

# Mineral Industry Surveys

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### **MANGANESE IN OCTOBER 2021**

On a gross-weight basis, U.S. imports of manganese ore in October 2021 were 45,700 metric tons (t), 23% less than the amount in September 2021 (fig. 1, table 5). The leading source of manganese ore, >20% - <47% grade, was South Africa and for >47% grade was Gabon. Total imports of manganese ore for the first 10 months of 2021 were 39% more than those during the same period in 2020.

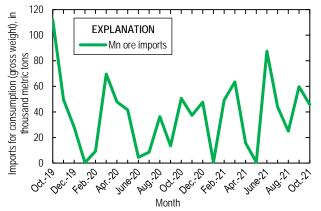


Figure 1. Monthly imports of manganese (Mn) ore from October 2019 through October 2021. Source: U.S. Census Bureau.

#### Prices

In October 2021, the average spot prices for manganese ore deliveries to China were \$4.69 per metric ton unit, 36%–38% grade, and \$5.45 per metric ton unit, 44% grade, both slightly more than the September 2021 prices (fig. 2, table 1). Compared

with the monthly average prices in October 2020, the 36%–38%-grade price was 14% more and the 44%-grade price was 25% more.

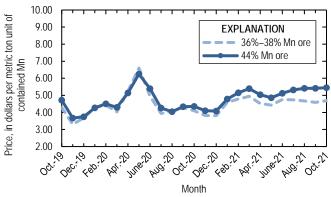


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from October 2019 through October 2021. Source: CRU Group.

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<u>https://www.usgs.gov/centers/nmic/minerals-information-</u> <u>publication-list-services.</u>

# TABLE 1 PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN OCTOBER 2021

		-
2 405 50		
e 2,487.50	2,531.25	2,575.00
e 193.75	196.88	200.00
. 120.75	124.13	127.50
d 330.00	385.94	450.00
e 4.60	4.69	4.75
o. 5.40	5.45	5.50
c lo	o.         120.75           id         330.00           se         4.60	o.         120.75         124.13           ad         330.00 $385.94$ se $4.60$ $4.69$

do. Ditto.

<sup>1</sup>S&P Global Platts Metals Week; in U.S. warehouse; average prices reported for all transactions during the month.

<sup>2</sup>CRU Group, United States transaction prices, electrolytic manganese metal flake, 99.7% manganese, ex-works. Average prices are the average of the month high and low range. <sup>3</sup>CRU Group, cost, insurance, and freight, China. Average prices are the average of the month high and low range.

<sup>4</sup>To determine dollars per metric ton of ore (gross weight), multiply the manganese content percentage by the price; that is, by 44 when the manganese content is 44%.

# TABLE 2 SELECTED U.S. FOREIGN TRADE IN MANGANESE<sup>1</sup>

#### (Metric tons)

	Impo	Imports for consumption				
	Ore and	Ferroalloy				
	dioxide	and metal	Total	Ore	and metal	Total
2020:						
October	50,800 r	39,500 <sup>r</sup>	90,300 <sup>r</sup>	40 <sup>r</sup>	1,100 <sup>r</sup>	1,140 <sup>r</sup>
January-October	286,000 r	413,000 r	699,000 <sup>r</sup>	780 <sup>r</sup>	10,300 <sup>r</sup>	11,000 <sup>r</sup>
2021:						
January	989	24,600	25,500	83	2,930	3,020
February	49,400	71,300	121,000	77	2,670	2,750
March	64,200	65,800	130,000	50	1,940	1,990
April	16,700	22,800	39,500	52	1,260	1,310
May	1,000	58,600	59,600	412	1,650	2,060
June	88,800	74,800	164,000	68	1,690	1,760
July	44,300	32,200	76,500	87	1,590	1,670
August	25,400	62,400	87,800	176	1,330	1,500
September	60,800	58,400	119,000	41	1,120	1,160
October	46,400	67,700	114,000		1,100	1,100
January-October	398,000	538,000	936,000	1,050	17,300	18,300

<sup>r</sup>Revised. -- Zero.

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

#### TABLE 3

## U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN OCTOBER $2021^{1,\,2,\,3}$

(Metric tons,		

					January-October <sup>4</sup>	
	Gross	Mn	-	Gross	Mn	
Country or locality	weight	content	Value	weight	content	Value
Australia	8,000	5,250	\$17,400,000	45,600	30,000	\$66,700,000
Brazil				913	603	983,000
Georgia	13,600	10,100	22,800,000	73,300	54,000	93,900,000
India				500	276	720,000
Malaysia	694	453	691,000	19,700	13,000	21,500,000
Mexico	850	550	1,180,000	9,410	6,100	11,300,000
Norway	1,320	828	2,610,000	23,900	14,800	37,700,000
Russia	6,200	1,140	13,500,000	8,890	1,610	16,900,000
South Africa	10,800	7,020	11,900,000	63,700	41,300	64,800,000
Spain				314	187	463,000
Other (1 country or locality)				20	13	25,400
Total	41,500	25,300	70,000,000	246,000	162,000	315,000,000

-- Zero.

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

<sup>2</sup>Includes Harmonized Tariff Schedule of the United States code 7202.30.0000.

<sup>3</sup>Presentation of monthly data is based on the January–October quantities (gross weight) of the leading countries.

<sup>4</sup>May include revisions to previously published data.

#### TABLE 4 U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN OCTOBER 2021<sup>1</sup>

#### (Metric tons, unless otherwise specified)

						January-Octol	ber <sup>2</sup>
Type and country		Gross	Mn		Gross	Mn	
or locality	HTS <sup>3</sup> code	weight	content	Value	weight	content	Value
Low carbon, less than 1% C:	7202.19.1000						
Canada					2	2	\$3,260
India					1	1	2,400
Japan		196	158	\$460,000	868	699	1,570,000
Mexico		116	95	155,000	433	349	569,000
Norway		2,050	1,670	5,720,000	33,500	27,200	65,600,000
South Africa		44	42	83,300	479	428	761,000
Spain		1	1	2,190	1	1	2,190
Total		2,410	1,970	6,420,000	35,300	28,700	68,500,000
Medium carbon, 1%–2% C:	7202.19.5000						
Australia					9,510	7,240	13,400,000
China					20	16	50,600
India					756	575	752,000
Japan					96	77	149,000
Korea, Republic of		2,000	1,600	4,220,000	15,700	12,600	26,900,000
Mexico		83	67	128,000	1,610	1,220	2,900,000
Norway					3,500	2,860	5,080,000
South Africa		4,520	3,610	10,000,000	24,500	19,600	43,100,000
Total		6,610	5,270	14,400,000	55,700	44,200	92,400,000
High carbon, over 4% C: <sup>4</sup>	7202.11.5000						
Australia		8,110	6,240	16,400,000	37,200	28,400	53,900,000
France		238	181	324,000	1,460	1,120	2,130,000
India		135	103	168,000	32,100	24,100	37,500,000
Korea, Republic of		1,000	760	1,360,000	13,000	10,000	16,200,000
Malaysia		48	37	77,600	47,900	36,300	43,300,000
Norway					500	395	371,000
Russia					7,580	4,890	8,690,000
South Africa		4,090	3,120	6,490,000	21,400	16,300	25,900,000
Switzerland					2,310	1,760	2,170,000
Zambia		99	77	142,000	939	725	1,140,000
Other [4 countries and (or) localities]		20	12	41,700	858	639	1,500,000
Total		13,700	10,500	25,000,000	165,000	125,000	193,000,000
Grand total		22,800	17,800	45,800,000	256,000	198,000	354,000,000

-- Zero.

<sup>1</sup>Data rounded to no more than three significant digits; may not add to totals shown. <sup>2</sup>May include revisions to previously published data.

<sup>3</sup>Harmonized Tariff Schedule of the United States.

<sup>4</sup>Presentation of monthly data is based on the January–October quantities (gross weight) of the leading countries.

#### TABLE 5 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN OCTOBER 2021<sup>1</sup>

					January–October <sup>2</sup>		
		Gross	Mn		Gross	Mn	
Type and country or locality	HTS <sup>3</sup> code	weight	content	Value	weight	content	Value
More than 20%, but less than 47% manganese:	2602.00.0040						
Gabon	_				4,500	2,070	\$1,320,000
Mexico	_				45,600	17,400	7,670,000
South Africa	_	132	61	\$34,900	74,000	29,500	10,700,000
Total	_	132	61	34,900	124,000	48,900	19,700,000
47% or more manganese:	2602.00.0060						
Brazil	_				193	97	135,000
Canada	_	18	17	3,500	18	17	3,500
France	_				1	1	2,020,000
Gabon	_	45,300	23,900	9,250,000	259,000	139,000	54,100,000
Mexico	_	95	65	95,300	190	130	194,000
Morocco	_				2,210	1,210	950,000
South Africa	=	200	97	76,000	5,900	2,920	1,710,000
Total	=	45,600	24,100	9,420,000	267,000	144,000	59,100,000
Grand total	_	45,700	24,100	9,460,000	392,000	193,000	78,800,000

#### (Metric tons, unless otherwise specified)

-- Zero.

<sup>1</sup>Data rounded to no more than three significant digits; may not add to totals shown. <sup>2</sup>May include revisions to previously published data.

<sup>3</sup>Harmonized Tariff Schedule of the United States.

#### TABLE 6

## U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN OCTOBER $2021^{1,\,2,\,3}$

#### (Metric tons, unless otherwise specified)

			January–	October <sup>4</sup>
	Gross		Gross	
Country or locality	weight	Value	weight	Value
Belgium			37	\$144,000
Brazil	18	\$20,100	170	201,000
Canada			26	41,300
China	4	13,500	82	238,000
Greece	462	1,060,000	2,900	6,550,000
Japan	175	392,000	2,510	5,570,000
Mexico	21	36,000	84	143,000
Morocco			51	79,000
South Africa	19	45,600	323	748,000
Spain			192	396,000
Other [2 countries and (or) localities]			28	114,000
Total	698	1,560,000	6,410	14,200,000

-- Zero.

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

<sup>2</sup>Includes Harmonized Tariff Schedule of the United States code 2820.10.0000.

<sup>3</sup>Presentation of monthly data is based on the January–October quantities (gross weight) of the leading countries.

<sup>4</sup>May include revisions to previously published data.

#### TABLE 7

#### U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN OCOTBER $2021^1$

#### (Metric tons, unless otherwise specified)

				January–C	October <sup>2</sup>
		Gross	_	Gross	
Type and country or locality	HTS <sup>3</sup> code	weight	Value	weight	Value
Unwrought flake:	8111.00.4700				
China		324	\$1,410,000	3,100	\$6,390,000
Gabon				4	9,700
Japan		8	396,000	10	2,740,000
Mexico				26	91,500
South Africa		631	1,500,000	5,140	12,400,000
Total		964	3,310,000	8,280	21,600,000
Unwrought powder:	8111.00.4910				
China				193	316,000
Mexico		3	19,100	10	39,500
South Africa		59	136,000	1,370	3,390,000
United Kingdom				(4)	4,000
Total		62	155,000	1,580	3,740,000
Unwrought, other:	8111.00.4990				
China		2,030	4,580,000	21,200	44,000,000
Germany		172	522,000	1,220	2,690,000
South Africa		61	141,000	366	905,000
Spain				7	10,300
Total		2,270	5,250,000	22,800	47,600,000
Other manganese, wrought:	8111.00.6000				
Canada				(4)	7,540
China		(4)	2,750	13	60,600
France				(4)	3,090
Germany		8	123,000	134	1,940,000
Japan				(4)	20,200
Mexico		20	133,000	226	1,050,000
Sweden		12	187,000	28	432,000
United Kingdom				(4)	9,720
Total		40	445,000	401	3,520,000
Metallic waste and scrap	8111.00.3000				
Canada		71	29,000	387	159,000
Japan				8	48,000
Total		71	29,000	395	207,000
Grand total		3,400	9,180,000	33,400	76,700,000

-- Zero.

<sup>1</sup>Data rounded to no more than three significant digits; may not add to totals shown. <sup>2</sup>May include revisions to previously published data. <sup>3</sup>Harmonized Tariff Schedule of the United States.

<sup>4</sup>Less than <sup>1</sup>/<sub>2</sub> unit.

#### TABLE 8 U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE, AND MANGANESE METAL BY COUNTRIES OR LOCALITY OF DESTINATION IN OCTOBER 2021<sup>1</sup>

#### (Metric tons, unless otherwise specified)

		Cara	-	January–Oo	ctober <sup>2</sup>
Trans and soundary on loss lites	1 mg <sup>3</sup>	Gross	Value	Gross	Value
Type and country or locality Ore and concentrates with 20% or more manganese:	HTS <sup>3</sup> code 2602.00.0000	weight	Value	weight	Value
Belgium	2002.00.0000			20	\$57,100
Canada				562	361,000
Dominican Republic				29	21,500
India				2 <i>9</i> 97	91,200
Mexico				279	137,000
Netherlands	—			14	52,500
Singapore	—			20	52,500 8,570
United Kingdom	—			20 25	15,000
Total	—			1,050	744,000
Ferromanganese:	7202.19.0000			1,050	744,000
2% or less carbon:	7202.19.0000				
				218	427,000
Argentina Canada		22			7,540,000
Chile	_		\$57,200	4,180 20	33,900
Jamaica	—	24	44 000	20 24	44,900 44
Mexico		24	44,900	24	
				3 2	6,230
Romania					4,490
Uruguay Total				5	8,620
	7202 11 0000	46	102,000	4,450	8,070,000
More than 2% carbon:	7202.11.0000	10	124.000	10	124.000
Brazil		48	134,000	48	134,000
Canada		27	87,600	4,050	4,670,000
Chile				10	28,000
China				15	42,200
Finland				2	6,930
Indonesia				3	9,200
Jamaica				16	44,900
Mexico				90	233,000
Peru				38	115,000
Taiwan				4	9,900
Other [2 countries and (or) localities]				3	6,990
Total		75	222,000	4,280	5,300,000
Ferrosilicon manganese	7202.30.0000				
Canada		412	966,000	3,280	4,890,000
Colombia				203	299,000
Honduras				2	5,100
Japan	_	(4)	4,100	(4)	4,100
Mexico				62	146,000
Peru				190	279,000
Total		413	970,000	3,740	5,630,000
Metal, including alloys and waste and scrap: <sup>5, 6</sup>	8111.00.0000				
Canada		5	10,900	507	1,930,000
Dominican Republic				48	130,000
Germany				82	413,000
Japan				103	372,000
Korea, Republic of				25	9,140
Malaysia		546	265,000	3,650	2,010,000
Mexico		11	88,700	35	272,000
Netherlands				165	1,030,000
Turkey				29	10,600
Vietnam				100	80,000
Other [16 countries and (or) localities]		1	9,120	79	1,390,000
Total		562	374,000	4,820	7,650,000
Grand total		1,100	1,670,000	18,300	27,400,000

-- Zero.

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

<sup>2</sup>May include revisions to previously published data.

<sup>3</sup>Harmonized Tariff Schedule of the United States.

<sup>4</sup>Less than <sup>1</sup>/<sub>2</sub> unit.

<sup>5</sup>Presentation of monthly data is based on the January–October quantities (gross weight) of the leading countries.

<sup>6</sup>Includes manganese-aluminum, other alloys, and waste and scrap.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN OCTOBER 2021 <sup>1</sup>

					January–October <sup>2</sup>		uary–October <sup>2</sup>
				Principal sources			Principal sources
				and destinations:			and destinations:
		Gross weight	Value	gross weight (metric tons);	Gross weight	Value	gross weight (metric tons);
Compound	HTS <sup>3</sup> code	(metric tons)	(thousands)	value (thousands)	(metric tons)	(thousands)	value (thousands)
mports for consumption:							
Manganese oxides other than dioxide	2820.90.0000	1,600	\$1,210	South Africa 999; \$769.	21,700	\$13,600	India 7,480; \$5,090.
Manganites, manganates, and other permanganates	2841.69.0090			XX	70	417	India 39; \$92.
Potassium permanganate	2841.61.0000			XX	758	1,680	India 697; \$1,540.
Sodium permanganate	2841.69.0010	218	463	India 146; \$309.	1,100	2,020	India 555; \$1,140.
Other sulfates, including manganese sulfate	2833.29.5100	5,850	4,580	Mexico 2,400; \$1,980.	61,500	47,200	Mexico 20,220; \$15,200.
Exports:							
Manganese dioxide	2820.10.0000	1,050	1,220	Canada 565; \$489.	7,940	9,260	Canada 5,050; \$3,670.
Manganese oxides other than dioxide	2820.90.0000	490	857	United Arab Emirates 116; \$279.	5,000	10,100	United Arab Emirates 1,660; \$2,770
Manganites, manganates, and other permanganates	2841.69.0090	1	3	Canada 1; \$3.	147	435	Canada 144; \$309.
Potassium permanganate	2841.61.0000	300	835	Belgium 198; \$517.	2,840	8,240	Belgium 1,500; \$3,800.
Sodium permanganate	2841.69.0010	169	400	Belgium 132; \$316.	539	1,520	Belgium 343; \$793.
Other sulfates, including manganese sulfate	2833.29.9100	1,960	4,620	Canada 1,420; \$2,080.	16,700	38,100	Canada 9,990; \$9,640.

-- Zero. XX Not applicable.

<sup>1</sup>Data are rounded to no more than three significant digits. <sup>2</sup>May include revisions to previously published data. <sup>3</sup>Harmonized Tariff Schedule of the United States.