

# Mineral Industry Surveys

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## COPPER IN MAY 2020

In May 2020, domestic mine production of recoverable copper was 99,800 metric tons (t). The average daily mine production was 3,220 t, a slight decrease from that in April and a decline of 5% compared with that in May 2019 (fig. 1). Year-to-date recoverable mine output through May 2020 was 488,000 t, 4% lower than that through the same period in 2019 (table 2).

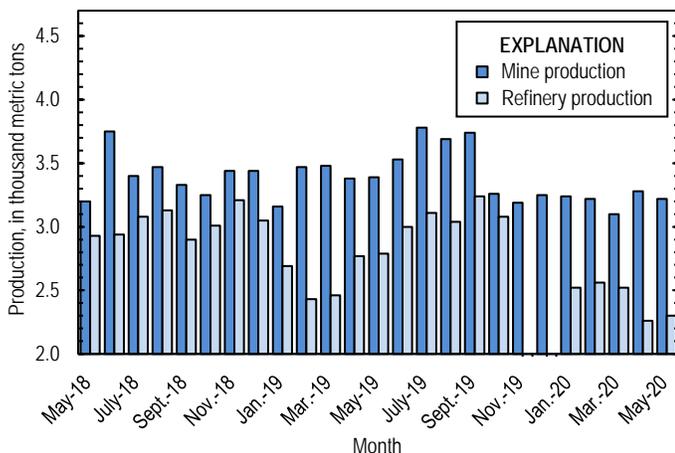


Figure 1. Average daily U.S. copper mine (recoverable) and refinery production from May 2018 through May 2020. Refinery production in November and December 2019 were withheld to avoid disclosing company proprietary data.

Owing to temporary closures of ASARCO LLC’s (Tucson, AZ) smelter and electrolytic refinery as a result of a worker strike, smelter and electrolytic refinery production reported to the U.S. Geological Survey in May 2020 were withheld to avoid disclosing company proprietary data. Smelter and electrolytic refinery output in tables 3 and 4 are estimates based on information in quarterly public company reports.

Estimated U.S. smelter production in May 2020 was 20,000 t. The estimated average daily output was 645 t, 63% less than that in May 2019. Year-to-date estimated smelter production

through May 2020 was 130,000 t, a decrease of 26% relative to the same period in 2019 (table 3). Rio Tinto Kennecott (South Jordan, UT) was in the process of rebuilding the flash converting furnace at its smelter near Salt Lake City, UT, which was damaged by a magnitude 5.7 earthquake on March 18 (Rio Tinto plc, 2020, p. 1, 8).

Total refinery production in the United States was 71,400 t in May 2020; data for electrolytic and electrowon output, as well as refined production from scrap, are reported in table 4. Average daily total refinery production was 2,300 t, a slight increase compared with that in April and 17% lower than that in May 2019 (fig. 1). Year-to-date refinery output through May 2020 was 370,000 t, a decrease of 7% from that through May 2019 (table 4).

### Prices

The average May 2020 COMEX spot copper price was \$2.39 per pound, an increase of 4% from \$2.31 per pound in April and 13% less than \$2.74 per pound in May 2019 (fig. 2, table 11). The average U.S. dealers buying price of number 2 copper scrap in May 2020 was \$1.65 per pound, 11% higher than \$1.48 per pound in April (fig. 2, table 12).

### Stocks

Refined copper stocks in the United States increased for the fourth consecutive month and totaled 139,000 t at the end of May 2020, an increase of 15% from those in April and 17% greater than those in May 2019. Wire-rod mill stocks rose by 7%, London Metal Exchange Ltd. stocks in U.S. warehouses were 17% higher, and COMEX stocks increased by 44% compared with those at the end of April (fig. 3, table 10). Copper traders in the United States reported reduced demand owing to disruptions in the auto industry and a contraction in economic activity related to the coronavirus pandemic (Hunter and others, 2020).

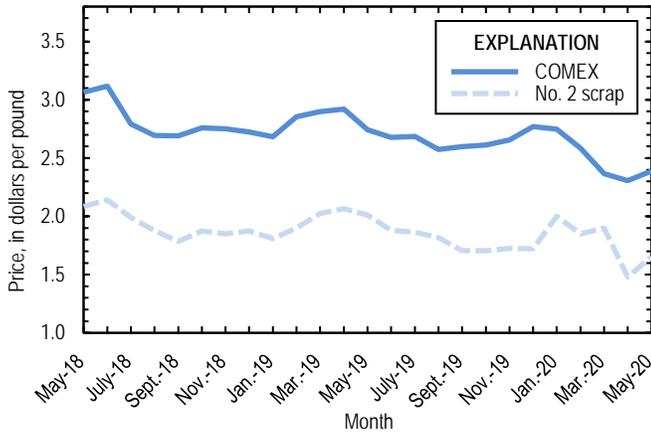


Figure 2. Monthly average COMEX copper price and no. 2 copper scrap dealers buying price from May 2018 through May 2020. As of January 2020, no. 2 prices were available only for the entire United States, whereas no. 2 prices were available only for individual domestic markets prior to January 2020. Prices shown prior to January 2020 are for New York dealers no. 2 scrap. Sources: American Metal Market, Platts Metals Week.

### Industry News

S&P Global Market Intelligence reported that approximately half of the 265 mines in 34 countries that were known to have suspended production owing to COVID-19 had restarted as of May 8. Probable losses in copper output were highest in Peru and Chile, with a potential for 221,000 t and 193,000 t, respectively, of reduced production by yearend 2020 (MacDonald, 2020). Through May 2020, global production of mined copper decreased slightly, and worldwide refined copper production was essentially unchanged compared with those through the same period in 2019 (International Copper Study Group, 2020, p. 12, 17).

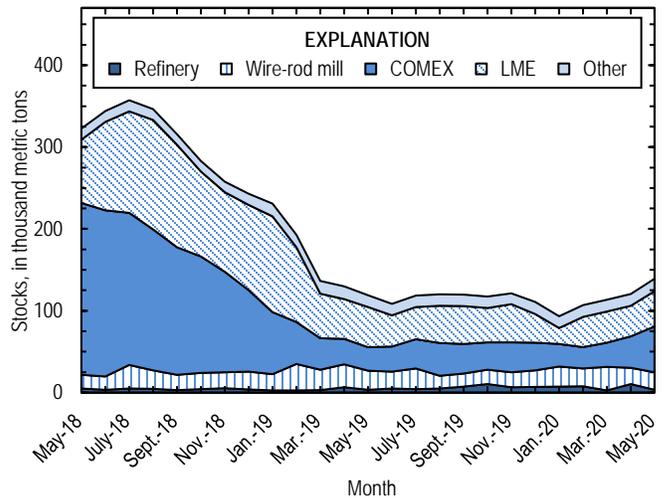


Figure 3. Monthly domestic refined copper stocks, by type, from May 2018 through May 2020. Sources: American Metal Market, London Metal Exchange Ltd., and U.S. Geological Survey.

### References Cited

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- Rio Tinto plc, 2020, Rio Tinto releases first quarter production results: London, United Kingdom, Rio Tinto plc news release, April 17, 26 p. (Accessed September 7, 2020, at <https://mc-56397411-4872-452d-b48e-428890-cdn-endpoint.azureedge.net/-/media/Content/Documents/Invest/Financial-news-and-performance/Production/RT-First-Quarter-Operations-Review-2020-pdf.pdf?rev=f02bfa7ba62c4087b32629111bdcc789>.)

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TABLE 1  
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES<sup>1</sup>

(Metric tons of copper content, unless otherwise specified)

|  | Source<br>table <sup>2</sup> | 2020              |                     |                     |                     |                      |
|--|------------------------------|-------------------|---------------------|---------------------|---------------------|----------------------|
|  |                              | 2019 <sup>p</sup> | March               | April               | May                 | January–<br>May      |
| <b>Production:</b>   |                              |                   |                     |                     |                     |                      |
| <b>Primary:</b>  |                              |                   |                     |                     |                     |                      |
| Mine, recoverable  | (2)                          | 1,260,000         | 96,000              | 98,300              | 99,800              | 488,000              |
| Smelter  | (3)                          | 464,000           | 30,000 <sup>e</sup> | 20,000 <sup>e</sup> | 20,000 <sup>e</sup> | 130,000 <sup>e</sup> |
| <b>Refinery:</b>   |                              |                   |                     |                     |                     |                      |
| Electrolytic, domestic and foreign                           | (4)                          | 457,000           | 30,000 <sup>e</sup> | 20,000 <sup>e</sup> | 20,000 <sup>e</sup> | 130,000 <sup>e</sup> |
| Electrowon   | (4)                          | 528,000           | 44,800              | 44,600              | 48,200              | 224,000              |
| Total  | (4)                          | 985,000           | 74,800              | 64,600              | 68,200              | 354,000              |
| <b>Secondary recoverable copper:<sup>3</sup></b>             |                              |                   |                     |                     |                     |                      |
| Refineries   | (5)                          | 44,400            | 3,220               | 3,220               | 3,220               | 16,100               |
| Ingot makers <sup>4</sup>                                    | (5)                          | 57,900            | 4,820               | 4,820               | 4,820               | 24,100               |
| Brass and wire-rod mills                                     | (5)                          | 653,000           | 55,500              | 54,700              | 53,900              | 277,000              |
| Foundries, etc. <sup>4</sup>                                 | (5)                          | 36,700            | 3,060               | 3,060               | 3,060               | 15,300               |
| <b>Consumption:</b>  |                              |                   |                     |                     |                     |                      |
| Apparent   | (8)                          | 1,810,000         | 147,000             | 143,000             | 130,000             | 685,000              |
| Refined (reported)   | (7)                          | 1,830,000         | 143,000             | 146,000             | 142,000             | 746,000              |
| Purchased copper-base scrap (gross weight)                   | (9)                          | 924,000           | 77,700              | 78,200              | 77,200              | 391,000              |
| <b>Stocks at end of period:</b>                              |                              |                   |                     |                     |                     |                      |
| Total refined  | (10)                         | 111,000           | 114,000             | 120,000             | 139,000             | 139,000              |
| Blister and anode  | (10)                         | 16,400            | 21,900              | 14,600              | 11,900              | 11,900               |
| Price, U.S. producers cathode (cents per pound) <sup>5</sup> | (11)                         | 279.596           | 243.464             | 236.881             | 245.090             | 254.719              |
| <b>Imports:<sup>6</sup></b>                                  |                              |                   |                     |                     |                     |                      |
| Ore and concentrates   | (13)                         | 27,000            | --                  | --                  | --                  | --                   |
| Refined  | (13)                         | 663,000           | 70,500              | 74,300              | 66,200              | 308,000              |
| <b>Exports:<sup>6</sup></b>                                  |                              |                   |                     |                     |                     |                      |
| Ore and concentrates   | (14)                         | 363,000           | 27,900              | 38,900              | 34,000              | 156,000              |
| Refined  | (14)                         | 125,000           | 4,000               | 1,580               | 540                 | 12,800               |

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

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

<sup>2</sup>Numbers in parentheses refer to the tables where these data are located.

<sup>3</sup>Copper recovered from copper-base scrap only.

<sup>4</sup>Estimated based on the monthly average of 2018 annual data.

<sup>5</sup>Source: Platts Metals Week.

<sup>6</sup>Source: U.S. Census Bureau.

TABLE 2  
MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES<sup>1</sup>

(Metric tons)

| Period             | Recoverable copper |                     |           | Contained copper |                           |           |
|--------------------|--------------------|---------------------|-----------|------------------|---------------------------|-----------|
|                    | Arizona            | Others <sup>2</sup> | Total     | Electrowon       | Concentrates <sup>3</sup> | Total     |
| 2019: <sup>P</sup> |                    |                     |           |                  |                           |           |
| January–May        | 345,000            | 164,000             | 509,000   | 213,000          | 308,000                   | 521,000   |
| May                | 71,500             | 33,700              | 105,000   | 44,700           | 62,800                    | 108,000   |
| June               | 73,400             | 32,400              | 106,000   | 45,900           | 62,100                    | 108,000   |
| July               | 79,200             | 38,000              | 117,000   | 47,600           | 72,300                    | 120,000   |
| August             | 77,400             | 37,200              | 115,000   | 46,500           | 70,500                    | 117,000   |
| September          | 74,000             | 38,100              | 112,000   | 44,700           | 69,900                    | 115,000   |
| October            | 72,300             | 28,600              | 101,000   | 45,800           | 57,100                    | 103,000   |
| November           | 66,000             | 29,800              | 95,800    | 41,100           | 56,800                    | 97,900    |
| December           | 70,100             | 30,500              | 101,000   | 43,200           | 59,600                    | 103,000   |
| January–December   | 858,000            | 399,000             | 1,260,000 | 528,000          | 756,000                   | 1,280,000 |
| 2020:              |                    |                     |           |                  |                           |           |
| January            | 71,500             | 28,900              | 100,000   | 45,000           | 58,400                    | 103,000   |
| February           | 64,500             | 28,700              | 93,200    | 41,000           | 54,300                    | 95,300    |
| March              | 67,500             | 28,500              | 96,000    | 44,800           | 53,200                    | 98,000    |
| April              | 74,000             | 24,300              | 98,300    | 44,600           | 55,800                    | 100,000   |
| May                | 73,900             | 25,900              | 99,800    | 48,200           | 53,700                    | 102,000   |
| January–May        | 351,000            | 136,000             | 488,000   | 224,000          | 275,000                   | 499,000   |

<sup>P</sup>Preliminary.

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

<sup>2</sup>Includes production from Michigan, Missouri, Montana, Nevada, New Mexico, and Utah.

<sup>3</sup>Includes copper content of precipitates and other metal concentrates.

TABLE 3  
COPPER PRODUCED AT SMELTERS IN  
THE UNITED STATES<sup>1,2</sup>

(Metric tons, copper content)

| Period               | Anode<br>production |
|----------------------|---------------------|
| 2019: <sup>p</sup>   |                     |
| January–May          | 176,000             |
| May                  | 54,100              |
| June                 | 51,800              |
| July                 | 34,500              |
| August               | 49,200              |
| September            | 43,200              |
| October              | 43,800              |
| November             | W                   |
| December             | W                   |
| January–December     | 464,000             |
| 2020: <sup>e,3</sup> |                     |
| January              | 30,000              |
| February             | 30,000              |
| March                | 30,000              |
| April                | 20,000              |
| May                  | 20,000              |
| January–May          | 130,000             |

<sup>e</sup>Estimated. <sup>p</sup>Preliminary. W Withheld to avoid disclosing company proprietary data.

<sup>1</sup>Includes blister and copper anode from primary or secondary sources.

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

<sup>3</sup>To avoid disclosing company proprietary data, monthly smelter production data in 2020 are estimates based on information from public company reports and do not reflect actual production reported to the U.S. Geological Survey.

TABLE 4  
PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY<sup>1</sup>

(Metric tons)

| Period             | Primary materials                     |            |         | Scrap  | Total refined |
|--------------------|---------------------------------------|------------|---------|--------|---------------|
|                    | Electrolytically refined <sup>2</sup> | Electrowon | Total   |        |               |
| 2019: <sup>p</sup> |                                       |            |         |        |               |
| January–May        | 166,000                               | 213,000    | 379,000 | 18,100 | 397,000       |
| May                | 38,300                                | 44,700     | 83,000  | 3,470  | 86,500        |
| June               | 40,600                                | 45,900     | 86,500  | 3,480  | 90,000        |
| July               | 45,100                                | 47,600     | 92,700  | 3,860  | 96,500        |
| August             | 41,800                                | 46,500     | 88,300  | 5,860  | 94,200        |
| September          | 49,000                                | 44,700     | 93,700  | 3,360  | 97,000        |
| October            | 46,500                                | 45,800     | 92,300  | 3,220  | 95,500        |
| November           | W                                     | 41,100     | W       | 3,240  | W             |
| December           | W                                     | 43,200     | W       | 3,240  | W             |
| January–December   | 457,000                               | 528,000    | 985,000 | 44,400 | 1,030,000     |
| 2020:              |                                       |            |         |        |               |
| January            | 30,000 <sup>e,3</sup>                 | 45,000     | 75,000  | 3,260  | 78,200        |
| February           | 30,000 <sup>e,3</sup>                 | 41,000     | 71,000  | 3,220  | 74,200        |
| March              | 30,000 <sup>e,3</sup>                 | 44,800     | 74,800  | 3,220  | 78,100        |
| April              | 20,000 <sup>e,3</sup>                 | 44,600     | 64,600  | 3,220  | 67,800        |
| May                | 20,000 <sup>e,3</sup>                 | 48,200     | 68,200  | 3,220  | 71,400        |
| January–May        | 130,000 <sup>e,3</sup>                | 224,000    | 354,000 | 16,100 | 370,000       |

<sup>e</sup>Estimated. <sup>p</sup>Preliminary. W Withheld to avoid disclosing company proprietary data.

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

<sup>2</sup>From domestic and foreign source materials.

<sup>3</sup>To avoid disclosing company proprietary data, monthly electrolytically refined production data in 2020 are estimates based on information from public company reports and do not reflect actual production reported to the U.S. Geological Survey.

TABLE 5  
COPPER RECOVERABLE IN UNALLOYED AND ALLOYED FORM FROM PURCHASED COPPER-BASE SCRAP<sup>1</sup>

(Metric tons, copper content)

| Period             | Refineries <sup>2</sup> |           | Ingot makers <sup>3</sup> |           | Brass and wire-rod mills |           | Foundries, etc. <sup>3</sup> |           | Total <sup>4</sup> |
|--------------------|-------------------------|-----------|---------------------------|-----------|--------------------------|-----------|------------------------------|-----------|--------------------|
|                    | New scrap <sup>e</sup>  | Old scrap | New scrap                 | Old scrap | New scrap                | Old scrap | New scrap                    | Old scrap |                    |
| 2019: <sup>p</sup> |                         |           |                           |           |                          |           |                              |           |                    |
| January–May        | 8,390                   | 9,740     | 3,840                     | 20,300    | 259,000                  | 16,700    | 10,700                       | 4,570     | 333,000            |
| May                | 1,680                   | 1,790     | 768                       | 4,060     | 51,600                   | 3,330     | 2,150                        | 913       | 66,300             |
| June               | 1,680                   | 1,800     | 768                       | 4,060     | 51,400                   | 3,550     | 2,150                        | 913       | 66,300             |
| July               | 1,680                   | 2,190     | 768                       | 4,060     | 49,100                   | 3,590     | 2,150                        | 913       | 64,400             |
| August             | 1,680                   | 4,180     | 768                       | 4,060     | 52,800                   | 3,030     | 2,150                        | 913       | 69,600             |
| September          | 1,680                   | 1,680     | 768                       | 4,060     | 49,700                   | 2,330     | 2,150                        | 913       | 63,300             |
| October            | 1,680                   | 1,540     | 768                       | 4,060     | 51,000                   | 2,490     | 2,150                        | 913       | 64,600             |
| November           | 1,680                   | 1,560     | 768                       | 4,060     | 51,700                   | 2,560     | 2,150                        | 913       | 65,400             |
| December           | 1,680                   | 1,560     | 768                       | 4,060     | 51,800                   | 2,290     | 2,150                        | 913       | 65,200             |
| January–December   | 20,100                  | 24,200    | 9,220                     | 48,700    | 617,000                  | 36,500    | 25,800                       | 11,000    | 792,000            |
| 2020:              |                         |           |                           |           |                          |           |                              |           |                    |
| January            | 1,680                   | 1,590     | 768                       | 4,060     | 53,400                   | 3,750     | 2,150                        | 913       | 68,300             |
| February           | 1,680                   | 1,540     | 768                       | 4,060     | 52,400                   | 3,580     | 2,150                        | 913       | 67,100             |
| March              | 1,680                   | 1,540     | 768                       | 4,060     | 52,100                   | 3,360     | 2,150                        | 913       | 66,600             |
| April              | 1,680                   | 1,540     | 768                       | 4,060     | 51,800                   | 2,950     | 2,150                        | 913       | 65,800             |
| May                | 1,680                   | 1,540     | 768                       | 4,060     | 51,300                   | 2,600     | 2,150                        | 913       | 65,000             |
| January–May        | 8,390                   | 7,740     | 3,840                     | 20,300    | 261,000                  | 16,200    | 10,700                       | 4,570     | 333,000            |

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

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

<sup>2</sup>Electrolytically refined and fire refined from scrap based on source of material at smelter or refinery level.

<sup>3</sup>Monthly data estimated based on the monthly average of 2018 annual data.

<sup>4</sup>Does not include an estimate, based on reported 2018 annual data, of 3,380 tons per month from new scrap and 2,710 tons per month from old scrap of copper recovered from scrap other than copper-base.

TABLE 6  
 PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD SEMIFABRICATES<sup>1</sup>

(Metric tons, gross weight)

| Period             | Production  |                | Shipments   |                | Stocks, end of period |                |
|--------------------|-------------|----------------|-------------|----------------|-----------------------|----------------|
|                    | Brass mills | Wire-rod mills | Brass mills | Wire-rod mills | Brass mills           | Wire-rod mills |
| 2019: <sup>p</sup> |             |                |             |                |                       |                |
| January–May        | 369,000     | 553,000        | 369,000     | 560,000        | 29,800                | 28,400         |
| May                | 73,800      | 116,000        | 74,100      | 112,000        | 29,800                | 28,400         |
| June               | 73,600      | 109,000        | 73,500      | 116,000        | 30,000                | 22,100         |
| July               | 70,300      | 110,000        | 70,900      | 113,000        | 29,400                | 25,200         |
| August             | 73,800      | 112,000        | 73,700      | 116,000        | 29,500                | 22,700         |
| September          | 73,200      | 113,000        | 73,300      | 110,000        | 29,400                | 26,400         |
| October            | 73,900      | 112,000        | 74,000      | 114,000        | 29,200                | 23,800         |
| November           | 73,200      | 101,000        | 73,000      | 100,000        | 29,400                | 24,600         |
| December           | 72,700      | 93,500         | 72,200      | 94,100         | 29,900                | 24,000         |
| January–December   | 880,000     | 1,300,000      | 880,000     | 1,320,000      | 29,900                | 24,000         |
| 2020:              |             |                |             |                |                       |                |
| January            | 73,700      | 110,000        | 74,200      | 106,000        | 29,400                | 27,800         |
| February           | 73,900      | 110,000        | 73,600      | 106,000        | 29,700                | 31,800         |
| March              | 74,500      | 108,000        | 74,100      | 112,000        | 30,100                | 27,800         |
| April              | 72,500      | 94,600         | 73,500      | 96,200         | 29,000                | 26,100         |
| May                | 73,400      | 95,300         | 73,400      | 91,400         | 29,000                | 30,000         |
| January–May        | 368,000     | 517,000        | 369,000     | 511,000        | 29,000                | 30,000         |

<sup>p</sup>Preliminary.

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

TABLE 7  
CONSUMPTION OF REFINED COPPER<sup>1</sup>

(Metric tons)

| Period             | Brass mills | Wire-rod mills | Other plants <sup>2</sup> | Total     |
|--------------------|-------------|----------------|---------------------------|-----------|
| 2019: <sup>p</sup> |             |                |                           |           |
| January–May        | 175,000     | 579,000        | 27,200                    | 781,000   |
| May                | 35,400      | 114,000        | 5,450                     | 155,000   |
| June               | 34,200      | 110,000        | 5,450                     | 150,000   |
| July               | 34,100      | 107,000        | 5,450                     | 147,000   |
| August             | 34,000      | 116,000        | 5,450                     | 155,000   |
| September          | 34,100      | 110,000        | 5,450                     | 150,000   |
| October            | 34,200      | 118,000        | 5,450                     | 158,000   |
| November           | 34,100      | 112,000        | 5,450                     | 151,000   |
| December           | 33,100      | 104,000        | 5,450                     | 142,000   |
| January–December   | 413,000     | 1,360,000      | 65,400                    | 1,830,000 |
| 2020:              |             |                |                           |           |
| January            | 34,500      | 120,000        | 5,450                     | 160,000   |
| February           | 33,600      | 117,000        | 5,450                     | 156,000   |
| March              | 33,600      | 104,000        | 5,450                     | 143,000   |
| April              | 34,500      | 107,000        | 5,450                     | 146,000   |
| May                | 34,100      | 102,000        | 5,450                     | 142,000   |
| January–May        | 170,000     | 549,000        | 27,200                    | 746,000   |

<sup>p</sup>Preliminary.

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

<sup>2</sup>Monthly consumption data by ingot makers, chemical plants, foundries, and miscellaneous manufacturers are estimated based on the monthly average of 2018 annual data.

TABLE 8  
U.S. APPARENT CONSUMPTION OF COPPER<sup>1</sup>

(Metric tons)

| Period             | Primary refined copper production | Copper in old scrap <sup>2</sup> | Refined imports for consumption <sup>3</sup> | Refined exports <sup>3</sup> | Stock change during period | Apparent consumption |
|--------------------|-----------------------------------|----------------------------------|--|------------------------------|----------------------------|----------------------|
| 2019: <sup>p</sup> |                                   |                                  |  |                              |                            |                      |
| January–May        | 379,000                           | 64,800                           | 253,000                                      | 60,400                       | -124,000                   | 760,000              |
| May                | 83,000                            | 12,800                           | 52,400                                       | 11,000                       | -11,200                    | 148,000              |
| June               | 86,500                            | 13,000                           | 55,200                                       | 13,800                       | -10,100                    | 151,000              |
| July               | 92,700                            | 13,500                           | 68,200                                       | 9,810                        | 10,000                     | 155,000              |
| August             | 88,300                            | 14,900                           | 50,500                                       | 6,960                        | 1,580                      | 145,000              |
| September          | 93,700                            | 11,700                           | 60,700                                       | 8,410                        | -484                       | 158,000              |
| October            | 92,300                            | 11,700                           | 66,800                                       | 8,540                        | -2,550                     | 165,000              |
| November           | W                                 | 11,800                           | 49,000                                       | 9,510                        | 4,330                      | W                    |
| December           | W                                 | 11,500                           | 59,500                                       | 7,830                        | -10,900                    | W                    |
| January–December   | 985,000                           | 153,000                          | 663,000                                      | 125,000                      | -132,000                   | 1,810,000            |
| 2020:              |                                   |                                  |  |                              |                            |                      |
| January            | 75,000                            | 13,000                           | 62,300                                       | 4,170                        | -17,300                    | 163,000              |
| February           | 71,000                            | 12,800                           | 34,400                                       | 2,470                        | 13,400                     | 102,000              |
| March              | 74,800                            | 12,600                           | 70,500                                       | 4,000                        | 6,870                      | 147,000              |
| April              | 64,600                            | 12,200                           | 74,300                                       | 1,580                        | 6,790                      | 143,000              |
| May                | 68,200                            | 11,800                           | 66,200                                       | 540                          | 15,900                     | 130,000              |
| January–May        | 354,000                           | 62,400                           | 308,000                                      | 12,800                       | 25,600                     | 685,000              |

<sup>p</sup>Preliminary. W Withheld to avoid disclosing company proprietary data.

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

<sup>2</sup>Includes reported monthly production of copper from old scrap of copper-base, an estimate for annual reporters, and a monthly average of copper from non-copper-base materials based on 2018 annual data.

<sup>3</sup>Source: U.S. Census Bureau.

TABLE 9  
CONSUMPTION OF PURCHASED COPPER-BASE SCRAP<sup>1</sup>

(Metric tons, gross weight)

| Period             | Smelters<br>and refineries |           | Ingot makers <sup>2</sup> |           | Brass and<br>wire-rod mills <sup>3</sup> |           | Foundries, etc. <sup>2</sup> |           | Total scrap<br>used |
|--------------------|----------------------------|-----------|---------------------------|-----------|--|-----------|------------------------------|-----------|---------------------|
|                    | New scrap <sup>c</sup>     | Old scrap | New scrap                 | Old scrap | New scrap                                | Old scrap | New scrap                    | Old scrap |                     |
| 2019: <sup>p</sup> |                            |           |                           |           |  |           |                              |           |                     |
| January–May        | 8,650                      | 10,000    | 10,100                    | 24,900    | 299,000                                  | 17,300    | 13,000                       | 4,500     | 388,000             |
| May                | 1,730                      | 1,850     | 2,010                     | 4,990     | 59,700                                   | 3,540     | 2,600                        | 900       | 77,400              |
| June               | 1,730                      | 1,850     | 2,010                     | 4,990     | 59,400                                   | 3,910     | 2,600                        | 900       | 77,400              |
| July               | 1,730                      | 2,260     | 2,010                     | 4,990     | 57,100                                   | 3,880     | 2,600                        | 900       | 75,500              |
| August             | 1,730                      | 4,310     | 2,010                     | 4,990     | 61,000                                   | 3,240     | 2,600                        | 900       | 80,800              |
| September          | 1,730                      | 1,730     | 2,010                     | 4,990     | 57,800                                   | 2,510     | 2,600                        | 900       | 74,300              |
| October            | 1,730                      | 1,730     | 2,010                     | 4,990     | 59,200                                   | 2,720     | 2,600                        | 900       | 75,900              |
| November           | 1,730                      | 1,610     | 2,010                     | 4,990     | 59,800                                   | 2,760     | 2,600                        | 900       | 76,400              |
| December           | 1,730                      | 1,610     | 2,010                     | 4,990     | 59,900                                   | 2,460     | 2,600                        | 900       | 76,200              |
| January–December   | 20,700                     | 25,100    | 24,100                    | 59,800    | 714,000                                  | 38,800    | 31,200                       | 10,800    | 924,000             |
| 2020:              |                            |           |                           |           |  |           |                              |           |                     |
| January            | 1,730                      | 1,660     | 2,010                     | 4,990     | 61,600                                   | 3,960     | 2,600                        | 900       | 79,500              |
| February           | 1,730                      | 2,180     | 2,010                     | 4,990     | 60,500                                   | 3,790     | 2,600                        | 900       | 78,700              |
| March              | 1,730                      | 1,590     | 2,010                     | 4,990     | 60,300                                   | 3,590     | 2,600                        | 900       | 77,700              |
| April              | 1,730                      | 2,940     | 2,010                     | 4,990     | 59,900                                   | 3,150     | 2,600                        | 900       | 78,200              |
| May                | 1,730                      | 2,790     | 2,010                     | 4,990     | 59,500                                   | 2,760     | 2,600                        | 900       | 77,200              |
| January–May        | 8,650                      | 11,200    | 10,100                    | 24,900    | 302,000                                  | 17,200    | 13,000                       | 4,500     | 391,000             |

<sup>c</sup>Estimated. <sup>p</sup>Preliminary.

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

<sup>2</sup>Monthly data estimated based on the monthly average of 2018 annual data.

<sup>3</sup>Consumption at brass and wire-rod mills assumed equal to receipts.

TABLE 10  
COPPER STOCKS AT END OF PERIOD<sup>1</sup>

(Metric tons)

| Period             | Crude copper <sup>2</sup> | Refined copper          |                             |                          |                    |        | Total refined |         |
|--------------------|---------------------------|-------------------------|-----------------------------|--------------------------|--------------------|--------|---------------|---------|
|                    |                           | Refineries <sup>3</sup> | Wire-rod mills <sup>3</sup> | Brass mills <sup>3</sup> | Other <sup>4</sup> | Comex  |               |         |
| 2019: <sup>P</sup> |                           |                         |                             |                          |                    |        |               |         |
| May                | 9,210                     | 3,550                   | 23,200                      | 7,250                    | 7,070              | 28,700 | 49,000        | 119,000 |
| June               | 13,600                    | 5,000                   | 20,700                      | 7,120                    | 7,070              | 30,700 | 38,000        | 109,000 |
| July               | 15,500                    | 4,350                   | 25,000                      | 7,070                    | 7,070              | 36,000 | 39,200        | 119,000 |
| August             | 14,500                    | 5,050                   | 15,400                      | 6,930                    | 7,070              | 40,000 | 45,700        | 120,000 |
| September          | 8,340                     | 7,180                   | 16,200                      | 6,800                    | 7,070              | 36,000 | 46,500        | 120,000 |
| October            | 25,400                    | 10,600                  | 17,500                      | 6,680                    | 7,070              | 33,200 | 42,200        | 117,000 |
| November           | 10,200                    | 6,650                   | 18,200                      | 6,580                    | 7,070              | 36,400 | 46,600        | 121,000 |
| December           | 16,400                    | 7,010                   | 20,000                      | 7,520                    | 7,070              | 34,100 | 35,000        | 111,000 |
| 2020:              |                           |                         |                             |                          |                    |        |               |         |
| January            | 9,590                     | 7,210                   | 24,800                      | 7,330                    | 7,070              | 27,600 | 19,300        | 93,300  |
| February           | 17,900                    | 7,810                   | 21,900                      | 7,250                    | 7,070              | 26,000 | 36,700        | 107,000 |
| March              | 21,900                    | 2,760                   | 28,600                      | 7,290                    | 7,070              | 29,800 | 38,100        | 114,000 |
| April              | 14,600                    | 10,300                  | 19,900                      | 7,210                    | 7,070              | 38,700 | 37,200        | 120,000 |
| May                | 11,900                    | 3,550                   | 21,200                      | 7,730                    | 7,070              | 55,900 | 43,500        | 139,000 |

<sup>P</sup>Preliminary.

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

<sup>2</sup>Copper content of blister and anode.

<sup>3</sup>Stocks of refined copper as reported; no estimates are made for nonrespondents.

<sup>4</sup>Monthly estimates based on 2018 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

<sup>5</sup>London Metal Exchange Ltd., U.S. warehouses.

TABLE 11  
 AVERAGE PRICE OF COPPER IN THE UNITED STATES  
 AND ON THE LONDON METAL EXCHANGE

(Cents per pound)

| Period       | U.S. producers<br>cathode <sup>1</sup> | Comex<br>first<br>position <sup>2</sup> | LME<br>cash price<br>Grade A |
|--------------|--|---|------------------------------|
| <b>2019:</b> |  |   |                              |
| May          | 282.232                                | 274.282                                 | 273.412                      |
| June         | 274.968                                | 267.843                                 | 266.166                      |
| July         | 275.657                                | 268.657                                 | 269.397                      |
| August       | 264.293                                | 257.243                                 | 258.890                      |
| September    | 266.490                                | 259.740                                 | 260.588                      |
| October      | 268.065                                | 261.165                                 | 260.470                      |
| November     | 272.588                                | 265.463                                 | 265.774                      |
| December     | 284.342                                | 277.029                                 | 274.970                      |
| Year         | 279.596                                | 272.267                                 | 272.364                      |
| <b>2020:</b> |  |   |                              |
| January      | 282.467                                | 274.967                                 | 274.362                      |
| February     | 265.695                                | 258.382                                 | 257.907                      |
| March        | 243.464                                | 236.714                                 | 234.886                      |
| April        | 236.881                                | 230.631                                 | 228.985                      |
| May          | 245.090                                | 238.715                                 | 237.402                      |
| January–May  | 254.719                                | 247.882                                 | 246.708                      |

<sup>1</sup>Sum of "Comex high grade first position" and "NY dealer premium cathode."

<sup>2</sup>Listed as "Comex high grade first position."

Source: Platts Metals Week.

TABLE 12  
AVERAGE BUYING PRICES FOR COPPER SCRAP

(Cents per pound)

| Period      | Dealers (United States) <sup>1</sup> |                         |                |                                      |
|-------------|--------------------------------------|-------------------------|----------------|--------------------------------------|
|             | Brass mills<br>No. 1 scrap           | Refiners<br>No. 2 scrap | No. 2<br>scrap | Red brass<br>turnings and<br>borings |
| 2019:       |                                      |                         |                |                                      |
| May         | 265.41                               | 231.95                  | 201.05         | 143.18                               |
| June        | 257.40                               | 225.70                  | 188.00         | 138.00                               |
| July        | 258.48                               | 227.95                  | 186.32         | 138.00                               |
| August      | 247.20                               | 217.00                  | 181.68         | 134.18                               |
| September   | 250.05                               | 220.50                  | 170.50         | 131.00                               |
| October     | 250.04                               | 221.04                  | 170.50         | 128.00                               |
| November    | 253.84                               | 224.84                  | 172.50         | 127.53                               |
| December    | 264.76                               | 236.19                  | 172.12         | 127.00                               |
| Year        | 262.76                               | 233.19                  | 185.19         | 136.53                               |
| 2020:       |                                      |                         |                |                                      |
| January     | 262.29                               | 234.76                  | 200.00         | 139.00                               |
| February    | 244.87                               | 218.26                  | 185.00         | 115.00                               |
| March       | 223.75                               | 197.73                  | 190.00         | 139.00                               |
| April       | 219.33                               | 196.05                  | 148.00         | 125.00                               |
| May         | 230.18                               | 208.95                  | 165.00         | 111.00                               |
| January–May | 236.08                               | 211.15                  | 177.60         | 125.80                               |

<sup>1</sup>As of January 2020, domestic dealers prices were available only for the entire United States, whereas dealers prices were available only for individual domestic markets prior to January 2020. Dealers prices in 2019 are for New York, and dealers prices in 2020 are for the entire United States.

Source: American Metal Market.

TABLE 13  
U.S. IMPORTS FOR CONSUMPTION OF COPPER (UNMANUFACTURED), BY CLASS<sup>1</sup>

(Metric tons, copper content)

| Country or locality | Ore and concentrates <sup>2</sup> |     |             | Matte, ash, and precipitates <sup>3</sup> |     |             | Blister and anodes |     |             | Refined |        |             |
|---------------------|-----------------------------------|-----|-------------|---|-----|-------------|--------------------|-----|-------------|---------|--------|-------------|
|                     | 2020                              |     |             | 2020                                      |     |             | 2020               |     |             | 2020    |        |             |
|                     | 2019                              | May | January–May | 2019                                      | May | January–May | 2019               | May | January–May | 2019    | May    | January–May |
| Belgium             | --                                | --  | --          | 228                                       | --  | 109         | --                 | --  | --          | 2,300   | --     | --          |
| Bolivia             | --                                | --  | --          | 13  | --  | --          | --                 | --  | --          | 1,510   | --     | 264         |
| Canada              | (4)                               | --  | --          | 451                                       | 59  | 133         | (4)                | --  | (4)         | 138,000 | 14,400 | 65,900      |
| Chile               | --                                | --  | --          | --  | --  | --          | --                 | --  | --          | 422,000 | 28,000 | 175,000     |
| Finland             | --                                | --  | --          | --  | --  | --          | 191                | 98  | 165         | 38      | --     | --          |
| Germany             | --                                | --  | --          | (4)                                       | --  | --          | --                 | --  | --          | 2,010   | 115    | 949         |
| Japan               | --                                | --  | --          | 295                                       | --  | 82          | (4)                | --  | (4)         | 2,540   | 229    | 1,290       |
| Mexico              | 27,000                            | --  | --          | 138                                       | (4) | (4)         | (4)                | --  | --          | 82,300  | 20,300 | 55,800      |
| Netherlands         | --                                | --  | --          | 120                                       | --  | --          | 4                  | --  | (4)         | (4)     | (4)    | (4)         |
| Peru                | (4)                               | --  | --          | --  | --  | --          | --                 | --  | --          | 10,000  | 3,000  | 7,810       |
| Saudi Arabia        | --                                | --  | --          | 98  | --  | --          | --                 | --  | --          | --      | --     | --          |
| Spain               | --                                | --  | --          | 540                                       | --  | --          | 1                  | --  | --          | (4)     | --     | 654         |
| Tunisia             | --                                | --  | --          | --  | --  | --          | 35                 | --  | --          | --      | --     | --          |
| Zambia              | --                                | --  | --          | --  | --  | --          | --                 | --  | --          | 689     | --     | --          |
| Other               | 27                                | --  | --          | 76  | --  | 4           | 5                  | (4) | 2           | 1,160   | 115    | 338         |
| Total               | 27,000                            | --  | --          | 1,960                                     | 60  | 328         | 236                | 98  | 167         | 663,000 | 66,200 | 308,000     |

-- Zero.

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

<sup>2</sup>Copper ore and concentrates only; excludes copper contained in ore and concentrates of other metals.

<sup>3</sup>Copper matte, ash, and precipitates only; excludes the copper content of mattes and ashes of other metals.

<sup>4</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 14  
U.S. EXPORTS OF COPPER (UNMANUFACTURED), BY CLASS<sup>1</sup>

(Metric tons, copper content)

| Country or locality | Ore and concentrates <sup>2</sup> |        |             | Matte, ash, and precipitates <sup>3</sup> |       |             | Blister and anodes |     |             | Refined |     |             |
|---------------------|-----------------------------------|--------|-------------|---|-------|-------------|--------------------|-----|-------------|---------|-----|-------------|
|                     | 2020                              |        |             | 2020                                      |       |             | 2020               |     |             | 2020    |     |             |
|                     | 2019                              | May    | January–May | 2019                                      | May   | January–May | 2019               | May | January–May | 2019    | May | January–May |
| Austria             | --                                | --     | --          | --  | --    | --          | 127                | --  | --          | --      | --  | --          |
| Belgium             | 161                               | 18     | 97          | 3,290                                     | 778   | 3,280       | 359                | 7   | 72          | 129     | 43  | 43          |
| Brazil              | 5,370                             | --     | --          | --  | --    | --          | 39                 | --  | 10          | 1       | (4) | 3           |
| Bulgaria            | 15,900                            | 4,350  | 4,350       | --  | --    | --          | --                 | --  | --          | --      | --  | --          |
| Canada              | 14,400                            | 2,320  | 12,800      | 14,700                                    | 966   | 4,720       | 2,600              | 54  | 628         | 32,100  | 25  | 7,830       |
| China               | 7                                 | 2,250  | 2,250       | 97  | (4)   | 1           | 200                | --  | 62          | 13      | 27  | 54          |
| Germany             | --                                | --     | --          | 597                                       | 29    | 120         | 286                | --  | 100         | 1       | --  | --          |
| Hong Kong           | --                                | --     | 2           | 19  | --    | --          | 279                | --  | 52          | 20      | --  | 1           |
| India               | --                                | 7      | 8           | --  | --    | --          | 259                | 2   | 100         | 36      | --  | --          |
| Italy               | --                                | --     | --          | --  | --    | --          | 208                | 24  | 48          | 26      | 2   | 86          |
| Japan               | 27,400                            | --     | 5,880       | 48  | --    | 58          | 26                 | 4   | 23          | 11      | 1   | 3           |
| Korea, Republic of  | 15,500                            | --     | 3,940       | 74  | --    | --          | 1,520              | 157 | 583         | 682     | 2   | 27          |
| Malaysia            | 35                                | --     | --          | --  | --    | --          | 188                | --  | 74          | 1       | --  | --          |
| Mexico              | 248,000                           | 22,300 | 111,000     | 1,210                                     | --    | --          | 32                 | 1   | 10          | 92,100  | 422 | 4,620       |
| Philippines         | 11,900                            | --     | 3,940       | --  | --    | --          | 56                 | --  | 10          | 2       | --  | --          |
| Slovakia            | --                                | --     | --          | 1,070                                     | 77    | 546         | --                 | --  | --          | --      | --  | --          |
| Spain               | 22,700                            | 2,080  | 8,990       | 259                                       | 193   | 469         | 61                 | --  | 20          | --      | --  | --          |
| Sweden              | --                                | --     | --          | --  | --    | --          | 463                | --  | 135         | (4)     | --  | --          |
| Other               | 1,940                             | 683    | 2,170       | 763                                       | 89    | 363         | 564                | 80  | 510         | 181     | 18  | 83          |
| Total               | 363,000                           | 34,000 | 156,000     | 22,200                                    | 2,130 | 9,560       | 7,270              | 329 | 2,440       | 125,000 | 540 | 12,800      |

-- Zero.

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

<sup>2</sup>Copper ore and concentrates only; excludes copper contained in ore and concentrates of other metals.

<sup>3</sup>Copper matte, ash, and precipitates only; excludes the copper content of mattes and ashes of other metals.

<sup>4</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 15  
U.S. IMPORTS FOR CONSUMPTION OF COPPER SCRAP<sup>1</sup>

(Metric tons, gross weight)

| Country or<br>locality | Unalloyed |       |                 | Alloyed |       |                 |
|------------------------|-----------|-------|-----------------|---------|-------|-----------------|
|                        | 2020      |       |                 | 2020    |       |                 |
|                        | 2019      | May   | January–<br>May | 2019    | May   | January–<br>May |
| Bahamas                | --        | --    | --              | 736     | 29    | 269             |
| Canada                 | 16,700    | 900   | 6,100           | 49,900  | 2,720 | 15,600          |
| Chile                  | --        | --    | --              | 1,300   | 20    | 40              |
| Colombia               | 251       | --    | 31              | 1,050   | 37    | 303             |
| Costa Rica             | 473       | 32    | 145             | 1,160   | 54    | 304             |
| Dominican Republic     | 610       | 29    | 242             | 2,120   | 77    | 511             |
| El Salvador            | --        | --    | --              | 695     | --    | 142             |
| Germany                | 188       | --    | 103             | 111     | (2)   | 43              |
| Guatemala              | 17        | --    | --              | 603     | 11    | 98              |
| Honduras               | 63        | --    | 34              | 679     | 12    | 224             |
| Japan                  | 1,040     | --    | --              | --      | --    | --              |
| Mexico                 | 11,500    | 355   | 3,000           | 42,100  | 1,900 | 14,300          |
| Pakistan               | 151       | --    | --              | --      | --    | --              |
| Panama                 | 736       | 12    | 380             | 483     | 1     | 123             |
| Suriname               | 124       | --    | 18              | 100     | --    | 21              |
| Venezuela              | 28        | --    | --              | 554     | --    | 27              |
| Vietnam                | 114       | 8     | 51              | 17      | 1     | 9               |
| Other                  | 519       | 22    | 169             | 3,850   | 99    | 732             |
| Total                  | 32,600    | 1,360 | 10,300          | 105,000 | 4,960 | 32,800          |

-- Zero.

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

<sup>2</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 16  
U.S. EXPORTS OF COPPER SCRAP<sup>1</sup>

(Metric tons, gross weight)

| Country or<br>locality | Unalloyed |       |                 |       |                 |        |                 | Alloyed |            |                 |              |                 |  |
|------------------------|-----------|-------|-----------------|-------|-----------------|--------|-----------------|---------|------------|-----------------|--------------|-----------------|--|
|                        | 2020      |       |                 |       |                 |        |                 | 2020    |            |                 |              |                 |  |
|                        | 2019      | No. 1 |                 | No. 2 |                 | Other  |                 | 2019    | Segregated |                 | Unsegregated |                 |  |
|                        |           | May   | January–<br>May | May   | January–<br>May | May    | January–<br>May |         | May        | January–<br>May | May          | January–<br>May |  |
| Belgium                | 23,600    | 447   | 2,470           | 603   | 5,590           | 59     | 471             | 14,300  | 20         | 371             | 912          | 4,410           |  |
| Canada                 | 49,200    | --    | --              | --    | --              | 4,240  | 22,600          | 42,000  | --         | --              | 1,580        | 10,600          |  |
| China                  | 74,800    | 1,390 | 9,590           | 1,390 | 6,710           | 3,130  | 8,990           | 13,100  | 1,580      | 2,480           | 3,040        | 5,380           |  |
| Germany                | 29,400    | 1,910 | 8,120           | 260   | 1,890           | 339    | 2,690           | 14,300  | 62         | 355             | 1,260        | 7,290           |  |
| Greece                 | 8,180     | 367   | 2,360           | 240   | 696             | 38     | 647             | 973     | 17         | 258             | 40           | 434             |  |
| Hong Kong              | 19,900    | 1,350 | 2,980           | 39    | 176             | 200    | 939             | 30,500  | 135        | 1,040           | 855          | 4,630           |  |
| India                  | 14,400    | 3     | 956             | --    | 1,790           | 20     | 1,550           | 45,500  | 1,360      | 9,000           | 359          | 5,890           |  |
| Japan                  | 22,600    | 143   | 899             | 766   | 3,030           | 191    | 1,250           | 20,300  | 156        | 814             | 1,020        | 5,090           |  |
| Korea, Republic of     | 46,900    | 2,070 | 12,000          | 841   | 3,440           | 507    | 3,480           | 25,000  | 379        | 3,070           | 1,420        | 5,530           |  |
| Malaysia               | 65,300    | 218   | 1,810           | 1,020 | 4,630           | 1,630  | 9,780           | 156,000 | 1,300      | 7,110           | 9,150        | 39,200          |  |
| Netherlands            | 4,300     | 260   | 830             | 81    | 203             | 278    | 852             | 1,010   | --         | --              | --           | 282             |  |
| Pakistan               | 882       | 4     | 17              | 26    | 320             | --     | --              | 19,800  | --         | 82              | 450          | 4,990           |  |
| Poland                 | 5,450     | 20    | 1,560           | 112   | 626             | 20     | 781             | 45      | --         | --              | 418          | 1,330           |  |
| Spain                  | 1,510     | 20    | 162             | 138   | 697             | 79     | 361             | 8,510   | 157        | 1,170           | 540          | 2,250           |  |
| Taiwan                 | 20,300    | 284   | 2,600           | 611   | 1,970           | 371    | 4,040           | 20,300  | 288        | 1,440           | 864          | 4,110           |  |
| Thailand               | 4,120     | 113   | 884             | 94    | 686             | 146    | 1,370           | 16,300  | 399        | 1,990           | 1,150        | 4,850           |  |
| Other                  | 31,200    | 783   | 7,050           | 845   | 6,050           | 404    | 4,250           | 21,300  | 534        | 1,760           | 1,170        | 6,630           |  |
| Total                  | 422,000   | 9,380 | 54,300          | 7,060 | 38,500          | 11,600 | 64,100          | 450,000 | 6,380      | 30,900          | 24,200       | 113,000         |  |

-- Zero.

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

Source: U.S. Census Bureau.