



Mineral Industry Surveys

For information, contact:

Lisa A. Corathers, Manganese Commodity Specialist
U.S. Geological Survey
989 National Center
Reston, VA 20192
Telephone: (703) 648-4973, Fax: (703) 648-7757
E-mail: lcorathers@usgs.gov

Connie Lopez (Data)
Telephone: (703) 648-7995
Fax: (703) 648-7975
E-mail: connielopez@usgs.gov

Internet: <http://minerals.usgs.gov/minerals>

MANGANESE IN OCTOBER 2012

Preliminary domestic data (gross weight) for October 2012 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 45,100 metric tons (t). This was an 11% increase from the amount consumed in September 2012. Manganese ore consumption during the first 10 months of 2012 was 439,000 t (includes revisions to previously published data), which was slightly less than the revised amount that was consumed during

the same period in 2011 (444,000 t). Industry stocks of ore at the end of October 2012 were 214,000 t, which was an 8% decrease from those at the end of September 2012.

Included in this Mineral Industry Surveys are U.S. spot market prices and U.S. foreign trade data for selected manganese-containing materials in October 2012.

TABLE 1
 PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN OCTOBER 2012

		High	Low	Average	Average low, mid, and high
Manganese ferroalloys:¹					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,210.00	1,190.00	1,200.00	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	88.00	85.00	86.50	XX
Silicomanganese, 65% manganese	do.	60.00	58.00	59.00	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	140.00	135.00	XX	136.11–137.39–138.67
Manganese ore:^{3,4}					
36%–39% manganese	dollars per metric ton unit contained manganese	4.55	4.45	XX	4.45–4.50–4.55
44% manganese	do.	5.10	4.85	XX	4.85–4.98–5.10
46% manganese	do.	5.15	4.90	XX	4.90–5.03–5.15

do. Ditto. XX Not applicable.

¹Platts Metals Week; in U.S. warehouse; average prices reported for all transactions during the month.

²Ryan's Notes North American transaction prices, electrolytic manganese metal flake, 99.99% manganese, free-on-board producing point or Chicago/Pittsburgh warehouse; average prices reported for the price range.

³Ryan's Notes, cost and freight, China; average prices reported for the price range.

⁴To determine dollars per metric ton of ore (gross weight), multiply the manganese content percentage by the price; that is, by 46 when the manganese content is 46%.

TABLE 2
SELECTED U.S. FOREIGN TRADE IN MANGANESE¹

(Metric tons, manganese content)²

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2011:						
January–December	283,000	541,000	824,000	681	12,500	13,200
January–October	231,000	477,000	709,000	540 ^r	10,400	11,000
January	28,900	44,500	73,400	36	1,080	1,120
February	9,160	30,400	39,600	46	1,240	1,290
March	50,900	68,900	120,000	73	1,740	1,810
April	1,720	27,800	29,500	61	1,150	1,210
May	21,100	51,000	72,100	33	1,800	1,830
June	26,800	68,700	95,500	59	519	578
July	11,500	57,400	69,000	82	669	750
August	25,500	50,600	76,100	65	902	967
September	38,800	55,800	94,600	--	611	611
October	16,900	22,300	39,200	84	708	792
2012:						
January	11,800	53,000	64,800	36	603	639
February	12,400	34,900	47,300	158	616	775
March	24,500	54,000	78,400	352	848	1,200
April	3,960	59,500	63,400	106	816	922
May	15,500	49,500	65,000	42	620	662
June	30,100	21,000	51,100	19	576	595
July	19,900	77,300	97,300	57	687	744
August	8,020	59,900	67,900	12	1,360	1,370
September	44,600	59,100	104,000	27	1,490	1,510
October	17,800	32,500	50,300	12	1,030	1,040
January–October	189,000	501,000	689,000	821	8,640	9,460

^rRevised. -- Zero.

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

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

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN OCTOBER 2012¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–October		
				Gross weight	Mn content	Customs value ²
Australia	--	--	--	9,570	6,490	\$9,880,000
Azerbaijan	--	--	--	1,500	984	1,700,000
Canada	--	--	--	50	34	39,000
China	10	5	\$10,600	10	5	10,600
Georgia	3,830	2,540	4,120,000	102,000	69,000	109,000,000
Germany	--	--	--	216	95	281,000
India	104	58	160,000	2,670	1,520	4,210,000
Indonesia	--	--	--	602	393	786,000
Italy	--	--	--	1,270	843	1,740,000
Korea, Republic of	--	--	--	1,120	697	1,620,000
Macedonia	--	--	--	6,110	3,970	8,530,000
Mexico	2,500	1,630	3,020,000	20,800	13,500	24,600,000
Norway	--	--	--	25,900	16,100	44,600,000
Russia	--	--	--	6,200	4,210	8,380,000
South Africa	2,000	1,310	2,400,000	93,200	62,100	112,000,000
Spain	4,500	2,960	4,760,000	18,800	12,300	23,800,000
Vietnam	--	--	--	592	370	674,000
Total	12,900	8,510	14,500,000	290,000	193,000	351,000,000

-- Zero.

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

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN OCTOBER 2012¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–October		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	217	205	\$510,000	5,970	5,580	\$16,400,000
India	272	217	435,000	6,450	5,220	10,800,000
Korea, Republic of	--	--	--	2,040	1,850	5,440,000
Mexico	850	689	1,450,000	7,190	5,800	12,400,000
Norway	636	515	1,000,000	7,970	6,450	12,900,000
South Africa	--	--	--	120	110	330,000
Vietnam	--	--	--	1,040	899	2,040,000
Total	1,980	1,630	3,390,000	30,800	25,900	60,400,000
Medium carbon, 1%–2% C:						
China	20	15	46,200	60	46	144,000
India	4	3	5,360	4	3	5,360
Korea, Republic of	--	--	--	20,400	16,500	30,100,000
Mexico	120	92	254,000	1,900	1,440	3,890,000
Norway	400	326	508,000	15,000	12,200	20,600,000
South Africa	1,940	1,540	2,750,000	25,200	20,200	37,600,000
Turkey	--	--	--	19	14	63,300
Total	2,480	1,980	3,570,000	62,600	50,400	92,400,000
Medium carbon, 2%–4% C:						
Germany	--	--	--	11	9	31,100
South Africa	--	--	--	129	109	303,000
Total	--	--	--	141^r	117^r	334,000
High carbon:						
Australia	--	--	--	26,800	20,900	26,300,000
Bahrain	--	--	--	102	81	145,000
Brazil	--	--	--	219	163	228,000
Canada	5	3	7,290	18	13	33,300
China	--	--	--	481	379	547,000
France	--	--	--	2,500	1,910	3,000,000
India	--	--	--	513	387	496,000
Korea, Republic of	--	--	--	3,430	2,650	3,300,000
Norway	1,400	1,130	1,600,000	13,100	10,200	13,400,000
Saudi Arabia	--	--	--	1,400	1,010	1,180,000
South Africa	20,400	15,700	21,300,000	164,000	126,000	174,000,000
Spain	--	--	--	125	95	141,000
Ukraine	20	12	20,600	37,600	28,700	42,300,000
Total	21,900	16,900	23,000,000	250,000	193,000	265,000,000
Grand total	26,300	20,500	29,900,000	344,000	269,000	418,000,000

^rRevised. -- Zero.

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

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN OCTOBER 2012^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ⁴	January–October ³		
				Gross weight	Mn content	Customs value ⁴
More than 20%, but less than 47% manganese:						
Brazil	--	--	--	2,580	682	\$669,000
Colombia	--	--	--	18	5	4,170
Gabon	--	--	--	26,500	11,400	3,380,000
Mexico	--	--	--	4,580	1,650	904,000
South Africa	--	--	--	71,700	28,300	10,300,000
Total	--	--	--	105,000	42,000	15,300,000
47% or more manganese:						
Australia	--	--	--	20,700	10,300	3,120,000
Belgium	--	--	--	5,600	2,820	446,000
Brazil	--	--	--	2,900	1,550	1,040,000
Canada	--	--	--	1	1	4,760
China	--	--	--	19	18	88,800
Gabon	31,100	15,400	\$7,230,000	228,000	117,000	53,100,000
Japan	--	--	--	(5)	(5)	14,800
Korea, Republic of	--	--	--	20	(5)	137,000
Morocco	--	--	--	4,430	2,240	487,000
Poland	--	--	--	7	4	5,760
South Africa	32,900	1,230	5,610,000	33,000	1,290	5,660,000
Turkey	--	--	--	52	24	16,900
United Kingdom	--	--	--	1	(5)	2,990
Total	64,000	16,600	12,800,000	295,000	135,000	64,100,000
Grand total	64,000	16,600	12,800,000	400,000	177,000	79,400,000

-- Zero.

¹Quantities for general imports and imports for consumption are identical.

²Data rounded to no more than three significant digits; may not add to totals shown.

³May include revisions to previously published data.

⁴Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

⁵Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN OCTOBER 2012¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–October	
			Quantity	Customs value ²
Belgium	63	\$36,100	733	\$422,000
Brazil	--	--	19	21,800
Germany	--	--	83	141,000
India	--	--	25	20,500
Japan	752	1,640,000	6,900	16,300,000
Korea, Republic of	--	--	13	25,200
Mexico	--	--	40	35,100
Norway	--	--	260	197,000
Singapore	11	19,400	125	213,000
South Africa	1,170	2,690,000	10,500	24,400,000
Turkey	--	--	810	425,000
United Kingdom	--	--	(3)	3,840
Total	2,000	4,390,000	19,600	42,200,000

-- Zero.

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

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 7
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN OCTOBER 2012¹

(Metric tons)

Source	Gross weight	Customs value ²	January–October	
			Gross weight	Customs value ²
Unwrought flake:				
Brazil	--	--	21	\$61,400
China	1,480	\$3,620,000	11,900	32,200,000
Hong Kong	--	--	60	160,000
Japan	8	28,500	14	46,300
Mexico	--	--	143	619,000
South Africa	743	2,440,000	6,320	21,100,000
Taiwan	--	--	60	160,000
Vietnam	--	--	307	867,000
Total	2,230	6,090,000	18,900	55,200,000
Unwrought powder:				
China	--	--	258	741,000
Mexico	--	--	53	252,000
South Africa	85	405,000	1,810	7,500,000
Spain	--	--	1	2,220
Total	85	405,000	2,120	8,490,000
Unwrought, other:				
China	1,010	2,610,000	16,100	43,100,000
Germany	--	--	24	79,500
Netherlands	--	--	1	3,690
Poland	--	--	(3)	7,200
South Africa	38	153,000	515	1,970,000
Spain	75	240,000	831	2,930,000
Vietnam	--	--	100	286,000
Total	1,130	3,010,000	17,500	48,400,000
Other manganese, wrought:				
China	--	--	31	141,000
Finland	--	--	(3)	20,100
Germany	(3)	10,800	1	82,700
Japan	--	--	(3)	80,300
Mexico	11	52,300	21	98,100
Total	11	63,000	54	423,000
Grand total	3,460	9,570,000	38,600	113,000,000

-- Zero.

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

²Customs value generally represent a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

³Less than ½ unit.

Note: Imports for consumption of metallic waste and scrap totaled 54 metric tons (t), all of which was from Canada, to give a January–October total of 730 t.

Source: U.S. Census Bureau.

TABLE 8
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE,
AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN OCTOBER 2012^{1, 2}

Source	Gross weight (metric tons)	F.a.s. ³ value (thousands)	January–October	
			Gross weight (metric tons)	F.a.s. ³ value (thousands)
Ore and concentrates with 20% or more manganese:				
Aruba	--	--	78	\$20
Canada	5	\$4	309	348
China	--	--	51	66
Denmark	--	--	77	32
Hong Kong	--	--	11	39
Indonesia	--	--	3	3
Korea, Republic of	--	--	272	351
Latvia	--	--	19	11
Netherlands	18	61	793	950
United Kingdom	--	--	21	28
Other (3 countries)	--	--	5	18
Total	23	65	1,640	1,870
Ferromanganese:				
2% or less carbon:				
Canada	22	30	957	1,350
Guatemala	--	--	23	43
Hungary	--	--	3	5
Japan	20	41	200	460
Mexico	--	--	108	195
Saudi Arabia	--	--	25	55
Spain	--	--	20	48
Turkey	59	135	179	437
Total	101	206	1,520	2,600
More than 2% carbon:				
Brazil	--	--	33	93
Cameroon	--	--	8	26
Canada	20	25	681	857
Chile	--	--	33	93
China	79	41	139	78
Malaysia	591	287	1,610	909
Mexico	--	--	66	94
Norway	--	--	7	22
Saudi Arabia	--	--	11	31
Singapore	6	17	36	100
Other (5 countries)	--	--	14	36
Total	696	370	2,640	2,340
Silicomanganese:				
Brazil	19	48	293	712
Canada	503	652	4,240	5,720
Dominican Republic	--	--	9	21
Indonesia	--	--	10	16
Mexico	--	--	362	514
Total	522	700	4,910	6,990
Metal, including alloys and waste and scrap:⁴				
Brazil	--	--	57	180
Canada	12	25	143	368
China	64	138	829	2,460
France	--	--	128	576
Germany	--	--	136	295
India	--	--	178	405
Japan	--	--	98	266
Mexico	11	25	251	716
Norway	--	--	128	576
Taiwan	--	--	59	125
Other (12 countries)	57	127	197	426
Total	144	315	2,200	6,400
Grand total	1,490	1,660	12,900	20,200

See footnotes at end of table.

TABLE 8—Continued
 U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE,
 AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN OCTOBER 2012^{1,2}

-- Zero.

¹Presentation of monthly data is based on the year-to-date quantities (gross weight) of the leading countries.

²Data rounded to no more than three significant digits; may not add to totals shown.

³Free alongside ship.

⁴Includes manganese-aluminum, other alloys, and waste and scrap.

Source: U.S. Census Bureau.

TABLE 9
 U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN OCTOBER 2012, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–October		
				Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	313	\$279	Mexico 160; \$141	4,520	\$4,400	South Africa 1,670; \$1,410
Manganites, manganates, and other permanganates	--	--	XX	79	482	China 53; \$134
Potassium permanganate	36	108	India 36; \$108	1,210	3,830	India 1,150; \$3,620
Sodium permanganate	20	48	China 20; \$48	340	811	China 339; \$799
Sulfates, basket category, including manganese sulfate	3,060	4,170	Mexico 1,570; \$1,350	43,600	44,800	Mexico 15,300; \$13,400
Exports:						
Manganese dioxide	647	1,480	Canada 278; \$287	7,700	14,100	Canada 4,224; \$3,600
Manganese oxides other than dioxide	554	974	Canada 200; \$220	7,630	11,900	Canada 2,000; \$2,340
Manganites, manganates, and other permanganates	4	24	Mexico 2; \$17	172	518	Canada 147; \$385
Potassium permanganate	154	425	Belgium 72; \$175	2,580	6,820	Belgium 1,714; \$4,018
Sodium permanganate	58	132	Taiwan 19; \$55	864	2,020	Belgium 356; \$684
Sulfates, basket category, including manganese sulfate	1,620	1,210	Canada 1,427; \$811	13,700	11,500	Canada 11,263; \$6,335

XX Not applicable. -- Zero.

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

²For imports, Customs value; for exports, free alongside ship value.

Source: U.S. Census Bureau.