

Mineral Industry Surveys

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MANGANESE IN NOVEMBER 2012

Preliminary domestic data (gross weight) for November 2012 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 47,500 metric tons (t). This was a 5% increase from the amount consumed in October 2012. Manganese ore consumption during the first 11 months of 2012 was 486,000 t, which was slightly less than the revised amount that was

consumed during the same period in 2011 (487,000 t). Industry stocks of ore at the end of November 2012 were 229,000 t, which was a 7% increase from those at the end of October 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 November 2012.

TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN NOVEMBER 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	1,170.00	1,175.00	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	53.50	56.06	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	136.00	134.00	XX	134.25–135.25–136.25
Manganese ore:^{3, 4}					
36%–39% manganese	dollars per metric ton unit contained manganese	4.90	4.45	XX	4.68–4.74–4.81
44% manganese	do.	5.25	4.85	XX	4.93–5.07–5.21
46% manganese	do.	5.30	4.90	XX	5.01–5.14–5.26

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–November	257,000	510,000	767,000	653 ^r	11,100	11,700
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
November	25,800	32,700	58,600	113	642	755
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	11 ^r	1,120 ^r	1,130 ^r
November	25,900	51,400	77,400	19	1,210	1,230
January–November	214,000	552,000	767,000	839	9,930	10,800

^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 NOVEMBER 2012¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–November		
				Gross weight	Mn content	Customs value ²
Australia	5,210	3,440	\$6,420,000	14,800	9,930	\$16,300,000
Azerbaijan	--	--	--	1,500	984	1,700,000
Canada	--	--	--	50	34	39,000
China	--	--	--	10	5	10,600
Georgia	10,600	7,330	11,800,000	112,000	76,400	120,000,000
Germany	--	--	--	216	95	281,000
India	1,070	629	1,600,000	3,730	2,150	5,810,000
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	3,500	2,290	4,240,000	24,300	15,800	28,900,000
Norway	1,300	813	2,080,000	27,200	17,000	46,700,000
Russia	--	--	--	6,200	4,210	8,380,000
South Africa	12,000	7,950	15,100,000	105,000	70,100	127,000,000
Spain	--	--	--	18,800	12,300	23,800,000
Vietnam	--	--	--	592	370	674,000
Total	33,700	22,400	41,200,000	324,000	215,000	392,000,000

-- 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 NOVEMBER 2012¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–November		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	6	2	\$8,360	5,970	5,590	\$16,400,000
India	--	--	--	6,450	5,220	10,800,000
Korea, Republic of	500	460	1,190,000	2,540	2,310	6,630,000
Mexico	800	640	1,370,000	7,990	6,440	13,800,000
Norway	1,220	982	1,850,000	9,190	7,430	14,800,000
South Africa	--	--	--	120	110	330,000
Vietnam	--	--	--	1,040	899	2,040,000
Total	2,520	2,080	4,410,000	33,300	28,000	64,800,000
Medium carbon, 1%–2% C:						
China	20	15	46,900	80	61	191,000
India	--	--	--	4	3	5,360
Korea, Republic of	--	--	--	20,400	16,500	30,100,000
Mexico	181	139	366,000	2,080	1,580	4,260,000
Norway	800	655	970,000	15,800	12,900	21,500,000
South Africa	635	508	976,000	25,900	20,700	38,600,000
Turkey	--	--	--	19	14	63,300
Total	1,640	1,320	2,360,000	64,300	51,700	94,800,000
Medium carbon, 2%–4% C:						
Germany	--	--	--	11	9	31,100
South Africa	36	29	80,500	165	137	383,000
Total	36	29	80,500	176	146	414,000
High carbon:						
Australia	--	--	--	26,800	20,900	26,300,000
Bahrain	--	--	--	102	81	145,000
Brazil	200	146	184,000	419	308	412,000
Canada	--	--	--	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	--	--	--	13,100	10,200	13,400,000
Saudi Arabia	--	--	--	1,400	1,010	1,180,000
South Africa	21,700	16,500	21,700,000	186,000	143,000	196,000,000
Spain	125	94	147,000	250	189	289,000
Ukraine	9,130	7,100	10,500,000	46,700	35,800	52,800,000
Total	31,100	23,900	32,500,000	282,000	217,000	298,000,000
Grand total	35,300	27,300	39,300,000	379,000	296,000	457,000,000

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

(Metric tons)

Source	Gross weight	Mn content	Customs value ⁴	January–November 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	42,000	16,800	\$6,510,000	114,000	45,100	16,800,000
Total	42,000	16,800	6,510,000	147,000	58,800	21,800,000
47% or more manganese:						
Australia	9,450	4,780	2,630,000	30,100	15,000	5,740,000
Belgium	--	--	--	5,600	2,820	446,000
Brazil	3,260	1,740	1,410,000	6,150	3,290	2,450,000
Canada	--	--	--	1	1	4,760
China	--	--	--	19	18	88,800
Gabon	--	--	--	228,000	117,000	53,100,000
Japan	--	--	--	(5)	(5)	14,800
Korea, Republic of	--	--	--	20	(5)	137,000
Morocco	851	425	51,100	5,280	2,670	538,000
Poland	--	--	--	7	4	5,760
South Africa	--	--	--	33,000	1,290	5,660,000
Turkey	--	--	--	52	24	16,900
United Kingdom	--	--	--	1	(5)	2,990
Total	13,600	6,950	4,090,000	308,000	142,000	68,200,000
Grand total	55,600	23,700	10,600,000	456,000	201,000	90,000,000

-- 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 NOVEMBER 2012¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–November	
			Quantity	Customs value ²
Belgium	--	--	733	\$422,000
Brazil	--	--	19	21,800
Germany	5	\$21,800	89	162,000
India	--	--	25	20,500
Japan	1,150	2,760,000	8,060	19,100,000
Korea, Republic of	--	--	13	25,200
Mexico	--	--	40	35,100
Norway	--	--	260	197,000
Singapore	11	19,400	137	233,000
South Africa	2,230	5,090,000	12,800	29,500,000
Turkey	234	111,000	1,040	535,000
United Kingdom	--	--	(3)	3,840
Total	3,640	8,010,000	23,200	50,200,000

-- 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 NOVEMBER 2012¹

(Metric tons)

Source	Gross weight	Customs value ²	January–November	
			Gross weight	Customs value ²
Unwrought flake:				
Brazil	--	--	21	\$61,400
China	413	\$991,000	12,300	33,200,000
Hong Kong	--	--	60	160,000
Japan	--	--	14	46,300
Mexico	--	--	143	619,000
South Africa	165	540,000	6,490	21,600,000
Taiwan	--	--	60	160,000
Vietnam	--	--	307	867,000
Total	578	1,530,000	19,400	56,700,000
Unwrought powder:				
China	--	--	258	741,000
Mexico	--	--	53	252,000
South Africa	130	501,000	1,940	8,000,000
Spain	--	--	1	2,220
Total	130	501,000	2,250	9,000,000
Unwrought, other:				
China	888	2,310,000	17,000	45,500,000
Germany	--	--	24	79,500
Netherlands	--	--	1	3,690
Poland	--	--	(3)	7,200
South Africa	57	232,000	572	2,200,000
Spain	37	120,000	869	3,050,000
Vietnam	--	--	100	286,000
Total	982	2,660,000	18,500	51,100,000
Other manganese, wrought:				
China	--	--	31	141,000
Finland	--	--	(3)	20,100
Germany	--	--	1	82,700
Japan	(3)	27,400	(3)	108,000
Mexico	--	--	21	98,100
Total	(3)	27,400	54	450,000
Grand total	1,690	4,720,000	40,300	117,000,000

-- 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 26 metric tons (t), all of which was from Canada, to give a January–November total of 756 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 NOVEMBER 2012^{1, 2}

Source	Gross weight (metric tons)	F.a.s. ³ value (thousands)	January–November	
			Gross weight (metric tons)	F.a.s. ³ value (thousands)
Ore and concentrates with 20% or more manganese:				
Aruba	--	--	78	\$20
Belgium	18	\$61	18	61
Canada	20	31	329	379
China	--	--	51	66
Denmark	--	--	77	32
Hong Kong	--	--	11	39
Korea, Republic of	--	--	272	351
Latvia	--	--	19	11
Netherlands	--	--	793	950
United Kingdom	--	--	21	28
Other (4 countries)	--	--	8	21
Total	38	92	1,680	1,960
Ferromanganese:				
2% or less carbon:				
Canada	18	39	975	1,390
Guatemala	--	--	23	43
Hungary	--	--	3	5
Japan	20	41	220	501
Mexico	--	--	108	195
Saudi Arabia	--	--	25	55
Spain	--	--	20	48
Taiwan	3	6	3	6
Turkey	--	--	179	437
Total	41	87	1,560	2,680
More than 2% carbon:				
Brazil	1	9	34	102
Cameroon	--	--	8	26
Canada	40	51	721	908
Chile	--	--	33	93
China	355	528	494	607
Colombia	8	21	8	21
Malaysia	159	81	1,770	991
Mexico	24	36	91	130
Saudi Arabia	--	--	11	31
Singapore	3	8	38	108
Other (6 countries)	--	--	21	57
Total	589	735	3,230	3,070
Silicomanganese:				
Brazil	20	48	312	760
Canada	742	946	4,980	6,670
Dominican Republic	--	--	9	21
Indonesia	--	--	10	16
Mexico	--	--	362	514
Total	762	994	5,680	7,980
Metal, including alloys and waste and scrap:⁴				
Belgium	--	--	76	166
Canada	6	18	149	385
China	87	348	916	2,810
France	--	--	128	576
Germany	30	66	166	361
Guatemala	51	230	68	259
India	2	5	180	410
Japan	--	--	98	266
Mexico	3	9	254	725
Norway	--	--	128	576
Other (14 countries)	27	58	247	593
Total	206	733	2,410	7,130
Grand total	1,640	2,640	14,500	22,800

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 NOVEMBER 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 NOVEMBER 2012, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–November		
				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	498	\$558	Mexico 242; \$223	5,020	\$4,950	South Africa 1,870; \$1,630
Manganites, manganates, and other permanganates	4	9	India 4; \$9	83	492	China 53; \$134
Potassium permanganate	198	579	India 198; \$579	1,410	4,410	India 1,350; \$4,200
Sodium permanganate	59	124	China 59; \$124	399	935	China 398; \$923
Sulfates, basket category, including manganese sulfate	7,540	6,960	China 2,970; \$3,680	51,200	51,800	Mexico 17,100; \$15,000
Exports:						
Manganese dioxide	783	1,180	Canada 568; \$441	8,490	15,300	Canada 4,790; \$4,040
Manganese oxides other than dioxide	473	975	Canada 219; \$356	8,100	12,900	Canada 2,220; \$2,690
Manganites, manganates, and other permanganates	16	75	Canada 13; \$35	188	592	Canada 161; \$421
Potassium permanganate	274	757	Belgium 145; \$352	2,850	7,570	Belgium 1,860; \$4,370
Sodium permanganate	102	268	Korea, Republic of 31; \$93	965	2,290	Belgium 374; \$715
Sulfates, basket category, including manganese sulfate	1,620	1,310	Canada 1,330; \$852	15,300	12,800	Canada 12,600; \$7,190

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.