,970

-- 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 85 tons, all of which went to Canada, to give a year-to-date total of 1,670 tons.

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN SEPTEMBER 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	188	\$204	Mexico 111; \$44	2,340	\$2,030	Mexico 1,000; \$415
Sulfates, basket category, including manganese sulfate	1,630	1,330	Mexico 679; 433	26,900	15,200	China 12,700; \$5,870
Potassium permanganate	61	121	Czech Republic 43; \$84	852	1,700	Czech Republic 611; \$1,180
Manganites, manganates, and other permanganates	--	--	--	848	1,380	China 829; \$1,310
Exports:						
Manganese dioxide	452	367	Canada 205; \$90	2,760	2,610	Canada 1,230; \$535
Manganese oxides other than dioxide	922	413	Canada 823; \$259	4,510	3,470	Canada 3,050; \$1,140
Sulfates, basket category, including manganese sulfate	1,610	1,070	Canada 1,300; \$507	14,200	9,590	Canada 11,900; \$5,100
Potassium permanganate	218	365	Spain 108; \$205	2,500	3,810	Spain 1,600; \$2,520
Manganites, manganates, and other permanganates	104	242	Taiwan 60; \$54	480	1,710	Japan 230; \$935

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.