

Mineral Industry Surveys

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MANGANESE IN OCTOBER 2020

On a gross-weight basis, U.S. imports of manganese ore in October 2020 were 50,600 metric tons (t), an increase from 13,500 t in September 2020 (fig. 1, table 5). Total imports of manganese ore during the first 10 months of 2020 were 282,000 t, 21% less than those during the same period in 2019 (357,000 t).

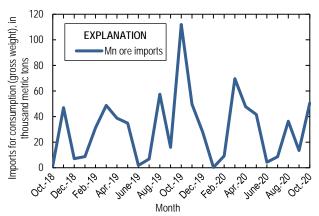


Figure 1. Monthly imports of manganese (Mn) ore from October 2018 through October 2020. Source: U.S. Census Bureau.

In October 2020, the average spot prices for manganese ore deliveries to China were \$4.10 per metric ton unit, 36%–38% grade, and \$4.35 per metric ton unit, 44% grade (fig. 2, table 1). Compared with September 2020 prices, the 36%–38%-grade price was 5% less and the 44%-grade price was essentially

unchanged. Compared with the monthly average prices in October 2019, the 36%–38%-grade price was 4% less and the 44%-grade price was 8% less.

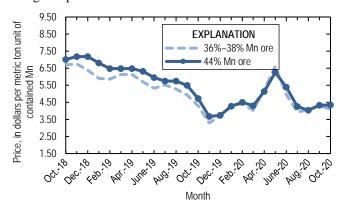


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from October 2018 through October 2020. Source: CRU Group.

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

 ${\it TABLE~1}$ PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN OCTOBER 2020

		Low	Average	High
Manganese ferroalloys: ¹				
High-carbon ferromanganese, 76% manganese	dollars per long ton of contained manganese	1,090.00	1,120.00	1,150.00
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	87.00	91.00	95.00
Silicomanganese, 65% manganese	do.	51.00	51.75	52.50
Manganese metal, 99.7% manganese flake ²	cents per pound	89.00	91.83	94.00
Manganese ore: ^{3, 4}				
36%–38% manganese	dollars per metric ton unit contained manganese	3.88	4.10	4.38
44% manganese	do.	4.30	4.35	4.40

do. Ditto.

¹S&P Global Platts; in U.S. warehouse; average prices reported for all transactions during the month.

²CRU 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 ran ³CRU Group, cost, insurance, and freight, China. Average prices are the average of the month high and low range.

⁴To 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%.

 $\label{eq:table 2} \textbf{TABLE 2}$ SELECTED U.S. FOREIGN TRADE IN MANGANESE 1

(Metric tons, manganese content)²

	Imp	orts for consumpti	on	Exports				
	Ore and	Ferroalloy			Ferroalloy			
	dioxide	and metal	Total	Ore	and metal	Total		
2019:								
October	71,800	23,200	95,000	69	950 ^r	1,020		
January-October	204,000	453,000 ^r	657,000 ^r	487 ^r	13,200	13,700		
2020:								
January	460	51,800	52,300	20	670	690		
February	1,530	38,000	39,500	8	980	990		
March	32,300	50,500	82,700	40	940	980		
April	27,800	25,600	53,400	49	860	910		
May	21,000	46,400	67,400	121	310	430		
June	2,310	15,000	17,300	18	720	740		
July	2,060	6,110	8,170	38	1,750	1,790		
August	18,500	12,300	30,800	43	1,130	1,170		
September	10,500	25,500	36,000	34	760	800		
October	32,100	29,700	61,800	20	900	920		
January-October	149,000	301,000	449,000	390	9,030	9,420		

rRevised.

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

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

TABLE 3 U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN OCTOBER $2020^{1,\,2}$

(Metric tons, unless otherwise specified)

					January-October	3
	Gross	Mn	_	Gross	Mn	
Source	weight	content	Value	weight	content	Value
Australia				47,900	31,600	\$46,800,000
Brazil				901	588	802,000
Georgia	15,500	11,500	\$16,100,000	66,700	48,200	73,900,000
India				25	15	27,700
Kazakhstan				24	16	20,700
Korea, Republic of				220	153	227,000
Malaysia				10,600	6,920	9,140,000
Mexico	1,500	985	1,350,000	10,600	7,020	9,740,000
Norway	640	388	721,000	12,600	6,310	15,100,000
Oman				1,390	912	1,320,000
Russia				2,850	1,210	2,850,000
South Africa	6,400	4,160	5,760,000	49,400	30,600	46,600,000
Total	24,100	17,000	24,000,000	203,000	134,000	207,000,000

⁻⁻ Zero.

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

²Includes Harmonized Tariff Schedule of the United States code 7202.30.0000.

³May include revisions to previously published data.

TABLE 4 U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN OCTOBER $2020^{\rm 1}$

(Metric tons, unless otherwise specified)

						January-Octob	er ^{2, 3}
Type and country		Gross	Mn		Gross	Mn	
or locality	HTS ⁴ code	weight	content	Value	weight	content	Value
Low carbon, less than 1% C:	7202.19.1000						
China		165	134	\$278,000	340	277	\$578,000
Germany					4	4	10,600
Iceland		45	36	75,800	45	36	75,800
Japan		88	71	122,000	670	537	998,000
Korea, Republic of					5,010	4,610	9,000,000
Mexico					318	253	461,000
Norway		1,620	1,320	2,180,000	22,300	18,000	31,800,000
South Africa		163	154	278,000	857	798	1,440,000
Total		2,080	1,710	2,940,000	29,500	24,500	44,400,000
Medium carbon, 1%–2% C:	7202.19.5000						
Brazil					540	430	497,000
India					301	241	419,000
Korea, Republic of					17,700	14,100	22,400,000
Mexico		24	18	47,400	1,000	762	1,530,000
Norway		900	735	1,010,000	1,800	1,460	2,300,000
South Africa		44	35	95,200	9,940	7,960	14,100,000
Total		969	789	1,150,000	31,300	25,000	41,300,000
High carbon, over 4% C:	7202.11.5000						
Australia					30,800	23,500	27,700,000
Brazil		498	366	364,000	1,850	1,350	1,560,000
France					748	571	857,000
India		363	278	259,000	2,290	1,730	2,030,000
Korea, Republic of					3,090	2,290	2,610,000
Malaysia		6,500	4,940	4,860,000	47,000	35,700	37,300,000
Russia		1,490	1,140	1,260,000	24,100	18,300	21,100,000
Saudi Arabia					100	75	118,000
South Africa		54	3	88,900	17,200	12,900	16,800,000
Zambia					238	81	185,000
Other [3 countries and (or) localities]					35	22	63,200
Total		8,900	6,730	6,830,000	128,000	96,500	110,000,000
Grand total		11,900	9,230	10,900,000	188,000	146,000	196,000,000

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

²Presentation of monthly data is based on the January–October (gross weight) quantities of the leading countries.

³May include revisions to previously published data.

⁴Harmonized Tariff Schedule of the United States.

TABLE 5 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN OCTOBER $2020^{\rm l}$

(Metric tons, unless otherwise specified)

						January-Octob	er ²
		Gross	Mn		Gross	Mn	
Type and country or locality	HTS ³ code	weight	content	Value	weight	content	Value
More than 20%, but less than 47% manganese:	2602.00.0040						
Mexico	_				35,400	10,000	\$7,430,000
South Africa	_	12,500	4,620	\$1,870,000	53,900	21,500	7,920,000
Spain	_	20	9	7,420	20	9	7,420
Total	_	12,500	4,630	1,880,000	89,300	31,600	15,400,000
47% or more manganese:	2602.00.0060	'					
Belgium	_				18	9	21,300
Brazil	_				488	241	312,000
France	_				17	8	21,300
Gabon		37,700	27,100	11,700,000	180,000	104,000	49,700,000
Mexico	_				10,000	9,010	3,310,000
Morocco	_	264	174	96,000	1,200	762	511,000
South Africa	_				600	291	263,000
Ukraine	_				31	15	2,510,000
Total	_	38,000	27,300	11,800,000	193,000	115,000	56,700,000
Grand total		50,600	31,900	13,700,000	282,000	146,000	72,000,000

⁻⁻ Zero.

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

²May include revisions to previously published data.

³Harmonized Tariff Schedule of the United States.

TABLE 6 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN OCTOBER $2020^{1.2}$

(Metric tons, unless otherwise specified)

			January–0	October ³
	Gross		Gross	
Country or locality	weight	Value	weight	Value
Belgium	5	\$12,900	48	\$226,000
Brazil		20,100	84	114,000
Canada			5	20,700
China			1	6,480
Germany			14	75,100
Greece	50	118,000	198	471,000
India	10	16,800	47	86,000
Japan	144	308,000	3,230	7,390,000
Mexico		17,800	63	107,000
Morocco			199	338,000
Spain	34	58,100	162	275,000
Total	270	551,000	4,050	9,110,000

⁻⁻ Zero.

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

²Includes Harmonized Tariff Schedule of the United States code 2820.10.0000.

³May include revisions to previously published data.

TABLE 7 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN OCTOBER 20201

(Metric tons, unless otherwise specified)

Type and country or locality Unwrought flake: HTS³ code weight Value weight Value China 8111.00.4700 - - 1,860 \$3,250 Japan (4) \$87,800 2 1,580 Singapore - - - 48 73. South Africa 1,200 2,040,000 2,970 5,710. Total 1,200 2,130,000 4,880 10,6000 Unwrought powder: 8111.00,4910 19 8,680 194 328,6 Germany - - - (4) 6,6 Mexico - - - 40 6,6 Mexico - - - 40 6,6 Total - - - - 1,60 2,570 Unwrought, other: 8111.00,4990 - - - - 1,60 2,50 1,60 2,50 1,60 2,50 1,60 1,60 1,60 1,60<				_	January–C	October ²
Unwrought flake: S111.00.4700 China Gammary Ga			Gross		Gross	
China 1,860 \$3,250,6 Japan (4) \$87,800 2 1,580,0 Singapore 48 73,3 South Africa 1,200 2,040,000 2,970 5,710,0 Total 1,200 2,130,000 4,880 10,600,0 Unwrought powder: 8111,00,4910 19 8,680 194 328,0 Germany 40 6,6 Mexico 86 317,6 South Africa 20 62,200 782 1,920,0 Total 39 70,800 1,060 2,570,0 Unwrought, other: 8111,00,4990 811,000 12,300 19,400,0 12,300 19,400,0 12,300 19,400,0 12,300 19,400,0 12,300 19,400,0 12,300 19,400,0 12,300 19,400,0 12,300 19,400,0 12,300 19,400,0 12,300 19,400,0 12,300	Type and country or locality	HTS ³ code	weight	Value	weight	Value
Japan (4) \$87,800 2 1,580,	Unwrought flake:	8111.00.4700				
Singapore 1.200 2,040,000 2,970 5,710,0 Total 1,200 2,040,000 2,970 5,710,0 Unwrought powder: 8111,00,4910 1,200 2,130,000 4,880 10,600,0 China 19 8,680 194 328,0 Germany 40 6,5 Mexico 86 317,6 South Africa 20 62,200 782 1,920,0 Total 39 70,800 1,060 2,570,0 Unwrought, other: 8111,00,4990 56 106,0 China 2,160 3,280,000 12,300 19,400,0 1	China				1,860	\$3,250,000
South Africa 1,200 2,040,000 2,970 5,710,0 Total 1,200 2,130,000 4,880 10,600,0 Unwrought powder: 8111.00.4910 19 8,680 194 328,0 Germany (4) 6,6 Mexico 86 317,7 South Africa 20 62,200 782 1,920,0 Total 39 70,800 1,060 2,570,0 Unwrought, other: 8111.00.4990 56 106,0 China 2,160 3,280,000 12,300 19,400,0 Germany 39 74,300 668 1,320,0 Luxembourg 306 526,0 Poland 30 526,0 Poland 33 54,0 Spain 33 54,0 Total 33	Japan		(4)	\$87,800	2	1,580,000
Total	Singapore				48	73,200
Dimyrought powder: Still.00.4910 Still.0	South Africa		1,200	2,040,000	2,970	5,710,000
China 19 8,680 194 328,6 Germany (4) 6, Mexico 20 62,200 782 1,920,6 Total 39 70,800 1,060 2,570,0 Unwrought, other: 8111.00,4990 56 106,6 Belgium 56 106,6 China 2,160 3,280,000 12,300 19,400,6 Germany 39 74,300 668 1,320,0 Luxembourg 306 526,6 Poland 306 526,0 Poland 40 6,5 South Africa 799 1,610,0 Spain 33 54,6 Total 2,200 3,350,000 14,200 23,000,0 Other manganese, wrought: 8111.00,600 486 936,6 <	Total		1,200	2,130,000	4,880	10,600,000
Germany 6, 6, 1 Mexico 86 317, 6 South Africa 20 62,200 782 1,920, 0 Total 39 70,800 1,060 2,570, 0 Unwrought, other: 8111.00.4990 56 106, 0 China 2,160 3,280,000 12,300 19,400, 0 Germany 39 74,300 668 1,320, 0 Luxembourg 306 526, 0 Poland 306 526, 0 Spain 306 526, 0 Spain 799 1,610, 0 Spain 33 54, 0 Total 8111.00.6000 486 936, 0 China 486 936, 0 Germany 44	Unwrought powder:	8111.00.4910				
Mexico 86 317,0 South Africa 20 62,200 782 1,920,0 Total 39 70,800 1,060 2,570,0 Unwrought, other: 8111.00.4990 56 106,0 China 2,160 3,280,000 12,300 19,400,0 Germany 39 74,300 668 1,320,0 Luxembourg 306 526,0 Poland 30 526,0 South Africa 30 526,0 Spain 33 54,0 Total 2,200 3,350,000 14,200 23,000,0 Other manganese, wrought: 8111.00,6000 33 54,0 Germany 6 91,100 134 1,800,0 Japan 44 175,0 Mexico 34 134,000 305 </td <td>China</td> <td></td> <td>19</td> <td>8,680</td> <td>194</td> <td>328,000</td>	China		19	8,680	194	328,000
South Africa 20 62,200 782 1,920,0 Total 39 70,800 1,060 2,570,0 Unwrought, other: 8111.00.4990 56 106,0 China 2,160 3,280,000 12,300 19,400,0 Germany 39 74,300 668 1,320,0 Luxembourg 306 526,0 Poland 30 526,0 South Africa 30 526,0 Spain 30 526,0 Spain 33 54,6 Total 2,200 3,350,000 14,200 23,000,6 Other manganese, wrought: 8111.00,6000 486 936,6 Germany 6 91,100 134 1,800,6 Japan 44 175,6 Sweden	Germany				(4)	6,100
Total Selgium Selgiu	Mexico				86	317,000
Numrought, other: Belgium 56 106,0	South Africa	•	20	62,200	782	1,920,000
Belgium 56 106,0 China 2,160 3,280,000 12,300 19,400,0 Germany 39 74,300 668 1,320,0 Luxembourg 306 526,0 Poland 799 1,610,0 South Africa 33 54,6 Spain 33 54,6 Total 2,200 3,350,000 14,200 23,000,0 Other manganese, wrought: 8111.00.6000 33 54,6 Germany 6 91,100 134 1,800,0 Japan 44 175,0 Mexico 34 134,000 305 754,0 Sweden 44 47,0 Mexico 41 225,000 1,010 4,170,0 Mexico	Total	•	39	70,800	1,060	2,570,000
China 2,160 3,280,000 12,300 19,400,0 Germany 39 74,300 668 1,320,0 Luxembourg 306 526,0 Poland 40 6,5 South Africa 799 1,610,0 Spain 33 54,6 Total 2,200 3,350,000 14,200 23,000,0 Other manganese, wrought: 8111.00.6000 14,200 23,000,0 China 486 936,0 Germany 6 91,100 134 1,800,0 Japan 44 175,0 Mexico 34 134,000 305 754,0 Sweden 40 4,1 Total 41 225,000 1,010 4,170,0 Metallic waste and scrap: 8111.00.3000 -	Unwrought, other:	8111.00.4990				
Germany 39 74,300 668 1,320,0 Luxembourg 306 526,0 Poland 40 6,1 South Africa 799 1,610,0 Spain 33 54,0 Total 2,200 3,350,000 14,200 23,000,0 Other manganese, wrought: 8111.00.6000 486 936,0 Germany 6 91,100 134 1,800,0 Japan 44 175,0 Mexico 34 134,000 305 754,4 Sweden 44 175,0 Metallic waste and scrap: 8111.00.3000 41 225,000 1,010 4,170,0 Mexico 46 119,0 Japan 416 119,0 Mexico	Belgium	•			56	106,000
Luxembourg 306 526,0 Poland 40 6,1 South Africa 799 1,610,0 Spain 33 54,0 Total 2,200 3,350,000 14,200 23,000,0 Other manganese, wrought: 8111.00.6000 486 936,0 Germany 6 91,100 134 1,800,0 Japan 44 175,0 Mexico 34 134,000 305 754,0 Sweden 41 41 225,000 1,010 4,170,0 Metallic waste and scrap: 8111.00.3000 416 119,0 Canada 40 46,5 46,6 Mexico 416 119,0 46,6 46,0 46,0	China		2,160	3,280,000	12,300	19,400,000
Poland	Germany	•	39	74,300	668	1,320,000
South Africa	Luxembourg	•			306	526,000
Spain 33 54,6 Total 2,200 3,350,000 14,200 23,000,0 Other manganese, wrought: 8111.00.6000 486 936,0 China 486 936,0 Germany 6 91,100 134 1,800,0 Japan 44 175,0 Mexico 34 134,000 305 754,0 Sweden 40 4,7 United Kingdom 40 4,7 Total 41 225,000 1,010 4,170,0 Metallic waste and scrap: 8111.00.3000 416 119,0 Ganada 416 119,0 4,0 Mexico 416 19,0 4,0 4,0 Total <td< td=""><td>Poland</td><td>•</td><td></td><td></td><td>(4)</td><td>6,150</td></td<>	Poland	•			(4)	6,150
Total 2,200 3,350,000 14,200 23,000,000 China 2,200 3,350,000 China 2,200 3,350,000 China 2,200 3,350,000 China 2,200 3,350,000 China 2,200 2,200,000 China 2,200 2,200,000 China 2,200 2,200,000 China 2,200 China 2,20	South Africa				799	1,610,000
Other manganese, wrought: 8111.00.6000 China 486 936,0 Germany 6 91,100 134 1,800,0 Japan (4) 11,3 Luxembourg 44 175,0 Mexico 34 134,000 305 754,1 Sweden 36 491,0 United Kingdom (4) 4,7 Total 41 225,000 1,010 4,170,0 Metallic waste and scrap: 8111.00.3000 416 119,0 Ganada 416 119,0 Japan 40 6,8 Mexico 2 5,6 Total 418 131,0	Spain	•			33	54,600
China 486 936,0 Germany 6 91,100 134 1,800,0 Japan (4) 11,3 Luxembourg 44 175,0 Mexico 34 134,000 305 754,0 Sweden 36 491,0 United Kingdom (4) 4,7 Total 41 225,000 1,010 4,170,0 Metallic waste and scrap: 8111.00.3000 416 119,0 Ganada 416 119,0 Japan 40 6,8 Mexico 2 5,6 Total 418 131,0	Total		2,200	3,350,000	14,200	23,000,000
Germany 6 91,100 134 1,800,0 Japan (4) 11,3 Luxembourg 44 175,0 Mexico 34 134,000 305 754,0 Sweden 36 491,0 United Kingdom (4) 4,70,0 Metallic waste and scrap: 8111.00.3000 416 119,0 Canada 416 119,0 Japan 2 5,0 Mexico 2 5,0 Total 418 131,0	Other manganese, wrought:	8111.00.6000				
Japan	China				486	936,000
Luxembourg 44 175,0 Mexico 34 134,000 305 754,0 Sweden 36 491,0 United Kingdom (4) 4,7 Total 41 225,000 1,010 4,170,0 Metallic waste and scrap: 8111.00.3000 416 119,0 Japan 41 6,8 Mexico 2 5,6 Total 418 131,6	Germany		6	91,100	134	1,800,000
Mexico 34 134,000 305 754,0 Sweden 36 491,0 United Kingdom (4) 4,70,0 Metallic waste and scrap: 8111.00.3000 416 119,0 Canada 416 119,0 Japan 2 5,0 Mexico 2 5,0 Total 418 131,0	Japan	•			(4)	11,300
Sweden 36 491,t United Kingdom (4) 45,7 Total 41 225,000 1,010 4,170,t Metallic waste and scrap: 8111.00.3000 416 119,t Ganada (4) 6,8 Japan 2 5,6 Mexico 418 131,0 Total 418 131,0	Luxembourg	•			44	175,000
United Kingdom (4) 4,7 Total 41 225,000 1,010 4,170,0 Metallic waste and scrap: 8111.00.3000 416 119,0 Canada (4) 6,8 Japan 2 5,0 Mexico 418 131,0 Total 418 131,0	Mexico	•	34	134,000	305	754,000
Total 41 225,000 1,010 4,170,000 Metallic waste and scrap: 8111.00.3000 Canada 416 119,000 Japan 40 6,800 Mexico 2 5,000 Total 418 131,000	Sweden				36	491,000
Total 41 225,000 1,010 4,170,000 Metallic waste and scrap: 8111.00.3000 Canada 416 119,000 Japan 40 6,800 Mexico 2 5,000 Total 418 131,000	United Kingdom				(4)	4,730
Canada 416 119,0 Japan (4) 6,6 Mexico 2 5,0 Total 418 131,0		•	41	225,000	1,010	4,170,000
Japan (4) 6,5 Mexico 2 5,0 Total 418 131,0	Metallic waste and scrap:	8111.00.3000				
Mexico 2 5,0 Total 418 131,0	Canada				416	119,000
Total 418 131,0	Japan				(4)	6,850
Total 418 131,0	Mexico	•			2	5,060
Crond total 2 470 5 790 000 21 500 40 500 0	Total	•			418	131,000
Grand total $5,4/0$ $5,780,000$ $21,500$ $40,500,0$	Grand total		3,470	5,780,000	21,500	40,500,000

⁻⁻ Zero.

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

²May include revisions to previously published data. ³Harmonized Tariff Schedule of the United States.

⁴Less than ½ 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 2020^1

(Metric tons, unless otherwise specified)

			_	January-October ^{2, 3}	
	4	Gross		Gross	
Type and country or locality	HTS ⁴ code	weight	Value	weight	Value
Ore and concentrates with 20% or more manganese:	2602.00.0000				
Belgium	_			305	\$450,000
Canada				255	242,000
India		40	\$34,300	40	34,300
Ireland				3	19,300
Japan	<u> </u>			40	70,600
Mexico				27	28,900
Netherlands				64	241,000
St. Lucia				6	27,800
United Kingdom				40	25,300
Total		40	34,300	780	1,140,000
Ferromanganese:	7202.19.0000				
2% or less carbon:					
Canada	_	6	8,500	1,070	1,500,000
Dominican Republic				10	24,900
Israel				40	75,400
Mexico				2	4,210
South Africa	_			8	14,400
Total	_	6	8,500	1,130	1,610,000
More than 2% carbon:	7202.11.0000				
Canada	_	717	834,000	2,320	2,440,000
Costa Rica				3	12,300
India				59	78,000
Total		717	834,000	2,380	2,530,000
Ferrosilicon manganese:	7202.30.0000		,,,,,,	7	,,
Canada	_	121	141,000	1,350	1,640,000
Mexico	_			78	146,000
Turkey				1	3,360
Total	_	121	141,000	1,430	1,790,000
Metal, including alloys and waste and scrap: ⁵	8111.00.0000	121	111,000	1,150	1,770,000
Australia				49	26,500
Brazil				17	881,000
Canada		11	31,100	51	205,000
France			51,100	18	6,530
Germany	_			76	127,000
India	_			511	197,000
Japan	_			52	177,000
Malaysia	_	241	149,000	4,300	2,010,000
South Africa	_	241	149,000	4,300	197,000
	_			152	,
Turkey		 1			56,400
Other [12 countries and (or) localities]	_		20,700	52	732,000
Total	<u>—</u>	253	200,000	5,320	4,610,000
Grand total		1,140	1,220,000	11,100	11,700,000

⁻⁻ Zero.

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

²Presentation of monthly data is based on the January–October quantities (gross weight) of the leading countries.

³May include revisions to previously published data.

⁴Harmonized Tariff Schedule of the United States.

 $^{^5\}mbox{Includes}$ manganese-aluminum, other alloys, and waste and scrap.

TABLE 9 U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN OCTOBER 20201

					January–October ²		
				Principal sources			Principal sources
				and destinations:			and destinations:
		Gross weight	Value	gross weight (metric tons);	Gross weight	Value	gross weight (metric tons);
Compound	HTS ³ code	(metric tons)	(thousands)	value (thousands)	(metric tons)	(thousands)	value (thousands)
Imports for consumption:							
Manganese oxides other than dioxide	2820.90.0000	1,610	\$1,100	India 516; \$340.	15,700	\$9,410	South Africa 8,400; \$3,820.
Manganites, manganates, and other permanganates	2841.69.0090	14	26	Canada 14; \$26.	110	565	China 38; \$67.
Potassium permanganate	2841.61.0000	97	226	India 90; \$208.	656	1,610	India 637; \$1,510.
Sodium permanganate	2841.69.0010	56	105	China 38; \$63.	970	1,710	China 934; \$1,630.
Other sulfates, including manganese sulfate	2833.29.5100	6,280	3,830	India 2,290; \$1,330.	66,200	46,600	Mexico 21,100; \$14,700.
Exports:							
Manganese dioxide	2820.10.0000	479	715	Canada 328; \$281.	5,170	6,670	Canada 3,360; \$2,760.
Manganese oxides other than dioxide	2820.90.0000	570	922	United Arab Emirates 114; \$163.	4,500	8,870	United Arab Emirates 969; \$1,410.
Manganites, manganates, and other permanganates	2841.69.0090	20	40	Canada 20; \$40.	145	306	Canada 105; \$206.
Potassium permanganate	2841.61.0000	193	571	Belgium 144; \$352.	2,430	6,750	Belgium 1,030; \$2,450.
Sodium permanganate	2841.69.0010	2	8	Singapore 2; \$8.	428	1,220	Belgium 305; \$646.
Other sulfates, including manganese sulfate	2833.29.9100	2,410	3,180	Canada 1,970; \$1,380.	18,200	29,600	Canada 12,500; \$9,260.

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

²May include revisions to previously published data.

³Harmonized Tariff Schedule of the United States.