

Mineral Industry Surveys

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MANGANESE IN JANUARY 2001

In January, reported consumption of manganese ore containing 35% or more manganese, exclusive of that at iron and steel plants, was 22,800 metric tons (t), which was a decrease of about 25% compared with that for the previous month, according to the U.S. Geological Survey. The figure for January increases to 25,200 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 235,000 t, which includes an estimate for annual respondents on the basis of 1999 data. This was an increase of about 2% compared with the corresponding figure for stocks at the end of December 2000.

Data for domestic consumption and stocks of manganese ferroalloys and metal in 2000 will appear in a subsequent monthly report.

Foreign trade data for January will appear in a subsequent report. The import data for December tabulated in this report indicate that monthly quantities were the least since December 1999 for manganese dioxide, since April 1983 for units of manganese as ferromanganese, and since May 1999 for silico-manganese. Imports of manganese dioxide are expected to have advanced easily to a new annual record, even after outstanding questions about the dioxide data are resolved. **Note:** For early

availability, the trade data appearing in this report were placed on MINES FaxBack in preliminary form as of February 27. The FaxBack document number for the preliminary January trade data will be 420201.

The Defense National Stockpile Center of the Defense Logistics Agency, U.S. Department of Defense, reported no cash disposals of manganese materials from the National Defense Stockpile in January. This was the third consecutive month in which there were no disposals.

Manganese ore production in Ukraine in 2000 totaled 2,741,000 t. Outputs by the Marganets and Ordzhonikidze mining and beneficiation complexes were 917,000 t and 1,824,000 t, respectively (Interfax Mining & Metals Report, 2001). Production at both of these complexes in the Nikopol' Basin was up compared with that in 1999, by 58% at Marganets and 30% at Ordzhonikidze, to give an overall increase of 38%.

Reference Cited

Interfax Mining & Metals Report, 2001, Iron ore output in Russian, Kazakh, Ukraine: Interfax Mining & Metals Report, v. 10, issue 3, January 12-18, p. 34-35.

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/						
December	7,600	41,100	48,700	92	1,390	1,490
January-December	249,000	462,000	711,000	2,090	15,100	17,200
2000:						
January	17,100	27,600 4/	44,700	144	926	1,070
February	25,900 5/	38,100	64,000	202	1,380	1,580
March	16,800	57,500 5/	74,400	383 5/	1,000	1,390
April	19,400	39,800	59,300	164	967	1,130
May	4,020	42,700	46,700	309	543	852
June	21,400 5/	60,700	82,100	398	484	883
July	60,500 6/	52,400	113,000	228	822	1,050
August	21,200 5/	44,700	65,800	438	652	1,090
September	24,900 5/	53,500 5/	78,300	168	1,040	1,210
October	4,290 5/	28,200 5/	32,500	2,240 5/	625	2,860
November	22,500 5/	48,200	70,700	259	698	957
December	19,800 5/	21,100 5/	40,800	85	594	679
Total	258,000	514,000	772,000	5,010	9,730	14,700

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/ Verified as being correct by the U.S. Census Bureau.

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

6/ Verified as being correct by the U.S. Geological Survey.

Source: U.S. Census Bureau.

TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN DECEMBER 2000 1/

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date p/ 2/		
				Gross weight	Mn content	Customs value
Argentina	--	--	--	40	18	\$35,200
Australia	3,420	2,260	\$1,210,000	52,400	35,500	24,300,000
Brazil	--	--	--	15	12	20,400
Bulgaria	--	--	--	2,450	1,590	1,030,000
Canada	--	--	--	208	160	50,100
France	--	--	--	1,350	918	636,000
Georgia	3,260	2,220	1,420,000	6,250	4,390	2,940,000
India	--	--	--	60,500	39,300	26,200,000
Kazakhstan	--	--	--	66,400	45,200	28,400,000
Korea, Republic of	--	--	--	2,800	1,850	1,240,000
Mexico	--	--	--	45,400	29,700	21,000,000
Norway	--	--	--	4,400	2,680	2,780,000
Romania	--	--	--	9,630	6,360	4,170,000
South Africa	10,200	6,850	3,660,000	97,400	65,400	43,600,000
Spain	1,380	854	909,000	1,380	854	909,000
United Kingdom	--	--	--	3,400	2,230	1,610,000
Venezuela	1,300	884	491,000	24,100	16,100	10,500,000
Total	19,600	13,100	7,690,000	378,000	252,000	170,000,000
Total, general imports	19,600	13,100	7,690,000	378,000	252,000	170,000,000

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 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN DECEMBER 2000 1/

(Metric tons)

Source	Gross weight	Mn content	Customs value	Year to date p/ 2/		
				Gross weight	Mn content	Customs value
Low carbon:						
Brazil	--	--	--	6,410	5,140	\$2,920,000
China	--	--	--	1,410	1,250	1,490,000
Italy	--	--	--	5,520	4,700	5,390,000
Japan	55	52	\$67,300	4,660	3,920	3,980,000
Mexico	20	17	28,100	1,570	1,260	1,350,000
Norway	--	--	--	50	40	26,500
South Africa	440	410	682,000	2,490	2,330	3,880,000
Ukraine	--	--	--	180	171	203,000
Total, low carbon	515	478	777,000	22,300	18,800	19,200,000
Total, general imports of low carbon	515	478	777,000	22,300	18,800	19,200,000
Medium carbon, 1%-2% C:						
Brazil	--	--	--	108	85	76,800
China	--	--	--	6,230	4,990	3,840,000
France	--	--	--	60	48	37,400
Germany	--	--	--	80	65	52,800
Japan	--	--	--	6,250	5,140	4,100,000
Korea, Republic of	--	--	--	8,550	6,840	5,060,000
Mexico	59	45	50,400	20,700	16,700	13,800,000
Norway	--	--	--	10,500	8,520	6,140,000
South Africa	--	--	--	25,300	20,500	15,800,000
Total, m.c., 1%-2% C	59	45	50,400	77,800	62,900	48,900,000
Total, general imports of m.c., 1%-2% C	59	45	50,400	77,800	62,900	48,900,000
Medium carbon, 2%-4% C:						
Brazil	--	--	--	1	(3/)	2,490
South Africa	--	--	--	57	46	46,000
Total, m.c., 2%-4% C	--	--	--	58	46	48,500
Total, general imports of m.c., 2%-4% C	--	--	--	58	46	48,500
High carbon:						
Australia	--	--	--	30,400	22,800	11,500,000
Brazil	--	--	--	8,310	6,410	3,370,000
Canada	--	--	--	50	39	36,400
France	4,300	3,360	1,710,000	45,200	35,700	19,500,000
Mexico	--	--	--	1,400	1,100	625,000
South Africa	635	498	236,000	124,000	96,000	46,900,000
Ukraine	3,090	2,410	1,220,000	3,090	2,410	1,220,000
Total, high carbon	8,020	6,270	3,170,000	212,000	164,000	83,200,000
Total, general imports of high carbon	8,020	6,270	3,170,000	212,000	164,000	83,200,000
Grand total	8,600	6,790	4,000,000	312,000	246,000	151,000,000
Grand total, general imports	8,600	6,790	4,000,000	312,000	246,000	151,000,000

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.

3/ Less than 1/2 unit.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN DECEMBER 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
China	--	--	40	28	40	28
Gabon	1,500	660	12,900 3/	10,600 3/	14,400	11,300
Ghana	17,400	6,510	--	--	17,400	6,510
Mexico	180	80	--	--	180	80
Total	19,000	7,250	13,000	10,600	32,000	17,900
Year to date: p/ 4/						
Australia	--	--	34,800	18,100	34,800	18,100
Brazil	7,030	3,250	--	--	7,030	3,250
China	--	--	40	28	40	28
Gabon	38,000	16,100	325,000	180,000	363,000	196,000
Ghana	17,400	6,510	--	--	17,400	6,510
Mexico	8,080	3,250	--	--	8,080	3,250
Morocco	--	--	40	21	40	21
United Kingdom	--	--	52	48	52	48
Total	70,500	29,100	360,000	198,000	430,000	227,000

p/ Preliminary. -- 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.

4/ May include revisions to previous months' data.

Source: U.S. Census Bureau.

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

(Metric tons, gross weight, unless otherwise specified)

Source	Manganese dioxide				Manganese metal			
	Quantity	Customs value	Year to date		Unwrought		Other	
			Quantity	Customs value	Quantity	Year to date	Quantity	Year to date
Australia	1,670	\$2,370,000	25,400	\$36,500,000	--	--	3	3
Belgium	32	63,700	769	1,260,000	--	--	--	--
Brazil	--	--	29	31,500	--	--	--	--
Canada	--	--	--	--	--	--	--	12
China	--	--	1,060	1,320,000	70	3,320	--	92
France	--	--	--	--	--	--	7	92
Germany	16	86,000	102	534,000	119	1,760	5	48
Ghana	--	--	3	4,530	--	--	--	--
Greece	--	--	1,580	2,060,000	--	--	--	--
Hong Kong	--	--	131	234,000	--	--	--	--
India	--	--	--	--	--	--	--	60
Ireland	647	902,000	9,510	13,100,000	--	--	--	--
Italy	--	--	--	--	--	--	--	1
Japan	(2/)	2,480	41	64,300	--	--	(2/)	5
Mexico	--	--	--	--	--	--	--	20
Netherlands	--	--	40	53,800	--	106	--	80
Peru	--	--	--	--	--	--	--	4
South Africa	796	1,110,000	12,200	17,200,000	953	9,160	--	--
Spain	--	--	--	--	49 3/	87 3/	--	--
Switzerland	--	--	79	80,200	--	--	--	--
Taiwan	--	--	--	--	--	--	--	18
Ukraine	--	--	--	--	--	20	--	189
United Kingdom	--	--	208	292,000	--	627	--	4
Venezuela	--	--	--	--	--	--	--	36
Total	3,160	4,540,000	51,200	72,700,000	1,190	15,100	14	663
Total, general imports	3,230	4,650,000	51,300	72,900,000	1,190	15,600	14	663

-- Zero.

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

2/ Less than 1/2 unit.

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

Note: No imports for consumption of metallic manganese waste and scrap were reported, to give a year-to-date total of 453 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/	
	December	Year to date p/ 3/	December	Year to date	December	Year to date	December	Year to date p/ 3/
Australia	15	194	--	--	--	--	--	--
Austria	--	--	--	--	--	--	--	58
Belgium	--	--	--	--	--	--	19	58
Brazil	--	67	--	--	--	4	--	--
Canada	145	4,160	64	4,330	119	1,460	65	762
Chile	--	--	--	--	--	--	--	4
Colombia	--	--	--	--	--	--	--	8
Czech Republic	--	16	--	--	--	--	--	--
Egypt	--	5	--	--	--	--	--	--
Finland	--	--	--	--	--	--	18	85
France	--	82	--	--	--	4	--	10
Germany	--	589	--	--	--	--	--	--
Hong Kong	--	54	--	--	--	--	--	3
India	--	14	--	--	--	--	--	--
Italy	--	350	--	--	--	--	--	28
Japan	11	91	--	--	--	--	77	773
Korea, Republic of	--	8	--	--	--	--	2	29
Mexico	--	142	4	144	7	373	42	248
Netherlands	--	24	--	--	5	18	18	73
Norway	--	333	--	--	--	--	--	--
Panama	--	--	--	18	--	--	--	--
Peru	--	--	--	--	--	--	--	1
Singapore	--	24	--	--	--	--	--	--
Spain	--	--	--	--	--	8	--	--
Sweden	--	--	--	--	--	--	--	19
Switzerland	--	52	--	--	--	--	--	--
Taiwan	--	11	--	--	--	--	--	48
United Kingdom	--	3,800	--	--	--	--	--	17
Venezuela	--	17	--	--	--	--	--	--
Total	170	10,000	68	4,500	131	1,870	241	2,220

p/ Preliminary. -- 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.

3/ May include revisions to previous months' data.

Note: Exports of ferromanganese with more than 2% carbon totaled 270 tons, of which 252 tons went to Canada and 18 tons went to Colombia, to give a year-to-date total of 3,450 tons.

Source: U.S. Census Bureau.

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

Class	Gross weight (metric tons)	Value 3/ (thousands)	Principal sources and destinations: gross weight (metric tons); value 3/ (thousands)	Year to date p/ 2/		
				Gross weight (metric tons)	Value 3/ (thousands)	Principal sources and destinations: gross weight (metric tons); value 3/ (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	60	\$155	South Africa 36; \$91	1,480	\$2,080	Mexico 625; \$200
Sulfates, basket category, including manganese sulfate	5,890	2,660	Mexico 2,830; \$1,360	42,100	22,700	Mexico 19,000; \$9,530
Potassium permanganate	131	250	Czech Republic 95; \$182	1,520	2,950	Czech Republic 824; \$1,590
Manganites, manganates, and other permanganates	1,350	210	China 1,350; \$210	2,770	800	China 2,720; \$411
Exports:						
Manganese dioxide	282	558	Canada 93; \$33	3,450	5,090	Canada 1,650; \$720
Manganese oxides other than dioxide	535	305	Canada 205; \$79	8,330	9,770	Canada 3,300; \$1,300
Sulfates, basket category, including manganese sulfate	2,800	959	Canada 2,510; \$612	21,800	10,400	Canada 18,400; \$5,210
Potassium permanganate	353	718	Spain 195; \$373	1,880	3,760	Spain 551; \$941
Manganites, manganates, and other permanganates	17	119	Japan 15; \$105	322	1,930	Taiwan 86; \$611

p/ Preliminary.

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

2/ May include revisions to previous months' data.

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

Source: U.S. Census Bureau.