

Mineral Industry Surveys

For information, contact:

Lisa A. Corathers, Manganese Commodity Specialist National Minerals Information Center U.S. Geological Survey 989 National Center Reston, VA 20192 Telephone: (703) 648-4973, Fax: (703) 648-7757 Email: lcorathers@usgs.gov Hodan A. Fatah (Data) Telephone: (703) 648-4971 Fax: (703) 648-7975 Email: hfatah@usgs.gov

Internet: https://www.usgs.gov/centers/nmic

MANGANESE IN JULY 2019

On a gross-weight basis, U.S. imports of manganese ore in July 2019 increased to 6,820 metric tons (t) from 1,830 t in June 2019 (fig. 1, table 5). Imports for the year through July totaled 171,000 t, 39% less compared with imports in the same period in 2018.

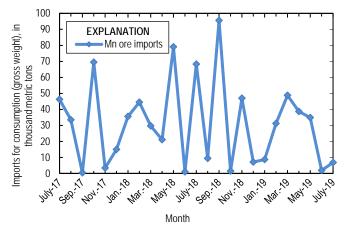


Figure 1. Monthly imports of manganese (Mn) ore from July 2017 through July 2019. Source: U.S. Census Bureau.

In July 2019, the average spot prices for manganese ore deliveries to China were \$5.52 per metric ton unit, 36%–39% grade, and \$5.75 per metric ton unit, 44% grade (fig. 2, table 1). Compared with June 2019 prices, the 36%–39%-grade price was 4% more but the 44%-grade price was 3% less. Compared with

the monthly average prices in July 2018, the 36%–39%-grade price was 14% less and the 44%-grade price was 15% less.

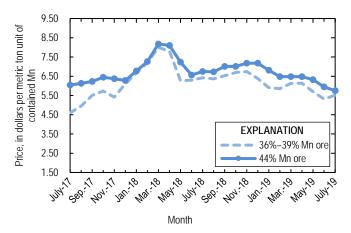


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from July 2017 through July 2019. Source: CRU Group.

List services and web feed subscribers are the first to receive notification of USGS minerals information publications and data releases. For information on how to subscribe go to

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

TABLE 1 PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN JULY 2019

| | | Low | Average | High |
|---|---|----------|----------|----------|
| Manganese ferroalloys: ¹ | | | | |
| High-carbon ferromanganese, 75% manganese | dollars per long ton of contained manganese | 1,330.00 | 1,365.00 | 1,400.00 |
| Medium-carbon ferromanganese, 85% manganese | cents per pound of contained manganese | 112.00 | 113.00 | 114.00 |
| Silicomanganese, 65% manganese | do. | 63.40 | 65.60 | 67.80 |
| Manganese metal, 99.7% manganese flake ² | cents per pound | 115.00 | 118.50 | 125.00 |
| Manganese ore: ^{3, 4} | | | | |
| 36%-39% manganese | dollars per metric ton unit contained manganese | 5.20 | 5.52 | 5.70 |
| 44% manganese | do. | 5.65 | 5.75 | 5.85 |
| | | | | |

do. Ditto.

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, 99.7% manganese, ex-works; 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 44 when the manganese content is 44%.

TABLE 2 SELECTED U.S. FOREIGN TRADE IN MANGANESE $^{\rm 1}$

(Metric tons, manganese content)²

| | Imp | Imports for consumption | | | Exports | | |
|--------------|---------|-------------------------|----------------------|-------|--------------------|--------------------|--|
| | Ore and | Ore and Ferroalloy | | | | | |
| | dioxide | and metal | Total | Ore | and metal | Total | |
| 2018: | | | | | | | |
| July | 32,900 | 35,900 | 68,800 | 1,180 | 1,550 ^r | 2,730 ^r | |
| January–July | 132,000 | 364,000 ^r | 496,000 ^r | 1,340 | 7,860 ^r | 9,200 ^r | |
| 2019: | | | | | | | |
| January | 4,670 | 27,000 | 31,600 | 19 | 1,690 | 1,710 | |
| February | 12,300 | 66,700 | 79,100 | 94 | 1,840 | 1,930 | |
| March | 25,600 | 55,700 | 81,300 | 45 | 1,330 | 1,370 | |
| April | 27,000 | 46,300 | 73,400 | 20 | 1,140 | 1,160 | |
| May | 17,500 | 59,300 | 76,800 | 27 | 1,090 | 1,120 | |
| June | 924 | 50,800 | 51,700 | 31 | 946 | 977 | |
| July | 3,400 | 28,800 | 32,200 | 96 | 1,610 | 1,700 | |
| January–July | 91,400 | 335,000 | 426,000 | 331 | 9,640 | 9,970 | |

^rRevised.

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.

TABLE 3 U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JULY 2019^1

(Metric tons)

| | | | | | January–July | 2 |
|--------------|--------|---------|--------------------|---------|--------------|--------------------|
| | Gross | Mn | Customs | Gross | Mn | Customs |
| Source | weight | content | value ³ | weight | content | value ³ |
| Australia | | | | 38,500 | 25,500 | \$48,500,000 |
| Brazil | 371 | 241 | \$348,000 | 631 | 413 | 639,000 |
| Georgia | 10,700 | 7,930 | 12,600,000 | 58,100 | 43,100 | 72,300,000 |
| India | 120 | 60 | 168,000 | 267 | 157 | 388,000 |
| Malaysia | 503 | 328 | 515,000 | 16,500 | 10,700 | 17,300,000 |
| Mexico | 3,550 | 2,310 | 3,550,000 | 14,900 | 9,670 | 16,600,000 |
| Norway | 2,550 | 1,690 | 3,010,000 | 29,800 | 19,900 | 35,000,000 |
| Russia | | | | 1 | 1 | 2,720 |
| Saudi Arabia | 102 | 82 | 106,000 | 102 | 82 | 106,000 |
| South Africa | 6,500 | 4,230 | 7,150,000 | 49,400 | 32,100 | 54,300,000 |
| Spain | 500 | 300 | 693,000 | 4,510 | 2,910 | 5,290,000 |
| Thailand | | | | 25 | 9 | 38,800 |
| Zambia | | | | 140 | 92 | 106,000 |
| Total | 24,900 | 17,200 | 28,200,000 | 213,000 | 145,000 | 251,000,000 |

-- Zero.

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

²May include revised data that are not broken out by specific month(s).

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.

TABLE 4 U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JULY 2019^1

(Metric tons)

| | | | | | January–July ² | |
|-------------------------|--------|---------|--------------------|---------|---------------------------|--------------------|
| | Gross | Mn | Customs | Gross | Mn | Customs |
| Source | weight | content | value ³ | weight | content | value ³ |
| Low carbon: | | | | | | |
| China | | | | 927 | 871 | \$1,810,000 |
| Germany | | | | 237 | 220 | 594,000 |
| Japan | 96 | 75 | \$164,000 | 673 | 530 | 1,150,000 |
| Korea, Republic of | 450 | 414 | 938,000 | 7,190 | 6,320 | 14,600,000 |
| Mexico | 18 | 15 | 45,400 | 2,180 | 1,720 | 3,810,000 |
| Norway | 1,400 | 1,130 | 2,360,000 | 26,800 | 21,700 | 45,400,000 |
| South Africa | 98 | 80 | 156,000 | 380 | 322 | 622,000 |
| Spain | 1,700 | 1,400 | 2,730,000 | 5,990 | 4,850 | 9,860,000 |
| Vietnam | 1 | 1 | 3,220 | 1 | 1 | 3,220 |
| Total | 3,760 | 3,120 | 6,400,000 | 44,400 | 36,500 | 77,900,000 |
| Medium carbon, 1%–2% C: | | | | | | |
| China | | | | 21 | 16 | 28,000 |
| India | 125 | 99 | 213,000 | 228 | 181 | 376,000 |
| Korea, Republic of | | | | 9,850 | 7,880 | 15,900,000 |
| Malaysia | | | | 21 | 16 | 30,700 |
| Mexico | 448 | 348 | 705,000 | 3,750 | 2,920 | 6,010,000 |
| Norway | 1,000 | 823 | 1,520,000 | 7,900 | 6,430 | 12,000,000 |
| South Africa | | | | 12,800 | 10,200 | 22,300,000 |
| Spain | | | | 300 | 242 | 488,000 |
| Total | 1,570 | 1,270 | 2,440,000 | 34,900 | 27,900 | 57,000,000 |
| High carbon: | | | | - | · | |
| Australia | | | | 58,900 | 45,000 | 65,600,000 |
| Brazil | | | | 1,320 | 949 | 1,430,000 |
| France | 306 | 235 | 328,000 | 796 | 608 | 921,000 |
| India | | | | 200 | 151 | 241,000 |
| Korea, Republic of | | | | 1,600 | 1,230 | 1,940,000 |
| Malaysia | 3,870 | 2,940 | 3,250,000 | 30,000 | 22,700 | 27,300,000 |
| Mexico | 4 | 3 | 6,790 | 10 | 7 | 16,300 |
| Norway | 306 | 237 | 373,000 | 306 | 237 | 373,000 |
| Russia | 2,890 | 2,220 | 2,590,000 | 19,600 | 14,900 | 17,500,000 |
| Saudi Arabia | | | | 60 | 44 | 98,200 |
| South Africa | 77 | 59 | 98,900 | 12,200 | 9,260 | 14,100,000 |
| Ukraine | | | | 5,540 | 4,210 | 4,880,000 |
| Total | 7,450 | 5,700 | 6,650,000 | 131,000 | 99,300 | 134,000,000 |
| Grand total | 12,800 | 10,100 | 15,500,000 | 210,000 | 164,000 | 269,000,000 |

-- Zero.

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

²May include revised data that are not broken out by specific month(s).

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.

TABLE 5 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN JULY 2019¹

(Metric tons)

| | | | | | January–July ² | y ² | |
|---|--------|---------|--------------------|---------|---------------------------|--------------------|--|
| | Gross | Mn | Customs | Gross | Mn | Customs | |
| Source | weight | content | value ³ | weight | content | value ³ | |
| More than 20%, but less than 47% manganese: | | | | | | | |
| China | | | | 7 | 3 | \$3,600 | |
| Mexico | | | | 8,140 | 3,050 | 1,760,000 | |
| South Africa | 6,280 | 2,890 | \$3,330,000 | 31,300 | 11,900 | 8,080,000 | |
| Total | 6,280 | 2,890 | 3,330,000 | 39,500 | 15,000 | 9,840,000 | |
| 47% or more manganese: | | | | | | | |
| Brazil | 93 | 50 | 111,000 | 464 | 234 | 383,000 | |
| Gabon | 208 | 104 | 221,000 | 130,000 | 74,200 | 44,700,000 | |
| Morocco | 39 | 22 | 50,900 | 77 | 44 | 102,000 | |
| South Africa | 200 | 97 | 87,800 | 877 | 425 | 375,000 | |
| Turkey | | | | 4 | 3 | 2,380 | |
| Total | 539 | 273 | 471,000 | 131,000 | 74,900 | 45,600,000 | |
| Grand total | 6,820 | 3,160 | 3,800,000 | 171,000 | 89,900 | 55,400,000 | |

-- Zero.

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

²May include revised data that are not broken out by specific month(s).

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.

TABLE 6 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN JULY 2019^1

| (Metric tons, | gross | weight) |
|---------------|-------|---------|
|---------------|-------|---------|

| | | | Januar | ry–July ² |
|----------|----------|--------------------|----------|----------------------|
| | | Customs | | Customs |
| Source | Quantity | value ³ | Quantity | value ³ |
| Belgium | | | 19 | \$86,600 |
| Brazil | 19 | \$21,800 | 85 | 133,000 |
| China | | | 36 | 84,300 |
| Germany | | | 20 | 101,000 |
| Greece | 99 | 248,000 | 173 | 493,000 |
| India | | | 17 | 30,100 |
| Japan | 270 | 589,000 | 2,120 | 4,690,000 |
| Morocco | 15 | 25,300 | 82 | 140,000 |
| Slovakia | | | 13 | 22,500 |
| Total | 403 | 884,000 | 2,570 | 5,780,000 |

-- Zero.

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

²May include revised data that are not broken out by specific month(s).

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.

TABLE 7 U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN JULY 2019¹

| | | | January | –July ² | |
|----------------------------------|--------|--------------------|---------|--------------------|--|
| | Gross | Customs | Gross | Customs | |
| Source | weight | value ³ | weight | value ³ | |
| Unwrought flake: | | | | | |
| China | 341 | \$720,000 | 5,590 | \$11,100,000 | |
| Gabon | | | 50 | 122,000 | |
| Hong Kong | | | 33 | 66,300 | |
| Japan | (4) | 315,000 | 1 | 1,420,000 | |
| Mexico | 5 | 21,600 | 6 | 24,500 | |
| South Africa | 339 | 779,000 | 2,640 | 6,960,000 | |
| Total | 687 | 1,840,000 | 8,320 | 19,700,000 | |
| Unwrought powder: | | | | | |
| China | 19 | 35,500 | 79 | 182,000 | |
| Mexico | 21 | 80,300 | 139 | 533,000 | |
| South Africa | | | 804 | 2,270,000 | |
| Total | 40 | 116,000 | 1,020 | 2,980,000 | |
| Unwrought, other: | | | | | |
| Belgium | | | 23 | 50,400 | |
| China | 512 | 975,000 | 13,900 | 28,100,000 | |
| Germany | 97 | 235,000 | 1,410 | 3,340,000 | |
| Japan | | | (4) | 6,260 | |
| Poland | | | (4) | 6,310 | |
| South Africa | 102 | 266,000 | 633 | 1,620,000 | |
| Spain | | | 132 | 226,000 | |
| Total | 711 | 1,480,000 | 16,100 | 33,400,000 | |
| Other manganese, wrought: | | | | | |
| Austria | | | (4) | 6,040 | |
| China | | | (4) | 27,300 | |
| Germany | 33 | 420,000 | 242 | 2,950,000 | |
| Japan | (4) | 27,400 | (4) | 47,900 | |
| Mexico | 80 | 238,000 | 320 | 957,000 | |
| Sweden | | | 2 | 23,300 | |
| United Kingdom | | | (4) | 2,090 | |
| Total | 113 | 686,000 | 564 | 4,010,000 | |
| Metallic waste and scrap, Canada | | | 261 | 79,200 | |
| Grand total | 1,550 | 4,110,000 | 26,300 | 60,200,000 | |

-- Zero.

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

²May include revised data that are not broken out by specific month(s).

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 ¹/₂ 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 JULY 2019^{1, 2}

| | | | January- | January–July ³ | | |
|---|---------------|---------------------|---------------|---------------------------|--|--|
| | | F.a.s. ⁴ | | F.a.s. ⁴ | | |
| | Gross weight | value | Gross weight | value | | |
| Source | (metric tons) | (thousands) | (metric tons) | (thousands) | | |
| Ore and concentrates with 20% or more manganese: | | | | | | |
| Bahamas | | | 6 | \$6 | | |
| Canada | 105 | \$95 | 279 | 269 | | |
| India | | | (5) | 5 | | |
| Mexico | | | 14 | 13 | | |
| Netherlands | 87 | 151 | 290 | 564 | | |
| Singapore | | | 73 | 120 | | |
| Total | 192 | 246 | 662 | 977 | | |
| Ferromanganese: | | | | | | |
| 2% or less carbon: | | | | | | |
| Canada | 3 | 4 | 1,120 | 2,000 | | |
| China | 3 | 6 | 28 | 54 | | |
| Taiwan | | | 6 | 11 | | |
| United Kingdom | | | 29 | 55 | | |
| Other [5 countries and (or) localities] | | | 26 | 49 | | |
| Total | 6 | 11 | 1,210 | 2,170 | | |
| More than 2% carbon: | | | · | - | | |
| Canada | 68 | 84 | 3,510 | 4,510 | | |
| China | | | 16 | 46 | | |
| Hong Kong | | | 1 | 3 | | |
| United Kingdom | | | 26 | 73 | | |
| Total | 68 | 84 | 3,560 | 4,630 | | |
| Silicomanganese: | | | - 1 | , | | |
| Canada | 61 | 74 | 140 | 173 | | |
| Mexico | | | 4 | 9 | | |
| Total | 61 | 74 | 144 | 182 | | |
| Metal, including alloys and waste and scrap: ⁶ | | | | | | |
| Australia | | 8 | 8 | 8 | | |
| Brazil | (5) | 8 | (5) | 8 | | |
| Canada | | | 62 | 234 | | |
| Costa Rica | (5) | 3 | 1 | 28 | | |
| Germany | 1 | 3 | 1 | 8 | | |
| Guatemala | | | 2 | 19 | | |
| Guyana | 4 | 13 | 4 | 13 | | |
| Hungary | · | | (5) | 4 | | |
| India | 7 | 29 | 139 | 78 | | |
| Japan | 16 | 61 | 85 | 317 | | |
| Malaysia | 1,240 | 685 | 4,550 | 2,290 | | |
| Mataysia | 1,240 | 24 | 4,550 | 354 | | |
| New Zealand | I | | (5) | 5 | | |
| | | | | 5 67 | | |
| Norway Pakistan | | 70 | 17 | | | |
| | 233 | 70 | 858 | 251 | | |
| Other [4 countries and (or) localities] | 1.510 | | 12 | 60 | | |
| Total | 1,510 | 904 | 5,780 | 3,750 | | |
| Grand total | 1,830 | 1,320 | 11,300 | 11,700 | | |

-- Zero.

¹Presentation of monthly data is based on the "January-July" quantities of the leading countries.

 $^2\mbox{Data}$ rounded to no more than three significant digits; may not add to totals shown.

³May include revised data that are not broken out by specific month(s).

⁴Free alongside ship.

 5Less than $^{1\!/_2}$ unit.

⁶Includes manganese-aluminum, other alloys, and waste and scrap.

TABLE 9 U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN JULY 2019, BY CLASS¹

| | | | | | January–July ² | | |
|--|---------------|--------------------|--------------------------------|---------------|---------------------------|--------------------------------|--|
| | | | Principal sources | | | Principal sources | |
| | | | and destinations: | | | 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) | |
| mports for consumption: | | | | | | | |
| Manganese oxides other than dioxide | 675 | \$617 | Brazil 326; \$225 | 9,870 | \$7,270 | South Africa 4,330; \$2,650 | |
| Manganites, manganates, and other permanganates | 19 | 43 | China 19; \$43 | 38 | 90 | China 38; \$87 | |
| Potassium permanganate | 56 | 139 | India 56; \$133 | 689 | 1,750 | India 682; \$1,720 | |
| Sodium permanganate | 56 | 104 | China 56; \$104 | 518 | 1,150 | China 499; \$1,100 | |
| Sulfates, basket category, including manganese sulfate | 3,030 | 2,810 | India 1,230; \$720 | 30,600 | 27,000 | Mexico 13,172; \$9,790 | |
| Exports: | | | | | | | |
| Manganese dioxide | 554 | 806 | Canada 302; \$232 | 3,260 | 5,630 | Canada 1,670; \$1,600 | |
| Manganese oxides other than dioxide | 367 | 597 | Poland 100; \$132 | 2,930 | 5,580 | Poland 521; \$683 | |
| Manganites, manganates, and other permanganates | 5 | 27 | Canada 4; \$9 | 113 | 340 | Canada 73; \$145 | |
| Potassium permanganate | 286 | 891 | Belgium 109; \$266 | 2,250 | 6,240 | Belgium 977; \$2,370 | |
| Sodium permanganate | 77 | 174 | Brazil 58; \$124 | 447 | 1,080 | Belgium 287; \$620 | |
| Sulfates, basket category, including manganese sulfate | 2,200 | 3,390 | Canada 1,610; \$889 | 13,800 | 21,300 | Canada 10,300; \$6,530 | |

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

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