

# Mineral Industry Surveys

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## MANGANESE IN AUGUST 2000

In August, reported consumption of manganese ore containing 35% or more manganese, exclusive of that at iron and steel plants, was estimated as 39,000 metric tons (t), which was an increase of less than 3% compared with that for the previous month, according to the U.S. Geological Survey. This brought the year-to-date total to 307,000 t. The figures for August increase to 41,400 t and 335,000 t when estimates for annual respondents are added on the basis of 1999 data. Corresponding industry stocks of ore at the end of the month were 262,000 t, which includes an estimate for annual respondents on the basis of 1999 data. This also was an increase of less than 3% compared with the corresponding figure for stocks at the end of July.

Data for domestic consumption and stocks of manganese ferroalloys and metal in 1999 will appear in a subsequent monthly report.

Foreign trade data for August will appear in a subsequent report. The data for July tabulated in this report indicate that the monthly totals for total units of manganese imported and of manganese imported as ore were the greatest in at least 17 years. Of the total units imported, about 50% was as ore, of which about four-fifths was from Gabon. For the third consecutive month, medium-carbon ferromanganese was being imported at a rate approaching twice that of the average for the year in which a record quantity was received. Among exports, those of silicomanganese again were minimal, and were the least since June 1986. **Note:** For early availability, the trade data appearing in this report are being placed on MINES FaxBack in preliminary form. The data for July were placed on FaxBack as of September 28. The FaxBack document number for the August trade data will be 420208.

The Defense National Stockpile Center of the Defense Logistics Agency, U.S. Department of Defense, reported for August no disposals of manganese materials from the National Defense Stockpile. The most recent month in which there also were no disposals was May 2000.

Japan's Nippon Denko Co. Ltd. and South Africa's Samancor Ltd. joined in a cooperation agreement whereby Nippon Denko would produce high-carbon ferromanganese in place of that which Samancor had been shipping to Japanese customers, and Samancor would increase its supply of manganese ore to Nippon Denko. Under this agreement, which extended back to April 2000, Nippon Denko's output of high-carbon ferromanganese at its Tokushima plant would increase by about 50,000 metric tons per year (t/yr) and Nippon Denko's intake of Samancor ore by about 75,000 t/yr. The agreement included an exchange of technology for production of ferromanganese (Metal Bulletin, 2000; TEX Report, 2000).

Roskill Information Services, London, issued its latest comprehensive report on the global manganese industry. This 2000 report was the ninth edition of "The Economics of Manganese." The e-mail and Internet addresses for Roskill are [info@roskill.co.uk](mailto:info@roskill.co.uk) and <http://www.roskill.co.uk>, respectively.

## References Cited

- Metal Bulletin, 2000, Revitalised Nippon Denko sees profits soar: Metal Bulletin, no. 8507, September 11, p. 15.  
TEX Report, 2000, Nippon Denko has concluded strategic cooperation with Samancor on Fe-Mn: TEX Report, August 31, p. 2.

TABLE 1  
SELECTED U.S. FOREIGN TRADE IN MANGANESE 1/

(Metric tons, manganese content) 2/

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
1999: 3/						
July	17,100	29,700	46,800	385	1,190	1,570
January-July	159,000	270,000	429,000	773	9,580	10,400
2000:						
January	17,200 4/	27,600 4/	44,800	144	926	1,070
February	25,900 4/	38,100	64,000	202	1,380	1,580
March	17,700 4/	56,300 4/	74,000	383 4/	1,000	1,390
April	19,500 4/	38,600 4/	58,100	1,140 4/	937	2,080
May	4,130 4/	42,700	46,800	310 4/	541	851
June	21,500 4/	68,700 4/	90,300	398	484	883
July	60,600 4/	52,400	113,000	228	822	1,050
Total	167,000	324,000	491,000	2,810	6,090	8,900

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

2/ As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

3/ Data may include revisions by the U.S. Census Bureau.

4/ All 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 JULY 2000 1/

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	1,360	1,040	\$702,000	29,100	27,400	\$14,400,000
Brazil	--	--	--	15	12	20,400
Bulgaria	--	--	--	2,450	1,590	1,030,000
France	--	--	--	1,350	918	636,000
Georgia	2,990	2,170	1,520,000	2,990	2,170	1,520,000
India	--	--	--	34,500	22,300	14,800,000
Kazakhstan	11,100	7,560	4,860,000	39,000	26,500	18,000,000
Korea, Republic of	2,800	1,850	1,240,000	2,800	1,850	1,240,000
Mexico	--	--	--	29,000	17,700	13,500,000
Norway	--	--	--	1,400	848	953,000
Romania	--	--	--	4,040	2,640	1,830,000
South Africa	14,800	9,980	6,860,000	64,800	42,200	30,200,000
Venezuela	2,800	1,820	1,300,000	16,200	10,800	7,360,000
Total	35,900	24,400	16,500,000	228,000	157,000	106,000,000
Total, general imports	35,900	24,400	16,500,000	228,000	157,000	106,000,000

-- Zero.

1/ Data 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 JULY 2000 1/

(Metric tons)

Source	Gross weight	Mn content	Customs value	Year to date p/ 2/		
				Gross weight	Mn content	Customs value
Low carbon:						
China	--	--	--	959	872	\$1,030,000
Italy	529	447	\$484,000	4,540	3,870	4,520,000
Japan	--	--	--	4,330	3,620	3,520,000
Mexico	--	--	--	530	428	469,000
Norway	--	--	--	30	24	22,800
South Africa	200	187	320,000	910	854	1,470,000
Ukraine	--	--	--	240	228	275,000
Total, low carbon	729	634	804,000	11,500	9,900	11,300,000
Total, general imports of low carbon	729	634	804,000	11,500	9,900	11,300,000
Medium carbon, 1%-2% C:						
Brazil	--	--	--	108	85	76,800
China	2,050	1,640	1,190,000	2,050	1,640	1,190,000
Germany	--	--	--	80	65	52,800
Japan	2,500	2,130	1,450,000	2,500	2,130	1,450,000
Korea, Republic of	2,850	2,280	1,650,000	5,700	4,560	3,260,000
Mexico	102	77	71,100	12,700	10,200	8,200,000
Norway	2,960	2,400	2,110,000	7,650	6,210	4,850,000
South Africa	1,950	1,570	1,350,000	17,900	14,500	10,800,000
Total, m.c., 1%-2% C	12,400	10,100	7,820,000	48,700	39,400	29,900,000
Total, general imports of m.c., 1%-2% C	12,400	10,100	7,820,000	48,700	39,400	29,900,000
Medium carbon, 2%-4% C:						
South Africa	--	--	--	30	24	16,800
Total, m.c., 2%-4% C	--	--	--	30	24	16,800
Total, general imports of m.c., 2%-4% C	--	--	--	30	24	16,800
High carbon:						
Australia	--	--	--	18,800	14,400	7,060,000
Brazil	--	--	--	4,810	3,700	2,050,000
Canada	--	--	--	36	28	26,200
France	13,000	10,200	5,490,000	39,400	31,200	17,200,000
South Africa	6,880	5,330	2,800,000	75,600	58,600	28,300,000
Total, high carbon	19,900	15,500	8,290,000	139,000	108,000	54,600,000
Total, general imports of high carbon	19,900	15,500	8,290,000	139,000	108,000	54,600,000
Grand total	33,000	26,300	16,900,000	199,000	157,000	95,800,000
Grand total, general imports	33,000	26,300	16,900,000	199,000	157,000	95,800,000

p/ Preliminary. -- Zero.

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

2/ May include revisions to previous months' data.

Source: U.S. Census Bureau.

TABLE 4  
U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN JULY 2000 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	--	--	22,400	11,600	22,400	11,600
Gabon	11,100	4,280	85,000	41,900	96,000	46,200
India	18 3/	112 3/	--	--	18	112
Mexico	197	87	--	--	197	87
Total	11,300	4,480	107,000	53,500	119,000	58,000
Year to date:						
Australia	--	--	23,700	12,300	23,700	12,300
Belgium	18	6	--	--	18	6
Brazil	7,030	3,250	--	--	7,030	3,250
Gabon	36,500	15,500	220,000	113,000	257,000	129,000
India	88	559	--	--	88	559
Mexico	4,980	2,900	--	--	4,980	2,900
Morocco	--	--	20	11	20	11
Total	48,600	22,200	244,000	126,000	293,000	148,000

-- Zero.

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

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

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

Source: U.S. Census Bureau.

TABLE 5  
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE AND MANGANESE METAL IN JULY 2000 1/

(Metric tons, gross weight, unless otherwise specified)

Source	Manganese dioxide				Manganese metal			
			Year to date		Unwrought		Other	
	Quantity	Customs value	Quantity	Customs value	Quantity	Year to date	Quantity	Year to date
Australia	1,750	\$2,480,000	16,300	\$23,500,000	--	--	--	--
Belgium	74	150,000	476	821,000	--	--	--	--
Brazil	--	--	9	18,200	--	--	--	--
Canada	--	--	--	--	--	--	--	12
China	--	--	172	181,000	729	2,590	--	92
France	--	--	--	--	--	--	16	73
Germany	10	57,200	84	437,000	141	724	11	23
Ghana	3	4,530	3	4,530	--	--	--	--
Greece	488	638,000	944	1,230,000	--	--	--	--
India	--	--	--	--	--	--	20	21
Ireland	881	1,210,000	5,710	7,740,000	--	--	--	--
Japan	--	--	--	--	--	--	(2/)	5
Netherlands	--	--	--	--	37	106	10	58
Peru	--	--	--	--	--	--	4	4
South Africa	1,140	1,620,000	7,410	10,500,000	606	5,870	--	--
Switzerland	79	80,200	79	80,200	--	--	--	--
Taiwan	--	--	--	--	--	--	--	18
Ukraine	--	--	--	--	--	20	--	--
United Kingdom	6	10,300	117	174,000	87	449	1	2
Venezuela	--	--	--	--	--	--	--	36
Total	4,430	6,250,000	31,300	44,700,000	1,600	9,760	62	344
Total, general imports	4,430	6,250,000	31,400	44,800,000	1,600	10,000	62	344

-- Zero.

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

2/ Less than 1/2 unit.

Note: Imports for consumption of metallic manganese waste and scrap totaled 24 tons, of which 20 tons was from Norway and 3 tons was from Canada, to give a year-to-date total of 142 tons.

Source: U.S. Census Bureau.

TABLE 6  
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE,  
SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN 2000 1/

(Metric tons, gross weight)

	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal 2/	
	July	Year to date	July	Year to date	July	Year to date	July	Year to date
Australia	--	172	--	--	--	--	--	--
Austria	--	--	--	--	--	--	39	39
Belgium	--	--	--	--	--	--	19	38
Brazil	--	67	--	--	--	--	--	--
Canada	157	2,660	527	3,400	--	996	5	439
Chile	--	--	--	--	--	--	--	4
Colombia	--	--	--	--	--	--	--	8
Finland	--	--	--	--	--	--	--	49
France	--	82	--	--	--	4	--	--
Germany	10	1,030	--	--	--	--	--	--
Hong Kong	--	--	--	--	--	--	--	2
Italy	151	300	--	--	--	--	--	18
Japan	--	70	--	--	--	--	129	507
Korea, Republic of	--	--	--	--	--	--	--	6
Mexico	--	1,070	--	97	4	318	26	135
Netherlands	--	--	--	--	--	9	18	55
Norway	139	139	--	--	--	--	--	--
Panama	--	--	18	18	--	--	--	--
Peru	--	--	--	--	--	--	--	1
Switzerland	--	13	--	--	--	--	--	--
Taiwan	--	11	--	--	--	--	--	30
United Kingdom	--	--	--	--	--	--	--	17
Total	457	5,620	545	3,520	4	1,330	235	1,350

-- Zero.

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

2/ Includes manganese-aluminum, some other alloys, and waste and scrap.

Note: Exports of ferromanganese with more than 2% carbon totaled 195 tons, of which 107 tons went to Canada, 73 tons went to China, and 15 tons went to Mexico, to give a year-to-date total of 1,380 tons.

Source: U.S. Census Bureau.

TABLE 7  
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JULY 2000, BY CLASS 1/

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	120	\$189	Mexico 60; \$19	859	\$1,200	Mexico 360; \$116
Sulfates, basket category, including manganese sulfate	4,220	2,330	Mexico 2,310; \$1,140	22,600	12,800	Mexico 10,700; \$5,260
Potassium permanganate	120	225	Czech Republic 65; \$122	891	1,720	Czech Republic 415; \$793
Manganites, manganates, and other permanganates	--	--	--	37	260	Germany 36; \$257
Exports:						
Manganese dioxide	297	372	Canada 193; \$85	2,020	2,240	Canada 1,210; \$513
Manganese oxides other than dioxide	782	922	Canada 333; \$134	5,210	6,650	Canada 1,920; \$750
Sulfates, basket category, including manganese sulfate	1,230	571	Canada 1,060; \$235	12,600	6,580	Canada 10,400; \$3,130
Potassium permanganate	162	341	Spain 90; \$179	835	1,680	Germany 164; \$312
Manganites, manganates, and other permanganates	68	209	Nicaragua 38; \$67	181	905	Nicaragua 57; \$100

-- Zero.

1/ Data are rounded to no more than three significant digits.

2/ For imports, Customs value; for exports, f.a.s. value.

Source: U.S. Census Bureau.