



Mineral Industry Surveys

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MANGANESE IN SEPTEMBER 2013

Preliminary domestic data (gross weight) for September 2013 indicated that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 31,000 metric tons (t). This was 18% less than the amount consumed in August 2013. Manganese ore consumption during the first 9 months of 2013 was 398,000 t, which was slightly higher than that of the same period in 2012. Industry

stocks of ore at the end of September 2013 were estimated to be 186,000 t, which was slightly higher than those at the end of August 2013.

Included in this Mineral Industry Surveys are U.S. spot market prices and U.S. foreign trade data for selected manganese-containing materials in September 2013.

TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN SEPTEMBER 2013

		High	Low	Average	Average low, mid, and high
<u>Manganese ferroalloys:¹</u>					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,020.00	990.00	1,010.00	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	87.00	86.00	86.50	XX
Silicomanganese, 65% manganese	do.	52.50	50.50	51.50	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	130.00	128.00	XX	128.00–129.00–130.00
<u>Manganese ore:^{3,4}</u>					
36%–39% manganese	dollars per metric ton unit contained manganese	4.50	4.25	XX	4.25–4.38–4.50
44% manganese	do.	5.40	5.30	XX	5.30–5.35–5.40
46% manganese	do.	5.45	5.35	XX	5.35–5.40–5.45

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
2012:						
September	44,600	59,100	104,000	27	1,490	1,510
January–September	171,000	468,000	639,000 [†]	809	7,610	8,420
2013:						
January	11,300	26,200	37,500	16	464	480
February	30,100	48,400	78,500	10	588	599
March	38,100	49,100	87,200	29	1,410	1,440
April	1,020	63,400	64,400	13	1,530	1,550
May	26,100	51,300	77,400	22	1,060	1,080
June	24,900	52,700	77,600	31	345	376
July	2,810	34,100	36,900	12	343	355
August	36,600	36,600	73,200	84	368	452
September	50,000	39,200	89,200	12	204	216
January–September	221,000	401,000	622,000	229	6,310	6,540

[†]Revised.

¹Data are 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 SEPTEMBER 2013¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–September		
				Gross weight	Mn content	Customs value ²
Australia	7,540	5,210	\$6,640,000	50,600	34,000	\$47,900,000
Bahrain	--	--	--	1,450	968	1,750,000
Canada	--	--	--	45	30	36,400
China	--	--	--	8	4	11,800
Georgia	9,280	6,690	8,660,000	91,100	64,700	89,800,000
India	--	--	--	2,810	1,670	4,220,000
Korea, Republic of	--	--	--	6,650	3,560	6,950,000
Mexico	--	--	--	21,300	13,900	22,400,000
Norway	500	325	369,000	23,600	14,900	30,200,000
South Africa	2,500	1,650	2,550,000	42,800	30,000	46,100,000
Spain	--	--	--	5,010	3,260	5,410,000
Total	19,800	13,900	18,200,000	245,000	167,000	255,000,000

-- Zero.

¹Data are 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 SEPTEMBER 2013¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	January–September		
				Gross weight	Mn content	Customs value ²
Low carbon:						
Canada	--	--	--	37	30	\$56,700
China	292	276	\$601,000	5,580	5,300	13,000,000
Korea, Republic of	--	--	--	1,700	1,530	3,810,000
Mexico	--	--	--	500	405	868,000
Norway	1,400	1,130	1,990,000	11,400	9,200	16,500,000
South Africa	216	204	537,000	1,390	1,300	3,420,000
Vietnam	--	--	--	175	140	303,000
Total	1,910	1,610	3,130,000	20,800	17,900	38,000,000
Medium carbon, 1%–2% C:						
China	--	--	--	140	107	327,000
Hong Kong	--	--	--	208	166	320,000
India	--	--	--	506	392	737,000
Korea, Republic of	--	--	--	10,100	8,080	12,900,000
Mexico	73	57	141,000	4,720	3,550	6,820,000
Norway	750	608	927,000	7,450	6,210	8,930,000
South Africa	2,560	2,060	3,600,000	10,600	8,520	15,200,000
Vietnam	--	--	--	8	6	11,900
Total	3,390	2,730	4,670,000	33,700	27,000	45,200,000
Medium carbon, 2%–4% C, South Africa	--	--	--	18	14	40,300
High carbon:						
Australia	7,550	5,940	6,290,000	28,300	21,500	25,500,000
Bahrain	--	--	--	29	23	33,600
Brazil	--	--	--	532	401	494,000
Canada	27	19	33,700	133	90	163,000
France	--	--	--	8,250	6,420	7,840,000
India	--	--	--	5	4	7,460
Korea, Republic of	--	--	--	11,300	8,490	12,000,000
Norway	800	628	644,000	2,300	1,800	1,900,000
South Africa	15,400	11,800	14,600,000	152,000	116,000	152,000,000
Spain	144	108	146,000	672	497	701,000
Ukraine	--	--	--	121	79	148,000
United Kingdom	--	--	--	2	2	3,170
Total	23,900	18,500	21,800,000	203,000	155,000	201,000,000
Grand total	29,200	22,800	29,600,000	258,000	200,000	284,000,000

-- Zero.

¹Data are 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 SEPTEMBER 2013^{1,2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	January–September		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Australia	--	--	--	33,000	15,500	\$7,400,000
Belgium	--	--	--	12	5	6,370
Brazil	--	--	--	53	23	21,700
France	--	--	--	8,010	3,560	1,820,000
Gabon	11,500	4,950	\$1,610,000	46,700	18,200	7,960,000
Ghana	--	--	--	39,800	11,200	3,830,000
Mexico	--	--	--	6,340	2,330	1,380,000
South Africa	--	--	--	31,100	11,300	4,150,000
Total	11,500	4,950	1,610,000	165,000	62,200	26,600,000
47% or more manganese:						
Argentina	--	--	--	(4)	(4)	120,000
Australia	17,000	8,380	5,560,000	27,800	13,700	8,650,000
Belgium	--	--	--	1,380	689	82,700
Brazil	391	196	23,500	7,280	3,760	3,130,000
China	40	20	37,200	40	20	37,200
France	--	--	--	2,020	1,030	627,000
Gabon	66,600	34,700	17,800,000	241,000	128,000	61,800,000
Georgia	--	--	--	63	58	230,000
Morocco	1,410	705	84,600	5,340	2,670	320,000
South Africa	--	--	--	144	70	73,600
Total	85,500	44,000	23,500,000	285,000	150,000	75,100,000
Grand total	97,000	48,900	25,100,000	450,000	213,000	102,000,000

-- Zero.

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

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

³Customs 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.

⁴Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN SEPTEMBER 2013¹

(Metric tons, gross weight)

Source	Quantity	Customs value ²	January–September	
			Quantity	Customs value ²
Belgium	--	--	7	\$19,100
Brazil	--	--	19	26,900
China	(3)	\$2,330	42	42,800
Germany	--	--	31	52,400
India	--	--	16	25,600
Japan	566	1,250,000	4,370	10,200,000
Singapore	24	40,500	147	237,000
South Africa	1,200	2,310,000	9,040	19,000,000
Turkey	--	--	117	199,000
United Kingdom	(3)	5,100	(3)	5,100
Total	1,790	3,610,000	13,800	29,800,000

-- Zero.

¹Data are 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 SEPTEMBER 2013¹
(Metric tons)

Source	Gross weight	Customs value ²	January–September	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,450	\$3,030,000	10,200	\$22,900,000
Japan	27	91,000	91	309,000
Mexico	13	58,100	176	746,000
Netherlands	--	--	76	208,000
South Africa	256	714,000	6,390	17,700,000
Total	1,750	3,890,000	16,900	41,900,000
Unwrought powder:				
China	--	--	61	134,000
South Africa	239	978,000	1,490	6,090,000
Total	239	978,000	1,550	6,220,000
Unwrought, other:				
China	458	1,240,000	14,000	34,000,000
Germany	10	25,700	124	313,000
Netherlands	--	--	19	45,300
Poland	--	--	(3)	10,700
South Africa	19	63,700	384	1,440,000
Spain	--	--	179	601,000
Total	487	1,330,000	14,700	36,400,000
Other manganese, wrought:				
China	--	--	72	164,000
Germany	--	--	7	90,700
Japan	(3)	41,100	(3)	86,200
Korea, Republic of	--	--	55	142,000
Total	(3)	41,100	134	483,000
Metallic waste and scrap:				
Canada	97	42,100	681	370,000
China	(3)	3,860	(3)	3,860
Total	98	46,000	681	373,000
Grand total	2,570	6,280,000	34,000	85,300,000

-- Zero.

¹Data are 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 8
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE,
AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN SEPTEMBER 2013^{1,2}

Source	Gross weight (metric tons)	F.a.s. value ³ (thousands)	January–September	
			Gross weight (metric tons)	F.a.s. value ³ (thousands)
Ore and concentrates with 20% or more manganese:				
Brazil	--	--	19	\$18
Canada	1	\$4	56	69
China	--	--	28	72
Malaysia	--	--	22	30
Mexico	5	10	39	66
Netherlands	18	66	167	579
Panama	--	--	17	14
Poland	--	--	54	64
Other (2 countries)	--	--	57	55
Total	24	80	459	966
Ferromanganese:				
2% or less carbon:				
Australia	--	--	32	60
Canada	41	57	356	484
Japan	40	70	139	260
Korea, Republic of	--	--	10	27
Saudi Arabia	--	--	8	15
Spain	--	--	22	51
Sweden	--	--	20	35
Turkey	--	--	279	613
Other (5 countries)	(5)	5	16	35
Total	81	132	881	1,580
More than 2% carbon:				
Brazil	--	--	37	103
Canada	23	26	349	399
Chile	--	--	19	29
Malaysia	--	--	30	122
Mexico	--	--	5	14
Singapore	8	21	14	38
United Kingdom	--	--	22	62
Other (4 countries)	--	--	25	75
Total	30	47	501	841
Silicomanganese:				
Brazil	--	--	360	360
Canada	64	95	5,080	5,540
Spain	--	--	261	370
Total	64	95	5,700	6,270
Metal, including alloys and waste and scrap:⁴				
Canada	17	70	58	205
China	25	110	554	1,410
Germany	18	73	49	197
India	--	--	236	549
Japan	--	--	25	99
Korea, Republic of	9	36	118	573
Norway	--	--	94	1,190
Pakistan	--	--	190	200
Vietnam	--	--	77	134
Other (8 countries)	5	24	61	494
Total	74	312	1,460	5,050
Grand total	273	667	9,000	14,700

-- Zero.

¹Presentation of monthly data is based on the "January–September" quantities of the leading countries.

²Data are 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.

⁵Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN SEPTEMBER 2013, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	January–September		
				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	897	\$604	South Africa, Republic of 606; \$313	3,550	\$3,430	Mexico 1,190; \$1,070
Manganites, manganates, and other permanganates	--	--	--	30	60	India 24; \$25
Potassium permanganate	144	411	India 144; \$411	913	2,630	India 913; \$2,630
Sodium permanganate	93	219	China 93; \$219	729	1,790	China 716; \$1,730
Sulfates, basket category, including manganese sulfate	3,530	4,020	Mexico 1,290; \$1,100	45,400	44,900	China 13,700; \$17,500
Exports:						
Manganese dioxide	748	1,670	Belgium 335; \$1,130	5,620	12,800	Belgium 2,110; \$7,090
Manganese oxides other than dioxide	779	1,200	Netherlands 228; \$177	6,700	11,600	Canada 1,230; \$1,480
Manganites, manganates, and other permanganates	10	43	Canada 9; \$22	195	601	Canada 122; \$314
Potassium permanganate	303	787	Belgium 206; \$478	2,370	6,430	Belgium 1,650; \$3,860
Sodium permanganate	118	274	Belgium 75; \$150	630	1,690	Belgium 211; \$423
Sulfates, basket category, including manganese sulfate	1,470	1,640	Canada 1,160; \$813	13,300	13,200	Canada 10,000; \$6,370

-- 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.