

Mineral Industry Surveys

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MANGANESE IN APRIL 2014

Preliminary domestic data (gross weight) for April 2014 indicated that consumption of manganese ore containing more than 20% manganese, exclusive of that consumed at iron and steel plants, was 25,900 metric tons (t). This was 28% less than the amount consumed in March 2014. Manganese ore consumption during the first 4 months of 2014 was 146,000 t, or 24% less than that consumed during the same period of 2013. This decrease in manganese ore consumption was primarily the result of continuing curtailment at Felman Production, LLC's silicomanganese production facility in Letart, WV. Industry stocks of ore at the end of April 2014 were estimated to be

192,000 t, which was a 14% increase from those at the end of March 2014.

Included in this Mineral Industry Surveys are U.S. spot market prices and U.S. foreign trade data for selected manganese-containing materials in April 2014.

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TABLE 1 PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN APRIL 2014

		High	Low	Average	Average low, mid, and high
Manganese ferroalloys: ¹					
High-carbon ferromanganese, 75% manganese	dollars per long ton of contained manganese	1,100.00	1,060.00	1,074.00	XX
Medium-carbon ferromanganese, 85% manganese	cents per pound of contained manganese	93.00	92.00	92.50	XX
Silicomanganese, 65% manganese	do.	62.00	59.50	60.75	XX
Manganese metal, 99.9% manganese flake ²	cents per pound	130.00	128.00	XX	128.00-129.00-130.00
Manganese ore: ^{3,4}					
36%–39% manganese	dollars per metric ton unit contained manganese	4.30	3.80	XX	3.89-3.94-3.99
44% manganese	do.	4.90	4.35	XX	4.60-4.66-4.72
46% manganese	do.	5.00	4.95	XX	4.95-4.98-5.00

do. Ditto. XX Not applicable.

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

²CRU Ryan'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.

³CRU Ryan'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%.

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

(Metric tons, manganese content)²

	Impo	rts for consump	tion				
	Ore and	Ferroalloy			Ferroalloy		
	dioxide and metal Total		Total	Ore	and metal	Total	
2013:							
April	1,020	63,400	64,400	13	1,530	1,550	
January-April	80,500	187,000	268,000	69	4,000	4,060 ^r	
2014:	_ '						
January	6,510	32,200	38,700	21	1,130	1,150	
February	28,000	61,500	89,500	202	1,100	1,310	
March	1,910	46,400	48,300	1	1,010	1,020	
April	19,100	52,100	71,100	23	464	487	
January-April	55,500	192,000	248,000	247	3,710	3,960	

rRevised.

Source: U.S. Census Bureau.

 ${\it TABLE~3} \\ {\it U.S.~IMPORTS~FOR~CONSUMPTION~OF~SILICOMANGANESE~IN~APRIL~2014}^1$

(Metric tons)

Gross	Mn				
	IVIII	Customs	Gross	Mn	Customs
weight	content	value ²	weight	content	value ²
7,510	4,970	\$8,680,000	25,500	17,100	\$25,500,000
999	649	1,120,000	999	649	1,120,000
			7,550	4,980	7,760,000
200	151	285,000	200	151	285,000
14,800	9,860	15,200,000	47,800	33,000	46,900,000
			1	1	3,700
765	490	1,030,000	1,550	979	2,200,000
			39	26	41,100
3,200	2,080	3,320,000	9,400	6,120	9,700,000
4,910	3,130	7,240,000	11,600	7,550	14,300,000
11,700	7,790	12,000,000	37,300	24,500	37,900,000
768	501	918,000	768	501	918,000
44,900	29,600	49,800,000	143,000	95,600	147,000,000
	7,510 999 200 14,800 765 3,200 4,910 11,700 768	7,510 4,970 999 649 200 151 14,800 9,860 765 490 3,200 2,080 4,910 3,130 11,700 7,790 768 501	7,510 4,970 \$8,680,000 999 649 1,120,000 200 151 285,000 14,800 9,860 15,200,000 765 490 1,030,000 3,200 2,080 3,320,000 4,910 3,130 7,240,000 11,700 7,790 12,000,000 768 501 918,000	7,510 4,970 \$8,680,000 25,500 999 649 1,120,000 999 7,550 200 151 285,000 200 14,800 9,860 15,200,000 47,800 1 765 490 1,030,000 1,550 39 3,200 2,080 3,320,000 9,400 4,910 3,130 7,240,000 11,600 11,700 7,790 12,000,000 37,300 768 501 918,000 768	7,510 4,970 \$8,680,000 25,500 17,100 999 649 1,120,000 999 649 7,550 4,980 200 151 285,000 200 151 14,800 9,860 15,200,000 47,800 33,000 1 1 765 490 1,030,000 1,550 979 39 26 3,200 2,080 3,320,000 9,400 6,120 4,910 3,130 7,240,000 11,600 7,550 11,700 7,790 12,000,000 37,300 24,500 768 501 918,000 768 501

⁻⁻Zero.

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.

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.

TABLE 4 U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN APRIL $2014^{\rm 1}$

(Metric tons)

					January–April		
	Gross	Mn	Customs	Gross	Mn	Customs	
Source	weight	content	value ²	weight	content	value ²	
Low carbon:							
China	93	82	\$234,000	3,650	3,370	\$8,400,000	
France				19	15	48,300	
Korea, Republic of	1,510	1,260	3,260,000	3,010	2,760	6,190,000	
Norway	2,130	1,720	3,220,000	5,030	4,090	7,460,000	
South Africa	512	483	1,210,000	1,350	1,280	3,180,000	
Total	4,240	3,550	7,930,000	13,100	11,500	25,300,000	
Medium carbon, 1%–2% C:							
India				1	1	3,250	
Korea, Republic of	2,000	1,630	2,670,000	5,000	4,030	6,620,000	
Mexico	217	163	439,000	496	379	1,070,000	
Norway	1,880	1,530	2,320,000	3,600	2,920	4,430,000	
South Africa	1,910	1,550	2,870,000	6,370	5,130	9,070,000	
Total	6,000	4,870	8,290,000	15,500	12,500	21,200,000	
Medium carbon, 2%–4% C, Brazil				135	100	123,000	
High carbon:							
Australia				17,000	13,000	11,300,000	
Brazil	297	210	241,000	782	568	661,000	
Canada	47	30	65,400	77	50	109,000	
France				662	503	609,000	
Korea, Republic of				219	168	225,000	
South Africa	11,900	8,920	11,100,000	59,700	45,400	53,200,000	
Spain	48	37	49,300	48	37	49,300	
Ukraine	60	43	69,900	151	103	189,000	
Total	12,400	9,240	11,500,000	78,600	59,800	66,300,000	
Grand total	22,600	17,700	27,700,000	107,000	83,900	113,000,000	

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.

TABLE 5 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN APRIL 2014 $^{\!1,2}$

(Metric tons)

				January–April			
Source	Gross weight	Mn content	Customs value ³	Gross weight	Mn content	Customs value ³	
More than 20%, but less than 47% manganese:							
China				11	5	\$6,120	
Gabon	3,000	1,290	\$392,000	31,600	12,700	5,520,000	
Mexico	3,060	1,110	680,000	3,360	1,250	773,000	
Total	6,060	2,400	1,070,000	34,900	13,900	6,300,000	
47% or more manganese:							
Australia				12,600	6,220	4,450,000	
Brazil				2,830	1,520	1,240,000	
Gabon	29,400	15,200	7,580,000	58,400	29,300	13,200,000	
Morocco	851	425	51,100	851	425	51,100	
Netherlands				5	4	5,760	
South Africa				1,400	1,080	1,320,000	
Total	30,300	15,700	7,630,000	76,100	38,500	20,300,000	
Grand total	36,300	18,100	8,710,000	111,000	52,400	26,600,000	

⁻⁻ Zero.

Source: U.S. Census Bureau.

TABLE 6 $\mbox{U.S. IMPORTS FOR CONSUMPTION OF MANGANESE} \\ \mbox{DIOXIDE IN APRIL 2014}^{1}$

(Metric tons, gross weight)

			January	–April
		Customs		Customs
Source	Quantity	value ²	Quantity	value ²
Belgium			164	\$98,600
China	60	\$48,900	62	56,800
Germany	6	10,100	14	23,200
Japan	648	1,510,000	2,060	4,740,000
Netherlands			80	34,000
Singapore		20,200	48	80,900
South Africa	980	2,460,000	2,260	5,000,000
Turkey			464	240,000
Total	1,710	4,050,000	5,150	10,300,000

⁻⁻ 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.

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.

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, U.S. import duties, freight, insurance, and other charges incurred in bringing the material into the United States.

 ${\it TABLE~7} \\ {\it U.S.~IMPORTS~FOR~CONSUMPTION~OF~MANGANESE~METAL~IN~APRIL~2014}^1$

(Metric tons)

			January–April		
	Gross	Customs	Gross	Customs	
Source	weight	value ²	weight	value ²	
Unwrought flake:					
China	1,520	\$2,920,000	2,420	\$4,890,000	
Hong Kong	60	130,000	60	130,000	
Japan	50	169,000	214	731,000	
Mexico	22	80,700	123	400,000	
South Africa	674	1,770,000	2,870	7,620,000	
Total	2,330	5,070,000	5,690	13,800,000	
Unwrought powder:					
China			20	45,200	
South Africa	258	868,000	953	3,320,000	
Total	258	868,000	973	3,360,000	
Unwrought, other:					
China	2,010	4,530,000	5,460	12,400,000	
Germany	8	20,100	16	39,400	
Mexico	9	29,900	9	29,900	
Netherlands	38	91,700	38	91,700	
Poland	(3)	4,320	(3)	4,320	
South Africa	57	161,000	193	582,000	
Spain			1	2,400	
Total	2,120	4,840,000	5,720	13,200,000	
Other manganese, wrought:					
China	(3)	2,370	(3)	2,370	
India	7	22,700	7	22,700	
Japan			(3)	4,820	
Malaysia	(3)	2,400	(3)	2,400	
Poland			(3)	2,080	
Total	7	27,500	7	34,400	
Metallic waste and scrap, Canada	119	41,200	541	387,000	
Grand total	4,830	10,800,000	12,900	30,700,000	

⁻⁻ Zero.

 $[\]ensuremath{^{1}}\xspace$ Data 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.

TABLE 8 $U.S.\ EXPORTS\ OF\ MANGANESE\ ORE\ (20\%\ OR\ MORE\ Mn),\ FERROMANGANESE,\ SILICOMANGANESE,$ AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN APRIL 2014 $^{\!1,2}$

			Januar	y–April
Source	Gross weight (metric tons)	F.a.s. ³ value (thousands)	Gross weight (metric tons)	F.a.s. ³ value (thousands)
Ore and concentrates with 20% or more manganese:				
Canada	28	\$24	374	\$820
China			19	17
Malaysia			6	8
Mexico			4	12
Netherlands	18	62	71	295
United Kingdom			20	17
Total	46	86	493	1,170
Ferromanganese:				
2% or less carbon:				
Cameroon			3	8
Canada	36	65	2,890	4,210
Colombia			1	4
Japan			100	177
Korea, Republic of			10	23
Qatar			3	6
Spain			40	82
Taiwan			6	11
Total	36	65	3,050	4,520
More than 2% carbon:			3,030	1,320
Brazil	3	8	3	8
Canada	52	83	89	146
Chile		65	48	134
Equatorial Guinea			25	76
Ireland			3	8
Mexico	20	7	20	7
Other (5 countries)			10	25
Total	75	99	196	405
Silicomanganese:		99	190	403
Canada	86	107	234	306
Mexico		107	20	33
Total	86	107	254	339
	80	107	234	339
Metal, including alloys and waste and scrap: ⁴ Canada			23	63
China	12	177	23 27	350
India				
	20	65	20 20	13 65
Japan				
Malaysia	241	213	683	412
Mexico	21	110	47	196
Norway			18	833
Philippines			36	19
United Kingdom		47	20	47
Vietnam			62	23
Other (6 countries)	7	28	22	237
Total	320	640	979	2,260
Grand total Zero.	562	997	4,970	8,690

¹Presentation of monthly data is based on the "January–April" quantities 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.

 ${\it TABLE~9} \\ {\it U.S.~FOREIGN~TRADE~IN~SELECTED~MANGANESE~CHEMICALS~IN~APRIL~2014,~BY~CLASS}^1$

					Janua	ary–April
	C : 1.	2	Principal sources and destinations:	C	2	Principal sources and destinations:
	Gross weight	Value ²	gross weight (metric tons);	Gross weight	Value ²	gross weight (metric tons);
Class	(metric tons)	(thousands)	value ² (thousands)	(metric tons)	(thousands)	value ² (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	791	\$676	Korea, Republic of 510; \$319	2,550	\$2,250	Korea, Republic of 1,630; \$1,090
Manganites, manganates, and						
other permanganates				(3)	5	Canada (3); \$5
Potassium permanganate	147	423	India 147; \$423	615	1,760	India 614; \$1,760
Sodium permanganate	110	267	China 98; \$232	589	1,430	China 539; \$1,290
Sulfates, basket category,						
including manganese sulfate	5,370	3,880	Mexico 1,580; \$1,400	19,200	15,600	Mexico 7,030; \$6,010
Exports:						
Manganese dioxide	393	608	Canada 258; \$247	1,380	2,900	Canada 645; \$612
Manganese oxides other than dioxide	1,660	2,040	Netherlands 622; \$442	4,370	6,320	Netherlands 807; \$616
Manganites, manganates, and						
other permanganates	3	25	Canada 3; \$7	64	205	Mexico 39; \$139
Potassium permanganate	315	845	Belgium 180; \$458	1,470	3,900	Belgium 927; \$2,340
Sodium permanganate	91	312	Mexico 78; \$267	332	968	Mexico 134; \$452
Sulfates, basket category,						
including manganese sulfate	1,440	1,450	Canada 1,050; \$577	6,130	7,060	Canada 4,570; \$2,660
7						

⁻⁻ Zero.

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

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

³Less than ½ unit.