

Mineral Industry Surveys

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MANGANESE IN JUNE 2022

On a gross-weight basis, U.S. imports of manganese ore in June 2022 were 12,200 metric tons (t), 87% less than the 91,600 t of May 2022 (fig. 1, table 5). In June 2022, the leading source of manganese ore, >20% – <47% grade, was Mexico and the leading source for >47% grade was South Africa. Total imports of manganese ore for the first six months of 2022 were 20% more than those during the same period in 2021.

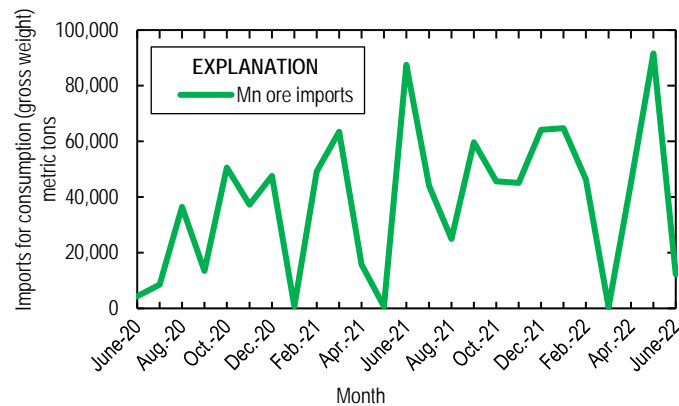


Figure 1. Monthly imports of manganese (Mn) ore from June 2020 through June 2022. Source: U.S. Census Bureau.

Prices

In June 2022, the average spot prices for manganese ore deliveries to China were \$5.15 per metric ton unit, 36%–38% grade, and \$7.26 per metric ton unit, 44% grade, essentially unchanged and 6% less, respectively, than the May 2022 prices

(fig. 2, table 1). Compared with the monthly average prices in June 2021, the 36%–38%-grade price was 8% more, and the 44%-grade price was 42% more.

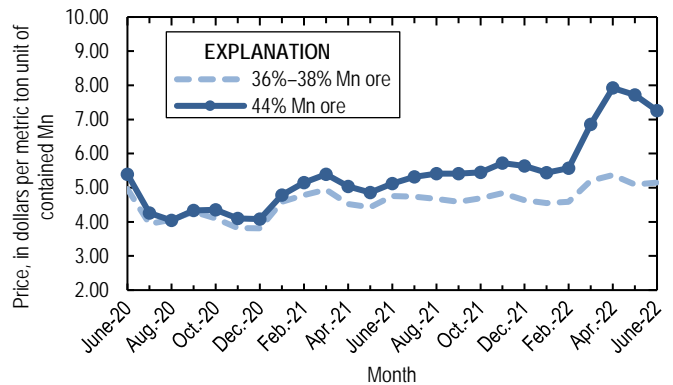


Figure 2. Average monthly spot prices for manganese (Mn) ore delivered to China from June 2020 through June 2022. Source: CRU Group.

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TABLE 1
PRICES FOR MANGANESE FERROALLOYS, METAL, AND ORE IN JUNE 2022

| | | Low | Average | High |
|---|---|----------|----------|----------|
| Manganese ferroalloys:¹ | | | | |
| High-carbon ferromanganese, 76% manganese | dollars per long ton of contained manganese | 2,800.00 | 2,840.00 | 2,880.00 |
| Medium-carbon ferromanganese, 85% manganese | cents per pound of contained manganese | 260.00 | 264.00 | 268.00 |
| Silicomanganese, 65% manganese | do. | 134.00 | 135.30 | 136.60 |
| Manganese metal, 99.7% manganese flake ² | cents per pound | 200.00 | 260.00 | 290.00 |
| Manganese ore:^{3,4} | | | | |
| 36%–38% manganese | dollars per metric ton unit contained manganese | 5.00 | 5.15 | 5.23 |
| 44% manganese | do. | 7.10 | 7.26 | 7.70 |

do. Ditto.

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

²CRU Group United States transaction prices, electrolytic manganese metal flake, 99.7% manganese, ex-works. Average prices are the average of the month high and low range.

³CRU Group, cost, insurance, and freight, China. Average prices are the average of the month high and low 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 MANGANESE¹

(Metric tons)

| | Imports for consumption | | | Exports | | |
|--------------|-------------------------|----------------------|----------------------|---------|----------------------|--------------------|
| | Ore and dioxide | Ferroalloy and metal | Total | Ore | Ferroalloy and metal | Total |
| 2021: | | | | | | |
| June | 88,800 | 74,800 | 164,000 | 68 | 1,630 ^r | 1,700 ^r |
| January–June | 221,000 | 322,000 ^r | 543,000 ^r | 742 | 8,570 ^r | 9,310 ^r |
| 2022: | | | | | | |
| January | 66,100 | 48,200 | 114,000 | 41 | 190 | 231 |
| February | 46,600 | 93,900 | 140,000 | 86 | 407 | 493 |
| March | 793 | 41,700 | 42,500 | 19 | 1,090 | 1,110 |
| April | 45,300 | 106,000 | 152,000 | 136 | 722 | 858 |
| May | 92,200 | 37,100 | 129,000 | 48 | 590 | 638 |
| June | 12,300 | 43,600 | 56,000 | 22 | 1,240 | 1,260 |
| January–June | 263,000 | 371,000 | 634,000 | 351 | 4,230 | 4,580 |

^rRevised.

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

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN JUNE 2022^{1,2}

(Metric tons, unless otherwise specified)

| Country or locality ⁴ | Gross weight | Mn content | Value | January–June ³ | | |
|---|--------------|------------|--------------|---------------------------|------------|--------------|
| | | | | Gross weight | Mn content | Value |
| Australia | -- | -- | -- | 30,500 | 20,000 | \$77,500,000 |
| Georgia | 16,600 | 11,900 | \$37,200,000 | 67,700 | 49,300 | 147,000,000 |
| India | 480 | 279 | 1,300,000 | 11,100 | 7,190 | 18,100,000 |
| Malaysia | 479 | 312 | 956,000 | 11,500 | 7,480 | 21,900,000 |
| Mexico | 4,120 | 2,660 | 5,980,000 | 15,700 | 10,100 | 22,700,000 |
| Norway | 154 | 97 | 776,000 | 6,840 | 4,320 | 19,500,000 |
| Russia | -- | -- | -- | 8,250 | 1,510 | 18,800,000 |
| Singapore | -- | -- | -- | 239 | 157 | 480,000 |
| Slovakia | -- | -- | -- | 30 | 20 | 56,300 |
| South Africa | 100 | 68 | 210,000 | 43,000 | 27,900 | 47,400,000 |
| Other [2 countries and (or) localities] | -- | -- | -- | 43 | 23 | 121,000 |
| Total | 21,900 | 15,300 | 46,400,000 | 195,000 | 128,000 | 374,000,000 |

-- Zero.

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

²Includes Harmonized Tariff Schedule of the United States code 7202.30.0000.

³May include revisions to previously published data.

⁴Presentation of monthly data is based on the January–June quantities (gross weight) of the leading countries.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN JUNE 2022¹

(Metric tons, unless otherwise specified)

| Type and country or locality | HTS ³ code | Gross weight | Mn content | Value | January–June ² | | |
|---|-----------------------|-----------------|---------------|------------|---------------------------|---------------|-------------|
| | | | | | Gross weight | Mn content | Value |
| Low carbon, less than 1% C: | 7202.19.1000 | | | | | | |
| Canada | | -- | -- | -- | 3 | 3 | \$5,790 |
| China | | -- | -- | -- | 20 | 16 | 47,300 |
| Japan | | 40 | 32 | \$161,000 | 850 | 688 | 2,260,000 |
| Kazakhstan | | -- | -- | -- | 12 | 10 | 20,000 |
| Korea, Republic of | | -- | -- | -- | 800 | 751 | 3,870,000 |
| Mexico | | 298 | 242 | 1,030,000 | 453 | 367 | 1,440,000 |
| Norway | | -- | -- | -- | 16,800 | 13,600 | 49,200,000 |
| South Africa | | 38 | 34 | 65,300 | 137 | 120 | 232,000 |
| Spain | | -- | -- | -- | 262 | 213 | 443,000 |
| Total | | 376 | 308 | 1,260,000 | 19,300 | 15,800 | 57,600,000 |
| Medium carbon, 1%–2% C: | 7202.19.5000 | | | | | | |
| India | | 17 | 14 | 26,500 | 17 | 14 | 26,500 |
| Italy | | -- | -- | -- | 8 | 6 | 11,500 |
| Korea, Republic of | | 1,500 | 1,200 | 4,320,000 | 13,600 | 10,900 | 40,000,000 |
| Mexico | | 720 | 572 | 1,400,000 | 2,510 | 1,970 | 6,360,000 |
| Norway | | -- | -- | -- | 1,600 | 1,300 | 5,000,000 |
| South Africa | | -- | -- | -- | 11,200 | 8,800 | 36,700,000 |
| Total | | 2,240 | 1,790 | 5,740,000 | 28,900 | 23,000 | 88,100,000 |
| High carbon, over 4% C: ⁴ | 7202.11.5000 | | | | | | |
| Australia | | -- | -- | -- | 22,300 | 17,100 | 50,600,000 |
| Brazil | | 18 | 13 | 56,500 | 226 | 165 | 446,000 |
| Canada | | -- | -- | -- | 30 | 21 | 89,200 |
| India | | 10,500 | 7,730 | 21,800,000 | 23,500 | 17,400 | 43,100,000 |
| Korea, Republic of | | 1,500 | 1,140 | 3,110,000 | 3,100 | 2,360 | 5,920,000 |
| Malaysia | | 50 | 38 | 106,000 | 32,000 | 24,300 | 60,200,000 |
| Mexico | | 20 | 14 | 39,700 | 120 | 84 | 224,000 |
| Russia | | -- | -- | -- | 16,900 | 12,900 | 33,600,000 |
| South Africa | | 346 | 260 | 624,000 | 5,360 | 4,130 | 12,300,000 |
| Zambia | | -- | -- | -- | 583 | 446 | 809,000 |
| Other [2 countries and (or) localities] | | 25 | 19 | 65,600 | 28 | 21 | 68,300 |
| Total | | 12,400 | 9,220 | 25,800,000 | 104,000 | 78,900 | 207,000,000 |
| Grand total | | 15,000 | 11,300 | 32,800,000 | 152,000 | 118,000 | 353,000,000 |

-- Zero.

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

²May include revisions to previously published data.

³Harmonized Tariff Schedule of the United States.

⁴Presentation of monthly data is based on the January–June quantities (gross weight) of the leading countries.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn)
IN JUNE 2022¹

(Metric tons, unless otherwise specified)

| Type and country or locality | HTS ³ code | Gross weight | Mn content | Value | January–June ² | | |
|---|-----------------------|--------------|------------|-------------|---------------------------|------------|-------------|
| | | | | | Gross weight | Mn content | Value |
| More than 20%, but less than 47% manganese: | 2602.00.0040 | | | | | | |
| Mexico | | 11,100 | 4,200 | \$2,520,000 | 33,000 | 12,400 | \$6,410,000 |
| Netherlands | | -- | -- | -- | 244 | 61 | 71,000 |
| Slovakia | | -- | -- | -- | 53 | 16 | 19,000 |
| South Africa | | 701 | 328 | 201,000 | 92,600 | 38,300 | 16,600,000 |
| Total | | 11,800 | 4,530 | 2,720,000 | 126,000 | 50,800 | 23,100,000 |
| 47% or more manganese: | 2602.00.0060 | | | | | | |
| Brazil | | -- | -- | -- | 25 | 12 | 14,200 |
| France | | 16 | 9 | 25,200 | 16 | 9 | 25,200 |
| Gabon | | -- | -- | -- | 133,000 | 82,400 | 32,900,000 |
| Mexico | | -- | -- | -- | 428 | 288 | 429,000 |
| Morocco | | 16 | 9 | 30,200 | 16 | 9 | 30,200 |
| Netherlands | | -- | -- | -- | 16 | 9 | 19,000 |
| South Africa | | 400 | 194 | 152,000 | 919 | 445 | 353,000 |
| Total | | 432 | 212 | 207,000 | 134,000 | 83,200 | 33,800,000 |
| Grand total | | 12,200 | 4,740 | 2,930,000 | 260,000 | 134,000 | 56,900,000 |

-- Zero.

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

²May include revisions to previously published data.

³Harmonized Tariff Schedule of the United States.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE
IN JUNE 2022^{1,2}

(Metric tons, unless otherwise specified)

| Country or locality | Gross weight | Value | January–June ³ | |
|---------------------|--------------|---------|---------------------------|-----------|
| | | | Gross weight | Value |
| Brazil | -- | -- | 46 | \$58,200 |
| Canada | 2 | \$3,250 | 2 | 3,250 |
| China | -- | -- | 17 | 55,400 |
| Germany | -- | -- | 5 | 28,400 |
| Greece | -- | -- | 693 | 2,080,000 |
| India | 12 | 20,500 | 12 | 20,500 |
| Japan | 118 | 315,000 | 2,110 | 5,550,000 |
| Mexico | -- | -- | 15 | 26,000 |
| South Africa | 13 | 22,500 | 13 | 22,500 |
| Spain | -- | -- | 21 | 35,000 |
| Total | 145 | 361,000 | 2,930 | 7,880,000 |

-- Zero.

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

²Includes Harmonized Tariff Schedule of the United States code 2820.10.0000.

³May include revisions to previously published data.

Source: U.S. Census Bureau.

TABLE 7
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL
IN JUNE 2022¹

(Metric tons, unless otherwise specified)

| Type and country or locality | HTS ³ code | Gross weight | Value | January–June ² | |
|------------------------------|-----------------------|--------------|-------------|---------------------------|--------------|
| | | | | Gross weight | Value |
| Unwrought flake: | 8111.00.4700 | | | | |
| China | | 1,110 | \$3,000,000 | 2,950 | \$14,400,000 |
| India | | -- | -- | 25 | 148,000 |
| Indonesia | | 162 | 457,000 | 260 | 1,130,000 |
| Japan | | 13 | 493,000 | 36 | 2,930,000 |
| Mexico | | -- | -- | 21 | 235,000 |
| South Africa | | 121 | 912,000 | 1,700 | 10,000,000 |
| Total | | 1,400 | 4,860,000 | 4,990 | 28,900,000 |
| Unwrought powder: | 8111.00.4910 | | | | |
| China | | 58 | 222,000 | 150 | 457,000 |
| Germany | | 1 | 14,000 | 1 | 14,000 |
| Mexico | | 7 | 79,800 | 39 | 265,000 |
| South Africa | | 265 | 1,800,000 | 740 | 5,030,000 |
| Total | | 331 | 2,120,000 | 930 | 5,770,000 |
| Unwrought, other: | 8111.00.4990 | | | | |
| China | | 4,540 | 13,500,000 | 15,500 | 74,700,000 |
| Germany | | 100 | 467,000 | 627 | 3,160,000 |
| South Africa | | 41 | 269,000 | 574 | 2,440,000 |
| Spain | | 37 | 83,700 | 110 | 251,000 |
| Total | | 4,720 | 14,300,000 | 16,800 | 80,500,000 |
| Other manganese, wrought: | 8111.00.6000 | | | | |
| China | | -- | -- | 8 | 90,200 |
| Germany | | 16 | 239,000 | 101 | 1,390,000 |
| Japan | | -- | -- | (4) | 6,300 |
| Mexico | | 15 | 116,000 | 38 | 351,000 |
| Sweden | | 16 | 297,000 | 60 | 1,030,000 |
| Total | | 48 | 652,000 | 207 | 2,870,000 |
| Metallic waste and scrap | 8111.00.3000 | | | | |
| Canada | | 147 | 80,400 | 228 | 146,000 |
| Japan | | -- | -- | (4) | 7,000 |
| Total | | 147 | 80,400 | 228 | 153,000 |
| Grand total | | 6,650 | 22,000,000 | 23,100 | 118,000,000 |

-- Zero.

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

²May include revisions to previously published data.

³Harmonized Tariff Schedule of the United States.

⁴Less 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 OR LOCALITY OF DESTINATION
IN JUNE 2022¹

(Metric tons, unless otherwise specified)

| Type and country or locality | HTS ³ code | Gross weight | Value | January–June ² | |
|---|-----------------------|--------------|------------------|---------------------------|-------------------|
| | | | | Gross weight | Value |
| Ore and concentrates with 20% or more manganese: | 2602.00.0000 | | | | |
| Canada | | -- | -- | 150 | \$142,000 |
| Guyana | | -- | -- | 35 | 16,500 |
| Mexico | | 22 | \$7,620 | 147 | 52,800 |
| Netherlands | | -- | -- | 14 | 64,800 |
| United Kingdom | | -- | -- | 6 | 2,610 |
| Total | | 22 | 7,620 | 351 | 279,000 |
| Ferromanganese: | 7202.19.0000 | | | | |
| 2% or less carbon: | | | | | |
| Canada | | -- | -- | 446 | 995,000 |
| Dominican Republic | | -- | -- | 13 | 24,200 |
| Mexico | | -- | -- | 26 | 49,200 |
| Total | | -- | -- | 485 | 1,070,000 |
| More than 2% carbon: | 7202.11.0000 | | | | |
| Canada | | 24 | 111,000 | 129 | 478,000 |
| China | | -- | -- | 6 | 17,100 |
| Costa Rica | | -- | -- | 1 | 3,310 |
| Kazakhstan | | -- | -- | 2 | 5,420 |
| Mexico | | -- | -- | 41 | 186,000 |
| Slovenia | | (4) | 5,430 | (4) | 5,430 |
| Total | | 24 | 116,000 | 179 | 695,000 |
| Ferrosilicon manganese: | 7202.30.0000 | | | | |
| Canada | | 323 | 473,000 | 1,980 | 3,580,000 |
| Mexico | | -- | -- | 15 | 40,600 |
| Total | | 323 | 473,000 | 1,990 | 3,630,000 |
| Metal, including alloys and waste and scrap:^{5,6} | 8111.00.0000 | | | | |
| Canada | | 52 | 504,000 | 364 | 1,840,000 |
| China | | 28 | 770,000 | 125 | 3,100,000 |
| Costa Rica | | -- | -- | 1 | 61,700 |
| France | | -- | -- | 14 | 53,400 |
| Germany | | -- | -- | 44 | 38,500 |
| India | | -- | -- | 159 | 87,600 |
| Japan | | -- | -- | 90 | 723,000 |
| Malaysia | | 821 | 423,000 | 905 | 558,000 |
| Mexico | | 13 | 57,400 | 40 | 297,000 |
| Norway | | -- | -- | 10 | 532,000 |
| Other [7 countries and (or) localities] | | -- | -- | 2 | 75,200 |
| Total | | 914 | 1,750,000 | 1,750 | 7,370,000 |
| Grand total | | 1,280 | 2,350,000 | 4,760 | 13,000,000 |

-- Zero.

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

²May include revisions to previously published data.

³Harmonized Tariff Schedule of the United States.

⁴Less than ½ unit.

⁵Presentation of monthly data is based on the January–June quantities (gross weight) of the leading countries.

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

Source: U.S. Census Bureau.

TABLE 9
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS
IN JUNE 2022¹

| Compound | HTS ³ code | Gross weight (metric tons) | Value (thousands) | Principal sources and destinations: gross weight (metric tons); value (thousands) | January–June ² | | |
|---|-----------------------|-------------------------------|----------------------|--|-------------------------------|----------------------|--|
| | | | | | Gross weight (metric tons) | Value (thousands) | Principal sources and destinations: gross weight (metric tons); value (thousands) |
| Imports for consumption: | | | | | | | |
| Manganese oxides other than dioxide | 2820.90.0000 | 2,320 | \$1,790 | South Africa 1,180; \$966. | 8,690 | \$7,440 | South Africa 2,530; \$2,160. |
| Manganites, manganates, and other permanganates | 2841.69.0090 | (⁴) | 2 | China (all). | 2 | 50 | Canada 2; \$37. |
| Potassium permanganate | 2841.61.0000 | 134 | 358 | India 126; \$342. | 539 | 1,430 | India 488; \$1,330. |
| Sodium permanganate | 2841.69.0010 | 84 | 222 | India (all). | 635 | 1,680 | India 538; \$1,380. |
| Other sulfates, including manganese sulfate | 2833.29.5100 | 10,300 | 10,900 | China 3,840; \$3,720. | 39,800 | 40,700 | China 19,800; \$17,700. |
| Exports: | | | | | | | |
| Manganese dioxide | 2820.10.0000 | 827 | 1,000 | Canada 484; \$401. | 4,280 | 4,990 | Canada 2,830; \$2,480. |
| Manganese oxides other than dioxide | 2820.90.0000 | 458 | 1,000 | United Arab Emirates 171; \$245. | 3,060 | 5,980 | United Arab Emirates 703; \$1,010. |
| Manganites, manganates, and other permanganates | 2841.69.0090 | 29 | 82 | Mexico 19; \$61. | 103 | 296 | Canada 82; \$171. |
| Potassium permanganate | 2841.61.0000 | 491 | 1,570 | Belgium 361; \$1,090. | 2,160 | 6,970 | Belgium 1,460; \$4,220. |
| Sodium permanganate | 2841.69.0010 | 68 | 199 | Belgium 57; \$171. | 598 | 1,880 | Belgium 553; \$1,610. |
| Other sulfates, including manganese sulfate | 2833.29.9100 | 1,650 | 3,250 | Canada 1,080; \$1,230. | 10,100 | 17,200 | Canada 7,710; \$7,250. |

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

²May include revisions to previously published data.

³Harmonized Tariff Schedule of the United States.

⁴Less than ½ unit.

Source: U.S. Census Bureau.