

Mineral Industry Surveys

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MANGANESE IN JANUARY 2002

In January, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was estimated as 32,300 metric tons (t), which was nearly unchanged from that for the previous month, according to the U.S. Geological Survey. The figure for January increases to 34,700 t when estimates for

annual respondents are added on the basis of 2000 data. Corresponding industry stocks of ore at the end of the month were 143,000 t, which includes an estimate for annual respondents on the basis of 2000 data. This was 10% greater than had been estimated for the corresponding figure for stocks at the end of December.

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
2000:						
December	20,000	21,100	41,100	85	594	679
January-December	251,000	514,000	765,000	3,110	9,730	12,800
2001:						
January	23,400 3/	35,100	58,400	185	1,830	2,020
February	11,900	25,400	37,300	723 3/	383	1,110
March	24,600 3/	24,300 3/	48,900	425	645	1,070
April	23,100	34,800	57,900	138	630	768
May	28,600 3/	45,700	74,300	267	967	1,230
June	11,100	32,000	43,100	200	655	855
July	30,600	35,600 3/	66,200	349	635	984
August	22,300 3/	45,800	68,100	1,040	713	1,750
September	2,520	38,900	41,400	215	740	954
October	3,120 3/	37,400 3/	40,500	360	1,770	2,130
November	30,300 3/	15,200 3/	45,500	370	1,520	1,890
December	10,200	28,800	39,000	316	1,020	1,340
Total	222,000	399,000	621,000	4,580	11,500	16,100

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/ 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 DECEMBER 2001 1/

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Australia	3,280	2,180	\$1,620,000	47,100	31,200	\$19,600,000
Canada	--	--	--	436	288	106,000
Georgia	--	--	--	4,920	3,200	2,070,000
Germany	--	--	--	7	4	2,320
India	--	--	--	39,800	25,400	16,000,000
Japan	--	--	--	10	46	23,800
Kazakhstan	--	--	--	32,300	22,100	13,700,000
Lithuania	--	--	--	4,000	2,710	1,720,000
Mexico	2,400	1,570	1,150,000	14,900	9,730	7,090,000
Norway	--	--	--	10,400	6,320	6,000,000
Poland	2,430	1,630	1,060,000	2,430	1,630	1,060,000
Romania	5,180	3,360	2,370,000	12,000	7,840	5,620,000
South Africa	6,380	4,300	2,740,000	92,000	62,500	37,400,000
Spain	--	--	--	7,430	3,440	2,340,000
Venezuela	--	--	--	1,500	960	615,000
Total	19,700	13,000	8,930,000	269,000	177,000	113,000,000
Total, general imports	19,700	13,000	8,930,000	269,000	177,000	113,000,000

-- 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 DECEMBER 2001 1/

(Metric tons, unless otherwise specified)

Source	Gross weight	Mn content	Customs value	Year to date		
				Gross weight	Mn content	Customs value
Low carbon:						
Canada	--	--	--	56	45	\$37,600
China	--	--	--	1,310	1,360	1,380,000
Italy	192	153	\$171,000	2,330	1,970	2,090,000
Japan	--	--	--	1	31	22,100
Mexico	--	--	--	2,010	1,610	1,490,000
Netherlands	--	--	--	21	17	18,700
Norway	1,520	937	918,000	2,910	2,060	2,080,000
South Africa	160	149	193,000	6,280	5,520	6,060,000
Total, low carbon	1,870	1,240	1,280,000	14,900	12,600	13,200,000
Total, general imports of low carbon	1,870	1,240	1,280,000	14,900	12,600	13,200,000
Medium carbon, 1%-2% C:						
Brazil	1,310	1,050	631,000	1,330	1,060	652,000
China	--	--	--	3,800	3,040	2,260,000
France	--	--	--	44	35	28,200
Germany	--	--	--	11	8	6,090
Mexico	1,700	1,380	1,030,000	17,300	13,900	11,500,000
Norway	--	--	--	2,110	1,730	1,110,000
South Africa	2,570	2,090	1,400,000	29,500	23,800	17,400,000
Spain	--	--	--	1,100	1,120	842,000
Total, m.c., 1%-2% C	5,580	4,520	3,060,000	55,100	44,700	33,800,000
Total, general imports of m.c., 2%-4% C	5,580	4,520	3,060,000	55,100	44,700	33,800,000
Medium carbon, 2%-4% C:						
Ukraine	--	--	--	1,360	1,020	538,000
Total, general imports of m.c., 1%-2% C	--	--	--	1,360	1,020	538,000
High carbon:						
Australia	5,170	3,960	1,530,000	28,700	22,000	10,100,000
Brazil	2,610	2,040	903,000	6,660	5,170	2,400,000
Canada	--	--	--	99	75	54,800
France	--	--	--	50,100	41,800	18,000,000
Germany	--	--	--	9	7	3,060
India	--	--	--	3,480	2,640	1,320,000
South Africa	3,210	2,500	1,160,000	89,400	69,300	31,900,000
Spain	--	--	--	1,470	1,110	573,000
Total, high carbon	11,000	8,500	3,590,000	180,000	142,000	64,300,000
Total, general imports of high carbon	11,000	8,500	3,590,000	180,000	142,000	64,300,000
Grand total	18,400	14,300	7,940,000	251,000	200,000	112,000,000
Grand total, general imports	18,400	14,300	7,940,000	251,000	200,000	112,000,000

-- Zero.

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

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN DECEMBER 2001 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	--	--	16,300	8,570	16,300	8,570
Year to date:						
Australia	--	--	34,300	18,000	34,300	18,000
Brazil	7,700	3,460	17	17	7,720	3,480
Canada	--	--	1	(3/)	1	(3/)
China	--	--	74	74	74	74
Gabon	23,300	11,000	248,000	147,000	271,000	158,000
Mexico	4,520	1,720	--	--	4,520	1,720
Morocco	--	--	40	21	40	21
South Africa	11,600	4,160	27,900	13,200	39,500	17,400
Total	47,100	20,300	310,000	178,000	358,000	199,000

-- 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/ Less than 1/2 unit.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE AND MANGANESE METAL IN DECEMBER 2001 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	1,350	\$1,940,000	20,600	\$30,800,000	--	--	--	15
Belgium	--	--	463	751,000	--	--	--	--
Canada	--	--	--	--	--	--	--	2
China	54	54,300	1,650	1,670,000	--	3,600	60	178
France	10	2,620	10	9,740	--	--	14	69
Germany	41	206,000	110	513,000	181	2,210	6	32
Greece	--	--	563	728,000	--	--	--	--
India	--	--	1	3,130	--	--	--	282
Ireland	487	654,000	7,250	10,000,000	--	--	--	--
Japan	--	--	314	700,000	--	--	4	14
Malaysia	--	--	--	--	--	--	--	5
Mexico	--	--	--	--	--	--	--	83
Morocco	--	--	1	2,530	--	--	--	--
Netherlands	--	--	--	--	--	--	--	60
Russia	--	--	--	--	--	--	--	385
South Africa	817	1,200,000	7,270	10,400,000	1,040	12,700	--	--
Spain	--	--	--	--	76	727	--	--
United Kingdom	--	--	6	13,500	--	149	--	(2/)
Total	2,750	4,060,000	38,300	55,600,000	1,300	19,400	84	1,130
Total, general imports	2,750	4,060,000	38,300	55,600,000	1,300	19,300	84	1,150

-- 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 194 tons, all of which was from Canada, to give a year-to-date total of 1,060 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 2001 1/

(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	--	89	--	--	--	21	--	2
Barbados	--	21	--	--	--	--	--	--
Belgium	--	--	--	--	--	--	56	169
Brazil	--	256	--	--	--	15	--	--
Canada	146	4,340	370	3,050	91	999	41	164
Chad	--	--	--	--	--	--	--	1
Chile	--	3	--	--	--	--	--	6
China	15	15	--	--	--	--	--	--
Finland	--	--	--	--	--	--	--	36
France	--	--	--	--	10	22	--	29
Germany	85	577	--	--	--	--	--	63
Hong Kong	--	21	--	--	--	--	--	11
Indonesia	26	26	--	--	12	14	--	--
Ireland	--	137	--	--	--	--	--	--
Israel	--	271	--	--	--	--	--	--
Italy	30	515	--	--	--	--	--	8
Japan	--	19	113	146	--	--	110	724
Korea, Republic of	--	8	--	--	--	--	4	18
Mexico	--	76	--	150	23	2,500	2	207
Netherlands	173	345	--	--	--	45	--	199
Norway	139	596	--	--	--	--	--	--
Philippines	--	--	--	23	--	--	--	--
Poland	--	42	--	--	--	--	--	--
Saudi Arabia	--	21	--	--	--	--	--	--
Singapore	--	--	--	4	--	--	--	--
Spain	--	--	--	--	18	26	--	31
Sweden	20	282	--	--	--	--	39	128
Switzerland	--	138	--	--	--	--	--	--
Taiwan	--	80	--	--	--	--	--	16
United Kingdom	--	1,270	--	--	--	--	--	--
Venezuela	--	16	--	848	--	--	--	5
Total	633	9,170	483	4,220	153	3,640	252	1,820

-- 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 359 tons, all of which went to Canada, to give a year-to-date total of 5,020 tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN DECEMBER 2001, 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)
<u>Imports for consumption:</u>						
Manganese oxides other than dioxide	121	\$198	South Africa 72; \$179	1,600	\$1,640	Mexico 896; \$254
Sulfates, basket category, including manganese sulfate	3,900	1,380	China 1,540; \$422	33,400	18,800	Mexico 12,500; \$6,520
Potassium permanganate	94	170	Czech Republic 77; \$152	1,550	2,960	Czech Republic 870; \$1,720
Manganites, manganates, and other permanganates	--	--	--	69	283	China 34; \$35
<u>Exports:</u>						
Manganese dioxide	275	287	Canada 192; \$60	4,240	6,160	Canada 1,870; \$730
Manganese oxides other than dioxide	476	396	Canada 273; \$106	6,180	6,670	Canada 2,550; \$1,010
Sulfates, basket category, including manganese sulfate	1,680	591	Canada 1,490; \$377	27,200	16,600	Canada 22,100; \$5,490
Potassium permanganate	22	48	Canada 48; \$76	1,060	2,340	Spain 365; \$668
Manganites, manganates, and other permanganates	20	160	Japan 15; \$125	434	2,730	Japan 117; \$858

-- 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.