

# Mineral Industry Surveys

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#### **CHROMIUM IN JANUARY 2020**

Reported consumption of chromium, on a gross weight basis, in January 2020 decreased by 4% compared with reported consumption of chromium in December 2019, and increased by 7% compared with reported consumption in January 2019. High-carbon ferrochromium accounted for 87% of the chromium material consumed in January 2020. Stainless and heat-resisting steels were the leading end uses, consuming 89% of chromium materials. Consumer stocks increased slightly compared with those of the previous month and increased by 47% compared with those of January 2019 (tables 1, 2).

Estimated stainless steel production increased by 21% in January 2020 compared with production in December 2019,

and decreased by 5% compared with production in January 2019 (table 1). Government stockpile inventories for chromium metal have remained essentially unchanged since February 2018 and unchanged since August 2018. Government stockpile inventories of ferroalloys decreased slightly compared with December 2019 and decreased by 8% compared with those of January 2019 (table 3).

Imports of chromite ore, chromium ferroalloys, chromium metal, and stainless steel commonly fluctuate from month to month (table 1). Imports of all grades of chromium ferroalloys decreased by 15% in January 2020 compared with imports of chromium ferroalloys in December 2019 and decreased by 53% compared with those in January 2019. Stainless steel

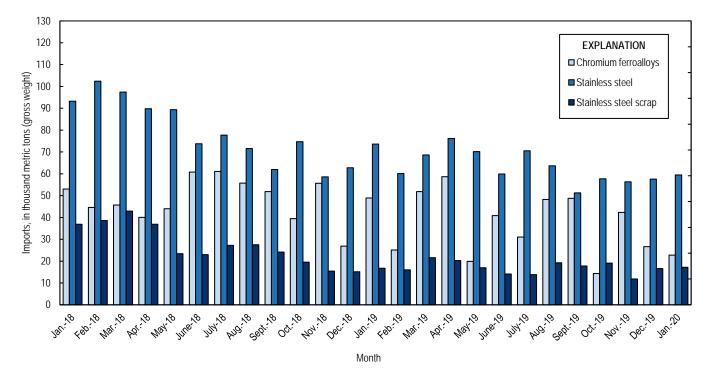


Figure 1. Chromium ferroalloys and stainless steel imports from January 2018 through January 2020. Source: U.S. Census Bureau.

imports in January 2020 increased by 3% compared with imports in December 2019 and decreased by 19% compared with those in January 2019 (fig. 1, table 1).

Exports of chromite ore, chromium ferroalloys, chromium metal, and stainless steel also frequently fluctuate from month to month (table 1, table 4). Exports of chromium ferroalloys decreased by 21% in January 2020 compared with exports in December 2019 and decreased by 68% compared with exports in January 2019. Stainless steel exports in January 2020 increased by 46% compared with exports in December 2019 (table 1) and decreased by 23% compared with those of January 2019.

In January 2020, the leading import sources for ferrochromium (FeCr) into the United States were, in descending order of quantity by gross weight and chromium content, Kazakhstan, Russia, and India (table 6), whereas the leading import sources for chromium metal were Russia, the United Kingdom, and France (table 7).

The U.S. chromium metal (99% Cr) average price decreased slightly to \$3.197 per pound in January 2020 compared with the average price in December 2019 and decreased by 36% compared with the average price in January 2019 (CRU Group, 2020). The U.S. high-carbon FeCr (62%–70% chromium) average price was 84.278 cents per pound of contained chromium in January 2020, essentially unchanged from the average price in December 2019, and a 21% decrease from the average price in January 2019 (fig. 2) (CRU Group, 2020).

#### **Industry News**

Vedanta Ltd. (India) acquired Ferro Alloys Corp. Ltd. (FACOR) (India) in January 2020 following regulatory approval. The acquisition included control over management and 100% capital of FACOR (Vedanta Ltd., 2020). FACOR owned a ferrochromium plant with a production capacity of 72,000 metric tons per year and two chromite ore mines in Odisha State.

The Odisha State government of India issued a 50-year mining lease in the Saruabil chromite mining block to T S Alloys Ltd. (India), a subsidiary of Tata Steel Ltd. (India) (Asian News International, 2020).

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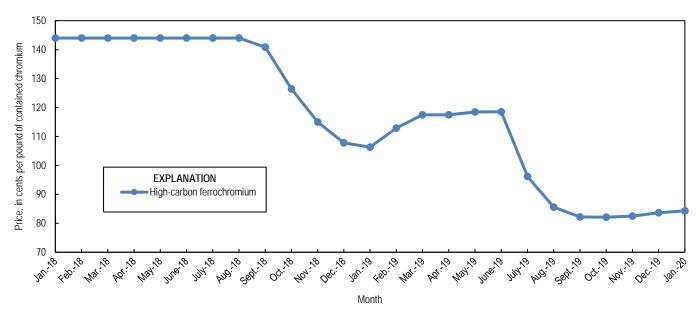


Figure 2. Average monthly prices for U.S. high-carbon ferrochromium from January 2018 through January 2020. Source: CRU Group.

### TABLE 1 U.S. SALIENT CHROMIUM STATISTICS<sup>1</sup>

#### (Metric tons, gross weight)

|   | 2019     |          |                          |                     |
|---|----------|----------|--------------------------|---------------------|
|   |          |          | January-                 | 2020                |
|   | November | December | December <sup>p, 2</sup> | January             |
| Production, stainless steel <sup>3</sup>              | 188,000  | 183,000  | 2,590,000                | 221,000             |
| Components of U.S. supply:                            | -        |          |                          |                     |
| Stainless steel scrap receipts                        | 65,600   | 67,400   | 810,000                  | 70,000 <sup>e</sup> |
| Stainless steel scrap consumption                     | 102,000  | 103,000  | 1,240,000                | 105,000 e           |
| Imports for consumption:                              | -        |          |                          |                     |
| Chromite ore  | 6,770    | 37,200   | 152,000                  | 1,920               |
| Ferrochromium:  |          |          |                          |                     |
| More than 4% carbon                                   | 40,200   | 20,100   | 393,000                  | 13,200              |
| More than 3% but not more than 4% carbon              |          | 900      | 1,210                    |                     |
| More than 0.5% but not more than 3% carbon            | 113      | 259      | 2,090                    | 668                 |
| Not more than 0.5% carbon                             | 2,010    | 4,110    | 42,900                   | 5,420               |
| Ferrochromium silicon                                 |          | 1,350    | 17,600                   | 3,500               |
| Total ferroalloy imports                              | 42,300   | 26,700   | 457,000                  | 22,800              |
| Chromium metal <sup>4</sup>                           | 1,280    | 1,510    | 14,400                   | 1,540               |
| Stainless steel                                       | 56,300   | 57,500   | 766,000                  | 59,500              |
| Stainless steel scrap                                 | 11,800   | 16,600   | 204,000                  | 17,200              |
| Distribution of U.S. supply:                          | -        |          |                          |                     |
| Consumption, industry, chromium ferroalloys and metal | 35,200   | 36,100   | 424,000                  | 34,600              |
| Exports:  | -        |          |                          |                     |
| Chromite ore  | 141      | 120      | 2,300                    | 147                 |
| Chromium ferroalloys:                                 |          |          |                          |                     |
| High-carbon ferrochromium                             | 144      | 82       | 1,170                    | 64                  |
| Low-carbon ferrochromium                              | 35       | 1        | 437                      | 2                   |
| Ferrochromium silicon                                 |          |          | 22                       |                     |
| Total ferroalloy exports                              | 179      | 83       | 1,630                    | 66                  |
| Chromium metal  | 23       | 31       | 430                      | 37                  |
| Stainless steel                                       | 29,100   | 22,900   | 434,000                  | 33,400              |
| Stainless steel scrap                                 | 33,000   | 74,500   | 474,000                  | 35,200              |
| Stocks at end of period:                              | -        |          |                          |                     |
| Consumer, industry, chromium ferroalloys and metal    | 14,800   | 15,000   | 15,000                   | 15,300              |
| Government stockpile:                                 | -        |          |                          |                     |
| Chromium ferroalloys                                  | 66,100   | 66,100   | 66,100                   | 65,200              |
| Chromium metal  | 3.850    | 3.850    | 3.850                    | 3.850               |

<sup>e</sup>Estimated. <sup>p</sup>Preliminary. -- Zero.

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

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

<sup>3</sup>Data on stainless steel production reported by American Iron and Steel Institute; monthly, quarterly, and year-to-date production of stainless and heat-resisting raw steel.

<sup>4</sup>Includes waste and scrap and other.

#### TABLE 2

#### U.S. REPORTED CONSUMPTION AND STOCKS OF CHROMIUM PRODUCTS<sup>1, 2</sup>

|                                       | 2019               |                       |         |
|---------------------------------------|--------------------|-----------------------|---------|
|                                       |                    | January–              |         |
|                                       | December           | December <sup>3</sup> | January |
| Consumption by end use:               |                    |                       |         |
| Steel:                                |                    |                       |         |
| Carbon steel                          | W                  | W                     | W       |
| High-strength low-alloy steel         | 146                | 1,750                 | 146     |
| Stainless and heat-resisting steel    | 32,400             | 380,000               | 30,900  |
| Unspecified steel <sup>4</sup>        | 2,720              | 32,600                | 2,720   |
| Superalloys                           | 422                | 5,090                 | 427     |
| Other alloys and uses <sup>5</sup>    | W                  | W                     | W       |
| Total                                 | 36,100             | 424,000               | 34,600  |
| Total, chromium content               | 20,600             | 242,000               | 19,700  |
| Consumption by material:              |                    |                       |         |
| Low-carbon ferrochromium              | 2,090              | 24,700                | 2,080   |
| High-carbon ferrochromium             | 31,400             | 367,000               | 29,900  |
| Ferrochromium silicon                 | W                  | W                     | W       |
| Chromium metal                        | 162                | 2,220                 | 162     |
| Chromium-aluminum alloy               | W                  | W                     | W       |
| Other chromium materials              | W                  | W                     | W       |
| Total                                 | 36,100             | 424,000               | 34,600  |
| Total, chromium content               | 20,600             | 242,000               | 19,700  |
| Consumer stocks:                      |                    |                       |         |
| Low-carbon ferrochromium              | 1,560              | 1,560                 | 1,570   |
| High-carbon ferrochromium             | 8,390              | 8,390                 | 8,720   |
| Ferrochromium silicon                 | 814                | 814                   | 773     |
| Chromium metal                        | 44                 | 44                    | 44      |
| Chromium-aluminum alloy               | 51                 | 51                    | 50      |
| Other chromium materials <sup>6</sup> | 4,100              | 4,100                 | 4,100   |
| Total                                 | 15,000             | 15,000                | 15,300  |
| Total, chromium content               | 8,110 <sup>r</sup> | 8,110 <sup>r</sup>    | 8,280   |

#### (Metric tons, gross weight unless otherwise noted)

"Revised. W Withheld to avoid disclosing company proprietary data; included in "Total."

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

<sup>2</sup>Includes estimates.

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

<sup>4</sup>Includes electrical, full alloy, tool, and unspecified steel end uses.

<sup>5</sup>Includes cast irons, welding and alloy hard-facing rods and materials, wear- and corrosionresistant alloys, and aluminum, copper, magnetic, nickel, and other alloys.

<sup>6</sup>Includes chromite ore as foundry sand

# TABLE 3 U.S. GOVERNMENT STOCKPILE INVENTORY OF CHROMIUM MATERIALS<sup>1</sup>

#### (Metric tons)

|               | Chromium f  | ferroalloys |          |
|---------------|-------------|-------------|----------|
|               | High-carbon | Low-carbon  |          |
|               | ferro-      | ferro-      | Chromium |
|               | chromium    | chromium    | metal    |
| 2019:         |             |             |          |
| January       | 43,800      | 27,400      | 3,850    |
| February      | 43,300      | 27,400      | 3,850    |
| March         | 42,400      | 27,400      | 3,850    |
| April         | 41,000      | 27,400      | 3,850    |
| May           | 39,900      | 27,400      | 3,850    |
| June          | 39,900      | 27,400      | 3,850    |
| July          | 39,900      | 27,400      | 3,850    |
| August        | 39,900      | 27,400      | 3,850    |
| September     | 39,600      | 27,400      | 3,850    |
| October       | 39,600      | 27,400      | 3,850    |
| November      | 38,700      | 27,400      | 3,850    |
| December      | 38,700      | 27,400      | 3,850    |
| 2020, January | 37,800      | 27,400      | 3,850    |

<sup>1</sup>Data are rounded to no more than three significant digits.

Source: Defense Logistics Agency, DLA Strategic Materials.

| TABLE 4  |
|--|
| U.S. EXPORTS OF CHROMITE ORE, CHROMIUM FERROALLOYS, AND METAL <sup>1</sup> |

|                               | Chromite ore  |             | Ch            | Chromium ferroalloys <sup>2</sup> |             | Chromium metal <sup>3</sup> |             |
|-------------------------------|---------------|-------------|---------------|-----------------------------------|-------------|-----------------------------|-------------|
|                               | Gross         |             | Gross         | Chromium                          |             | Gross                       |             |
|                               | weight        | Value       | weight        | content                           | Value       | weight                      | Value       |
|                               | (metric tons) | (thousands) | (metric tons) | (metric tons)                     | (thousands) | (metric tons)               | (thousands) |
| 2019:                         |               |             |               |                                   |             |                             |             |
| January                       | 169           | \$124       | 204           | 64                                | \$188       | 25                          | \$644       |
| February                      | 158           | 134         | 48            | 29                                | 111         | 44                          | 1,220       |
| March                         | 113           | 106         | 322           | 175                               | 667         | 26                          | 848         |
| April                         | 199           | 226         | 169           | 78                                | 256         | 28                          | 1,190       |
| May                           | 251           | 192         | 47            | 28                                | 87          | 70                          | 2,460       |
| June                          | 220           | 177         | 90            | 54                                | 158         | 37                          | 844         |
| July                          | 269           | 217         | 95            | 53                                | 160         | 42                          | 971         |
| August                        | 382           | 356         | 38            | 23                                | 78          | 44                          | 1,370       |
| September                     | 218           | 152         | 30            | 18                                | 40          | 25                          | 649         |
| October                       | 61            | 56          | 328           | 184                               | 525         | 39                          | 1,340       |
| November                      | 141           | 110         | 179           | 107                               | 319         | 23                          | 889         |
| December                      | 120           | 86          | 83            | 50                                | 107         | 31                          | 718         |
| January-December <sup>4</sup> | 2,300         | 1,940       | 1,630         | 864                               | 2,690       | 430                         | 13,100      |
| 2020, January                 | 147           | 82          | 66            | 36                                | 91          | 37                          | 733         |

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

<sup>2</sup>Includes low- and high-carbon ferrochromium and ferrochromium silicon.

<sup>3</sup>Includes chromium metal, waste and scrap, and unwrought powders.

<sup>4</sup>May include revised data that are not broken out by specific month(s).

## TABLE 5 U.S. IMPORTS FOR CONSUMPTION OF CHROMITE ORE, FERROCHROMIUM, AND CHROMIUM METAL $^{\rm 1}$

(Metric tons)

|  | 2019     |                       |         |  |
|--|----------|-----------------------|---------|--|
|  |          | January-              | 2020    |  |
|  | December | December <sup>2</sup> | January |  |
| Chromite ore:                                    |          |                       |         |  |
| Not more than 40% chromic oxide:                 | _        |                       |         |  |
| Quantity   | 95       | 973                   | 557     |  |
| Chromic oxide content                            | - 19     | 360                   | 86      |  |
| More than 40% but less than 46% chromic oxide:   | _        |                       |         |  |
| Quantity   | 524      | 4,170                 | 770     |  |
| Chromic oxide content                            | 227      | 1,810                 | 333     |  |
| 46% or more chromic oxide:                       | _        |                       |         |  |
| Quantity   | 36,500   | 147,000               | 593     |  |
| Chromic oxide content                            | 34,300   | 90,400                | 355     |  |
| Total, all grades:                               |          |                       |         |  |
| Quantity   | 37,200   | 152,000               | 1,920   |  |
| Chromic oxide content                            | 34,500   | 92,500                | 774     |  |
| Ferrochromium:                                   | _        |                       |         |  |
| Low-carbon: <sup>3</sup>                         | _        |                       |         |  |
| Not more than 0.5% carbon:                       | _        |                       |         |  |
| Quantity   | 4,110    | 42,900                | 5,420   |  |
| Chromium content                                 | 2,820    | 29,900                | 3,570   |  |
| More than 0.5% but not more than 3% carbon:      | _        |                       |         |  |
| Quantity   | 259      | 2,090                 | 668     |  |
| Chromium content                                 | 185      | 1,330                 | 442     |  |
| Total, low-carbon:                               |          |                       |         |  |
| Quantity   | 4,370    | 45,000                | 6,080   |  |
| Chromium content                                 | 3,000    | 31,300                | 4,010   |  |
| Medium-carbon: <sup>4</sup>                      | _        |                       |         |  |
| Quantity   | - 900    | 1,210                 |         |  |
| Chromium content                                 | 621      | 802                   |         |  |
| High-carbon: <sup>5</sup>                        | _        |                       |         |  |
| Quantity   | 20,100   | 393,000               | 13,200  |  |
| Chromium content                                 | 11,000   | 215,000               | 8,440   |  |
| Total, all grades:                               |          | *                     | ,       |  |
| Quantity   | 25,300   | 439,000               | 19,300  |  |
| Chromium content                                 | 14,600   | 247,000               | 12,400  |  |
| Chromium metal:                                  |          | , -                   |         |  |
| Unwrought powders                                | 1,330    | 11,500                | 1,200   |  |
| Waste and scrap                                  | 12       | 221                   | 11      |  |
| Other than waste and scrap and unwrought powders |          | 2,680                 | 337     |  |
| Total, all grades                                | 1,510    | 14,400                | 1,540   |  |

-- Zero.

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

 $^2\mbox{May}$  include revised data that are not broken out by specific month(s).

<sup>3</sup>Ferrochromium containing not more than 3% carbon.

<sup>4</sup>Ferrochromium containing more than 3% carbon but not more than 4% carbon.

<sup>5</sup>Ferrochromium containing more than 4% carbon.

## TABLE 6 U.S. IMPORTS FOR CONSUMPTION OF FERROCHROMIUM IN 2020, BY GRADE AND COUNTRY OR LOCALITY $^{\rm 1}$

|  | January       |               |                    |  |
|--|---------------|---------------|--------------------|--|
|  | Chromium      |               |                    |  |
|  | Quantity      | content       | Value <sup>2</sup> |  |
| Grade and country or locality              | (metric tons) | (metric tons) | (thousands)        |  |
| High-carbon ferrochromium: <sup>3</sup>    |               |               |                    |  |
| Albania                                    | 148           | 92            | \$162              |  |
| India                                      | 1,420         | 848           | 1,120              |  |
| Kazakhstan                                 | 8,230         | 5,710         | 8,700              |  |
| Russia                                     | 3,000         | 1,540         | 2,290              |  |
| Turkey                                     | 392           | 258           | 415                |  |
| Total                                      | 13,200        | 8,440         | 12,700             |  |
| Low-carbon ferrochromium: <sup>4</sup>     |               |               |                    |  |
| More than 0.5% but not more than 3% carbon |               |               |                    |  |
| Brazil                                     | 378           | 236           | 624                |  |
| Kazakhstan                                 | 290           | 206           | 734                |  |
| Total                                      | 668           | 442           | 1,360              |  |
| Not more than 0.5% carbon:                 |               |               |                    |  |
| Belgium                                    | 339           | 236           | 1,140              |  |
| Brazil                                     | 371           | 231           | 611                |  |
| China                                      | 5             | 3             | 14                 |  |
| India                                      | 100           | 66            | 206                |  |
| Japan                                      | 100           | 72            | 385                |  |
| Russia                                     | 4,480         | 2,940         | 9,050              |  |
| Turkey                                     | 20            | 15            | 67                 |  |
| Total                                      | 5,420         | 3,570         | 11,500             |  |
| All grades:                                |               |               |                    |  |
| Albania                                    | 148           | 92            | 162                |  |
| Belgium                                    | 339           | 236           | 1,140              |  |
| Brazil                                     | 749           | 467           | 1,240              |  |
| China                                      | 5             | 3             | 14                 |  |
| India                                      | 1,520         | 915           | 1,330              |  |
| Japan                                      | 100           | 72            | 385                |  |
| Kazakhstan                                 | 8,520         | 5,910         | 9,430              |  |
| Russia                                     | 7,480         | 4,480         | 11,300             |  |
| Turkey                                     | 411           | 273           | 482                |  |
| Total                                      | 19,300        | 12,400        | 25,500             |  |

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

<sup>2</sup>Customs import 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 merchandise into the United States.

<sup>3</sup>Ferrochromium containing more than 4% carbon.

<sup>4</sup>Ferrochromium containing not more than 3% carbon.

| TABLE 7   |
|---|
| U.S. IMPORTS FOR CONSUMPTION OF CHROMIUM METAL IN 2020, |
| BY GRADE AND BY COUNTRY OR LOCALITY <sup>1</sup>        |

|   | January       |                    |  |
|---|---------------|--------------------|--|
|   | Quantity      | Value <sup>2</sup> |  |
| Grade and country or locality                     | (metric tons) | (thousands)        |  |
| Unwrought powders:                                |               |                    |  |
| China   | 136           | \$1,360            |  |
| Estonia   | 10            | 75                 |  |
| France  | 202           | 1,850              |  |
| Germany   | 66            | 433                |  |
| India   | 19            | 172                |  |
| Russia  | 512           | 3,110              |  |
| Spain   | 23            | 119                |  |
| United Kingdom                                    | 227           | 2,460              |  |
| Total   | 1,200         | 9,570              |  |
| Waste and scrap:                                  |               |                    |  |
| Canada  | 5             | 15                 |  |
| Japan   | 1             | 18                 |  |
| United Kingdom                                    | 5             | 33                 |  |
| Total   | 11            | 67                 |  |
| Other than waste and scrap and unwrought powders: |               |                    |  |
| China   | 20            | 143                |  |
| Germany   | 1             | 54                 |  |
| Japan   | 1             | 50                 |  |
| Malaysia  | (3)           | 4                  |  |
| Russia  | 276           | 1,070              |  |
| United Kingdom                                    | 40            | 245                |  |
| Total   | 337           | 1,570              |  |
| All grades:                                       |               |                    |  |
| Canada  | 5             | 15                 |  |
| China   | 157           | 1,500              |  |
| Estonia   | 10            | 75                 |  |
| France  | 202           | 1,850              |  |
| Germany   | 66            | 487                |  |
| India   | 19            | 172                |  |
| Japan   | 1             | 68                 |  |
| Malaysia  | (3)           | 4                  |  |
| Russia  | 788           | 4,180              |  |
| Spain   | 23            | 119                |  |
| United Kingdom                                    | 273           | 2,740              |  |
| Total   | 1,540         | 11,200             |  |

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

<sup>2</sup>Customs import 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 merchandise into the United States.

<sup>3</sup>Less than <sup>1</sup>/<sub>2</sub> unit.

### TABLE 8 U.S. STAINLESS STEEL TRADE, BY PRODUCT, IN $2020^1$

|                                  | January       |                    |  |
|----------------------------------|---------------|--------------------|--|
|                                  | Gross weight  | Value <sup>2</sup> |  |
| Stainless steel product          | (metric tons) | (thousands)        |  |
| Exports:                         |               |                    |  |
| Ingot                            | 1,330         | \$8,62             |  |
| Flat-rolled (width > 600 mm)     | 20,100        | 55,70              |  |
| Flat-rolled (width < 600 mm)     | 5,900         | 27,90              |  |
| Bars and rods in irregular coils | 427           | 2,08               |  |
| Other bars and rods              | 2,570         | 28,20              |  |
| Wire                             | 670           | 9,91               |  |
| Tubes, pipes, hollow profiles    | 2,430         | 30,20              |  |
| Total                            | 33,400        | 163,00             |  |
| Stainless steel scrap            | 35,200        | 25,00              |  |
| Grand total                      | 68,600        | 188,00             |  |
| Imports:                         |               |                    |  |
| Ingot                            | 5,990         | 45,00              |  |
| Flat-rolled (width > 600 mm)     | 24,500        | 56,80              |  |
| Flat-rolled (width < 600 mm)     | 3,990         | 16,80              |  |
| Bars and rods in irregular coils | 3,130         | 11,60              |  |
| Other bars and rods              | 8,180         | 33,50              |  |
| Wire                             | 3,710         | 18,50              |  |
| Tubes, pipes, hollow profiles    | 9,980         | 65,60              |  |
| Total                            | 59,500        | 248,00             |  |
| Stainless steel scrap            | 17,200        | 14,00              |  |
| Grand total                      | 76,700        | 262,00             |  |

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

<sup>2</sup>Export value is free alongside ship. Import value is Customs import value, which generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise into the United States.