COPPER IN JULY 2021

In July 2021, domestic mine production of recoverable copper was 97,100 metric tons (t). The average daily mine production was 3,130 t, a decrease of 9% from that in June and 9% less than that in July 2020 (fig. 1). Year-to-date recoverable mine output was 685,000 t, a decline of 3% compared with that through July 2020 (table 2).

Owing to temporary closures of ASARCO LLC’s smelter in Arizona and electrolytic refinery in Texas, smelter and electrolytic refinery production reported to the U.S. Geological Survey in July 2021 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 company reports. The facilities shut down in October 2019 because of a worker strike, which reportedly ended in July 2020 (Wichner, 2021). As of July 2021, ASARCO had not announced when operations were expected to resume or a reason for the continued closures. The three ASARCO mines in Arizona have continued to operate during the smelter and refinery stoppages.

Estimated U.S. smelter production was 35,000 t in July 2021. Year-to-date estimated smelter production was 230,000 t, an increase of 31% from that through July 2020 (table 3).

Total refinery production in the United States was 85,600 t in July 2021; data for electrolytic and electrowon output, as well as refined production from scrap, are reported in table 4. Average daily total refinery production was 2,760 t, slightly higher than that in June and 9% more than that in July 2020 (fig. 1). Year-to-date refinery output was 579,000 t, an increase of 11% relative to the same period in 2020 (table 4).

Prices

In July 2021, the average COMEX spot copper price was $4.35 per pound, a slight decrease from $4.40 per pound in June and 52% greater than $2.87 per pound in July 2020 (fig. 2, table 11). The average U.S. dealers buying price of number 2 copper scrap in July 2021 was $3.30 per pound, 4% less than $3.46 per pound in June and an increase of 59% from $2.07 per pound in July 2020 (fig. 2, table 12).

Stocks

Refined copper stocks in the United States totaled 77,800 t at the end of July 2021, 8% lower than those in June and a decrease of 53% from those in July 2020. COMEX stocks fell by 3,420 t (8%), and London Metal Exchange Ltd. stocks in U.S. warehouses were unchanged compared with those at the end of June (fig. 3, table 10).
Figure 2. Monthly average COMEX copper price and no. 2 copper scrap dealers buying price from July 2019 through July 2021. 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: Fastmarkets-AMM and S&P Global Platts Metals Week.

Reference Cited


Figure 3. Domestic refined copper stocks at end of month, by type, from July 2019 through July 2021. Sources: Fastmarkets-AMM, London Metal Exchange Ltd., and U.S. Geological Survey.

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### TABLE 1
SALIENT STATISTICS OF THE COPPER INDUSTRY IN THE UNITED STATES¹

(Metric tons of copper content, unless otherwise specified)

<table>
<thead>
<tr>
<th>Source table</th>
<th>2020¹</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>January–July</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Production:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Primary:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mine, recoverable</td>
<td>(2)</td>
<td>1,200,000</td>
<td>99,200</td>
<td>103,000</td>
<td>97,100</td>
</tr>
<tr>
<td>Smelter</td>
<td>(3)</td>
<td>315,000</td>
<td>30,000</td>
<td>30,000</td>
<td>35,000</td>
</tr>
<tr>
<td>Refinery:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electrolytic, domestic and foreign</td>
<td>(4)</td>
<td>315,000</td>
<td>30,000</td>
<td>30,000</td>
<td>35,000</td>
</tr>
<tr>
<td>Electrowon</td>
<td>(4)</td>
<td>559,000</td>
<td>44,500</td>
<td>46,700</td>
<td>47,200</td>
</tr>
<tr>
<td>Total</td>
<td>(4)</td>
<td>874,000</td>
<td>74,500</td>
<td>76,700</td>
<td>82,200</td>
</tr>
</tbody>
</table>

**Secondary recoverable copper:**³

| Refineries   | (5)   | 43,200   | 4,560   | 5,060   | 3,340   | 29,000   |
| Ingot makers | (5)   | 57,900   | 4,820   | 4,820   | 4,820   | 33,800   |
| Brass and wire-rod mills | (5)   | 670,000  | 54,500  | 53,800  | 53,900  | 388,000  |
| Foundries, etc. | (5)   | 36,700   | 3,060   | 3,060   | 3,060   | 21,400   |

Consumption:

| Apparent, primary refined and copper from old scrap | (8)   | 1,660,000 | 164,000 | 156,000 | 154,000 | 1,150,000 |
| Reported, refined copper | (7)   | 1,710,000 | 159,000 | 155,000 | 147,000 | 1,040,000 |
| Purchased copper-base scrap (gross weight) | (9)   | 938,000   | 86,900  | 85,200  | 82,200  | 593,000  |

Stocks at end of period:

| Total refined | (10)  | 118,000   | 86,900  | 85,000  | 77,800  | 77,800   |
| Blistar and anode | (10)  | 9,380    | 27,100  | 17,600  | 19,600  | 19,600   |

Price, U.S. producers cathode (cents per pound)⁵

| Ore and concentrates | (13)  | 2,170     | 1       | 296     | 1,200   | 6,460    |
| Refined              | (13)  | 676,000   | 66,600  | 69,600  | 57,100  | 494,000  |

Exports:⁶

| Ore and concentrates | (14)  | 383,000   | 31,400  | 29,000  | 23,600  | 226,000  |
| Refined              | (14)  | 41,200    | 5,580   | 6,880   | 5,270   | 33,700   |

¹Estimated. ²Preliminary.

¹Data are rounded to no more than three significant digits, except prices; may not add to totals shown.
²Numbers in parentheses refer to the tables where these data are located.
³Copper recovered from copper-base scrap only.
⁴Estimated based on the monthly average of 2018 annual data.
⁵Source: S&P Global Platts Metals Week.
⁶Source: U.S. Census Bureau.
### TABLE 2
MINE PRODUCTION OF RECOVERABLE COPPER IN THE UNITED STATES

(Metric tons)

<table>
<thead>
<tr>
<th>Period</th>
<th>Recoverable copper</th>
<th>Contained copper</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Arizona</td>
<td>Others</td>
</tr>
<tr>
<td>2020:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>January–July</td>
<td>513,000</td>
<td>190,000</td>
</tr>
<tr>
<td>July</td>
<td>79,500</td>
<td>26,700</td>
</tr>
<tr>
<td>August</td>
<td>78,900</td>
<td>25,900</td>
</tr>
<tr>
<td>September</td>
<td>72,600</td>
<td>25,300</td>
</tr>
<tr>
<td>October</td>
<td>71,000</td>
<td>25,500</td>
</tr>
<tr>
<td>November</td>
<td>69,900</td>
<td>25,800</td>
</tr>
<tr>
<td>December</td>
<td>75,000</td>
<td>25,100</td>
</tr>
<tr>
<td>January–December</td>
<td>880,000</td>
<td>318,000</td>
</tr>
<tr>
<td>2021:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>71,600</td>
<td>25,100</td>
</tr>
<tr>
<td>February</td>
<td>66,300</td>
<td>27,900</td>
</tr>
<tr>
<td>March</td>
<td>68,200</td>
<td>31,000</td>
</tr>
<tr>
<td>April</td>
<td>68,200</td>
<td>29,300</td>
</tr>
<tr>
<td>May</td>
<td>68,200</td>
<td>27,900</td>
</tr>
<tr>
<td>June</td>
<td>74,100</td>
<td>29,300</td>
</tr>
<tr>
<td>July</td>
<td>68,000</td>
<td>29,100</td>
</tr>
<tr>
<td>January–July</td>
<td>483,000</td>
<td>201,000</td>
</tr>
</tbody>
</table>

Preliminary.  Revised.

1Data are rounded to no more than three significant digits; may not add to totals shown.
2Includes production from Michigan, Missouri, Montana, Nevada, New Mexico, and Utah.
3Includes copper content of precipitates and other metal concentrates.
### TABLE 3
COPPER PRODUCED AT SMELTERS IN THE UNITED STATES\(^1,2\)

(Metric tons, copper content)

<table>
<thead>
<tr>
<th>Period</th>
<th>Anode production(^3)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2020:</strong></td>
<td></td>
</tr>
<tr>
<td>January–July</td>
<td>175,000</td>
</tr>
<tr>
<td>July</td>
<td>25,000</td>
</tr>
<tr>
<td>August</td>
<td>25,000</td>
</tr>
<tr>
<td>September</td>
<td>25,000</td>
</tr>
<tr>
<td>October</td>
<td>30,000</td>
</tr>
<tr>
<td>November</td>
<td>30,000</td>
</tr>
<tr>
<td>December</td>
<td>30,000</td>
</tr>
<tr>
<td>January–December</td>
<td>315,000</td>
</tr>
<tr>
<td><strong>2021:</strong></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>35,000</td>
</tr>
<tr>
<td>February</td>
<td>35,000</td>
</tr>
<tr>
<td>March</td>
<td>35,000</td>
</tr>
<tr>
<td>April</td>
<td>30,000</td>
</tr>
<tr>
<td>May</td>
<td>30,000</td>
</tr>
<tr>
<td>June</td>
<td>30,000</td>
</tr>
<tr>
<td>July</td>
<td>35,000</td>
</tr>
<tr>
<td>January–July</td>
<td>230,000</td>
</tr>
</tbody>
</table>

\(^{1}\)Estimated. \(^{2}\)Preliminary. 
\(^{3}\)Data are rounded to no more than three significant digits; may not add to totals shown. 
\(^{4}\)Includes blister and copper anode from primary or secondary sources. 
\(^{5}\)To avoid disclosing company proprietary data, monthly smelter production data are estimates based on information in quarterly public company reports and do not reflect actual production reported to the U.S. Geological Survey.
TABLE 4  
U.S. PRODUCTION OF REFINED COPPER, BY SOURCE AND METHOD OF RECOVERY

(Metric tons)

<table>
<thead>
<tr>
<th>Period</th>
<th>Electrolytically refined</th>
<th>Electrowon</th>
<th>Total</th>
<th>Scrap</th>
<th>Total refined</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020: January–July</td>
<td>175,000</td>
<td>321,000</td>
<td>496,000</td>
<td>26,500</td>
<td>523,000</td>
</tr>
<tr>
<td>July</td>
<td>25,000</td>
<td>49,600</td>
<td>74,600</td>
<td>3,720</td>
<td>78,400</td>
</tr>
<tr>
<td>August</td>
<td>25,000</td>
<td>49,100</td>
<td>74,100</td>
<td>3,380</td>
<td>77,500</td>
</tr>
<tr>
<td>September</td>
<td>25,000</td>
<td>45,700</td>
<td>70,700</td>
<td>3,490</td>
<td>74,200</td>
</tr>
<tr>
<td>October</td>
<td>30,000</td>
<td>47,600</td>
<td>77,600</td>
<td>3,220</td>
<td>80,900</td>
</tr>
<tr>
<td>November</td>
<td>30,000</td>
<td>47,100</td>
<td>77,100</td>
<td>3,290</td>
<td>80,400</td>
</tr>
<tr>
<td>December</td>
<td>30,000</td>
<td>48,400</td>
<td>78,400</td>
<td>3,300</td>
<td>81,700</td>
</tr>
<tr>
<td>January–December</td>
<td>315,000</td>
<td>559,000</td>
<td>874,000</td>
<td>43,200</td>
<td>918,000</td>
</tr>
<tr>
<td>2021: January</td>
<td>35,000</td>
<td>47,100</td>
<td>82,100</td>
<td>3,350</td>
<td>85,400</td>
</tr>
<tr>
<td>February</td>
<td>35,000</td>
<td>43,900</td>
<td>78,900</td>
<td>4,060</td>
<td>82,900</td>
</tr>
<tr>
<td>March</td>
<td>35,000</td>
<td>46,500</td>
<td>81,500</td>
<td>3,460</td>
<td>84,900</td>
</tr>
<tr>
<td>April</td>
<td>30,000</td>
<td>44,100</td>
<td>74,100</td>
<td>5,190</td>
<td>79,300</td>
</tr>
<tr>
<td>May</td>
<td>30,000</td>
<td>44,500</td>
<td>74,500</td>
<td>4,560</td>
<td>79,100</td>
</tr>
<tr>
<td>June</td>
<td>30,000</td>
<td>46,700</td>
<td>76,700</td>
<td>5,060</td>
<td>81,800</td>
</tr>
<tr>
<td>July</td>
<td>35,000</td>
<td>47,200</td>
<td>82,200</td>
<td>3,340</td>
<td>85,600</td>
</tr>
<tr>
<td>January–July</td>
<td>230,000</td>
<td>320,000</td>
<td>550,000</td>
<td>29,000</td>
<td>579,000</td>
</tr>
</tbody>
</table>

---

1 Data are rounded to no more than three significant digits; may not add to totals shown.
2 From domestic and foreign source materials.
3 To avoid disclosing company proprietary data, monthly electrolytically refined production data are estimates based on information in quarterly 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
IN THE UNITED STATES¹

(Metric tons, copper content)

<table>
<thead>
<tr>
<th>Period</th>
<th>Refineries²</th>
<th>Ingot makers¹</th>
<th>Brass and wire-rod mills</th>
<th>Foundries, etc.³</th>
<th>Total³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>New scrap²</td>
<td>Old scrap</td>
<td>New scrap</td>
<td>Old scrap</td>
<td>New scrap</td>
</tr>
<tr>
<td>2020:¹</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January–July</td>
<td>11,700</td>
<td>14,800</td>
<td>5,380</td>
<td>28,400</td>
<td>366,000</td>
</tr>
<tr>
<td>July</td>
<td>1,680</td>
<td>2,040</td>
<td>768</td>
<td>4,060</td>
<td>53,400</td>
</tr>
<tr>
<td>August</td>
<td>1,680</td>
<td>1,700</td>
<td>768</td>
<td>4,060</td>
<td>52,200</td>
</tr>
<tr>
<td>September</td>
<td>1,680</td>
<td>1,810</td>
<td>768</td>
<td>4,060</td>
<td>50,700</td>
</tr>
<tr>
<td>October</td>
<td>1,680</td>
<td>1,540</td>
<td>768</td>
<td>4,060</td>
<td>53,600</td>
</tr>
<tr>
<td>November</td>
<td>1,680</td>
<td>1,620</td>
<td>768</td>
<td>4,060</td>
<td>52,900</td>
</tr>
<tr>
<td>December</td>
<td>1,680</td>
<td>1,620</td>
<td>768</td>
<td>4,060</td>
<td>55,800</td>
</tr>
<tr>
<td>January–December</td>
<td>20,100</td>
<td>23,100</td>
<td>9,220</td>
<td>48,700</td>
<td>631,000</td>
</tr>
<tr>
<td>2021:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>1,680</td>
<td>1,670</td>
<td>768</td>
<td>4,060</td>
<td>53,700</td>
</tr>
<tr>
<td>February</td>
<td>1,680</td>
<td>2,380</td>
<td>768</td>
<td>4,060</td>
<td>51,700</td>
</tr>
<tr>
<td>March</td>
<td>1,680</td>
<td>1,780</td>
<td>768</td>
<td>4,060</td>
<td>53,100</td>
</tr>
<tr>
<td>April</td>
<td>1,680</td>
<td>3,510</td>
<td>768</td>
<td>4,060</td>
<td>51,900</td>
</tr>
<tr>
<td>May</td>
<td>1,680</td>
<td>2,890</td>
<td>768</td>
<td>4,060</td>
<td>50,800</td>
</tr>
<tr>
<td>June</td>
<td>1,680</td>
<td>3,390</td>
<td>768</td>
<td>4,060</td>
<td>50,200</td>
</tr>
<tr>
<td>July</td>
<td>1,680</td>
<td>1,660</td>
<td>768</td>
<td>4,060</td>
<td>50,500</td>
</tr>
<tr>
<td>January–July</td>
<td>11,700</td>
<td>17,300</td>
<td>5,380</td>
<td>28,400</td>
<td>362,000</td>
</tr>
</tbody>
</table>

²Estimated. ¹Preliminary.
²Data are rounded to no more than three significant digits; may not add to totals shown.
³Electrolytically refined and fire refined from scrap based on source of material at smelter or refinery level.
³Monthly data estimated based on the monthly average of 2018 annual data.
³Does 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
U.S. PRODUCTION, SHIPMENTS, AND STOCKS OF BRASS AND WIRE-ROD SEMIFABRICATES¹

(Metric tons, gross weight)

<table>
<thead>
<tr>
<th>Period</th>
<th>Production Brass mills</th>
<th>Wire-rod mills</th>
<th>Shipments Brass mills</th>
<th>Wire-rod mills</th>
<th>Stocks, end of period Brass mills</th>
<th>Wire-rod mills</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020¹</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January–July</td>
<td>515,000</td>
<td>714,000</td>
<td>516,000</td>
<td>711,000</td>
<td>29,300</td>
<td>27,000</td>
</tr>
<tr>
<td>July</td>
<td>73,500</td>
<td>108,000</td>
<td>73,300</td>
<td>104,000</td>
<td>29,300</td>
<td>27,000</td>
</tr>
<tr>
<td>August</td>
<td>73,700</td>
<td>104,000</td>
<td>73,600</td>
<td>111,000</td>
<td>29,400</td>
<td>20,000</td>
</tr>
<tr>
<td>September</td>
<td>73,800</td>
<td>107,000</td>
<td>73,700</td>
<td>108,000</td>
<td>29,500</td>
<td>18,600</td>
</tr>
<tr>
<td>October</td>
<td>74,400</td>
<td>108,000</td>
<td>74,900</td>
<td>110,000</td>
<td>29,000</td>
<td>16,400</td>
</tr>
<tr>
<td>November</td>
<td>73,600</td>
<td>106,000</td>
<td>73,600</td>
<td>106,000</td>
<td>29,000</td>
<td>16,000</td>
</tr>
<tr>
<td>December</td>
<td>73,700</td>
<td>101,000</td>
<td>74,000</td>
<td>97,800</td>
<td>28,700</td>
<td>19,000</td>
</tr>
<tr>
<td>January–December</td>
<td>884,000</td>
<td>1,240,000</td>
<td>885,000</td>
<td>1,240,000</td>
<td>28,700</td>
<td>19,000</td>
</tr>
<tr>
<td>2021:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>73,900 ¹</td>
<td>104,000</td>
<td>74,000</td>
<td>106,000</td>
<td>28,300</td>
<td>16,800</td>
</tr>
<tr>
<td>February</td>
<td>74,100</td>
<td>96,600</td>
<td>73,800</td>
<td>97,600</td>
<td>28,600</td>
<td>15,800</td>
</tr>
<tr>
<td>March</td>
<td>74,700 ¹</td>
<td>125,000</td>
<td>74,500 ¹</td>
<td>122,000</td>
<td>28,800 ¹</td>
<td>17,800</td>
</tr>
<tr>
<td>April</td>
<td>75,000</td>
<td>110,000</td>
<td>75,300</td>
<td>113,000</td>
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<td>15,200</td>
</tr>
<tr>
<td>May</td>
<td>73,200</td>
<td>117,000</td>
<td>73,300</td>
<td>114,000</td>
<td>28,400</td>
<td>18,300</td>
</tr>
<tr>
<td>June</td>
<td>74,200</td>
<td>110,000</td>
<td>74,000</td>
<td>109,000</td>
<td>28,500</td>
<td>19,100</td>
</tr>
<tr>
<td>July</td>
<td>74,600</td>
<td>112,000</td>
<td>74,800</td>
<td>115,000</td>
<td>28,400</td>
<td>17,000</td>
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<tr>
<td>January–July</td>
<td>520,000</td>
<td>774,000</td>
<td>520,000</td>
<td>776,000</td>
<td>28,400</td>
<td>17,000</td>
</tr>
</tbody>
</table>

¹Preliminary.  ¹Revised.

¹Data are rounded to no more than three significant digits; may not add to totals shown.
### TABLE 7
U.S. CONSUMPTION OF REFINED COPPER¹

(Metric tons)

<table>
<thead>
<tr>
<th>Period</th>
<th>Brass mills</th>
<th>Wire-rod mills</th>
<th>Other plants²</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020³</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January–July</td>
<td>239,000</td>
<td>708,000</td>
<td>38,100</td>
<td>985,000</td>
</tr>
<tr>
<td>July</td>
<td>34,300</td>
<td>107,000</td>
<td>5,450</td>
<td>147,000</td>
</tr>
<tr>
<td>August</td>
<td>34,700</td>
<td>103,000</td>
<td>5,450</td>
<td>143,000</td>
</tr>
<tr>
<td>September</td>
<td>34,600</td>
<td>106,000</td>
<td>5,450</td>
<td>146,000</td>
</tr>
<tr>
<td>October</td>
<td>34,600</td>
<td>106,000</td>
<td>5,450</td>
<td>146,000</td>
</tr>
<tr>
<td>November</td>
<td>34,600</td>
<td>105,000</td>
<td>5,450</td>
<td>145,000</td>
</tr>
<tr>
<td>December</td>
<td>34,800</td>
<td>99,900</td>
<td>5,450</td>
<td>140,000</td>
</tr>
<tr>
<td>January–December</td>
<td>413,000</td>
<td>1,230,000</td>
<td>65,400</td>
<td>1,710,000</td>
</tr>
<tr>
<td>2021:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>34,700</td>
<td>93,400</td>
<td>5,450</td>
<td>134,000</td>
</tr>
<tr>
<td>February</td>
<td>34,900</td>
<td>96,100</td>
<td>5,450</td>
<td>137,000</td>
</tr>
<tr>
<td>March</td>
<td>35,300</td>
<td>119,000</td>
<td>5,450</td>
<td>159,000</td>
</tr>
<tr>
<td>April</td>
<td>34,300</td>
<td>108,000</td>
<td>5,450</td>
<td>148,000</td>
</tr>
<tr>
<td>May</td>
<td>34,100</td>
<td>119,000</td>
<td>5,450</td>
<td>159,000</td>
</tr>
<tr>
<td>June</td>
<td>33,600</td>
<td>116,000</td>
<td>5,450</td>
<td>155,000</td>
</tr>
<tr>
<td>July</td>
<td>34,400</td>
<td>108,000</td>
<td>5,450</td>
<td>147,000</td>
</tr>
<tr>
<td>January–July</td>
<td>241,000</td>
<td>758,000</td>
<td>38,100</td>
<td>1,040,000</td>
</tr>
</tbody>
</table>

³Preliminary.

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

²Monthly 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**

(Metric tons)

<table>
<thead>
<tr>
<th>Period</th>
<th>Primary refined copper production</th>
<th>Copper in old scrap</th>
<th>Refined imports for consumption</th>
<th>Refined exports</th>
<th>Stock change during period</th>
<th>Apparent consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January–July</td>
<td>496,000</td>
<td>91,100</td>
<td>408,000</td>
<td>19,000</td>
<td>54,700</td>
<td>922,000</td>
</tr>
<tr>
<td>July</td>
<td>74,600</td>
<td>13,000</td>
<td>37,300</td>
<td>5,300</td>
<td>7,430</td>
<td>112,000</td>
</tr>
<tr>
<td>August</td>
<td>74,100</td>
<td>12,500</td>
<td>59,800</td>
<td>6,470</td>
<td>-12,100</td>
<td>152,000</td>
</tr>
<tr>
<td>September</td>
<td>70,700</td>
<td>12,800</td>
<td>39,900</td>
<td>4,570</td>
<td>5,410</td>
<td>113,000</td>
</tr>
<tr>
<td>October</td>
<td>77,600</td>
<td>12,800</td>
<td>57,300</td>
<td>2,930</td>
<td>-18,100</td>
<td>163,000</td>
</tr>
<tr>
<td>November</td>
<td>77,100</td>
<td>12,300</td>
<td>53,300</td>
<td>3,090</td>
<td>-10,800</td>
<td>150,000</td>
</tr>
<tr>
<td>December</td>
<td>78,400</td>
<td>11,900</td>
<td>57,400</td>
<td>5,150</td>
<td>-11,700</td>
<td>154,000</td>
</tr>
<tr>
<td>January–December</td>
<td>874,000</td>
<td>153,000</td>
<td>676,000</td>
<td>41,200</td>
<td>7,370</td>
<td>1,660,000</td>
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<td>2021:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>82,100</td>
<td>13,500</td>
<td>42,400</td>
<td>4,350</td>
<td>-6,490</td>
<td>140,000</td>
</tr>
<tr>
<td>February</td>
<td>78,900</td>
<td>13,600</td>
<td>73,000</td>
<td>2,970</td>
<td>-2,600</td>
<td>165,000</td>
</tr>
<tr>
<td>March</td>
<td>81,500</td>
<td>13,300</td>
<td>99,700</td>
<td>3,360</td>
<td>-178</td>
<td>191,000</td>
</tr>
<tr>
<td>April</td>
<td>74,100</td>
<td>15,100</td>
<td>85,200</td>
<td>5,280</td>
<td>-7,710</td>
<td>177,000</td>
</tr>
<tr>
<td>May</td>
<td>74,500</td>
<td>14,300</td>
<td>66,600</td>
<td>5,580</td>
<td>-14,100</td>
<td>164,000</td>
</tr>
<tr>
<td>June</td>
<td>76,700</td>
<td>14,600</td>
<td>69,600</td>
<td>6,880</td>
<td>-1,900</td>
<td>156,000</td>
</tr>
<tr>
<td>July</td>
<td>82,200</td>
<td>12,800</td>
<td>57,100</td>
<td>5,270</td>
<td>-7,220</td>
<td>154,000</td>
</tr>
<tr>
<td>January–July</td>
<td>550,000</td>
<td>97,100</td>
<td>494,000</td>
<td>33,700</td>
<td>-40,200</td>
<td>1,150,000</td>
</tr>
</tbody>
</table>

*Preliminary.

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

*Copper recovered from old scrap and converted to refined metal and alloys. 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.

*Source: U.S. Census Bureau.
<table>
<thead>
<tr>
<th>Period</th>
<th>Smelters and refineries</th>
<th>Ingot makers</th>
<th>Brass and wire-rod mills</th>
<th>Foundries, etc.</th>
<th>Total scrap used</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January–July</td>
<td>12,100</td>
<td>15,300</td>
<td>14,400</td>
<td>33,600</td>
<td>423,000</td>
</tr>
<tr>
<td>July</td>
<td>1,730</td>
<td>2,100</td>
<td>2,050</td>
<td>4,790</td>
<td>61,400</td>
</tr>
<tr>
<td>August</td>
<td>1,730</td>
<td>1,750</td>
<td>2,050</td>
<td>4,790</td>
<td>60,200</td>
</tr>
<tr>
<td>September</td>
<td>1,730</td>
<td>1,870</td>
<td>2,050</td>
<td>4,790</td>
<td>58,700</td>
</tr>
<tr>
<td>October</td>
<td>1,730</td>
<td>1,590</td>
<td>2,050</td>
<td>4,790</td>
<td>61,700</td>
</tr>
<tr>
<td>November</td>
<td>1,730</td>
<td>1,670</td>
<td>2,050</td>
<td>4,790</td>
<td>60,900</td>
</tr>
<tr>
<td>December</td>
<td>1,730</td>
<td>1,670</td>
<td>2,050</td>
<td>4,790</td>
<td>64,000</td>
</tr>
<tr>
<td>January–December</td>
<td>20,700</td>
<td>23,800</td>
<td>24,600</td>
<td>57,500</td>
<td>729,000</td>
</tr>
<tr>
<td>2021:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>1,730</td>
<td>1,720</td>
<td>2,050</td>
<td>4,790</td>
<td>68,000</td>
</tr>
<tr>
<td>February</td>
<td>1,730</td>
<td>2,460</td>
<td>2,050</td>
<td>4,790</td>
<td>63,600</td>
</tr>
<tr>
<td>March</td>
<td>1,730</td>
<td>1,830</td>
<td>2,050</td>
<td>4,790</td>
<td>68,000</td>
</tr>
<tr>
<td>April</td>
<td>1,730</td>
<td>3,620</td>
<td>2,050</td>
<td>4,790</td>
<td>65,300</td>
</tr>
<tr>
<td>May</td>
<td>1,730</td>
<td>2,980</td>
<td>2,050</td>
<td>4,790</td>
<td>67,900</td>
</tr>
<tr>
<td>June</td>
<td>1,730</td>
<td>3,490</td>
<td>2,050</td>
<td>4,790</td>
<td>65,900</td>
</tr>
<tr>
<td>July</td>
<td>1,730</td>
<td>1,710</td>
<td>2,050</td>
<td>4,790</td>
<td>64,800</td>
</tr>
<tr>
<td>January–July</td>
<td>12,100</td>
<td>17,800</td>
<td>14,400</td>
<td>33,600</td>
<td>463,000</td>
</tr>
</tbody>
</table>

*Estimated. 1Preliminary. 2Data are rounded to no more than three significant digits; may not add to totals shown. 3Monthly data estimated based on the monthly average of 2018 annual data. 4Consumption at brass and wire-rod mills assumed equal to receipts.
<table>
<thead>
<tr>
<th>Period</th>
<th>Blister and anode</th>
<th>Refineries</th>
<th>Wire-rod mills</th>
<th>Brass mills</th>
<th>Other</th>
<th>Comex</th>
<th>LME</th>
<th>Total refined</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 2020</td>
<td>11,300</td>
<td>3,090</td>
<td>21,200</td>
<td>7,770</td>
<td>7,070</td>
<td>81,000</td>
<td>45,200</td>
<td>165,000</td>
</tr>
<tr>
<td>August</td>
<td>15,700</td>
<td>4,490</td>
<td>15,900</td>
<td>8,210</td>
<td>7,070</td>
<td>77,400</td>
<td>40,200</td>
<td>153,000</td>
</tr>
<tr>
<td>September</td>
<td>13,500</td>
<td>3,730</td>
<td>14,500</td>
<td>8,200</td>
<td>7,070</td>
<td>72,400</td>
<td>52,700</td>
<td>159,000</td>
</tr>
<tr>
<td>October</td>
<td>15,200</td>
<td>3,460</td>
<td>15,300</td>
<td>8,170</td>
<td>7,070</td>
<td>72,500</td>
<td>34,000</td>
<td>140,000</td>
</tr>
<tr>
<td>November</td>
<td>12,500</td>
<td>3,420</td>
<td>16,200</td>
<td>8,100</td>
<td>7,070</td>
<td>74,000</td>
<td>20,900</td>
<td>130,000</td>
</tr>
<tr>
<td>December</td>
<td>9,380</td>
<td>3,850</td>
<td>10,700</td>
<td>7,850</td>
<td>7,070</td>
<td>70,200</td>
<td>18,300</td>
<td>118,000</td>
</tr>
<tr>
<td>January</td>
<td>17,400</td>
<td>3,810</td>
<td>9,190</td>
<td>7,970</td>
<td>7,070</td>
<td>66,800</td>
<td>16,700</td>
<td>111,000</td>
</tr>
<tr>
<td>February</td>
<td>23,800</td>
<td>5,310</td>
<td>11,900</td>
<td>8,610</td>
<td>7,070</td>
<td>62,900</td>
<td>13,100</td>
<td>109,000</td>
</tr>
<tr>
<td>March</td>
<td>29,200</td>
<td>3,470</td>
<td>13,200</td>
<td>8,570</td>
<td>7,070</td>
<td>65,500</td>
<td>10,900</td>
<td>109,000</td>
</tr>
<tr>
<td>April</td>
<td>27,100</td>
<td>3,360</td>
<td>12,800</td>
<td>7,550</td>
<td>7,070</td>
<td>60,200</td>
<td>9,950</td>
<td>101,000</td>
</tr>
<tr>
<td>May</td>
<td>27,100</td>
<td>2,930</td>
<td>12,400</td>
<td>7,850</td>
<td>7,070</td>
<td>55,100</td>
<td>1,630</td>
<td>86,900</td>
</tr>
<tr>
<td>June</td>
<td>17,600</td>
<td>3,260</td>
<td>19,300</td>
<td>9,190</td>
<td>7,070</td>
<td>45,000</td>
<td>1,180</td>
<td>85,000</td>
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<tr>
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<td>19,600</td>
<td>4,540</td>
<td>14,000</td>
<td>9,430</td>
<td>7,070</td>
<td>41,600</td>
<td>1,180</td>
<td>77,800</td>
</tr>
</tbody>
</table>

\(^3\)Preliminary.

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

\(^2\)Copper content.

\(^3\)Monthly estimates based on 2018 annual data, comprising stocks at ingot makers, chemical plants, foundries, and miscellaneous manufacturers.

\(^4\)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)

<table>
<thead>
<tr>
<th>Period</th>
<th>U.S. producers cathode</th>
<th>Comex first position</th>
<th>LME cash price Grade A</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>293.300</td>
<td>286.600</td>
<td>288.202</td>
</tr>
<tr>
<td>August</td>
<td>298.377</td>
<td>291.752</td>
<td>294.685</td>
</tr>
<tr>
<td>September</td>
<td>309.052</td>
<td>302.302</td>
<td>304.470</td>
</tr>
<tr>
<td>October</td>
<td>312.495</td>
<td>305.695</td>
<td>304.033</td>
</tr>
<tr>
<td>November</td>
<td>327.338</td>
<td>320.338</td>
<td>320.392</td>
</tr>
<tr>
<td>December</td>
<td>360.470</td>
<td>353.470</td>
<td>351.772</td>
</tr>
<tr>
<td>Year</td>
<td>286.745</td>
<td>279.948</td>
<td>279.797</td>
</tr>
<tr>
<td>2021:</td>
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<td></td>
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</tr>
<tr>
<td>January</td>
<td>369.318</td>
<td>362.318</td>
<td>361.536</td>
</tr>
<tr>
<td>February</td>
<td>393.314</td>
<td>386.126</td>
<td>383.750</td>
</tr>
<tr>
<td>March</td>
<td>416.141</td>
<td>408.828</td>
<td>408.459</td>
</tr>
<tr>
<td>April</td>
<td>432.183</td>
<td>424.783</td>
<td>423.453</td>
</tr>
<tr>
<td>May</td>
<td>471.410</td>
<td>463.535</td>
<td>461.937</td>
</tr>
<tr>
<td>June</td>
<td>448.082</td>
<td>439.832</td>
<td>436.012</td>
</tr>
<tr>
<td>July</td>
<td>443.779</td>
<td>435.479</td>
<td>427.900</td>
</tr>
<tr>
<td>January–July</td>
<td>424.890</td>
<td>417.272</td>
<td>414.721</td>
</tr>
</tbody>
</table>

1 Sum of “Comex high grade first position” and “NY dealer premium cathode.”
2 Listed as “Comex high grade first position.”

Source: S&P Global Platts Metals Week.
TABLE 12
AVERAGE BUYING PRICES FOR COPPER SCRAP IN THE UNITED STATES

(Cents per pound)

<table>
<thead>
<tr>
<th>Period</th>
<th>Brass mills</th>
<th>Refiners</th>
<th>Red brass</th>
<th>Dealers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No. 1 scrap</td>
<td>No. 2 scrap</td>
<td>No. 2 scrap</td>
<td>turnings and borings</td>
</tr>
<tr>
<td>2020:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July</td>
<td>279.55</td>
<td>258.32</td>
<td>207.09</td>
<td>130.00</td>
</tr>
<tr>
<td>August</td>
<td>282.05</td>
<td>258.79</td>
<td>212.52</td>
<td>124.76</td>
</tr>
<tr>
<td>September</td>
<td>291.05</td>
<td>262.19</td>
<td>220.00</td>
<td>128.86</td>
</tr>
<tr>
<td>October</td>
<td>291.93</td>
<td>261.84</td>
<td>222.73</td>
<td>130.00</td>
</tr>
<tr>
<td>November</td>
<td>306.26</td>
<td>277.53</td>
<td>230.00</td>
<td>139.47</td>
</tr>
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1 Data are rounded to no more than three significant digits; may not add to totals shown.
2 Harmonized Tariff Schedule of the United States (HTS) code 2603.00.0010. Includes copper ore and concentrates only; excludes copper contained in ore and concentrates of other metals.
3 HTS codes 2620.30.0010 and 7401.00.0000. Includes copper matte, ash, and precipitates only; excludes the copper content of mattes and ashes of other metals.
4 HTS code 7402.00.0000.
5 HTS codes 7403.11.0000, 7403.12.0000, 7403.13.0000, and 7403.19.0000.
6 Less than ½ unit.

Source: U.S. Census Bureau.
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1. Data are rounded to no more than three significant digits; may not add to totals shown.
2. Schedule B of the United States code 2603.00.0010. Includes copper ore and concentrates only; excludes copper contained in ore and concentrates of other metals.
3. Schedule B codes 2620.30.0000, 7401.00.0010, and 7401.00.0050. Includes copper matte, ash, and precipitates only; excludes the copper content of mattes and ashes of other metals.
4. Schedule B code 7402.00.0000.
5. Schedule B codes 7403.11.0000, 7403.12.0000, 7403.13.0000, and 7403.19.0000.
6. Less than ½ unit.

Source: U.S. Census Bureau.
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1 Data are rounded to no more than three significant digits; may not add to totals shown.
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3 HTS codes 7404.00.3045, 7404.00.3055, 7404.00.3065, 7404.00.3090, 7404.00.6045, 7404.00.6055, 7404.00.6065, and 7404.00.6090.

Source: U.S. Census Bureau.
TABLE 16  
U.S. EXPORTS OF COPPER SCRAP1

(Metric tons, gross weight)

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<td>179</td>
</tr>
<tr>
<td>Vietnam</td>
<td>7,480</td>
<td>110</td>
<td>618</td>
<td>25</td>
<td>124</td>
</tr>
<tr>
<td>Other</td>
<td>22,900</td>
<td>622</td>
<td>5,630</td>
<td>56</td>
<td>1,500</td>
</tr>
</tbody>
</table>

-- Zero.

1Data are rounded to no more than three significant digits; may not add to totals shown.
2Schedule B of the United States codes 7404.00.0010 and 7404.00.0015 (no. 1), 7404.00.0025 (no. 2), and 7404.00.0030 (other).
3Schedule B codes for segregated alloyed copper scrap are 7404.00.0041, 7404.00.0046, 7404.00.0051, 7404.00.0056, 7404.00.0061, 7404.00.0066, and 7404.00.0075. Schedule B codes for unsegregated alloyed copper scrap are 7404.00.0085 and 7404.00.0095.

Source: U.S. Census Bureau.