This annual report summarizes data on crude nonfuel mineral production1 for the United States, its island possessions, and the Commonwealth of Puerto Rico.

Although crude mineral production may be measured at any of several stages of extraction and processing, the stage of measurement used in this annual report is what is termed “mine output.” This term refers to minerals or ores in the form in which they are first extracted from the ground but customarily may include the output from auxiliary processing at or near the mines.

1The terms “nonfuel mineral production” and related “values” encompass variations in meaning, depending upon the mineral products. Production may be measured by mine shipments, mineral commodity sales, or marketable production (including consumption by producers) as is applicable to the individual mineral commodity.

All 2003 U.S. Geological Survey (USGS) mineral production data published in this chapter are as of March 2005. For some mineral commodities, such as construction sand and gravel, crushed stone, and portland cement, estimates are updated periodically. To obtain the most current information, please contact the appropriate USGS mineral commodity specialist. Specialist contact information may be retrieved over the Internet at URL http://minerals.usgs.gov/minerals/contacts/comdir.html; alternatively, specialists’ names and telephone numbers may be obtained by calling USGS information at (703) 648-4000 or by calling the USGS Earth Science Information Center at 1-888-ASK-USGS (275-8747). All Mineral Industry Surveys—mineral commodity, State, and country—also may be retrieved over the Internet at URL http://minerals.usgs.gov/minerals.

Because of inadequacies in the statistics available, some series deviate from the foregoing definition. For copper, gold, lead, silver, and zinc, the quantities shown are recorded on a mine basis (as the recoverable content of ore sold or treated). The values assigned to the quantities, however, are based on the average selling price of refined metal, not the mine value.

The total value of all nonfuel mineral production in the United States in 2003 increased to $39.4 billion, which was an increase of almost 4.0% compared with that of 2002; metals increased to almost $8.6 billion, which was an increase of almost 3.8%; and industrial minerals rose to $30.8 billion, an increase of slightly more than 4.0%.

In 2003, the value of nonfuel mineral commodity production in the following eight commodities, in descending order of production value, was greater than $1 billion: stone (crushed), cement (Portland), sand and gravel (construction), gold, copper, lime, iron ore (usable), and salt. They accounted for more than 77% of the U.S. total production value (table 1).

In 2003, the value of nonfuel mineral commodity production in the following 13 States, in descending order of production value, was greater than $1 billion: California, Nevada, Texas, Arizona, Florida, Georgia, Michigan, Utah, Missouri, Pennsylvania, Minnesota, Alaska, and Ohio. They accounted for almost 60% of the U.S. total production value (table 3).
### TABLE 1
NONFUEL MINERAL PRODUCTION IN THE UNITED STATES1, 2

(Thousand metric tons and thousand dollars unless otherwise specified)

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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</tr>
</thead>
<tbody>
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<td></td>
<td></td>
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<td>Beryllium concentrates</td>
<td>2,480</td>
<td>3</td>
<td>1,970</td>
<td>2</td>
<td>2,100</td>
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<tr>
<td>Copper</td>
<td>1,340</td>
<td>2,270,000</td>
<td>1,140</td>
<td>1,910,000</td>
<td>1,120</td>
<td>2,100,000</td>
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<tr>
<td>Lead</td>
<td>335,000</td>
<td>2,930,000</td>
<td>298,000</td>
<td>2,980,000</td>
<td>277,000</td>
<td>3,250,000</td>
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<td>Iron ore, usable</td>
<td>50,600</td>
<td>1,210,000</td>
<td>51,500</td>
<td>1,340,000</td>
<td>44,500</td>
<td>1,200,000</td>
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<td>Iron oxide pigments, crude</td>
<td>61,500</td>
<td>3,640</td>
<td>53,200</td>
<td>1,070</td>
<td>50,900</td>
<td>814</td>
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<tr>
<td>Lead</td>
<td>454,000</td>
<td>437,000</td>
<td>440,000</td>
<td>423,000</td>
<td>449,000</td>
<td>433,000</td>
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<tr>
<td>Molybdenum concentrates</td>
<td>37,600</td>
<td>198,000</td>
<td>32,300</td>
<td>232,000</td>
<td>33,600</td>
<td>324,000</td>
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<tr>
<td>Palladium</td>
<td>12,100</td>
<td>162,000</td>
<td>14,800</td>
<td>162,000</td>
<td>14,000</td>
<td>190,000</td>
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<tr>
<td>Silver</td>
<td>799,000</td>
<td>774,000</td>
<td>780,000</td>
<td>664,000</td>
<td>738,000</td>
<td>661,000</td>
</tr>
<tr>
<td>Combined values of magnesium</td>
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<td>277,000</td>
<td>XX</td>
<td>258,000</td>
<td>XX</td>
<td>233,000</td>
</tr>
<tr>
<td>Total</td>
<td>XX</td>
<td>8,650,000</td>
<td>XX</td>
<td>8,260,000</td>
<td>XX</td>
<td>8,570,000</td>
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<tr>
<td><strong>Industrial minerals, excluding fuels:</strong></td>
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<td></td>
<td></td>
<td></td>
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<td>5,260</td>
<td>W</td>
<td>2,720</td>
<td>W</td>
<td>1,380</td>
<td>--</td>
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<tr>
<td>Barite</td>
<td>400</td>
<td>11,000</td>
<td>420</td>
<td>12,200</td>
<td>468</td>
<td>13,900</td>
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<tr>
<td>Common</td>
<td>1,050</td>
<td>506,000</td>
<td>1,050</td>
<td>513,000</td>
<td>1,150</td>
<td>591,000</td>
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<td>Cement</td>
<td>212,000</td>
<td>159,000</td>
<td>222,000</td>
<td>166,000</td>
<td>216,000</td>
<td>155,000</td>
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<tr>
<td>Clay</td>
<td>4,450</td>
<td>477,000</td>
<td>4,450</td>
<td>480,000</td>
<td>4,740</td>
<td>468,000</td>
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<td>Feldspar</td>
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<td>3,500,000</td>
<td>85,300</td>
<td>3,500,000</td>
<td>88,100</td>
<td>3,600,000</td>
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<td>Diatomite</td>
<td>644</td>
<td>174,000</td>
<td>624</td>
<td>159,000</td>
<td>620</td>
<td>160,000</td>
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<tr>
<td>Diamond</td>
<td>800,000</td>
<td>44,100</td>
<td>790,000</td>
<td>42,800</td>
<td>800,000</td>
<td>43,400</td>
</tr>
<tr>
<td>Garnet, industrial</td>
<td>52,700</td>
<td>6,430</td>
<td>38,500</td>
<td>4,500</td>
<td>29,200</td>
<td>3,170</td>
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<tr>
<td>Gypsum, crude</td>
<td>16,300</td>
<td>119,000</td>
<td>15,700</td>
<td>108,000</td>
<td>16,700</td>
<td>114,000</td>
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<td>Helium</td>
<td>46</td>
<td>50,200</td>
<td>50</td>
<td>63,600</td>
<td>49</td>
<td>67,000</td>
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<tr>
<td>Grade-A</td>
<td>132</td>
<td>262,000</td>
<td>127</td>
<td>293,000</td>
<td>122</td>
<td>282,000</td>
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<tr>
<td>Iodine, crude</td>
<td>1,290</td>
<td>18,400</td>
<td>1,420</td>
<td>21,600</td>
<td>1,090</td>
<td>15,900</td>
</tr>
<tr>
<td>Kyanite</td>
<td>90</td>
<td>13,400</td>
<td>90</td>
<td>13,400</td>
<td>90</td>
<td>13,400</td>
</tr>
<tr>
<td>Lime</td>
<td>18,900</td>
<td>1,160,000</td>
<td>17,900</td>
<td>1,120,000</td>
<td>W</td>
<td>W</td>
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<tr>
<td>Mica, crude</td>
<td>98</td>
<td>7,990</td>
<td>81</td>
<td>7,340</td>
<td>79</td>
<td>16,700</td>
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<tr>
<td>Peat</td>
<td>820</td>
<td>21,100</td>
<td>728</td>
<td>21,000</td>
<td>632</td>
<td>18,800</td>
</tr>
<tr>
<td>Perlite, crude</td>
<td>588,000</td>
<td>21,300</td>
<td>521,000</td>
<td>19,000</td>
<td>493,000</td>
<td>18,800</td>
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<tr>
<td>Phosphate rock, marketable</td>
<td>31,900</td>
<td>856,000</td>
<td>36,100</td>
<td>993,000</td>
<td>35,000</td>
<td>946,000</td>
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<tr>
<td>Potash</td>
<td>2,400</td>
<td>260,000</td>
<td>2,600</td>
<td>280,000</td>
<td>2,500</td>
<td>280,000</td>
</tr>
<tr>
<td>Pumice and pumicite</td>
<td>618,000</td>
<td>18,000</td>
<td>950,000</td>
<td>22,900</td>
<td>870,000</td>
<td>21,900</td>
</tr>
<tr>
<td>Salt</td>
<td>42,200</td>
<td>1,110,000</td>
<td>37,700</td>
<td>1,010,000</td>
<td>41,100</td>
<td>1,130,000</td>
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<tr>
<td>Sand and gravel:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>1,130,000</td>
<td>5,670,000</td>
<td>1,130,000</td>
<td>5,750,000</td>
<td>1,160,000</td>
<td>5,990,000</td>
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<tr>
<td>Industrial</td>
<td>27,900</td>
<td>576,000</td>
<td>27,200</td>
<td>572,000</td>
<td>27,500</td>
<td>609,000</td>
</tr>
<tr>
<td>Silica stone</td>
<td>393</td>
<td>4,040</td>
<td>386</td>
<td>3,740</td>
<td>513</td>
<td>3,630</td>
</tr>
<tr>
<td>Soda ash</td>
<td>10,300</td>
<td>773,000</td>
<td>10,500</td>
<td>784,000</td>
<td>10,600</td>
<td>765,000</td>
</tr>
<tr>
<td>Stone, crushed</td>
<td>1,600,000</td>
<td>8,920,000</td>
<td>1,520,000</td>
<td>8,690,000</td>
<td>1,530,000</td>
<td>9,160,000</td>
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<tr>
<td>Tripoli</td>
<td>60,500</td>
<td>15,100</td>
<td>66,600</td>
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<td>68,800</td>
<td>17,700</td>
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<tr>
<td>Zeolites</td>
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<td>W</td>
<td>NA</td>
<td>W</td>
<td>NA</td>
<td>W</td>
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See footnotes at end of table.
TABLE 1--Continued
NONFUEL MINERAL PRODUCTION IN THE UNITED STATES\(^1,2\)
(Thousand metric tons and thousand dollars unless otherwise specified)

<table>
<thead>
<tr>
<th>Mineral</th>
<th>2001</th>
<th>Value</th>
<th>2002</th>
<th>Value</th>
<th>2003</th>
<th>Value</th>
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<tbody>
<tr>
<td>Combined values of brucite, emery (2002), greensand marl, lithium carbonate, magnesite, magnesium compounds, olivine, pyrophyllite (crude), staurolite, stone (dimension), talc (crude), vermiculite (crude), wollastonite, and values indicated by symbol W</td>
<td>XX 584,000</td>
<td>XX 523,000</td>
<td>XX 1,800,000</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>XX</td>
<td>29,700,000</td>
<td>XX</td>
<td>29,600,000</td>
<td>XX</td>
<td>30,800,000</td>
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<tr>
<td>Grand total</td>
<td>XX</td>
<td>38,300,000</td>
<td>XX</td>
<td>37,900,000</td>
<td>XX</td>
<td>39,400,000</td>
</tr>
</tbody>
</table>

\(^1\)Estimated. \(^2\)Revised. NA Not available. W Withheld to avoid disclosing company proprietary data. Withheld values included in “Combined value” data.
XX Not applicable. ~ Zero.
\(^1\)Production as measured by mine shipments, sales, or marketable production (including consumption by producers).
\(^2\)Data are rounded to three significant digits; may not add to totals shown.
\(^3\)Recoverable content of ores, etc.
\(^4\)Content of ore and concentrate.
\(^5\)Includes grindstones, pulpstones, and sharpening stones; excludes mill liners and grinding pebbles.
\(^6\)Excludes abrasive stone and bituminous limestone and sandstone; all included elsewhere in table.
<table>
<thead>
<tr>
<th>Mineral</th>
<th>Principal States</th>
<th>Other States (alphabetical order)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Asbestos</strong></td>
<td>(1) NV and GA</td>
<td></td>
</tr>
<tr>
<td><strong>Barite</strong></td>
<td>UT</td>
<td></td>
</tr>
<tr>
<td><strong>Beryllium concentrates</strong></td>
<td>CA</td>
<td></td>
</tr>
<tr>
<td><strong>Boron</strong></td>
<td>AR and Mi</td>
<td></td>
</tr>
<tr>
<td><strong>Bromeite</strong></td>
<td>NV and TX</td>
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</tr>
<tr>
<td><strong>Cement:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Masonry</td>
<td>FL, CA, AL, SC, IN</td>
<td>AZ, AR, CO, GA, IA, KS, KY, ME, MD, MI, MO, MT, NE, NM, NY, OH, OK, PA, TN, TX, VA, WV.</td>
</tr>
<tr>
<td>Portland</td>
<td>CA, TX, PA, MI, MO</td>
<td>All other States, except AK, CT, DE, HI, LA, MA, MN, NH, NJ, NC, ND, RI, VT, WI.</td>
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<tr>
<td><strong>Clays:</strong></td>
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<tr>
<td>Ball</td>
<td>TN, TX, KY, MS, IN</td>
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<tr>
<td>Bentonite</td>
<td>WY, MT, AL, MS, UT</td>
<td>AZ, CA, CO, NV, OR, TX.</td>
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<tr>
<td>Common</td>
<td>NC, TX, AL, OH, GA</td>
<td>All other States, except AK, DE, HI, ID, NV, NH, RI, VT, WI.</td>
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<tr>
<td>Fire</td>
<td>MO, SC, OH</td>
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<tr>
<td>Fuller's earth</td>
<td>GA, MS, MO, VA, IL</td>
<td>CA, FL, KS, NV, TN, TX.</td>
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<td>Kaolin</td>
<td>GA, AL, SC, CA, AR</td>
<td>FL, NV, NC, TN, TX.</td>
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<tr>
<td><strong>Copper</strong></td>
<td>AZ, UT, NM, MO, MT</td>
<td>ID.</td>
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<td><strong>Diatomite</strong></td>
<td>NV, CA, OR, WA</td>
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<tr>
<td>Emery</td>
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<tr>
<td>Feldspar</td>
<td>NC, VA, CA, GA, OK</td>
<td>ID and SD.</td>
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<td>Garnet, industrial</td>
<td>NY and ID</td>
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<tr>
<td>Gemstones, natural</td>
<td>TN, AZ, OR, CA, NV</td>
<td>All other States.</td>
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<tr>
<td>Gold</td>
<td>NV, AK, UT, MT, CO</td>
<td>AZ, CA, ID, SD.</td>
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<tr>
<td>Greensand marl</td>
<td>NJ</td>
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<tr>
<td><strong>Gypsum, crude</strong></td>
<td>NV, OK, IA, CA, TX</td>
<td>AZ, AR, CO, IN, KS, LA, MI, NM, SD, UT, WY.</td>
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<tr>
<td><strong>Helium:</strong></td>
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<tr>
<td>Crude</td>
<td>KS and TX</td>
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<tr>
<td>Grade-A</td>
<td>KS, WY, CO, OK, UT</td>
<td>NM and TX.</td>
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<tr>
<td>Toluene</td>
<td>OK</td>
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<tr>
<td>Iron ore, usable</td>
<td>MN, MI, CA</td>
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</tr>
<tr>
<td>Iron oxide pigments, crude</td>
<td>GA, MI, AL, VA</td>
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<tr>
<td>Kyanite</td>
<td>VA</td>
<td></td>
</tr>
<tr>
<td>Lead</td>
<td>MO, AK, ID, MT</td>
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<tr>
<td>Lime</td>
<td>MO, AL, KY, OH, TX</td>
<td>All other States, except AK, CT, DE, FL, HI, KS, ME, MD, MS, NH, NJ, NY, NC, RI, SC, VT.</td>
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<td>Lithium carbonate</td>
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<tr>
<td>Magnesite</td>
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<tr>
<td>Magnesium compounds</td>
<td>MI, UT, FL, DE, CA</td>
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<tr>
<td>Magnesium metal</td>
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<tr>
<td>Mica, crude</td>
<td>NC, NM, GA, SC, SD</td>
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</tr>
<tr>
<td>Molybdenum, concentrates</td>
<td>AZ, CO, UT, ID, NM</td>
<td>MT.</td>
</tr>
<tr>
<td>Olivine</td>
<td>WA and NC</td>
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<tr>
<td><strong>Palladium</strong></td>
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</tr>
<tr>
<td>Pearl</td>
<td>FL, MI, MN, IL, IN</td>
<td>IA, ME, MT, NJ, NY, OH, PA, WA, WV, WY.</td>
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<tr>
<td>Pearlite, crude</td>
<td>NM, OR, AZ, UT, CA</td>
<td>NV and ID.</td>
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<td>Phosphate rock</td>
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<tr>
<td><strong>Platinum</strong></td>
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<tr>
<td>Potash</td>
<td>NM, UT, MI</td>
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</tr>
<tr>
<td>Pumice and pumicite</td>
<td>AZ, OR, NM, CA, ID</td>
<td>KS.</td>
</tr>
<tr>
<td>Pyrophyllite, crude</td>
<td>NC and CA</td>
<td></td>
</tr>
<tr>
<td>Rare-earth metal concentrates</td>
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</tr>
<tr>
<td>Salt</td>
<td>LA, TX, NY, OH, KS</td>
<td>AL, AZ, CA, MI, NV, NM, OK, TN, UT, WY.</td>
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<tr>
<td>Sand and gravel:</td>
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<tr>
<td>Construction</td>
<td>CA, TX, MI, AZ, MN</td>
<td>All other States.</td>
</tr>
<tr>
<td>Industrial</td>
<td>IL, MI, TX, WI, CA</td>
<td>All other States, except AK, CT, DE, HI, KY, ME, MA, MT, NH, NM, OR, SD, UT, VT, WY.</td>
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<tr>
<td><strong>Silica stone</strong></td>
<td>AR</td>
<td></td>
</tr>
<tr>
<td>Silver</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soda ash</td>
<td>WY, CA, CO</td>
<td></td>
</tr>
<tr>
<td>Staurolite</td>
<td>FL</td>
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<tr>
<td>Stone:</td>
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<tr>
<td>Crushed</td>
<td>TX, PA, FL, IL, GA</td>
<td>All other States, except DE.</td>
</tr>
<tr>
<td>Dimension</td>
<td>IN, GA, VT, WI, TX</td>
<td>All other States, except AK, DE, FL, HI, IL, IA, KY, LA, MS, NE, NV, NJ, ND, OR, RI, WY.</td>
</tr>
<tr>
<td>Talc, crude</td>
<td>MT, TX, VT, NY, OR</td>
<td></td>
</tr>
</tbody>
</table>

See footnotes at end of table.
TABLE 2—Continued
NONFUEL MINERALS PRODUCED IN THE UNITED STATES, BY COMMODITY AND STATES IN 2002

(Principal States based upon quantity unless otherwise noted)

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<thead>
<tr>
<th>Mineral</th>
<th>Principal States</th>
<th>Other States (alphabetical order)</th>
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<tbody>
<tr>
<td>Titanium concentrates:</td>
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<tr>
<td>Ilmenite</td>
<td>FL and VA</td>
<td></td>
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<tr>
<td>Rutile</td>
<td>FL</td>
<td></td>
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<tr>
<td>Tripoli</td>
<td>IL, OK, AR, PA</td>
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<tr>
<td>Vermiculite, crude</td>
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<td>Wollastonite</td>
<td>NY</td>
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<tr>
<td>Zeolites</td>
<td>NM, TX, OR, ID, NV AZ and CA.</td>
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<tr>
<td>Zinc(^2)</td>
<td>AK, MO, TN, MT, ID</td>
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<tr>
<td>Zirconium concentrates</td>
<td>FL and VA</td>
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\(^1\) Discontinued, no further production expected.
\(^2\) Content of ores, etc.
\(^3\) No production.
\(^4\) Principal producing States based on value.
\(^5\) Grindstones, pulpstones, and sharpening stones; excludes mill liners and grinding pebbles.


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<th>State</th>
<th>Value (thousands)</th>
<th>Rank</th>
<th>Percentage of U.S. total</th>
<th>Principal minerals, in decending order of value</th>
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Total 39,400,000 XX 100.00

XX Not applicable.

¹Data are rounded to three significant digits; may not add to totals shown.

²Partial total; excludes values that are concealed to avoid disclosing company proprietary data. Concealed values included in "Undistributed."
<table>
<thead>
<tr>
<th>State</th>
<th>Area (square kilometers)</th>
<th>Population (thousands)</th>
<th>Total value (thousands)</th>
<th>Per capita Value (thousands)</th>
<th>Per square kilometer Value</th>
<th>Rank</th>
<th>Rank</th>
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Total or average: 9,370,000 3,293,000 39,400,000 134 XX 4,200 XX

XX Not applicable.

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

2Partial total; excludes values that are concealed to avoid disclosing company proprietary data. Concealed values included in "Undistributed."

3Excludes Washington, DC (which has no mineral production), with an area of 179 square kilometers and a population of 554,000.


<table>
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<th>Quantity</th>
<th>Value</th>
<th>Quantity</th>
<th>Value</th>
<th>Quantity</th>
<th>Value</th>
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<td>W</td>
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See footnotes at end of table.
### TABLE 5–Continued

NONFUEL MINERAL PRODUCTION IN THE UNITED STATES, BY STATE

(Thousand metric tons and thousand dollars unless otherwise specified)

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<th>Mineral</th>
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<th>2002 Quantity</th>
<th>Value</th>
<th>2003 Quantity</th>
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<td>XX</td>
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<td></td>
</tr>
<tr>
<td>Construction</td>
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See footnotes at end of table.
### Mineral Production in the United States by State

**Table 5—Continued**

**Nonfuel Mineral Production in the United States, by State**

(Thousand metric tons and thousand dollars unless otherwise specified)

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<th>Mineral</th>
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<th>2002</th>
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<td>W</td>
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See footnotes at end of table.
TABLE 5--Continued
NONFUEL MINERAL PRODUCTION IN THE UNITED STATES, BY STATE 1, 2

(Thousand metric tons and thousand dollars unless otherwise specified)

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<td>(7)</td>
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See footnotes at end of table.
### TABLE 5—Continued

NONFUEL MINERAL PRODUCTION IN THE UNITED STATES, BY STATE

(Thousand metric tons and thousand dollars unless otherwise specified)

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<td>W</td>
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<td>W NA W</td>
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<td>XX 101,000</td>
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See footnotes at end of table.
TABLE 5—Continued

NONFUEL MINERAL PRODUCTION IN THE UNITED STATES, BY STATE 1, 2

(Thousand metric tons and thousand dollars unless otherwise specified)

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<th>Value</th>
<th>2002 Quantity</th>
<th>Value</th>
<th>2003 Quantity</th>
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Combined values of barite (2001), cement, clays (kaolin), gemstones (natural), lead (2001), lime, salt, silver (2001), stone (dimension marble), zinc, and values indicated by symbol W:

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</tr>
<tr>
<td>Lime</td>
<td>1,610</td>
<td>108,000</td>
<td>1,530</td>
<td>98,400</td>
<td>1,630</td>
<td>110,000</td>
</tr>
<tr>
<td>Salt</td>
<td>9,370</td>
<td>104,000</td>
<td>9,100</td>
<td>103,000</td>
<td>9,640</td>
<td>116,000</td>
</tr>
<tr>
<td>Sand and gravel:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>82,900</td>
<td>405,000</td>
<td>82,600</td>
<td>413,000</td>
<td>85,200</td>
<td>425,000</td>
</tr>
<tr>
<td>Industrial</td>
<td>1,850</td>
<td>70,000</td>
<td>1,670</td>
<td>62,200</td>
<td>1,930</td>
<td>81,700</td>
</tr>
<tr>
<td>Stone:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crushed</td>
<td>126,000</td>
<td>606,000</td>
<td>113,000</td>
<td>543,000</td>
<td>126,000</td>
<td>642,000</td>
</tr>
<tr>
<td>Dimension</td>
<td>86</td>
<td>12,600</td>
<td>65</td>
<td>12,200</td>
<td>87</td>
<td>16,400</td>
</tr>
<tr>
<td>Talc, crude</td>
<td>224</td>
<td>4,070</td>
<td>W</td>
<td>W</td>
<td>246</td>
<td>W</td>
</tr>
<tr>
<td>Zeolites</td>
<td>W</td>
<td>NA</td>
<td>W</td>
<td>NA</td>
<td>W</td>
<td>NA</td>
</tr>
</tbody>
</table>

Combined values of brucite, clays (ball, bentonite), helium (Grade-A), and values indicated by symbol W:

<table>
<thead>
<tr>
<th>Total</th>
<th>XX 2,140,000</th>
<th>XX 2,090,000</th>
<th>XX 2,240,000</th>
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</table>

### Utah:

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<th></th>
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</tr>
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<tbody>
<tr>
<td>Beryllium concentrates</td>
<td>2,480</td>
<td>3</td>
<td>1,970</td>
<td>2</td>
<td>2,100</td>
<td>2</td>
</tr>
<tr>
<td>Clays:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bentonite</td>
<td>51</td>
<td>W</td>
<td>W</td>
<td>W</td>
<td>W</td>
<td>W</td>
</tr>
<tr>
<td>Common</td>
<td>360</td>
<td>5,490</td>
<td>349</td>
<td>5,010</td>
<td>300</td>
<td>3,270</td>
</tr>
<tr>
<td>Gemstones, natural</td>
<td>NA</td>
<td>1,020</td>
<td>NA</td>
<td>230</td>
<td>NA</td>
<td>233</td>
</tr>
<tr>
<td>Salt</td>
<td>2,300</td>
<td>121,000</td>
<td>2,090</td>
<td>113,000</td>
<td>2,200</td>
<td>119,000</td>
</tr>
<tr>
<td>Sand and gravel, construction</td>
<td>28,400</td>
<td>109,000</td>
<td>27,600</td>
<td>104,000</td>
<td>27,400</td>
<td>113,000</td>
</tr>
<tr>
<td>Stone, crushed</td>
<td>8,430</td>
<td>40,500</td>
<td>7,640</td>
<td>38,100</td>
<td>7,820</td>
<td>36,200</td>
</tr>
</tbody>
</table>

Combined values of cement (portland), copper, gold, gypsum (crude), helium (Grade-A), lime, magnesium compounds, magnesium metal, molybdenum concentrates, perlite (crude), phosphate rock, potash, silver, stone (dimension sandstone), and values indicated symbol W:

<table>
<thead>
<tr>
<th>Total</th>
<th>XX 1,090,000</th>
<th>XX 980,000</th>
<th>XX 1,080,000</th>
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See footnotes at end of table.
<table>
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<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Vermont:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gemstones, natural</td>
<td>NA</td>
<td>1</td>
<td>NA</td>
<td>1</td>
<td>NA</td>
<td>1</td>
</tr>
<tr>
<td>Sand and gravel, construction</td>
<td>4,570</td>
<td>20,000</td>
<td>4,990</td>
<td>22,200</td>
<td>4,520</td>
<td>21,100</td>
</tr>
<tr>
<td>Stone:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crushed</td>
<td>4,950</td>
<td>24,300</td>
<td>4,360</td>
<td>21,300</td>
<td>4,290</td>
<td>22,600</td>
</tr>
<tr>
<td>Dimension</td>
<td>98</td>
<td>26,500</td>
<td>101</td>
<td>27,000</td>
<td>102</td>
<td>26,700</td>
</tr>
<tr>
<td>Talc, crude</td>
<td>W</td>
<td>(?)</td>
<td>W</td>
<td>(?)</td>
<td>W</td>
<td>(?)</td>
</tr>
<tr>
<td>Total</td>
<td>XX</td>
<td>70,800</td>
<td>XX</td>
<td>70,600</td>
<td>XX</td>
<td>70,500</td>
</tr>
<tr>
<td>Virginia:</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clays, common</td>
<td>937</td>
<td>1,840</td>
<td>827</td>
<td>3,320</td>
<td>958</td>
<td>2,530</td>
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<tr>
<td>Kyanite</td>
<td>90</td>
<td>13,400</td>
<td>90</td>
<td>13,400</td>
<td>90</td>
<td>13,400</td>
</tr>
<tr>
<td>Sand and gravel, construction</td>
<td>11,800</td>
<td>64,400</td>
<td>10,500</td>
<td>60,000</td>
<td>11,300</td>
<td>65,500</td>
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<td></td>
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<tr>
<td>Crushed</td>
<td>69,100</td>
<td>446,000</td>
<td>58,900</td>
<td>395,000</td>
<td>67,200</td>
<td>486,000</td>
</tr>
<tr>
<td>Dimension</td>
<td>6</td>
<td>626</td>
<td>6</td>
<td>651</td>
<td>6</td>
<td>651</td>
</tr>
<tr>
<td>Combined values of cement, clays (fuller's earth), feldspar, gemstones (natural), iron oxide pigments (crude), lime, sand and gravel (industrial), titanium concentrates (ilmenite), vermiculite (crude), zirconium concentrates</td>
<td>XX</td>
<td>206,000</td>
<td>XX</td>
<td>218,000</td>
<td>XX</td>
<td>223,000</td>
</tr>
<tr>
<td>Total</td>
<td>XX</td>
<td>732,000</td>
<td>XX</td>
<td>690,000</td>
<td>XX</td>
<td>790,000</td>
</tr>
<tr>
<td>Washington:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clays, common</td>
<td>89</td>
<td>258</td>
<td>89</td>
<td>169</td>
<td>83</td>
<td>204</td>
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<tr>
<td>Gemstones, natural</td>
<td>NA</td>
<td>25</td>
<td>NA</td>
<td>29</td>
<td>NA</td>
<td>44</td>
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<tr>
<td>Gold</td>
<td>1,700</td>
<td>14,900</td>
<td>980</td>
<td>9,810</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Sand and gravel, construction</td>
<td>41,400</td>
<td>220,000</td>
<td>43,200</td>
<td>223,000</td>
<td>40,700</td>
<td>216,000</td>
</tr>
<tr>
<td>Silver</td>
<td>--</td>
<td>--</td>
<td>729</td>
<td>108</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Stone, crushed</td>
<td>14,100</td>
<td>84,300</td>
<td>13,700</td>
<td>79,900</td>
<td>12,000</td>
<td>73,500</td>
</tr>
<tr>
<td>Combined values of cement, lime, magnesium metal (2001), olivine, peat, sand and gravel (industrial), stone (dimension miscellaneous)</td>
<td>XX</td>
<td>178,000</td>
<td>XX</td>
<td>124,000</td>
<td>XX</td>
<td>107,000</td>
</tr>
<tr>
<td>Total</td>
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<td>XX</td>
<td>437,000</td>
<td>XX</td>
<td>396,000</td>
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<td>West Virginia:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clays, common</td>
<td>167</td>
<td>462</td>
<td>151</td>
<td>407</td>
<td>142</td>
<td>376</td>
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<td>NA</td>
<td>1</td>
<td>NA</td>
<td>1</td>
</tr>
<tr>
<td>Sand and gravel, construction</td>
<td>1,820</td>
<td>9,260</td>
<td>1,700</td>
<td>8,450</td>
<td>971</td>
<td>4,750</td>
</tr>
<tr>
<td>Stone, crushed</td>
<td>15,300</td>
<td>65,700</td>
<td>14,400</td>
<td>63,400</td>
<td>14,100</td>
<td>68,700</td>
</tr>
<tr>
<td>Combined values of cement, lime, peat, salt, sand and gravel (industrial), stone (dimension sandstone)</td>
<td>XX</td>
<td>102,000</td>
<td>XX</td>
<td>94,900</td>
<td>XX</td>
<td>90,100</td>
</tr>
<tr>
<td>Total</td>
<td>XX</td>
<td>177,000</td>
<td>XX</td>
<td>167,000</td>
<td>XX</td>
<td>164,000</td>
</tr>
<tr>
<td>Wisconsin:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cement, portland</td>
<td>--</td>
<td>--</td>
<td>W</td>
<td>(?)</td>
<td>W</td>
<td>(?)</td>
</tr>
<tr>
<td>Gemstones, natural</td>
<td>NA</td>
<td>6</td>
<td>NA</td>
<td>6</td>
<td>NA</td>
<td>6</td>
</tr>
<tr>
<td>Lime</td>
<td>617</td>
<td>36,900</td>
<td>603</td>
<td>35,600</td>
<td>757</td>
<td>46,000</td>
</tr>
<tr>
<td>Peat</td>
<td>W</td>
<td>(?)</td>
<td>W</td>
<td>(?)</td>
<td>W</td>
<td>(?)</td>
</tr>
<tr>
<td>Sand and gravel:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>41,600</td>
<td>159,000</td>
<td>39,000</td>
<td>154,000</td>
<td>38,500</td>
<td>150,000</td>
</tr>
<tr>
<td>Industrial</td>
<td>1,710</td>
<td>(7)</td>
<td>1,740</td>
<td>32,700</td>
<td>1,930</td>
<td>40,200</td>
</tr>
<tr>
<td>Stone:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crushed</td>
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<td>150,000</td>
<td>36,200</td>
<td>151,000</td>
<td>36,600</td>
<td>196,000</td>
</tr>
<tr>
<td>Dimension</td>
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<td>18,900</td>
<td>100</td>
<td>19,300</td>
<td>101</td>
<td>19,700</td>
</tr>
<tr>
<td>Total</td>
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<td>365,000</td>
<td>XX</td>
<td>392,000</td>
<td>XX</td>
<td>452,000</td>
</tr>
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</table>

See footnotes at end of table.
### TABLE 5—Continued

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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyoming:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clays:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bentonite</td>
<td>3,580</td>
<td>153,000</td>
<td>3,340</td>
<td>145,000</td>
<td>3,420</td>
<td>148,000</td>
</tr>
<tr>
<td>Common</td>
<td>11 e</td>
<td>47 e</td>
<td>33</td>
<td>446</td>
<td>25</td>
<td>55</td>
</tr>
<tr>
<td>Gemstones, natural</td>
<td>NA</td>
<td>12</td>
<td>NA</td>
<td>12</td>
<td>NA</td>
<td>13</td>
</tr>
<tr>
<td>Sand and gravel, construction</td>
<td>7,200</td>
<td>35,100</td>
<td>7,710</td>
<td>32,100</td>
<td>8,290</td>
<td>36,400</td>
</tr>
<tr>
<td>Stone, crushed</td>
<td>4,370</td>
<td>20,400</td>
<td>4,890</td>
<td>23,300</td>
<td>5,030</td>
<td>24,800</td>
</tr>
<tr>
<td>Combined values of cement (portland), gypsum (crude), helium (Grade-A), lime, soda ash</td>
<td>XX</td>
<td>806,000</td>
<td>XX</td>
<td>806,000</td>
<td>XX</td>
<td>789,000</td>
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<tr>
<td>Total</td>
<td>XX</td>
<td>1,010,000</td>
<td>XX</td>
<td>1,010,000</td>
<td>XX</td>
<td>998,000</td>
</tr>
</tbody>
</table>

Undistributed, Connecticut, Delaware, Hawaii, Maryland (2001), Massachusetts, Minnesota, Nebraska, New Hampshire, Pennsylvania, Rhode Island, South Carolina (2001-02), Vermont, Wisconsin, undistributed (2002-03) | XX | 230,000 | XX | 202,000 | XX | 223,000 |

---

2Estimated. 3Revised. NA Not available. W Withheld to avoid disclosing company proprietary data. Withheld values included in "Combined values" data for each State. XX Not applicable. -- Zero.

1Production as measured by mine shipments, sales, or marketable production (including consumption by producers).
2Data are rounded to no more than three significant digits; may not add to totals shown.
3Recoverable content of ores, etc.
4Data collected by State.
5Excludes certain stones; kind and value included in "Combined value."
6Grindstones, pulpstones, and sharpening stones; excludes mill liners and grinding pebbles.
7Withheld to avoid disclosing company proprietary data; values included in "Undistributed."
TABLE 6
NONFUEL RAW MINERAL PRODUCTION IN THE COMMONWEALTH OF PUERTO RICO AND ISLANDS ADMINISTERED
BY THE UNITED STATES\textsuperscript{1,2}

(Thousand metric tons and thousand dollars)

<table>
<thead>
<tr>
<th>Mineral</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Quantity</td>
<td>Value</td>
<td>Quantity</td>
</tr>
<tr>
<td>Puerto Rico:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cement, portland</td>
<td>1,550</td>
<td>W</td>
<td>1,530</td>
</tr>
<tr>
<td>Clays, common</td>
<td>132</td>
<td>351</td>
<td>114</td>
</tr>
<tr>
<td>Lime</td>
<td>11</td>
<td>2,250</td>
<td>W</td>
</tr>
<tr>
<td>Salt</td>
<td>45</td>
<td>1,500</td>
<td>45</td>
</tr>
<tr>
<td>Sand and gravel, industrial</td>
<td>32</td>
<td>1,200</td>
<td>W</td>
</tr>
<tr>
<td>Stone:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crushed</td>
<td>8,000</td>
<td>38,000</td>
<td>7,940</td>
</tr>
<tr>
<td>Dimension, marble</td>
<td>W</td>
<td>W</td>
<td>W</td>
</tr>
<tr>
<td>Total</td>
<td>XX</td>
<td>43,300</td>
<td>XX</td>
</tr>
<tr>
<td>Administered Islands:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Samoa, stone, crushed, traprock</td>
<td>--</td>
<td>--</td>
<td>W</td>
</tr>
<tr>
<td>Guam, stone, crushed</td>
<td>477</td>
<td>1,900</td>
<td>e</td>
</tr>
<tr>
<td>Virgin Islands, stone, crushed limestone and traprock</td>
<td>W</td>
<td>W</td>
<td>W</td>
</tr>
<tr>
<td>Total</td>
<td>XX</td>
<td>1,900</td>
<td>XX</td>
</tr>
</tbody>
</table>

\textsuperscript{1}Production as measured by mine shipments, sales, or marketable production (including consumption by producers).
\textsuperscript{2}Data are rounded to no more than three significant digits; may not add to totals shown.
\textsuperscript{3}Withheld to avoid disclosing company proprietary data; values included in "Total."
### TABLE 7
U.S. EXPORTS OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS<sup>1</sup>

(Thousand metric tons and thousand dollars unless otherwise specified)

<table>
<thead>
<tr>
<th>Mineral or product</th>
<th>2002 Quantity</th>
<th>2002 Value</th>
<th>2003 Quantity</th>
<th>2003 Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metals:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crude and semicrude</td>
<td>metric tons</td>
<td>1,590,000</td>
<td>3,160,000</td>
<td>1,540,000</td>
</tr>
<tr>
<td>Manufactures</td>
<td>do.</td>
<td>100,000</td>
<td>330,000</td>
<td>115,000</td>
</tr>
<tr>
<td>Antimony:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metal, alloys, waste and scrap</td>
<td>do.</td>
<td>992</td>
<td>2,500</td>
<td>771</td>
</tr>
<tr>
<td>Oxide, antimony content</td>
<td>do.</td>
<td>3,260</td>
<td>10,900</td>
<td>2,910</td>
</tr>
<tr>
<td>Arsenic metal, arsenic content</td>
<td>do.</td>
<td>100</td>
<td>11,100</td>
<td>173</td>
</tr>
<tr>
<td>Bauxite and alumina:</td>
<td></td>
<td></td>
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<tr>
<td>Alumina, calcined equivalent</td>
<td>do.</td>
<td>1,270</td>
<td>362,000</td>
<td>1,090</td>
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<td>Bauxite:</td>
<td></td>
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<tr>
<td>Calcined, refractory and other grade</td>
<td>do.</td>
<td>15</td>
<td>2,130</td>
<td>22</td>
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<tr>
<td>Crude and dried</td>
<td>do.</td>
<td>27</td>
<td>2,900</td>
<td>55</td>
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<tr>
<td>Specialty aluminum compounds, sulfate, chloride, fluoride-based</td>
<td>metric tons</td>
<td>28,900</td>
<td>20,900</td>
<td>36,200</td>
</tr>
<tr>
<td>Beryllium, alloys, wrought or unwrought, and waste and scrap</td>
<td>kilograms</td>
<td>165,000</td>
<td>9,210</td>
<td>269,000</td>
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<td>Bismuth, metal, alloys, waste and scrap, bismuth content</td>
<td>do.</td>
<td>131,000</td>
<td>1,320</td>
<td>108,000</td>
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<td>Cadmium:</td>
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<td>Metal, includes cadmium in alloys and scrap</td>
<td>do.</td>
<td>168,000</td>
<td>1,270</td>
<td>558,000</td>
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<tr>
<td>Sulfide, gross weight</td>
<td>do.</td>
<td>25,400</td>
<td>13</td>
<td>184,000</td>
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<td>Chromium:</td>
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<td></td>
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<tr>
<td>Chemicals:</td>
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<td></td>
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</tr>
<tr>
<td>Oxides, trioxides and other</td>
<td>metric tons</td>
<td>10,800</td>
<td>23,400</td>
<td>10,100</td>
</tr>
<tr>
<td>Salts of oxometallic or peroxometallic acids, zinc and lead chromate, sodium dichromate, potassium dichromate, other</td>
<td>do.</td>
<td>13,300</td>
<td>14,600</td>
<td>12,200</td>
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<tr>
<td>Sulfates</td>
<td>do.</td>
<td>93</td>
<td>365</td>
<td>5</td>
</tr>
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<td>Metals and alloys:</td>
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<td></td>
<td></td>
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<tr>
<td>Ferroalloys, high-carbon, low-carbon, ferrochromium-silicon</td>
<td>do.</td>
<td>15,900</td>
<td>10,100</td>
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</tr>
<tr>
<td>Metal, unwrought powders, waste and scrap, other</td>
<td>do.</td>
<td>745</td>
<td>7,450</td>
<td>941</td>
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<td>Ores and concentrate</td>
<td>do.</td>
<td>24,300</td>
<td>4,070</td>
<td>103,000</td>
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<td>Pigments and preparations</td>
<td>do.</td>
<td>824</td>
<td>7,650</td>
<td>867</td>
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<td>Cobalt:</td>
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<td></td>
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<tr>
<td>Acetates and chlorides</td>
<td>do.</td>
<td>383</td>
<td>1,430</td>
<td>616</td>
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<td>Oxides and hydroxides</td>
<td>do.</td>
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<td>7,040</td>
<td>375</td>
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<td>Metal:</td>
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<td></td>
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<tr>
<td>Unwrought, powders, waste and scrap, mattes, other intermediate products of metallurgy</td>
<td>do.</td>
<td>1,600</td>
<td>34,800</td>
<td>2,290</td>
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<td>Wrought and cobalt articles</td>
<td>do.</td>
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<td>26,600</td>
<td>1,010</td>
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<tr>
<td>Columbium (niobium) and tantalum:</td>
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<td></td>
<td></td>
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<tr>
<td>Columbium (niobium):</td>
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<td></td>
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<tr>
<td>Ferrocolumbium</td>
<td>do.</td>
<td>126</td>
<td>1,500</td>
<td>143</td>
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<tr>
<td>Ores and concentrates</td>
<td>do.</td>
<td>64</td>
<td>435</td>
<td>170</td>
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<td>Tantalum:</td>
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<td></td>
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<td></td>
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<tr>
<td>Ores and concentrates, includes synthetic</td>
<td>do.</td>
<td>306</td>
<td>2,010</td>
<td>365</td>
</tr>
<tr>
<td>Unwrought, alloys, metal, powders, waste and scrap</td>
<td>do.</td>
<td>263</td>
<td>119,000</td>
<td>348</td>
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<tr>
<td>Wrought</td>
<td>do.</td>
<td>190</td>
<td>96,200</td>
<td>119</td>
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<td>Copper:</td>
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<td></td>
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<td>Scrap, alloyed and unalloyed</td>
<td>do.</td>
<td>511,000</td>
<td>508,000</td>
<td>689,000</td>
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<td>Semimanufactures</td>
<td>do.</td>
<td>191,000</td>
<td>541,000</td>
<td>189,000</td>
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<tr>
<td>Unmanufactured, does not include unalloyed scrap, copper content</td>
<td>do.</td>
<td>99,600</td>
<td>157,000</td>
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<td>Ferroalloys not listed elsewhere:</td>
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<td>Ferrophosphorous</td>
<td>do.</td>
<td>1,250</td>
<td>860</td>
<td>787</td>
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<td>Other</td>
<td>do.</td>
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<td>7,430</td>
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<td>Gold:</td>
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<td>Bullion, refined</td>
<td>kilograms</td>
<td>185,000</td>
<td>1,830,000</td>
<td>220,000</td>
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<td>Compounds</td>
<td>do.</td>
<td>417,000</td>
<td>8,550</td>
<td>565,000</td>
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<td>Dore and precipitates</td>
<td>do.</td>
<td>71,700</td>
<td>720,000</td>
<td>131,000</td>
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<tr>
<td>Metal powder</td>
<td>do.</td>
<td>10,900</td>
<td>107,000</td>
<td>874</td>
</tr>
<tr>
<td>Ores and concentrates</td>
<td>do.</td>
<td>556</td>
<td>4,020</td>
<td>826</td>
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<tr>
<td>Waste and scrap</td>
<td>do.</td>
<td>85,800</td>
<td>507,000</td>
<td>159,000</td>
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<tr>
<td>Indium&lt;sup&gt;2&lt;/sup&gt;</td>
<td>metric tons</td>
<td>10</td>
<td>730</td>
<td>10</td>
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</tbody>
</table>

See footnotes at end of table.

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<sup>1</sup> Includes fissionable and fertile uranium.

<sup>2</sup> Includes lanthanum.
<table>
<thead>
<tr>
<th>Mineral or product</th>
<th>2002 Quantity</th>
<th>Value</th>
<th>2003 Quantity</th>
<th>Value</th>
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<tbody>
<tr>
<td><strong>Metals--Continued:</strong></td>
<td></td>
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<tr>
<td>Iron and steel:</td>
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<td>Cast iron and steel products</td>
<td>228</td>
<td>475,000</td>
<td>206</td>
<td>374,000</td>
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<tr>
<td>Fabricated steel products</td>
<td>873</td>
<td>2,950,000</td>
<td>963</td>
<td>3,170,000</td>
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<tr>
<td>Steel mill products</td>
<td>5,450</td>
<td>4,500,000</td>
<td>7,460</td>
<td>5,490,000</td>
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<td>Iron and steel scrap:</td>
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<td></td>
<td></td>
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<tr>
<td>Direct-reduced iron, steelmaking grade</td>
<td>4</td>
<td>2,160</td>
<td>7</td>
<td>2,090</td>
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<tr>
<td>Ferrous, includes tinplate and template, excludes used rails for rerolling and other uses, ships, boats, other vessels for scrapping</td>
<td>8,200</td>
<td>1,170,000</td>
<td>9,770</td>
<td>1,760,000</td>
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<tr>
<td>Pig iron, all grades</td>
<td>25</td>
<td>3,830</td>
<td>75</td>
<td>7,610</td>
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<tr>
<td>Ships, boats, and other vessels for scrapping</td>
<td>40</td>
<td>3,230</td>
<td>48</td>
<td>2,580</td>
</tr>
<tr>
<td>Used rails for rerolling and other uses, includes mixed (new plus used) rails</td>
<td>12</td>
<td>4,680</td>
<td>49</td>
<td>16,100</td>
</tr>
<tr>
<td>Iron ore</td>
<td>6,750</td>
<td>249,000</td>
<td>6,770</td>
<td>248,000</td>
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<td><strong>Lead:</strong></td>
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<tr>
<td>Base bullion, Pb content</td>
<td>256</td>
<td>387</td>
<td>593</td>
<td>885</td>
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<tr>
<td>Ore and concentrates, Pb content</td>
<td>241,000</td>
<td>87,200</td>
<td>253,000</td>
<td>97,700</td>
</tr>
<tr>
<td>Scrap, gross weight</td>
<td>106,000</td>
<td>23,300</td>
<td>92,800</td>
<td>23,300</td>
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<tr>
<td>Unwrought and alloys, Pb content</td>
<td>31,400</td>
<td>19,700</td>
<td>92,100</td>
<td>58,500</td>
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<td>Wrought and alloys, Pb content</td>
<td>11,700</td>
<td>24,300</td>
<td>30,500</td>
<td>34,500</td>
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<tr>
<td><strong>Magnesium:</strong></td>
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<td></td>
</tr>
<tr>
<td>Alloys, gross weight</td>
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<td>14,000</td>
<td>2,330</td>
<td>8,330</td>
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<tr>
<td>Metal, Mg content</td>
<td>11,300</td>
<td>21,800</td>
<td>8,770</td>
<td>15,700</td>
</tr>
<tr>
<td>Powder, sheets, tubing, ribbons, wire, other forms, gross weight</td>
<td>4,010</td>
<td>27,400</td>
<td>4,260</td>
<td>28,300</td>
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<tr>
<td>Waste and scrap, Mg content</td>
<td>5,850</td>
<td>14,700</td>
<td>5,030</td>
<td>11,800</td>
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<td><strong>Manganese, gross weight:</strong></td>
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<td></td>
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<tr>
<td>Ferromanganese, all grades</td>
<td>9,230</td>
<td>6,300</td>
<td>10,600</td>
<td>8,840</td>
</tr>
<tr>
<td>Metal, including alloys, and waste and scrap</td>
<td>2,200</td>
<td>6,000</td>
<td>2,340</td>
<td>4,790</td>
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<tr>
<td>Ores and concentrates with 20% or more manganese</td>
<td>15,000</td>
<td>4,100</td>
<td>18,200</td>
<td>3,580</td>
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<tr>
<td>Siliconmanganese</td>
<td>523</td>
<td>439</td>
<td>606</td>
<td>554</td>
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<td>Mercury</td>
<td>201</td>
<td>1,050</td>
<td>287</td>
<td>1,090</td>
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<tr>
<td><strong>Molybdenum:</strong></td>
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<tr>
<td>Oxides and hydroxides, gross weight</td>
<td>1,670</td>
<td>11,800</td>
<td>2,580</td>
<td>20,000</td>
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<tr>
<td>Molybdates, all, gross weight</td>
<td>1,350</td>
<td>8,910</td>
<td>2,270</td>
<td>16,700</td>
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<td>Ferromolybdenum, Mo content</td>
<td>676</td>
<td>6,970</td>
<td>617</td>
<td>8,660</td>
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<tr>
<td>Ore and concentrates, including roasted and other, Mo content</td>
<td>19,500</td>
<td>112,000</td>
<td>29,500</td>
<td>195,000</td>
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<td>Other, includes powders, unwrought, bars and rods, waste and scrap, wire, other, gross weight</td>
<td>854</td>
<td>24,400</td>
<td>1,060</td>
<td>28,400</td>
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<tr>
<td><strong>Nickel, Ni content:</strong></td>
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<tr>
<td>Alloyed, unwrought ingot, bars, rods, profiles, wire, sheets, strip, foil, tubes, pipes, other alloyed articles</td>
<td>29,100</td>
<td>460,000</td>
<td>25,900</td>
<td>427,000</td>
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<td>Primary, chemicals and unwrought</td>
<td>6,520</td>
<td>102,000</td>
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<td>132,000</td>
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<td>Secondary, stainless steel scrap and waste and scrap</td>
<td>39,400</td>
<td>304,000</td>
<td>47,300</td>
<td>424,000</td>
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<tr>
<td>Wrought, not alloyed, bars, rods, profiles, wire, sheets, strip, foil, tubes, pipes</td>
<td>2,570</td>
<td>33,100</td>
<td>2,890</td>
<td>34,400</td>
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<td><strong>Platinum-group metals:</strong></td>
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<td>Iridium, osmium, ruthenium, gross weight</td>
<td>94</td>
<td>1,360</td>
<td>145</td>
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<td>Palladium, Pd content</td>
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<td>578,000</td>
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<td>Rhodium, Rh content</td>
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<td><strong>Rare earths, estimated rare-earth oxide content:</strong></td>
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<td>Cerium compounds</td>
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<td>13,900</td>
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<td>Compounds, inorganic and organic</td>
<td>1,340,000</td>
<td>21,200</td>
<td>1,790,000</td>
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<td>Ferrocerium and other pyrophoric alloys</td>
<td>2,830,000</td>
<td>8,860</td>
<td>2,880,000</td>
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<tr>
<td>Metals, including scandium and yttrium</td>
<td>1,310,000</td>
<td>5,900</td>
<td>730,000</td>
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<td>Selenium, metal, waste and scrap, Se content</td>
<td>86,700</td>
<td>744</td>
<td>243,000</td>
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<td>Silicon, gross weight:</td>
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<td>Ferrosilicon</td>
<td>12,700</td>
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<td>15,200</td>
<td>305,000</td>
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See footnotes at end of table.
### Metals—Continued:

<table>
<thead>
<tr>
<th>Mineral or product</th>
<th>2002 Quantity</th>
<th>Value</th>
<th>2003 Quantity</th>
<th>Value</th>
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<tbody>
<tr>
<td>Bullion, Ag content</td>
<td>kilograms</td>
<td>624,000</td>
<td>97,900</td>
<td>135,000</td>
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<td>Metal powder, gross weight</td>
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<td>22,700</td>
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<td>Nitrate, gross weight</td>
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<td>360,000</td>
<td>63,600</td>
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<td>Semimanufactured forms containing 99.5% or more by weight of silver, gross weight</td>
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<td>290,000</td>
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<td>Waste and scrap, gross weight</td>
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<td>Unwrought, other, gross weight</td>
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<td>Thallium, unwrought powders, waste and scrap, others</td>
<td>do.</td>
<td>651</td>
<td>167</td>
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<tr>
<td>Thorium and thorium-bearing materials, thorium ore, monazite concentrate, compounds</td>
<td>do.</td>
<td>1,930</td>
<td>374</td>
<td>24,900</td>
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<tr>
<td>Tin:</td>
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<td></td>
</tr>
<tr>
<td>Ingot and pigs</td>
<td>metric tons</td>
<td>2,940</td>
<td>14,800</td>
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<td>Tin scrap and other tin-bearing material, except tinplate scrap, includes rods, profiles, wire, powders, flakes, tubes, pipes</td>
<td>do.</td>
<td>24,500</td>
<td>32,200</td>
<td>24,500</td>
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<td>Tinplate and terneplate</td>
<td>do.</td>
<td>2,197,000</td>
<td>129,000</td>
<td>2,630,000</td>
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<td>Titanium:</td>
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<td></td>
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<td>Ferrotitanium and ferrosilicon titanium</td>
<td>do.</td>
<td>1,834</td>
<td>2,340</td>
<td>967</td>
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<td>Metal, wrought and unwrought</td>
<td>do.</td>
<td>17,600</td>
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<td>18,500</td>
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<td>Ores and concentrates</td>
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<td>10,300</td>
</tr>
<tr>
<td>Pigment, dioxide and oxide</td>
<td>do.</td>
<td>540,000</td>
<td>823,000</td>
<td>584,000</td>
</tr>
<tr>
<td>Tungsten, W content:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium paratungstate</td>
<td>do.</td>
<td>69</td>
<td>596</td>
<td>99</td>
</tr>
<tr>
<td>Carbide powder</td>
<td>do.</td>
<td>1,250</td>
<td>20,400</td>
<td>1,690</td>
</tr>
<tr>
<td>Metal powders</td>
<td>do.</td>
<td>496</td>
<td>19,000</td>
<td>1,130</td>
</tr>
<tr>
<td>Miscellaneous tungsten-bearing materials, ferrotungsten, ferrosilicon tungsten, unwrought, waste and scrap, wrought, compounds</td>
<td>do.</td>
<td>1,400</td>
<td>28,600</td>
<td>2,150</td>
</tr>
<tr>
<td>Ores and concentrates</td>
<td>do.</td>
<td>94</td>
<td>2,990</td>
<td>20</td>
</tr>
<tr>
<td>Vanadium:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum-vanadium master alloy, gross weight</td>
<td>kilograms</td>
<td>529,000</td>
<td>11,700</td>
<td>9,590,000</td>
</tr>
<tr>
<td>Ferrovanadium, V content</td>
<td>do.</td>
<td>142,000</td>
<td>1,580</td>
<td>424,000</td>
</tr>
<tr>
<td>Metal, including waste and scrap, gross weight</td>
<td>do.</td>
<td>49,200</td>
<td>898</td>
<td>201,000</td>
</tr>
<tr>
<td>Pentoxide, anhydride, V content</td>
<td>do.</td>
<td>453,000</td>
<td>2,070</td>
<td>791,000</td>
</tr>
<tr>
<td>Other oxides and hydroxides, V content</td>
<td>do.</td>
<td>443,000</td>
<td>3,710</td>
<td>438,000</td>
</tr>
<tr>
<td>Zinc:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compounds, chloride, compounds, n.s.p.f., oxide, sulfate</td>
<td>metric tons</td>
<td>21,500</td>
<td>27,000</td>
<td>22,600</td>
</tr>
<tr>
<td>Ores and concentrates, Zn content</td>
<td>do.</td>
<td>822,000</td>
<td>322,000</td>
<td>841,000</td>
</tr>
<tr>
<td>Rolled</td>
<td>do.</td>
<td>7,200</td>
<td>8,980</td>
<td>9,430</td>
</tr>
<tr>
<td>Slab</td>
<td>do.</td>
<td>1,160</td>
<td>1,210</td>
<td>1,680</td>
</tr>
<tr>
<td>Zirconium:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ferrozirconium</td>
<td>do.</td>
<td>868</td>
<td>1,370</td>
<td>1,930</td>
</tr>
<tr>
<td>Ores and concentrates</td>
<td>do.</td>
<td>47,100</td>
<td>24,600</td>
<td>70,600</td>
</tr>
<tr>
<td>Oxide, includes germanium oxides and zirconium dioxides</td>
<td>do.</td>
<td>1,950</td>
<td>17,600</td>
<td>1,520</td>
</tr>
<tr>
<td>Unwrought powders</td>
<td>do.</td>
<td>109</td>
<td>2,290</td>
<td>101</td>
</tr>
<tr>
<td>Waste and scrap</td>
<td>do.</td>
<td>1,530</td>
<td>89,100</td>
<td>1,590</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>XX</td>
<td>23,400,000</td>
<td>17,900</td>
<td>XX</td>
</tr>
</tbody>
</table>

#### Industrial minerals:

- Abrasives, manufactured:
  - Aluminum oxide, crude | do. | 10,300 | 31,400 | 11,800 | 34,600 |
  - Metallic abrasives | do. | 18,800 | 12,900 | 22,000 | 14,600 |
  - Silicon carbide, crude, ground and refined | do. | 13,700 | 12,300 | 13,200 | 12,100 |
- Asbestos, includes reexports:
  - Manufactured | | | |
  - Unmanufactured | metric tons | 6,550 | 2,020 | 2,820 | 920 |
- Barite, natural barium sulfate | do. | 47,200 | 4,230 | 44,400 | 4,620 |
- Boron minerals and compounds:
  - Boric acid, includes orthoboric and anhydrous | do. | 84 | 44,600 | 7 | 36,400 |
- Sodium borates | do. | 150 | 63,100 | 131 | 55,400 |
- Bromine:
  - Compounds, includes methyl bromine and ethylene dibromide, Br content | metric tons | 6,750 | 13,600 | 6,040 | 11,800 |
  - Elemental, gross weight | do. | 6,070 | 4,680 | 2,280 | 3,090 |
<table>
<thead>
<tr>
<th>Mineral or product</th>
<th>2002 Quantity</th>
<th>2002 Value</th>
<th>2003 Quantity</th>
<th>2003 Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Industrial minerals--Continued:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cement, hydraulic and clinker</td>
<td>843</td>
<td>57,700</td>
<td>837</td>
<td>61,600</td>
</tr>
<tr>
<td>Clays:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ball</td>
<td>127</td>
<td>7,050</td>
<td>139</td>
<td>8,430</td>
</tr>
<tr>
<td>Bentonite</td>
<td>722</td>
<td>87,600</td>
<td>721</td>
<td>88,100</td>
</tr>
<tr>
<td>Fire</td>
<td>251</td>
<td>22,800</td>
<td>285</td>
<td>27,400</td>
</tr>
<tr>
<td>Fuller's earth</td>
<td>60</td>
<td>8,670</td>
<td>48</td>
<td>8,830</td>
</tr>
<tr>
<td>Kaolin</td>
<td>3,350</td>
<td>536,000</td>
<td>3,520</td>
<td>574,000</td>
</tr>
<tr>
<td>Other, n.e.c., includes chamotte or dinas earth, activated clays and earths, artificially activated clays</td>
<td>449</td>
<td>156,000</td>
<td>416</td>
<td>153,000</td>
</tr>
<tr>
<td><strong>Diamond:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gemstones, natural, including reexports</td>
<td>14,300</td>
<td>4,400,000</td>
<td>16,500</td>
<td>5,020,000</td>
</tr>
<tr>
<td><strong>Industrial including exports and reexports:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Powder, dust and grit, natural and synthetic</td>
<td>89,700</td>
<td>58,900</td>
<td>81,100</td>
<td>46,700</td>
</tr>
<tr>
<td>Unworked do.</td>
<td>2,430</td>
<td>19,800</td>
<td>2,710</td>
<td>23,100</td>
</tr>
<tr>
<td>Diatomite</td>
<td>128</td>
<td>40,400</td>
<td>136</td>
<td>43,300</td>
</tr>
<tr>
<td>Feldspar</td>
<td>9,590</td>
<td>1,370</td>
<td>8,950</td>
<td>1,310</td>
</tr>
<tr>
<td>Fluorspar</td>
<td>24,300</td>
<td>3,540</td>
<td>30,700</td>
<td>4,610</td>
</tr>
<tr>
<td>Garnet, industrial</td>
<td>10</td>
<td>8,600</td>
<td>11</td>
<td>7,460</td>
</tr>
<tr>
<td>Graphite, natural and artificial</td>
<td>81,700</td>
<td>99,600</td>
<td>91,900</td>
<td>97,500</td>
</tr>
<tr>
<td><strong>Gypsum and gypsum products:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boards</td>
<td>61</td>
<td>33,700</td>
<td>50</td>
<td>39,300</td>
</tr>
<tr>
<td>Crude</td>
<td>341</td>
<td>16,500</td>
<td>166</td>
<td>18,600</td>
</tr>
<tr>
<td>Plasters</td>
<td>186</td>
<td>31,400</td>
<td>161</td>
<td>31,000</td>
</tr>
<tr>
<td>Other</td>
<td>XX</td>
<td>20,200</td>
<td>XX</td>
<td>21,800</td>
</tr>
<tr>
<td>Helium, Grade-A</td>
<td>40</td>
<td>73,400</td>
<td>41</td>
<td>78,200</td>
</tr>
<tr>
<td>Iodine</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crude/resublimed</td>
<td>1,580</td>
<td>19,700</td>
<td>1,590</td>
<td>19,600</td>
</tr>
<tr>
<td>Potassium iodide do.</td>
<td>84</td>
<td>1,180</td>
<td>51</td>
<td>1,010</td>
</tr>
<tr>
<td><strong>Iron oxide pigments and hydroxides:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pigment grade do.</td>
<td>6,270</td>
<td>12,100</td>
<td>4,500</td>
<td>11,000</td>
</tr>
<tr>
<td>Other grade do.</td>
<td>44,400</td>
<td>45,100</td>
<td>48,800</td>
<td>32,700</td>
</tr>
<tr>
<td>Lime</td>
<td>106</td>
<td>13,100</td>
<td>98</td>
<td>13,700</td>
</tr>
<tr>
<td>Lithium chemicals:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbonate</td>
<td>3,870</td>
<td>12,600</td>
<td>2,980</td>
<td>9,910</td>
</tr>
<tr>
<td>Hydrouxide do.</td>
<td>5,400</td>
<td>20,600</td>
<td>5,830</td>
<td>21,400</td>
</tr>
<tr>
<td>Magnesium compounds:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compounds, chlorides, hydroxide and peroxide, sulfates</td>
<td>29,900</td>
<td>17,400</td>
<td>31,300</td>
<td>17,000</td>
</tr>
<tr>
<td>Magnesite, crude and processed:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caustic-calcinened magnesia do.</td>
<td>5,540</td>
<td>3,390</td>
<td>4,060</td>
<td>2,330</td>
</tr>
<tr>
<td>Crude</td>
<td>19,100</td>
<td>2,310</td>
<td>18,000</td>
<td>2,030</td>
</tr>
<tr>
<td>Dead-burned and fused magnesia do.</td>
<td>72,700</td>
<td>22,900</td>
<td>56,500</td>
<td>20,900</td>
</tr>
<tr>
<td>Other magnesia do.</td>
<td>31,900</td>
<td>22,000</td>
<td>27,500</td>
<td>18,800</td>
</tr>
<tr>
<td>Mica:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scrap and flake:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Powder do.</td>
<td>7,760</td>
<td>4,060</td>
<td>8,020</td>
<td>5,190</td>
</tr>
<tr>
<td>Waste do.</td>
<td>2,050</td>
<td>686</td>
<td>2,350</td>
<td>794</td>
</tr>
<tr>
<td>Sheet:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unworked do.</td>
<td>38</td>
<td>108</td>
<td>34</td>
<td>99</td>
</tr>
<tr>
<td>Worked do.</td>
<td>685</td>
<td>12,400</td>
<td>821</td>
<td>12,300</td>
</tr>
<tr>
<td>Peat</td>
<td>32</td>
<td>2,990</td>
<td>29</td>
<td>3,090</td>
</tr>
<tr>
<td>Perlite, crude and expanded†</td>
<td>42,000</td>
<td>1,530</td>
<td>37,000</td>
<td>1,410</td>
</tr>
<tr>
<td>Pumicite and pumicite</td>
<td>30</td>
<td>11,000</td>
<td>26</td>
<td>11,000</td>
</tr>
<tr>
<td>Salt</td>
<td>689</td>
<td>31,600</td>
<td>718</td>
<td>37,500</td>
</tr>
<tr>
<td>Sand and gravel:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gravel</td>
<td>596</td>
<td>4,230</td>
<td>593</td>
<td>4,180</td>
</tr>
<tr>
<td>Sand</td>
<td>2,640</td>
<td>19,200</td>
<td>1,180</td>
<td>20,700</td>
</tr>
<tr>
<td>Industrial</td>
<td>1,410</td>
<td>145,000</td>
<td>2,620</td>
<td>155,000</td>
</tr>
<tr>
<td>Silica, special stone products</td>
<td>NA</td>
<td>7,300</td>
<td>NA</td>
<td>7,800</td>
</tr>
<tr>
<td>Soda ash</td>
<td>4,250</td>
<td>500,000</td>
<td>4,450</td>
<td>515,000</td>
</tr>
</tbody>
</table>

See footnotes at end of table.
### TABLE 7--Continued

#### U.S. EXPORTS OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS

(Thousand metric tons and thousand dollars unless otherwise specified)

<table>
<thead>
<tr>
<th>Mineral or product</th>
<th>2002 Quantity</th>
<th>2002 Value</th>
<th>2003 Quantity</th>
<th>2003 Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Industrial minerals--Continued:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stone:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crushed</td>
<td>2,560</td>
<td>54,000</td>
<td>1,010</td>
<td>45,600</td>
</tr>
<tr>
<td>Dimension</td>
<td>XX</td>
<td>64,000</td>
<td>XX</td>
<td>63,500</td>
</tr>
<tr>
<td>Strontium:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbonate, precipitated</td>
<td>metric tons 115</td>
<td>244</td>
<td>375</td>
<td>452</td>
</tr>
<tr>
<td>Oxide, hydroxide, peroxide</td>
<td>do. 377</td>
<td>219</td>
<td>653</td>
<td>374</td>
</tr>
<tr>
<td>Sulfur:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elemental</td>
<td>687</td>
<td>40,000</td>
<td>742</td>
<td>46,100</td>
</tr>
<tr>
<td>Sulfuric acid, 100% H₂SO₄</td>
<td>metric tons 147,000</td>
<td>12,800</td>
<td>205,000</td>
<td>18,800</td>
</tr>
<tr>
<td>Talc, excludes powders, talcum (in package), face, compact</td>
<td>166</td>
<td>35,700</td>
<td>192</td>
<td>39,100</td>
</tr>
<tr>
<td>Vermiculite</td>
<td>10</td>
<td>1,300</td>
<td>15</td>
<td>2,050</td>
</tr>
<tr>
<td>Wollastonite</td>
<td>4,750</td>
<td>1,900</td>
<td>4,000</td>
<td>1,600</td>
</tr>
<tr>
<td>Zeolites</td>
<td>metric tons 150</td>
<td>30</td>
<td>1,000</td>
<td>200</td>
</tr>
<tr>
<td>Total</td>
<td>XX</td>
<td>7,220,000</td>
<td>XX</td>
<td>7,980,000</td>
</tr>
<tr>
<td>Grand total</td>
<td>XX</td>
<td>30,600,000</td>
<td>XX</td>
<td>35,300,000</td>
</tr>
</tbody>
</table>

---

1. Estimated. 2. Revised. NA Not available. XX Not applicable.

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

2. Artificial graphite includes large amounts of materials made from petroleum coke.
### TABLE 8
U.S. IMPORTS FOR CONSUMPTION OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS

(Thousand metric tons and thousand dollars unless otherwise specified)

<table>
<thead>
<tr>
<th>Mineral or product</th>
<th>2002</th>
<th>2003</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Quantity</td>
<td>Value</td>
</tr>
<tr>
<td><strong>Metals:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crude and semicrude</td>
<td>4,060,000</td>
<td>6,490,000</td>
</tr>
<tr>
<td>Manufactures</td>
<td>227,000</td>
<td>541,000</td>
</tr>
<tr>
<td><strong>Antimony:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metal do.</td>
<td>4,050</td>
<td>6,870</td>
</tr>
<tr>
<td>Ore and concentrate, antimony content do.</td>
<td>1,310</td>
<td>3,050</td>
</tr>
<tr>
<td>Oxide, antimony content do.</td>
<td>23,200</td>
<td>46,700</td>
</tr>
<tr>
<td><strong>Arsenic:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acid do.</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Metal do.</td>
<td>879</td>
<td>3,390</td>
</tr>
<tr>
<td>Sulfide do.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Trioxide do.</td>
<td>24,700</td>
<td>12,600</td>
</tr>
<tr>
<td><strong>Bauxite and alumina:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alumina, calcined equivalent</td>
<td>3,010</td>
<td>633,000</td>
</tr>
<tr>
<td><strong>Bauxite:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcined, refractory and other grade</td>
<td>237</td>
<td>20,300</td>
</tr>
<tr>
<td>Crude and dried</td>
<td>7,340</td>
<td>147,000</td>
</tr>
<tr>
<td><strong>Speciality aluminum compounds, sulfate, chloride, fluoride-based:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>metric tons</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beryllium, ore, metal, and compounds</td>
<td>507,000</td>
<td>3,420</td>
</tr>
<tr>
<td>Bismuth, metallic do.</td>
<td>1,930,000</td>
<td>12,200</td>
</tr>
<tr>
<td><strong>Cadmium:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metal do.</td>
<td>24,700</td>
<td>978</td>
</tr>
<tr>
<td>Sulfide, gross weight do.</td>
<td>6,710</td>
<td>88</td>
</tr>
<tr>
<td><strong>Chromium:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemicals:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbidexdo.</td>
<td>261</td>
<td>2,760</td>
</tr>
<tr>
<td>Oxides, trioxides and other do.</td>
<td>19,400</td>
<td>34,100</td>
</tr>
<tr>
<td>Salts of oxometallic or peroxometallic acids, zinc and lead chromate, sodium dichromate, potassium dichromate, other do.</td>
<td>19,400</td>
<td>10,700</td>
</tr>
<tr>
<td>Sulfates do.</td>
<td>76</td>
<td>90</td>
</tr>
<tr>
<td>Chrome ore do.</td>
<td>112,000</td>
<td>6,720</td>
</tr>
<tr>
<td><strong>Metals and alloys:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ferroalloys, high-carbon, low-carbon, ferrochromium-silicon do.</td>
<td>345,000</td>
<td>135,000</td>
</tr>
<tr>
<td>Metal, unwrought powders, waste and scrap, other do.</td>
<td>7,430</td>
<td>42,900</td>
</tr>
<tr>
<td>Pigments and preparations based on chromium do.</td>
<td>9,130</td>
<td>23,700</td>
</tr>
<tr>
<td><strong>Cobalt:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alloys, articles, matte, wrought, waste and scrap do.</td>
<td>526</td>
<td>14,700</td>
</tr>
<tr>
<td>Unwrought, excluding alloys and waste and scrap, includes cathode and metal powder; may include intermediate products of cobalt metallurgy do.</td>
<td>6,800</td>
<td>114,000</td>
</tr>
<tr>
<td>Oxide and hydroxides do.</td>
<td>1,300</td>
<td>20,000</td>
</tr>
<tr>
<td>Other forms, includes acetates, carbonates, chlorides, sulfates do.</td>
<td>2,580</td>
<td>10,500</td>
</tr>
<tr>
<td><strong>Columbium (niobium) and tantalum:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Columbium:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ferrocolumbium do.</td>
<td>6,200</td>
<td>52,500</td>
</tr>
<tr>
<td>Ores and concentrates do.</td>
<td>22</td>
<td>326</td>
</tr>
<tr>
<td>Oxide do.</td>
<td>935</td>
<td>14,600</td>
</tr>
<tr>
<td>Unwrought, alloys, metals, powder do.</td>
<td>673</td>
<td>19,000</td>
</tr>
<tr>
<td>Tantalum:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ores and concentrates, includes synthetic concentrates do.</td>
<td>2,400</td>
<td>83,500</td>
</tr>
<tr>
<td>Unwrought, alloys, metal, powders, waste and scrap do.</td>
<td>500</td>
<td>51,000</td>
</tr>
<tr>
<td>Wrought do.</td>
<td>51</td>
<td>10,900</td>
</tr>
<tr>
<td><strong>Copper:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scrap, alloyed and unalloyed do.</td>
<td>80,300</td>
<td>128,000</td>
</tr>
<tr>
<td>Semimanufactures do.</td>
<td>453,000</td>
<td>929,000</td>
</tr>
<tr>
<td>Unmanufactured, does not include unalloyed scrap, copper content do.</td>
<td>1,150,000</td>
<td>1,960,000</td>
</tr>
<tr>
<td>Ferroalloys not listed elsewhere:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ferrophosphorus do.</td>
<td>9,470</td>
<td>1,670</td>
</tr>
<tr>
<td>Other do.</td>
<td>20,700</td>
<td>24,500</td>
</tr>
</tbody>
</table>

See footnotes at end of table.
### TABLE 8--Continued

<table>
<thead>
<tr>
<th>Mineral or product</th>
<th>2002</th>
<th>2003</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Metals--Continued:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gallium:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gallium arsenide wafers, doped and undoped</td>
<td>120,000</td>
<td>93,900</td>
</tr>
<tr>
<td>Unwrought and waste and scrap</td>
<td>13,100</td>
<td>3,550</td>
</tr>
<tr>
<td>Germanium, wrought, unwrought, waste and scrap, gross weight</td>
<td>13,100</td>
<td>6,410</td>
</tr>
<tr>
<td><strong>Gold:</strong></td>
<td></td>
<td></td>
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<tr>
<td>Bullion, refined</td>
<td>172,000</td>
<td>1,740,000</td>
</tr>
<tr>
<td>Compounds</td>
<td>18,100</td>
<td>952</td>
</tr>
<tr>
<td>Dore and precipitates</td>
<td>42,200</td>
<td>334,000</td>
</tr>
<tr>
<td>Metal powder</td>
<td>10,700</td>
<td>93,500</td>
</tr>
<tr>
<td>Ores and concentrates</td>
<td>42,200</td>
<td>334,000</td>
</tr>
<tr>
<td>Waste and scrap</td>
<td>11,900</td>
<td>74,400</td>
</tr>
<tr>
<td>Indium, unwrought and waste and scrap</td>
<td>112,000</td>
<td>7,750</td>
</tr>
<tr>
<td><strong>Iron and steel:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cast iron and steel products</td>
<td>569</td>
<td>445,000</td>
</tr>
<tr>
<td>Fabricated steel products</td>
<td>4,240</td>
<td>6,160,000</td>
</tr>
<tr>
<td>Stainless steel metric tons</td>
<td>609,000</td>
<td>1,500,000</td>
</tr>
<tr>
<td>Steel mill products</td>
<td>29,600</td>
<td>12,100,000</td>
</tr>
<tr>
<td><strong>Iron and steel scrap:</strong></td>
<td>1,850</td>
<td>182,000</td>
</tr>
<tr>
<td>Ferrous, includes tinsplate and template, excludes used rails for rerolling and other uses, ships, boats, other vessels for scrap</td>
<td>2,840</td>
<td>341,000</td>
</tr>
<tr>
<td>Pig iron, all grades</td>
<td>4,060</td>
<td>463,000</td>
</tr>
<tr>
<td>Ships, boats, and other vessels for scrap</td>
<td>2,570</td>
<td>1,740</td>
</tr>
<tr>
<td>Used rails for rerolling and other uses, includes mixed (new plus used), rails</td>
<td>195</td>
<td>26,900</td>
</tr>
<tr>
<td>Iron ore</td>
<td>12,500</td>
<td>313,000</td>
</tr>
<tr>
<td><strong>Lead:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ores and concentrates, Pb content</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>Pegmatite and compounds, Pb content</td>
<td>33,300</td>
<td>44,200</td>
</tr>
<tr>
<td>Pigs and bars, Pb content</td>
<td>210,000</td>
<td>107,000</td>
</tr>
<tr>
<td>Scrap, reclaimed, includes ash and residues, Pb content</td>
<td>2,570</td>
<td>1,740</td>
</tr>
<tr>
<td>Wrought, all forms, including wire and powders, gross weight</td>
<td>7,990</td>
<td>16,200</td>
</tr>
<tr>
<td><strong>Magnesium:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alloys, Mg content</td>
<td>41,900</td>
<td>109,000</td>
</tr>
<tr>
<td>Metal, gross weight</td>
<td>29,900</td>
<td>63,900</td>
</tr>
<tr>
<td>Powder, sheets, tubing, ribbons, wire, other forms, Mg content</td>
<td>2,090</td>
<td>12,200</td>
</tr>
<tr>
<td>Waste and scrap, gross weight</td>
<td>14,100</td>
<td>20,900</td>
</tr>
<tr>
<td><strong>Manganese:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemicals, manganese dioxide and potassium permanganate, gross weight</td>
<td>38,200</td>
<td>53,500</td>
</tr>
<tr>
<td>Ferromanganese, all grades, Mn content</td>
<td>218,000</td>
<td>124,000</td>
</tr>
<tr>
<td>Metal, unwrought, waste and scrap, other, gross weight</td>
<td>29,600</td>
<td>27,100</td>
</tr>
<tr>
<td>Ores and concentrates with 20% or manganese, all grades, Mn content</td>
<td>214,000</td>
<td>29,200</td>
</tr>
<tr>
<td>Siliconmanganese, Mn content</td>
<td>165,000</td>
<td>111,000</td>
</tr>
<tr>
<td>Mercury</td>
<td>209</td>
<td>889</td>
</tr>
<tr>
<td><strong>Molybdenum:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemicals, gross weight:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxides and hydroxides</td>
<td>1,210</td>
<td>7,500</td>
</tr>
<tr>
<td>Molybdates, all</td>
<td>2,170</td>
<td>12,500</td>
</tr>
<tr>
<td>Orange</td>
<td>1,300</td>
<td>5,330</td>
</tr>
<tr>
<td>Ferromolybdenum, Mo content</td>
<td>3,590</td>
<td>30,900</td>
</tr>
<tr>
<td>Ores and concentrates, including roasted and other, Mo content</td>
<td>4,710</td>
<td>36,700</td>
</tr>
<tr>
<td>Other, includes powders, unwrought, bars and rods, waste and scrap, wire, other, gross weight</td>
<td>879</td>
<td>16,000</td>
</tr>
<tr>
<td><strong>Nickel, Ni content:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alloied, unwrought ingot, bars, rods, profiles, wire, sheets, strip, foil, tubes, pipes, other alloyed articles</td>
<td>18,800</td>
<td>241,000</td>
</tr>
<tr>
<td>Primary, chemicals and unwrought</td>
<td>121,000</td>
<td>864,000</td>
</tr>
<tr>
<td>Secondary, stainless steel scrap and waste and scrap</td>
<td>9,110</td>
<td>67,400</td>
</tr>
<tr>
<td>Wrought, not alloyed, bars, rods, profiles, wire, sheets, strip, foil, tubes, pipes</td>
<td>879</td>
<td>14,800</td>
</tr>
</tbody>
</table>

See footnotes at end of table.
**TABLE 8—Continued**

U.S. IMPORTS FOR CONSUMPTION OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS

(Thousand metric tons and thousand dollars unless otherwise specified)

<table>
<thead>
<tr>
<th>Mineral or product</th>
<th>2002 Quantity</th>
<th>2002 Value</th>
<th>2003 Quantity</th>
<th>2003 Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Metals—Continued:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Platinum-group metals, metal content:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iridium, unwrought and other forms</td>
<td>kilograms</td>
<td>2,100</td>
<td>20,100</td>
<td>2,200</td>
</tr>
<tr>
<td>Osmium, unwrought</td>
<td>do.</td>
<td>36</td>
<td>294</td>
<td>53</td>
</tr>
<tr>
<td>Palladium, unwrought and other</td>
<td>do.</td>
<td>117,000</td>
<td>1,160,000</td>
<td>105,000</td>
</tr>
<tr>
<td>Platinum, grains and nuggets, sponge, other unwrought, other, waste and scrap, coins</td>
<td>do.</td>
<td>84,800</td>
<td>1,400,000</td>
<td>88,400</td>
</tr>
<tr>
<td>Rhodium, unwrought and other forms</td>
<td>do.</td>
<td>8,630</td>
<td>288,000</td>
<td>12,000</td>
</tr>
<tr>
<td>Ruthenium, unwrought</td>
<td>do.</td>
<td>9,890</td>
<td>21,400</td>
<td>15,900</td>
</tr>
<tr>
<td><strong>Rare earths, estimated rare-earth oxide content:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cerium compounds, including oxides, hydroxides, nitrates, sulfate chlorides, oxalates</td>
<td>do.</td>
<td>2,540,000</td>
<td>19,100</td>
<td>2,430,000</td>
</tr>
<tr>
<td>Compounds, including oxides, hydroxides, nitrates, other compounds except chlorides</td>
<td>do.</td>
<td>7,260,000</td>
<td>49,200</td>
<td>9,580,000</td>
</tr>
<tr>
<td>Ferrocerium and other pyrophoric alloys</td>
<td>do.</td>
<td>89,500</td>
<td>1,220</td>
<td>102,000</td>
</tr>
<tr>
<td>Metals, whether intermixed or alloyed</td>
<td>do.</td>
<td>1,450,000</td>
<td>9,990</td>
<td>84,000</td>
</tr>
<tr>
<td>Mixtures of rare-earth chlorides, except cerium chloride</td>
<td>do.</td>
<td>1,800,000</td>
<td>5,600</td>
<td>1,910,000</td>
</tr>
<tr>
<td>Mixtures of rare-earth oxides except cerium oxide</td>
<td>do.</td>
<td>1,040,000</td>
<td>4,510</td>
<td>1,710,000</td>
</tr>
<tr>
<td>Yttrium compounds content by weight greater than 19% but less than 85% oxide equivalent</td>
<td>do.</td>
<td>44,000</td>
<td>3,870</td>
<td>51,900</td>
</tr>
<tr>
<td><strong>Rhenium:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium perrhenate</td>
<td>do.</td>
<td>3,330</td>
<td>2,720</td>
<td>1,990</td>
</tr>
<tr>
<td>Metal</td>
<td>do.</td>
<td>14,300</td>
<td>14,700</td>
<td>13,200</td>
</tr>
<tr>
<td><strong>Selenium and tellurium:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Selenium, Se content:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Selenium dioxide</td>
<td>do.</td>
<td>12,200</td>
<td>129</td>
<td>14,500</td>
</tr>
<tr>
<td>Unwrought and waste and scrap</td>
<td>do.</td>
<td>410,000</td>
<td>3,310</td>
<td>353,000</td>
</tr>
<tr>
<td>Tellurium, unwrought waste and scrap, gross weight</td>
<td>do.</td>
<td>28,100</td>
<td>1,770</td>
<td>48,900</td>
</tr>
<tr>
<td><strong>Silicon, gross weight:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ferrosilicon</td>
<td>metric tons</td>
<td>207,000</td>
<td>120,000</td>
<td>270,000</td>
</tr>
<tr>
<td>Metal</td>
<td>do.</td>
<td>146,000</td>
<td>237,000</td>
<td>128,000</td>
</tr>
<tr>
<td><strong>Silver:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ash and residues, Ag content</td>
<td>kilograms</td>
<td>63,500</td>
<td>11,600</td>
<td>1,340</td>
</tr>
<tr>
<td>Bullion, Ag content</td>
<td>do.</td>
<td>4,020,000</td>
<td>593,000</td>
<td>4,000,000</td>
</tr>
<tr>
<td>Dore, Ag content</td>
<td>do.</td>
<td>16,600</td>
<td>4,430</td>
<td>233,000</td>
</tr>
<tr>
<td>Metal powder, gross weight</td>
<td>do.</td>
<td>12,100</td>
<td>2,540</td>
<td>20,800</td>
</tr>
<tr>
<td>Nitrate, gross weight</td>
<td>do.</td>
<td>572</td>
<td>103</td>
<td>661</td>
</tr>
<tr>
<td>Ores and concentrates, Ag content</td>
<td>do.</td>
<td>61,000</td>
<td>13,100</td>
<td>2,540</td>
</tr>
<tr>
<td>Semimanufactured forms containing 99.5% or more by weight of silver, gross weight</td>
<td>do.</td>
<td>70,800</td>
<td>10,400</td>
<td>17,000</td>
</tr>
<tr>
<td>Waste and scrap, gross weight</td>
<td>do.</td>
<td>816,000</td>
<td>117,000</td>
<td>886,000</td>
</tr>
<tr>
<td>Unwrought, other, gross weight</td>
<td>do.</td>
<td>263,000</td>
<td>38,700</td>
<td>281,000</td>
</tr>
<tr>
<td>Thallium, unwrought powders, waste and scrap, other</td>
<td>do.</td>
<td>307</td>
<td>76</td>
<td>81</td>
</tr>
<tr>
<td>Thorium and thorium-bearing materials, compounds</td>
<td>do.</td>
<td>650</td>
<td>22</td>
<td>4,140</td>
</tr>
<tr>
<td><strong>Tin, gross weight:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compounds</td>
<td>metric tons</td>
<td>449</td>
<td>3,230</td>
<td>443</td>
</tr>
<tr>
<td>Dross, skimmings, scrap, residues, alloys, n.s.p.f.</td>
<td>do.</td>
<td>2,280</td>
<td>7,170</td>
<td>3,290</td>
</tr>
<tr>
<td>Metal, unwrought</td>
<td>do.</td>
<td>42,200</td>
<td>167,000</td>
<td>37,000</td>
</tr>
<tr>
<td>Miscellaneous, includes tinfoil, tin powder, flitters, metallics, manufactures, n.s.p.f.</td>
<td>do.</td>
<td>NA</td>
<td>1,510</td>
<td>NA</td>
</tr>
<tr>
<td>Tinplate and terneplate</td>
<td>do.</td>
<td>254,000</td>
<td>143,000</td>
<td>282,000</td>
</tr>
<tr>
<td>Tinplate scrap</td>
<td>do.</td>
<td>12,800</td>
<td>1,820</td>
<td>20,100</td>
</tr>
<tr>
<td><strong>Titanium:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concentrate</td>
<td>metric tons</td>
<td>395,000</td>
<td>41,300</td>
<td>395,000</td>
</tr>
<tr>
<td>Rutile, natural and synthetic</td>
<td>do.</td>
<td>390,000</td>
<td>149,000</td>
<td>427,000</td>
</tr>
<tr>
<td>Ferrotitanium and ferrosilicon titanium</td>
<td>do.</td>
<td>3,700</td>
<td>9,960</td>
<td>3,160</td>
</tr>
<tr>
<td><strong>Metal:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ingots and billets</td>
<td>do.</td>
<td>1,210</td>
<td>17,800</td>
<td>759</td>
</tr>
<tr>
<td>Other, includes blooms, sheet, bars, slabs, other unwrought</td>
<td>do.</td>
<td>392</td>
<td>1,560</td>
<td>687</td>
</tr>
<tr>
<td>Powder</td>
<td>do.</td>
<td>75</td>
<td>1,120</td>
<td>129</td>
</tr>
<tr>
<td>Sponge</td>
<td>do.</td>
<td>10,700</td>
<td>72,200</td>
<td>9,590</td>
</tr>
<tr>
<td>Waste and scrap</td>
<td>do.</td>
<td>6,270</td>
<td>17,800</td>
<td>5,550</td>
</tr>
</tbody>
</table>

See footnotes at end of table.
### TABLE 8--Continued

U.S. IMPORTS FOR CONSUMPTION OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS

(Thousand metric tons and thousand dollars unless otherwise specified)

<table>
<thead>
<tr>
<th>Mineral or product</th>
<th>2002</th>
<th>2003</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Quantity</td>
<td>Value</td>
</tr>
<tr>
<td><strong>Metals--Continued:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Titanium--Continued:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wrought products and castings, includes bar, castings, foil, pipe, plate, profile, rod, sheet, strip, tube, wire, other</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pigment, dioxide and oxide do.</td>
<td>2,680</td>
<td>62,500</td>
</tr>
<tr>
<td>Titaniiferous iron ore do.</td>
<td>231,000</td>
<td>376,000</td>
</tr>
<tr>
<td>Titaniiferous slag do.</td>
<td>36,600</td>
<td>3,330</td>
</tr>
<tr>
<td><strong>Tungsten, W content:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium paratungstate do.</td>
<td>445,000</td>
<td>194,000</td>
</tr>
<tr>
<td><strong>Vanadium:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum-vanadium master alloy, gross weight</td>
<td>97,500</td>
<td>206</td>
</tr>
<tr>
<td>Ferrovanadium, V content do.</td>
<td>2,520,000</td>
<td>19,400</td>
</tr>
<tr>
<td>Metal, including waste and scrap, gross weight do.</td>
<td>32,300</td>
<td>4,810</td>
</tr>
<tr>
<td>Miscellaneous chemicals, sulfates and vanadates, V content do.</td>
<td>874,000</td>
<td>716,000</td>
</tr>
<tr>
<td><strong>Zinc:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compounds, lithopone, chloride, compounds n.s.p.f., hydrosulfite, oxide, sulfate oxide, sulfate</td>
<td>91,600</td>
<td>69,800</td>
</tr>
<tr>
<td>Ores and concentrates, Zn content do.</td>
<td>122,000</td>
<td>44,600</td>
</tr>
<tr>
<td>Rolled do.</td>
<td>1,640</td>
<td>4,810</td>
</tr>
<tr>
<td>Slab, refined do.</td>
<td>874,000</td>
<td>716,000</td>
</tr>
<tr>
<td><strong>Zirconium and hafnium:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hafnium, unwrought, including powders do.</td>
<td>5</td>
<td>668</td>
</tr>
<tr>
<td><strong>Zirconium:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ferrozirconium do.</td>
<td>167</td>
<td>295</td>
</tr>
<tr>
<td>Ores and concentrates do.</td>
<td>35,300</td>
<td>14,000</td>
</tr>
<tr>
<td>Oxide, includes germanium oxides and zirconium oxides do.</td>
<td>2,900</td>
<td>31,700</td>
</tr>
<tr>
<td>Unwrought powder do.</td>
<td>48</td>
<td>1,850</td>
</tr>
<tr>
<td>Waste and scrap do.</td>
<td>508</td>
<td>37,100</td>
</tr>
<tr>
<td>Total</td>
<td>179,000</td>
<td>67,700</td>
</tr>
<tr>
<td><strong>Industrial minerals:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abrasives, manufactured:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum oxide, crude, ground and refined metric tons</td>
<td>179,000</td>
<td>67,700</td>
</tr>
<tr>
<td>Metallic abrasives do.</td>
<td>12,400</td>
<td>8,120</td>
</tr>
<tr>
<td>Silicon carbide, crude, ground and refined do.</td>
<td>165,000</td>
<td>79,700</td>
</tr>
<tr>
<td>Asbestos:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chrysotile and other unspecified type do.</td>
<td>6,850</td>
<td>1,770</td>
</tr>
<tr>
<td>Products with basis of asbestos, cellulose, or other minerals NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Barite:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemicals; chloride, oxide, hydroxide, peroxide, nitrate, precipitated carbonate metric tons</td>
<td>30,800</td>
<td>17,000</td>
</tr>
<tr>
<td>Crude do.</td>
<td>1,510,000</td>
<td>63,100</td>
</tr>
<tr>
<td>Ground do.</td>
<td>5,170</td>
<td>594</td>
</tr>
<tr>
<td>Other sulfates do.</td>
<td>31,200</td>
<td>17,700</td>
</tr>
<tr>
<td>Boron minerals and compounds:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Borax (2)</td>
<td>49</td>
<td>18,500</td>
</tr>
<tr>
<td>Coke</td>
<td>32</td>
<td>9,960</td>
</tr>
<tr>
<td>Ulexite</td>
<td>125</td>
<td>25,000</td>
</tr>
<tr>
<td><strong>Bromine:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compounds, contained bromine metric tons</td>
<td>4,700</td>
<td>22,500</td>
</tr>
<tr>
<td>Elemental do.</td>
<td>2,020</td>
<td>1,530</td>
</tr>
</tbody>
</table>

See footnotes at end of table.
<table>
<thead>
<tr>
<th>Mineral or product</th>
<th>2002</th>
<th></th>
<th>2003</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Industrial minerals—Continued:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cement, hydraulic and clinker</td>
<td>24,200</td>
<td>939,000</td>
<td>23,200</td>
<td>913,000</td>
</tr>
<tr>
<td>Clays:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Artificially activated clay and activated earth metric tons</td>
<td>26,800</td>
<td>11,300</td>
<td>21,000</td>
<td>9,430</td>
</tr>
<tr>
<td>Bentonite do.</td>
<td>29,100</td>
<td>3,350</td>
<td>12,700</td>
<td>3,010</td>
</tr>
<tr>
<td>Chamotte or dina's earth do.</td>
<td>--</td>
<td>--</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>China clay or kaolin do.</td>
<td>158,000</td>
<td>22,400</td>
<td>224,000</td>
<td>34,700</td>
</tr>
<tr>
<td>Common blue clay and other ball clay do.</td>
<td>407</td>
<td>142</td>
<td>13,300</td>
<td>1,220</td>
</tr>
<tr>
<td>Decolorizing earths and fuller's earth do.</td>
<td>205</td>
<td>48</td>
<td>2,590</td>
<td>28</td>
</tr>
<tr>
<td>Fire clay do.</td>
<td>218</td>
<td>116</td>
<td>482</td>
<td>245</td>
</tr>
<tr>
<td>Other clay do.</td>
<td>3,070</td>
<td>2,130</td>
<td>5,060</td>
<td>2,580</td>
</tr>
<tr>
<td><strong>Diamond, industrial:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diamond stones, natural and miners' thousand carats</td>
<td>2,050</td>
<td>12,500</td>
<td>1,820</td>
<td>5,640</td>
</tr>
<tr>
<td>Powder, dust and grit, natural and synthetic do.</td>
<td>185,000</td>
<td>61,900</td>
<td>250,000</td>
<td>64,600</td>
</tr>
<tr>
<td>Diatomite metric tons</td>
<td>528</td>
<td>456</td>
<td>1,710</td>
<td>675</td>
</tr>
<tr>
<td><strong>Diatomite</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feldspar and nepheline syenite:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feldspar do.</td>
<td>5,450</td>
<td>775</td>
<td>7,980</td>
<td>1,010</td>
</tr>
<tr>
<td>Nepheline syenite do.</td>
<td>333,000</td>
<td>26,100</td>
<td>307,000</td>
<td>28,200</td>
</tr>
<tr>
<td><strong>Fluorspar:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum fluoride do.</td>
<td>17,000</td>
<td>13,000</td>
<td>10,100</td>
<td>7,640</td>
</tr>
<tr>
<td>Cryolite do.</td>
<td>7,950</td>
<td>5,810</td>
<td>8,120</td>
<td>6,120</td>
</tr>
<tr>
<td>Fluorspar do.</td>
<td>494,000</td>
<td>62,000</td>
<td>567,000</td>
<td>76,300</td>
</tr>
<tr>
<td>Hydrofluoric acid, HF do.</td>
<td>115,000</td>
<td>119,000</td>
<td>111,000</td>
<td>115,000</td>
</tr>
<tr>
<td>Garnet, industrial do.</td>
<td>23</td>
<td>2,770</td>
<td>31</td>
<td>3,190</td>
</tr>
<tr>
<td>Gemstones</td>
<td>XX</td>
<td>12,900,000</td>
<td>XX</td>
<td>13,600,000</td>
</tr>
<tr>
<td><strong>Graphite:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural metric tons</td>
<td>45,100</td>
<td>22,300</td>
<td>52,300</td>
<td>24,400</td>
</tr>
<tr>
<td>Electric furnace electrodes do.</td>
<td>67,300</td>
<td>114,000</td>
<td>85,300</td>
<td>139,000</td>
</tr>
<tr>
<td><strong>Gypsum:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boards</td>
<td>471</td>
<td>55,800</td>
<td>484</td>
<td>59,600</td>
</tr>
<tr>
<td>Crude</td>
<td>7,970</td>
<td>69,000</td>
<td>8,300</td>
<td>75,500</td>
</tr>
<tr>
<td>Plasters</td>
<td>11</td>
<td>4,740</td>
<td>6</td>
<td>3,040</td>
</tr>
<tr>
<td>Other</td>
<td>XX</td>
<td>66,200</td>
<td>XX</td>
<td>45,800</td>
</tr>
<tr>
<td><strong>Iodine:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crude metric tons</td>
<td>6,190</td>
<td>77,700</td>
<td>5,750</td>
<td>68,300</td>
</tr>
<tr>
<td>Potassium iodide do.</td>
<td>633</td>
<td>7,930</td>
<td>862</td>
<td>9,760</td>
</tr>
<tr>
<td><strong>Iron oxide pigments:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural do.</td>
<td>6,020</td>
<td>2,680</td>
<td>4,000</td>
<td>2,150</td>
</tr>
<tr>
<td>Synthetic do.</td>
<td>126,000</td>
<td>93,600</td>
<td>136,000</td>
<td>94,500</td>
</tr>
<tr>
<td>Kyanite, andalusite, sillimanite do.</td>
<td>4,620</td>
<td>952</td>
<td>4,480</td>
<td>1,090</td>
</tr>
<tr>
<td>Lime</td>
<td>157</td>
<td>19,700</td>
<td>202</td>
<td>22,500</td>
</tr>
<tr>
<td><strong>Lithium chemicals:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbonate metric tons</td>
<td>9,830</td>
<td>15,600</td>
<td>11,600</td>
<td>18,000</td>
</tr>
<tr>
<td>Hydroxide do.</td>
<td>432</td>
<td>1,290</td>
<td>111</td>
<td>601</td>
</tr>
<tr>
<td><strong>Magnesium compounds:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compounds, chlorides, hydroxide, peroxide, sulfates do.</td>
<td>68,300</td>
<td>17,600</td>
<td>112,000</td>
<td>35,700</td>
</tr>
<tr>
<td>Magnesite, crude and processed:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Caustic-calcined magnesia do.</td>
<td>148,000</td>
<td>24,400</td>
<td>150,000</td>
<td>22,600</td>
</tr>
<tr>
<td>Crude do.</td>
<td>11,600</td>
<td>1,740</td>
<td>14,300</td>
<td>1,740</td>
</tr>
<tr>
<td>Dead-burned and fused magnesia do.</td>
<td>394,000</td>
<td>70,100</td>
<td>379,000</td>
<td>78,500</td>
</tr>
<tr>
<td>Other magnesia do.</td>
<td>17,600</td>
<td>13,600</td>
<td>21,000</td>
<td>10,300</td>
</tr>
<tr>
<td><strong>Mica:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scrap and flake:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Powder metric tons</td>
<td>20,800</td>
<td>9,310</td>
<td>20,600</td>
<td>10,600</td>
</tr>
<tr>
<td>Waste do.</td>
<td>14,100</td>
<td>2,860</td>
<td>14,300</td>
<td>3,390</td>
</tr>
<tr>
<td><strong>Sheet:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unworked, excludes unworked sheet mica valued at less than $1 per kilogram do.</td>
<td>670</td>
<td>439</td>
<td>134</td>
<td>350</td>
</tr>
<tr>
<td>Worked do.</td>
<td>913</td>
<td>9,750</td>
<td>1,000</td>
<td>11,100</td>
</tr>
<tr>
<td><strong>Nitrogen, major compounds, gross weight</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peat moss metric tons</td>
<td>763,000</td>
<td>149,000</td>
<td>767,000</td>
<td>148,000</td>
</tr>
</tbody>
</table>

See footnotes at end of table.
TABLE 8--Continued
U.S. IMPORTS FOR CONSUMPTION OF PRINCIPAL MINERALS AND PRODUCTS, EXCLUDING MINERAL FUELS¹

(Thousand metric tons and thousand dollars unless otherwise specified)

<table>
<thead>
<tr>
<th>Mineral or product</th>
<th>2002 Quantity</th>
<th>2002 Value</th>
<th>2003 Quantity</th>
<th>2003 Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perlite, processed crude do.</td>
<td>224,000</td>
<td>8,160</td>
<td>245,000</td>
<td>9,310</td>
</tr>
<tr>
<td>Phosphate rock and phosphatic materials</td>
<td>2,950</td>
<td>218,000</td>
<td>2,680</td>
<td>176,000</td>
</tr>
<tr>
<td>Potash, chloride, sulfate, nitrate, sodium nitrate mixtures metric tons</td>
<td>7,630,000</td>
<td>615,000</td>
<td>7,810,000</td>
<td>646,000</td>
</tr>
<tr>
<td>Pumice:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crude or unmanufactured</td>
<td>359</td>
<td>22,800</td>
<td>366</td>
<td>32,800</td>
</tr>
<tr>
<td>Wholly or partially manufactured</td>
<td>1</td>
<td>3,200</td>
<td>1</td>
<td>3,460</td>
</tr>
<tr>
<td>Salt</td>
<td>8,160</td>
<td>129,000</td>
<td>12,900</td>
<td>196,000</td>
</tr>
<tr>
<td>Sand and gravel:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction</td>
<td>4,310</td>
<td>53,900</td>
<td>4,410</td>
<td>57,700</td>
</tr>
<tr>
<td>Industrial</td>
<td>250</td>
<td>8,650</td>
<td>440</td>
<td>9,210</td>
</tr>
<tr>
<td>Silica, special stone products</td>
<td>NA</td>
<td>4,500</td>
<td>NA</td>
<td>6,300</td>
</tr>
<tr>
<td>Soda ash</td>
<td>9</td>
<td>2,000</td>
<td>5</td>
<td>1,510</td>
</tr>
<tr>
<td>Stone:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crushed, chips, calcium carbonate fines, excludes precipitated carbonates</td>
<td>14,300</td>
<td>124,000</td>
<td>15,300</td>
<td>143,000</td>
</tr>
<tr>
<td>Dimension</td>
<td>NA</td>
<td>1,190,000</td>
<td>NA</td>
<td>1,390,000</td>
</tr>
<tr>
<td>Strontium:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbonate metric tons</td>
<td>42,000</td>
<td>23,200</td>
<td>38,200</td>
<td>18,200</td>
</tr>
<tr>
<td>Celestite do.</td>
<td>2,580</td>
<td>155</td>
<td>2,320</td>
<td>135</td>
</tr>
<tr>
<td>Metal do.</td>
<td>156</td>
<td>615</td>
<td>283</td>
<td>1,090</td>
</tr>
<tr>
<td>Nitrate do.</td>
<td>771</td>
<td>2,050</td>
<td>705</td>
<td>2,080</td>
</tr>
<tr>
<td>Oxide, hydroxide, peroxide do.</td>
<td>73</td>
<td>74</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Sulfur:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elemental</td>
<td>2,560</td>
<td>26,800</td>
<td>2,870</td>
<td>70,600</td>
</tr>
<tr>
<td>Sulfuric acid, 100% H₂SO₄ metric tons</td>
<td>1,060,000</td>
<td>46,400</td>
<td>908,000</td>
<td>39,200</td>
</tr>
<tr>
<td>Talc</td>
<td>232</td>
<td>52,700</td>
<td>237</td>
<td>53,500</td>
</tr>
<tr>
<td>Vermiculitee</td>
<td>56</td>
<td>10,400</td>
<td>37</td>
<td>6,200</td>
</tr>
<tr>
<td>Wollastonitee</td>
<td>2,750</td>
<td>413</td>
<td>3,500</td>
<td>525</td>
</tr>
<tr>
<td>Total</td>
<td>XX</td>
<td>19,700,000</td>
<td>XX</td>
<td>22,600,000</td>
</tr>
<tr>
<td>Grand total</td>
<td>XX</td>
<td>63,700,000</td>
<td>XX</td>
<td>67,700,000</td>
</tr>
</tbody>
</table>

¹Estimated. ¹Revised. NA Not available. XX Not applicable. -- Zero.
²Data are rounded to no more than three significant digits; may not add to totals shown.
³Less than 1/2 unit.
**TABLE 9**

**WORLD AND U.S. PRODUCTION OF SELECTED NONFUEL MINERAL COMMODITIES**

(Thousand metric tons unless otherwise specified)

<table>
<thead>
<tr>
<th>Mineral or product</th>
<th>United States</th>
<th>Percentage of world</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1999</td>
<td>2000</td>
</tr>
<tr>
<td><strong>Metals:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminum³</td>
<td>23,600</td>
<td>24,300</td>
</tr>
<tr>
<td>Antimony</td>
<td>107,000</td>
<td>126,000</td>
</tr>
<tr>
<td>Arsenic trioxide⁴</td>
<td>41,800</td>
<td>38,800</td>
</tr>
<tr>
<td>Bauxite⁴, 5</td>
<td>129,000</td>
<td>136,000</td>
</tr>
<tr>
<td>Beryl³</td>
<td>6,210</td>
<td>5,660</td>
</tr>
<tr>
<td>Bismuth, refinery</td>
<td>3,570</td>
<td>4,230</td>
</tr>
<tr>
<td>Cadmium</td>
<td>20,000</td>
<td>20,800</td>
</tr>
<tr>
<td>Chrome³</td>
<td>14,200</td>
<td>14,800</td>
</tr>
<tr>
<td>Cobalt, Co content:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mine metric tons</td>
<td>32,700</td>
<td>38,300</td>
</tr>
<tr>
<td>Refinery</td>
<td>33,100</td>
<td>35,000</td>
</tr>
<tr>
<td>Columbium (niobium)-tantalum concentrate</td>
<td>59,900</td>
<td>61,100</td>
</tr>
<tr>
<td>Copper:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mine</td>
<td>12,800</td>
<td>13,200</td>
</tr>
<tr>
<td>Refinery</td>
<td>14,600</td>
<td>14,900</td>
</tr>
<tr>
<td>Gold</td>
<td>2,570</td>
<td>2,590</td>
</tr>
<tr>
<td>Iron ore³</td>
<td>1,020</td>
<td>1,080</td>
</tr>
<tr>
<td>Iron and steel:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Direct-reduced iron²</td>
<td>38,200</td>
<td>42,400</td>
</tr>
<tr>
<td>Pig iron²</td>
<td>539,000</td>
<td>573,000</td>
</tr>
<tr>
<td>Raw steel</td>
<td>790,000</td>
<td>850,000</td>
</tr>
<tr>
<td>Lead:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mine</td>
<td>3,060</td>
<td>3,170</td>
</tr>
<tr>
<td>Refinery</td>
<td>6,280</td>
<td>6,600</td>
</tr>
<tr>
<td>Magnesium</td>
<td>341,000</td>
<td>428,000</td>
</tr>
<tr>
<td>Manganese ore³</td>
<td>17,800</td>
<td>19,600</td>
</tr>
<tr>
<td>Mercury²</td>
<td>1,320</td>
<td>1,360</td>
</tr>
<tr>
<td>Molybdenum, Mo content</td>
<td>129,000</td>
<td>134,000</td>
</tr>
<tr>
<td>Nickel, Ni content:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mine</td>
<td>1,170</td>
<td>1,290</td>
</tr>
<tr>
<td>Refinery</td>
<td>1,050</td>
<td>1,120</td>
</tr>
<tr>
<td>Platinum-group metals</td>
<td>366,000</td>
<td>364,000</td>
</tr>
<tr>
<td>Selenium²</td>
<td>1,410</td>
<td>1,460</td>
</tr>
<tr>
<td>Silver²</td>
<td>17,100</td>
<td>17,800</td>
</tr>
<tr>
<td>Tellurium²</td>
<td>116,000</td>
<td>111,000</td>
</tr>
<tr>
<td>Tin:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mine</td>
<td>246,000</td>
<td>277,000</td>
</tr>
<tr>
<td>Smelter²</td>
<td>267,000</td>
<td>288,000</td>
</tr>
<tr>
<td>Tungsten, W content</td>
<td>37,700</td>
<td>44,000</td>
</tr>
<tr>
<td>Zine:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mine</td>
<td>7,960</td>
<td>8,770</td>
</tr>
<tr>
<td>Smelter</td>
<td>8,550</td>
<td>9,090</td>
</tr>
<tr>
<td>Industrial minerals:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asbestos</td>
<td>1,940</td>
<td>2,110</td>
</tr>
<tr>
<td>Barite</td>
<td>16,160</td>
<td>6,490</td>
</tr>
<tr>
<td>Boron minerals</td>
<td>4,470</td>
<td>4,550</td>
</tr>
<tr>
<td>Bromine thousand kilograms</td>
<td>547,000</td>
<td>542,000</td>
</tr>
<tr>
<td>Celestite</td>
<td>358,000</td>
<td>346,000</td>
</tr>
<tr>
<td>Cement, hydraulic million metric tons</td>
<td>1,600</td>
<td>1,660</td>
</tr>
<tr>
<td>Clays:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bentonite</td>
<td>10,500</td>
<td>10,300</td>
</tr>
<tr>
<td>Fuller's earth</td>
<td>3,560</td>
<td>3,920</td>
</tr>
<tr>
<td>Kaolin</td>
<td>41,400</td>
<td>42,800</td>
</tr>
</tbody>
</table>

See footnotes at end of table.

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1. [Footnotes at end of table](#)
TABLE 9--Continued
WORLD AND U.S. PRODUCTION OF SELECTED NONFUEL MINERAL COMMODITIES\(^1\)

(Thousand metric tons unless otherwise specified)

<table>
<thead>
<tr>
<th>Mineral or product</th>
<th>1999</th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>United States Percentage of world</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>World total</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diamond, natural thousand carats</td>
<td>118,000 (^1)</td>
<td>117,000</td>
<td>121,000 (^1)</td>
<td>134,000 (^1)</td>
<td>150,000</td>
<td>--</td>
</tr>
<tr>
<td>Diatomite</td>
<td>2,010 (^4)</td>
<td>2,020 (^4)</td>
<td>2,010 (^4)</td>
<td>1,950 (^4)</td>
<td>1,950</td>
<td>620 (^7) 31.7</td>
</tr>
<tr>
<td>Feldspar</td>
<td>9,980</td>
<td>9,540 (^1)</td>
<td>10,400 (^1)</td>
<td>10,700 (^1)</td>
<td>10,800</td>
<td>800 (^7) 7.4</td>
</tr>
<tr>
<td>Fluorspar</td>
<td>4,300 (^1)</td>
<td>4,440 (^1)</td>
<td>4,580 (^1)</td>
<td>4,430 (^1)</td>
<td>4,740</td>
<td>--</td>
</tr>
<tr>
<td>Graphite, natural metric tons</td>
<td>682,000 (^1)</td>
<td>846,000 (^1)</td>
<td>803,000 (^1)</td>
<td>763,000 (^1)</td>
<td>742,000</td>
<td>--</td>
</tr>
<tr>
<td>Gypsum</td>
<td>109,000</td>
<td>107,000 (^1)</td>
<td>103,000 (^1)</td>
<td>102,000 (^1)</td>
<td>102,000</td>
<td>16,700</td>
</tr>
<tr>
<td>Iodine, crude thousand kilograms</td>
<td>18,400</td>
<td>19,500</td>
<td>20,700</td>
<td>21,000 (^1)</td>
<td>20,900</td>
<td>1,090 (^7) 5.2</td>
</tr>
<tr>
<td>Lime</td>
<td>116,000</td>
<td>118,000</td>
<td>119,000 (^1)</td>
<td>118,000 (^1)</td>
<td>120,000</td>
<td>19,200 (^7) (^5) 16.0</td>
</tr>
<tr>
<td>Magnesite, crude (^3)</td>
<td>9,800</td>
<td>12,700</td>
<td>11,100 (^1)</td>
<td>12,700 (^1)</td>
<td>11,900</td>
<td>W</td>
</tr>
<tr>
<td>Mica, including scrap and flake (^6)</td>
<td>278,000</td>
<td>329,000 (^1)</td>
<td>369,000 (^1)</td>
<td>270,000 (^1)</td>
<td>275,000</td>
<td>78,600 (^7) 28.6</td>
</tr>
<tr>
<td>Nitrogen, N content of ammonia</td>
<td>107,000</td>
<td>108,000</td>
<td>105,000</td>
<td>108,000 (^1)</td>
<td>109,000</td>
<td>8,770 (^7) 8.0</td>
</tr>
<tr>
<td>Peat</td>
<td>27,300 (^1)</td>
<td>27,000 (^1)</td>
<td>26,300 (^1)</td>
<td>26,400 (^1)</td>
<td>28,500</td>
<td>1,100 (^7) 3.9</td>
</tr>
<tr>
<td>Perlite</td>
<td>1,920 (^1)</td>
<td>1,790 (^1)</td>
<td>1,650 (^1)</td>
<td>1,660 (^1)</td>
<td>1,630</td>
<td>493 (^7) 30.3</td>
</tr>
<tr>
<td>Phosphate rock, gross weight</td>
<td>134,000</td>
<td>132,000</td>
<td>126,000</td>
<td>135,000</td>
<td>137,000</td>
<td>35,000 (^7) 25.6</td>
</tr>
<tr>
<td>Potash, K(_2)O equivalent</td>
<td>27,300 (^1)</td>
<td>27,000 (^1)</td>
<td>26,300 (^1)</td>
<td>26,400 (^1)</td>
<td>28,500</td>
<td>1,100 (^7) 3.9</td>
</tr>
<tr>
<td>Pumice</td>
<td>13,700 (^1)</td>
<td>13,700 (^1)</td>
<td>14,100 (^1)</td>
<td>14,400 (^1)</td>
<td>14,300</td>
<td>870 (^7) 6.1</td>
</tr>
<tr>
<td>Salt</td>
<td>207,000 (^1)</td>
<td>209,000 (^1)</td>
<td>214,000 (^1)</td>
<td>208,000 (^1)</td>
<td>210,000</td>
<td>43,700 (^7) 20.9</td>
</tr>
<tr>
<td>Sand and gravel, industrial, silica</td>
<td>111,000 (^1)</td>
<td>111,000 (^1)</td>
<td>111,000 (^1)</td>
<td>110,000 (^1)</td>
<td>110,000</td>
<td>27,500 (^7) 24.9</td>
</tr>
<tr>
<td>Soda ash, natural and manufactured</td>
<td>33,400 (^1)</td>
<td>34,400 (^1)</td>
<td>35,600 (^1)</td>
<td>37,000 (^1)</td>
<td>37,800</td>
<td>10,600 (^7) 28.1</td>
</tr>
<tr>
<td>Sulfur, all forms</td>
<td>58,500 (^1)</td>
<td>59,700 (^1)</td>
<td>60,400 (^1)</td>
<td>60,500 (^1)</td>
<td>61,800</td>
<td>9,600 (^7) 15.5</td>
</tr>
<tr>
<td>Talc and pyrophyllite (^12)</td>
<td>9,470</td>
<td>8,660 (^1)</td>
<td>8,960 (^1)</td>
<td>8,850 (^1)</td>
<td>8,920</td>
<td>869 (^7) 9.7</td>
</tr>
<tr>
<td>Titanium concentrates (^1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ilmenite and leucoxene</td>
<td>4,150</td>
<td>5,080 (^7)</td>
<td>5,220 (^7)</td>
<td>5,570 (^7)</td>
<td>5,910</td>
<td>500 (^7) 8.5</td>
</tr>
<tr>
<td>Rutile (^1)</td>
<td>348</td>
<td>387</td>
<td>377</td>
<td>409 (^7)</td>
<td>374 (^7)</td>
<td>(14)</td>
</tr>
<tr>
<td>Vermiculite metric tons</td>
<td>541,000</td>
<td>513,000</td>
<td>299,000 (^1)</td>
<td>377,000 (^1)</td>
<td>347,000</td>
<td>NA</td>
</tr>
</tbody>
</table>

---

\(^1\)Data are rounded to no more than three significant digits.
\(^2\)Primary.
\(^3\)Gross weight.
\(^4\)Individual country figures that are included in the world total represent dried bauxite equivalent of crude ore, but for some countries available data are insufficient to permit this adjustment.
\(^5\)Does not include U.S. production.
\(^6\)Includes tin content of alloys made directly from ore.
\(^7\)Quantity sold or used by producers.
\(^8\)Includes Puerto Rico.
\(^10\)Synthetic anhydrous ammonia; excludes coke oven byproduct ammonia.
\(^12\)Data for the United States exclude proprietary pyrophyllite production.
\(^13\)Includes rutile to avoid disclosing company proprietary data. Rounded to one significant digit.
\(^14\)Included with ilmenite to avoid disclosing company proprietary data; not included in "World."