

Mineral Industry Surveys

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MANGANESE IN SEPTEMBER 2001

In September, reported consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 33,200 metric tons (t), which was just slightly less than that for the previous month, according to the U.S. Geological Survey. This brought the year-to-date total to 268,000 t. The figures for September increase to 35,600 t and 292,000 t, respectively, 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 estimated as 178,000 t, which includes an estimate for annual respondents on the basis of 2000 data. This was a decrease of about 15% compared with the corresponding figure for stocks at the end of August, for the second consecutive month of a significant stock decrease.

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

Foreign trade data for September will appear in a subsequent report. The data for August tabulated in this report indicate that the number of units of manganese received as ferromanganese was the greatest since June 2000. Those from South Africa

accounted for more than 60% of the August total. Note: For early availability, the trade data appearing in this report were placed on MINES FaxBack in preliminary form as of October 24. The FaxBack document number for the preliminary September trade data will be 420209.

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 September. This was the fourth consecutive month that no disposals were reported.

The history, geology, mines, and numerous minerals of the Val Graveglia manganese district east of Genoa in northwestern Italy are discussed in a recent article (Marchesini and Pagano, 2001). The article contains a number of color photographs of minerals found there.

Reference Cited

Marchesini, Marco, and Pagano, Renato, 2001, The Val Graveglia manganese district, Liguria, Italy: Mineralogical Record, v. 32, no. 5, September-October, p. 349-379, 415.

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

(Metric tons, manganese content) 2/

	Impo	rts for consumption		Exports			
	Ore and Ferroalloy		Ferroalloy				
	dioxide	and metal	Total	Ore	and metal	Total	
2000:							
August	21,200	44,700	65,800	438	652	1,090	
January-August	186,000	363,000	550,000	2,270	6,780	9,040	
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	
Total	176,000	279,000	454,000	3,320	6,460	9,780	

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

Source: U.S. Census Bureau.

 ${\bf TABLE~2} \\ {\bf U.S.~IMPORTS~FOR~CONSUMPTION~OF~SILICOMANGANESE~IN~AUGUST~2001~1/}$

(Metric tons, unless otherwise specified)

				Year to date		
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value	weight	content	value
Australia	3,220	2,120	\$1,380,000	35,800	23,700	\$14,200,000
Canada	76	44	18,000	243	161	56,500
India				38,600	24,800	15,300,000
Japan		-		10	46	23,800
Kazakhstan	6,000	4,160	2,500,000	32,300	22,100	13,700,000
Lithuania		-		4,000	2,710	1,720,000
Mexico	120	76	61,200	8,340	5,450	3,910,000
Norway				8,400	5,100	4,850,000
Romania	6,820	4,470	3,250,000	6,820	4,470	3,250,000
South Africa	4,960	3,280	1,980,000	56,200	38,400	22,100,000
Spain		-		600	371	407,000
Venezuela				1,500	960	615,000
Total	21,200	14,200	9,190,000	193,000	128,000	80,200,000
Total, general imports	21,200	14,200	9,190,000	193,000	128,000	80,200,000

⁻⁻ Zero.

^{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.

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

${\bf TABLE~3} \\ {\bf U.S.~IMPORTS~FOR~CONSUMPTION~OF~FERROMANGANESE~IN~AUGUST~2001~1/}$

(Metric tons, unless otherwise specified)

					Year to date	
	Gross	Mn	Customs	Gross	Mn	Customs
Source	weight	content	value	weight	content	value
Low carbon:						
Canada				36	29	\$19,400
China	304	267	\$334,000	1,310	1,360	1,380,000
Italy	192	163	171,000	1,430	1,230	1,270,000
Japan				1	31	22,100
Mexico				2,010	1,610	1,490,000
Netherlands				21	17	18,700
Norway				1,250	1,010	1,050,000
South Africa	1,850	1,550	1,310,000	5,040	4,360	4,550,000
Total, low carbon	2,350	1,980	1,820,000	11,100	9,660	9,780,000
Total, general imports	ŕ			ŕ		
of low carbon	2,350	1,980	1.820.000	11,100	9,660	9,780,000
Medium carbon, 1%-2% C:	*	*	· · · · · · · · · · · · · · · · · · ·	*		
Brazil				20	15	20,700
China				3,800	3,040	2,260,000
France				39	31	22,700
Germany				11	8	6,090
Mexico	84	64	76,300	10,100	8,090	6,950,000
Norway	1,080	888	557,000	2,110	1,730	1,110,000
South Africa	5,570	4,480	3,140,000	18,400	14,900	11,600,000
Spain				700	568	536,000
Total, m.c., 1%-2% C	6,730	5,430	3,770,000	35,200	28,400	22,500,000
Total, general imports	-,	-,	-,,	,	-,	,,
of m.c., 1%-2% C	6,730	5,430	3,770,000	35,200	28,400	22,500,000
Medium carbon, 1%-2% C:	-,	-,	-,,,,,,,,	,	,,	,- ,- ,- ,- ,- ,-
Ukraine	1.360	1.020	538.000	1,360	1.020	538,000
High carbon:	1,500	1,020	230,000	1,500	1,020	230,000
Australia				20,500	15,800	7,400,000
Brazil				3,980	3,070	1,470,000
Canada	82	61	45,200	99	75	54,800
France	11,000	8,640	4,100,000	39,500	31,200	15,800,000
Germany	11,000	0,040	4,100,000	9	7	3,060
India				3,480	2,640	1,320,000
South Africa	16,000	12,400	5,560,000	57,500	44,700	20,900,000
Total, high carbon	27,000	21,100	9,710,000	125,000	97,400	46,900,000
Total, general imports	21,000	21,100	7,710,000	123,000	<i>71</i> , 100	+0,700,000
of high carbon	27.000	21,100	9,710,000	125.000	97.400	46,900,000
Grand total	37,500	29,500	15,800,000	173,000	136,000	79,700,000
Grand total Grand total, general imports	37,500	29,500	15,800,000	173,000	136,000	79,700,000
Zoro	37,300	29,300	13,000,000	1/3,000	130,000	/9,/00,000

⁻⁻ Zero.

 $^{1/\,\}mathrm{Data}$ are rounded to no more than three significant digits; may not add to totals shown.

 ${\it TABLE~4}$ U.S. IMPORTS OF MANGANESE ORE (20% OR MORE Mn) IN AUGUST 2001 $1/\,2/$

(Metric tons)

	20% - 47%	Mn	47% or more	Mn	Total		
Source	Gross	Mn	Gross	Mn	Gross	Mn	
	weight	content	weight	content	weight	content	
China			20 3/	20 3/	20	20	
Gabon			34,700	20,400	34,700	20,400	
Morocco			20	11	20	11	
Total			34,700	20,400	34,700	20,400	
Year to date:	-			•	•		
Australia			18,000	9,440	18,000	9,440	
Brazil	7,700	3,460			7,700	3,460	
China			20	20	20	20	
Gabon	14,300	6,310	204,000	124,000	219,000	130,000	
Mexico	4,520	1,720			4,520	1,720	
Morocco	·		40	21	40	21	
South Africa	11,600	4,160	26,600	12,500	38,100	16,700	
Total	38,100	15,700	249,000	146,000	287,000	161,000	

⁻⁻ Zero.

Source: U.S. Census Bureau.

TABLE 5 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE AND MANGANESE METAL IN AUGUST 2001 1/

(Metric tons, gross weight, unless otherwise specified)

		Manganes	se dioxide		Manganese metal			
			Year to	date	Unwi	ought	Ot	her
		Customs		Customs				
Source	Quantity	value	Quantity	value	Quantity	Year to date	Quantity	Year to date
Australia	1,670	\$2,380,000	12,400	\$18,900,000			10	15
Belgium	18	42,100	327	511,000				
Canada								2
China	54	55,000	867	856,000	539	2,340		86
France							5	34
Germany	8	42,800	48	187,000	226	1,430		18
Greece			563	728,000				
India			1	3,130			56	282
Ireland	761	1,020,000	4,770	6,500,000				
Japan	18	66,900	297	672,000				6
Malaysia								5
Mexico								69
Morocco			1	2,530				
Netherlands							18	42
Russia								385
South Africa	633	877,000	4,230	5,910,000	1,170	8,320		
Spain					95	469		
United Kingdom			6	11,000		149	(2/)	(2/)
Total	3,160	4,480,000	23,500	34,300,000	2,030	12,700	88	943
Total, general imports	3,160	4,480,000	23,500	34,300,000	2,030	12,600	89	984

⁻⁻ Zero.

Note: No imports for consumption of metallic manganese were reported, to give a year-to-date total of 597 tons.

^{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.

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

^{2/} Less than 1/2 unit.

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)

			Ferrom	anganese,				
	Mang	Manganese ore		r less C	Silicomanganese		Manganese metal 2/	
	August	Year to date	August	Year to date	August	Year to date	August	Year to date
Australia		89			3	21		2
Barbados		21						
Belgium								56
Brazil	23	69				15		
Canada	1,430	3,200	307	1,690	20	334	1	26
Chad							1	1
Chile		3						6
Finland								36
France						4		29
Germany		414					_	60
Hong Kong		21						1
Ireland		137					_	
Israel	106	233						
Italy	226	486					7	8
Japan				21			74	365
Korea, Republic of							1	11
Mexico	16	76	33	149		2,380	19	170
Netherlands	86	86			8	37		199
Norway		139						
Saudi Arabia		21						
Singapore	-			4				
Spain						8		
Sweden	186	243						54
Switzerland		48						
Taiwan		80					16	16
United Kingdom		1,270						
Venezuela		16	3					
Total	2,070	6,650	343	1,860	31	2,800	119	1,040

⁻⁻ Zero.

Note: Exports of ferromanganese with more than 2% carbon totaled 383 tons, all of which went to Canada, to give a year-to-date total of 2,660 tons.

 $^{1/\,}Data\ are\ rounded\ to\ no\ more\ than\ three\ significant\ digits;\ may\ not\ add\ to\ totals\ shown.$

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

TABLE 7 U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN AUGUST 2001, BY CLASS 1/

					Year to	date
	Gross weight	Value 2/	Principal sources and destinations: gross weight (metric tons);	Gross weight	Value 2/	Principal sources and destinations: gross weight (metric tons);
Class	(metric tons)	(thousands)	value 2/ (thousands)	(metric tons)	(thousands)	value 2/ (thousands)
Imports for consumption:	_					
Manganese oxides other than dioxide	134	\$135	Mexico 90; \$25	1,000	\$1,070	Mexico 512; \$148
Sulfates, basket category,						
including manganese sulfate	4,010	1,520	China 2,760; \$640	21,300	12,000	China 9,170; \$3,650
Potassium permanganate	118	230	Czech Republic 82; \$161	1,150	2,240	Czech Republic 602; \$1,180
Manganites, manganates, and						
other permanganates	17	112	Germany 17; \$112	69	280	China 34; \$35
Exports:	_					
Manganese dioxide	329	1,150	Canada 91; \$28	3,070	4,740	Canada 1,260; \$492
Manganese oxides other than dioxide	558	511	Canada 214; \$85	4,640	5,400	Canada 1,780; \$708
Sulfates, basket category,						
including manganese sulfate	1,910	1,030	Canada 1,450; \$389	19,000	12,600	Canada 15,100; \$3,720
Potassium permanganate	21	538	Taiwan 10; \$21	841	1,840	Spain 365; \$668
Manganites, manganates, and					•	
other permanganates	47	126	Nicaragua 37; \$67	306	1,830	Mexico 81; \$778

^{1/} Data are rounded to no more than three significant digits. 2/ For imports, Customs value; for exports, f.a.s. value.