

Mineral Industry Surveys

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SILICON IN MARCH 2007

Preliminary data for March 2007 indicate that domestic production of silicon ferroalloys, on a gross-weight basis, increased by 11% compared with that in February 2007, according to the U.S. Geological Survey. Net shipments were 3% higher compared with the revised amount [18,500 metric tons (t)] in February 2007. Ending stocks decreased by 2% compared with the revised amount (25,000 t) at the end of the prior month. Stocks included adjustments in inventory and inplant consumption of ferrosilicon to produce magnesium ferrosilicon and other miscellaneous alloys. Production-related statistics for silicon metal were concealed to avoid disclosing company proprietary data.

Domestic production and shipments of ferrosilicon during the first quarter of 2007 were 2% less and 5% greater, respectively, than those of the fourth quarter of 2006. They were 3% and 11% higher, respectively, compared with those during the first

quarter of 2006. All domestic data for ferrosilicon have been combined to avoid disclosing company proprietary data.

Based on a gross-weight comparison of February 2007 export data (table 2) with those of January 2007, ferrosilicon exports decreased by 28%, owing primarily to a decrease in the "More than 55% silicon" ferrosilicon trade category. Silicon metal exports increased by 7%, owing to an increase in the "More than 99.99% silicon" silicon metal trade category.

Based on a gross-weight comparison of February 2007 import data (table 3) with those of the prior month, ferrosilicon imports more than doubled, owing primarily to an increase in the "55%-80% silicon, other" ferrosilicon trade category. Silicon metal imports decreased by 7% during the same period, primarily because of a decrease in the "99.00% - 99.99% silicon" metal trade category.

Prices, cents per pound, silicon content

| | 50% Ferrosilicon ¹ | 75% Ferrosilicon ² | Silicon Metal ² |
|----------|-------------------------------|-------------------------------|----------------------------|
| March 1 | 67.00-68.00 | 60.00-61.00 | 92.00-96.00 |
| March 8 | 67.00-68.00 | 60.00-61.00 | 92.00-95.00 |
| March 15 | 67.00-68.00 | 60.00-61.00 | 92.00-95.00 |
| March 22 | 67.00-68.00 | 60.00-61.00 | 93.00-95.00 |
| March 29 | 67.00-68.00 | 59.00-61.00 | 93.00-95.00 |

¹Source: Ryan's Notes, North American transaction price.

²Source: Platts Metals Week, dealer import price.

 ${\it TABLE~1}\\ {\it U.S.~PRODUCTION,~SHIPMENTS,~AND~PRODUCER~STOCKS~OF~SILICON~ALLOYS~AND~METAL~IN~2007}^{1,2,3}$

(Metric tons)

| | Gross p | roduction ⁴ | Net sh | Stocks, | |
|--|---------|------------------------|--------|--------------|----------|
| Material | March | Year to date | March | Year to date | March 31 |
| Ferrosilicon, all grades ^{5, 6} | 23,000 | 64,800 | 19,100 | 55,200 | 24,500 |
| Silicon metal, excludes semiconductor grades | W | W | W | W | W |

W Withheld to avoid disclosing company proprietary data.

 ${\it TABLE~2}$ U.S. EXPORTS OF FERROSILICON AND SILICON METAL IN FEBRUARY 2007 $^{1,\,2}$

(Metric tons, unless otherwise specified)

| | | | | | Year to date | |
|------------------------|--------|-----------|-----------|--------|--------------|-----------|
| | Gross | Contained | | Gross | Contained | |
| Country | weight | weight | Value | weight | weight | Value |
| Ferrosilicon: | | | | | | |
| More than 55% silicon: | _ | | | | | |
| Canada | 266 | 159 | \$307,000 | 838 | 503 | \$889,000 |
| Colombia | 5 | 4 | 7,800 | 5 | 4 | 7,800 |
| Italy | 16 | 10 | 30,200 | 16 | 10 | 30,200 |
| Malaysia | 11 | 8 | 15,600 | 11 | 8 | 15,600 |
| Mexico | 137 | 82 | 152,000 | 253 | 152 | 308,000 |
| Spain | | | | 16 | 10 | 20,300 |
| Thailand | | | | 16 | 10 | 16,100 |
| Total | 436 | 264 | 513,000 | 1,160 | 697 | 1,290,000 |
| Other ferrosilicon: | _ | | | | | |
| Canada | 206 | 103 | 201,000 | 459 | 229 | 459,000 |
| Colombia | 14 | 6 | 19,500 | 14 | 6 | 19,500 |
| India | 3 | 1 | 4,810 | 3 | 1 | 4,810 |
| Indonesia | 16 | 8 | 23,800 | 16 | 8 | 23,800 |
| Italy | 16 | 9 | 30,200 | 16 | 9 | 30,200 |
| Mexico | 63 | 32 | 81,800 | 119 | 60 | 151,000 |
| Spain | | | | 16 | 8 | 23,800 |
| Total | 319 | 159 | 361,000 | 644 | 321 | 712,000 |
| Total ferrosilicon | 754 | 423 | 874,000 | 1,800 | 1,020 | 2,000,000 |

See footnotes at end of table.

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

²Includes U.S. Geological Survey estimates.

³Data for silvery pig iron (less than 25% silicon) withheld to avoid disclosing company proprietary data.

⁴Includes in-plant consumption, as in production of magnesium ferrosilicon and other miscellaneous alloys.

⁵Ferrosilicon categories were aggregated to avoid disclosing company proprietary data.

⁶Includes miscellaneous silicon alloys.

$\label{eq:table 2--Continued}$ U.S. EXPORTS OF FERROSILICON AND SILICON METAL IN FEBRUARY 2007 $^{1,\,2}$

(Metric tons, unless otherwise specified)

| | | | | Year to date | | | |
|---------------------------|--------|-----------|--------------|--------------|---------|--------------|--|
| | Gross | Contained | | Gross | | | |
| Country | weight | weight | Value | weight | weight | Value | |
| Metal: | | | | | | | |
| More than 99.99% silicon: | | | | | | | |
| China | 192 | XX | \$18,200,000 | 382 | XX | \$48,300,000 | |
| Germany | 184 | XX | 14,300,000 | 393 | XX | 29,600,000 | |
| Italy | 8 | XX | 859,000 | 16 | XX | 1,800,000 | |
| Japan | 711 | XX | 62,000,000 | 1,240 | XX | 117,000,000 | |
| Korea, Republic of | 95 | XX | 7,400,000 | 217 | XX | 17,500,000 | |
| Malaysia | 13 | XX | 2,300,000 | 25 | XX | 3,880,000 | |
| Norway | 354 | XX | 14,100,000 | 631 | XX | 25,300,000 | |
| Taiwan | 73 | XX | 8,570,000 | 97 | XX | 11,300,000 | |
| Ukraine | | XX | | 11 | XX | 739,000 | |
| United Kingdom | 9 | XX | 1,340,000 | 21 | XX | 2,940,000 | |
| Other (23 countries) | 15 | XX | 1,440,000 | 26 | XX | 2,530,000 | |
| Total | 1,650 | 1,650 e | 130,000,000 | 3,060 | 3,060 e | 261,000,000 | |
| 99.00% - 99.99% silicon: | • | | | | | | |
| Brazil | 80 | 80 | 211,000 | 146 | 145 | 381,000 | |
| China | 16 | 15 | 41,100 | 28 | 28 | 77,100 | |
| Costa Rica | | | | 1 | 1 | 3,840 | |
| Mexico | 1 | 1 | 2,630 | 1 | 1 | 2,630 | |
| Peru | | | | 3 | 3 | 4,500 | |
| Singapore | | | | 3 | 3 | 3,920 | |
| United Kingdom | 3 | 3 | 3,790 | 3 | 3 | 3,790 | |
| Venezuela | 3 | 3 | 3,300 | 3 | 3 | 3,300 | |
| Total | 102 | 101 | 262,000 | 187 | 185 | 481,000 | |
| Other silicon: | • | | | | | | |
| Canada | 22 | 21 | 24,000 | 25 | 25 | 30,100 | |
| China | 32 | 31 | 99,800 | 94 | 91 | 181,000 | |
| El Salvador | 10 | 10 | 13,200 | 10 | 10 | 13,200 | |
| Germany | | | | 6 | 6 | 8,090 | |
| Japan | 54 | 51 | 220,000 | 202 | 195 | 415,000 | |
| Mexico | (3) | (3) | 11,400 | 7 | 7 | 33,300 | |
| Netherlands | 26 | 26 | 116,000 | 65 | 63 | 308,000 | |
| Philippines | | | | 6 | 6 | 7,780 | |
| Russia | 7 | 7 | 9,200 | 7 | 7 | 9,200 | |
| United Kingdom | | | | 10 | 10 | 21,200 | |
| Other (2 countries) | 2 | 2 | 4,980 | 4 | 4 | 16,800 | |
| Total | 152 | 147 | 498,000 | 436 | 423 | 1,040,000 | |
| Total silicon metal | 1,910 | 1,900 | 131,000,000 | 3,680 | 3,670 | 262,000,000 | |

^eEstimated. XX Not applicable. -- Zero.

Source: U.S. Census Bureau.

¹Presentation of monthly data is based on the year-to-date quantities (gross weight) of the top 10 countries.

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

³Less than ½ unit.

TABLE 3 U.S. IMPORTS FOR CONSUMPTION OF FERROSILICON AND SILICON METAL IN FEBRUARY $2007^{1,\,2}$

(Metric tons, unless otherwise specified)

| | | | | Year to date | | |
|--------------------------------|-----------------|-----------|--------------|--------------|-----------|------------|
| | Gross | Contained | | Gross | Contained | |
| Country | weight | weight | Value | weight | weight | Value |
| Ferrosilicon: | | | | | | |
| 55% - 80% silicon, over 3% Ca: | | | | | | |
| Brazil | | | | 95 | 58 | \$124,000 |
| China | 40 | 23 | \$52,800 | 137 | 78 | 185,000 |
| France | 86 | 55 | 141,000 | 105 | 62 | 173,000 |
| Total | 126 | 79 | 193,000 | 337 | 199 | 481,000 |
| 55% - 80% silicon, Other: | | | | | | |
| Brazil | 106 | 83 | 97,500 | 126 | 98 | 116,000 |
| Canada | 917 | 689 | 1,120,000 | 2,150 | 1,620 | 2,550,000 |
| China | 22,100 | 14,700 | 17,400,000 | 26,900 | 18,400 | 22,100,000 |
| France | 161 | 118 | 286,000 | 300 | 218 | 505,000 |
| Germany | 34 | 25 | 180,000 | 68 | 51 | 346,000 |
| Iceland | 129 | 98 | 129,000 | 334 | 249 | 329,000 |
| Norway | 129 | 94 | 198,000 | 348 | 254 | 538,000 |
| Russia | 4,930 | 3,700 | 4,360,000 | 9,680 | 7,260 | 8,120,000 |
| Sri Lanka | | | | 19 | 14 | 34,400 |
| Venezuela | 5,000 | 3,750 | 4,060,000 | 9,880 | 7,410 | 7,870,000 |
| Total | 33,500 | 23,200 | 27,900,000 | 49,900 | 35,600 | 42,500,000 |
| 80% - 90% silicon, Germany | | 12 | 88,300 | 17 | 12 | 88,300 |
| Magnesium ferrosilicon: | | | | | | |
| Argentina | 148 | 66 | 266,000 | 228 | 111 | 372,000 |
| Brazil | 803 | 358 | 702,000 | 1,520 | 693 | 1,330,000 |
| Canada | 1,070 | 501 | 1,030,000 | 1,870 | 872 | 1,850,000 |
| China | | | | 19 | 14 | 18,500 |
| France | | 6 | 17,700 | 11 | 6 | 17,700 |
| Japan | 64 | 21 | 137,000 | 79 | 27 | 173,000 |
| Netherlands | | | | 54 | 25 | 52,700 |
| Norway | 109 | 50 | 106,000 | 187 | 86 | 181,000 |
| Russia | | | · | 1,400 | 630 | 672,000 |
| Total | 2,210 | 1,000 | 2,250,000 | 5,370 | 2,460 | 4,670,000 |
| Other ferrosilicon: | | • | | | | |
| Canada | 733 | 164 | 639,000 | 1,440 | 339 | 1,300,000 |
| China | 12,200 | 1,540 | 3,320,000 | 12,200 | 1,540 | 3,320,000 |
| France | | 8 | 17,200 | 18 | 8 | 17,200 |
| Russia | 62 | 31 | 47,500 | 109 | 55 | 83,500 |
| Total | 13,000 | 1,740 | 4,020,000 | 13,700 | 1,940 | 4,720,000 |
| Total ferrosilicon | 48,800 | 26,100 | 34,400,000 | 69,300 | 40,200 | 52,500,000 |
| C C | .0,500 | 20,100 | - 1, 100,000 | 07,000 | .0,200 | 32,200,000 |

See footnotes at end of table.

TABLE 3--Continued U.S. IMPORTS FOR CONSUMPTION OF FERROSILICON AND SILICON METAL IN FEBRUARY 2007 $^{\!1,2}$

(Metric tons, unless otherwise specified)

| China 1 XX \$283,000 2 XX 678,6 Germany 71 XX 6,720,000 154 XX 15,900,0 Italy 24 XX 2,050,000 53 XX 4,340,0 Japan 35 XX 3,820,000 65 XX 7,290,0 Korea, Republic of 7 XX 1,580,000 13 XX 3,150,0 Spain 1 XX 69,500 2 XX 75,8 Switzerland XX 2 XX 254,6 Taiwan 6 XX 513,000 12 XX 845,6 Turkey XX 13 XX 28,5 Other (3 countries) (3) XX 18,600 (3) XX 28,5 Other (3 countries) (3) XX 18,600 (3) XX 28,5 Other (3 countries) (3) XX 18,600 (3) <t< th=""><th></th><th></th><th colspan="3"></th><th colspan="4">Year to date</th></t<> | | | | | | Year to date | | | |
|--|---------------------------|--------|-----------|------------|--------|--------------|------------|--|--|
| More than 99.99% silicon: Stritish Virgin Islands XX 1 XX \$10,0 China 1 XX \$283,000 2 XX 678,6 Germany 71 XX 6,720,000 154 XX 15,900,0 Italy 24 XX 2,050,000 53 XX 4,340,0 Japan 35 XX 3,820,000 65 XX 7,290,0 Korea, Republic of 7 XX 1,580,000 13 XX 3,150,0 Spain 1 XX 69,500 2 XX 75,8 Switzerland XX 1,300 12 XX 254,6 Turkey XX 13,000 12 XX 845,6 Turkey XX 18,600 3 XX 28,5 Other (3 countries) (3) XX 18,600 (3) XX 28,5 Other (3 countries) (3) < | | Gross | Contained | | Gross | Contained | | | |
| More than 99.99% silicon: British Virgin Islands | Country | weight | weight | Value | weight | weight | Value | | |
| British Virgin Islands XX 1 XX \$10,0 China 1 XX \$283,000 2 XX 678,8 Germany 71 XX \$6720,000 154 XX 15,900,6 Italy 24 XX \$2,050,000 53 XX 4,340,0 Japan 35 XX 3,820,000 65 XX 7,290,6 Korea, Republic of 7 XX 1,580,000 13 XX 3,150,0 Spain 1 XX 69,500 2 XX 75,8 Switzerland XX 2 XX 254,4 Taiwan 6 XX 513,000 12 XX 845,6 Turkey XX 13 XX 28,5 Other (3 countries) (3) XX 18,600 (3) XX 28,1 Total 145 145 15,100,000 317 | Metal: | | | | | | | | |
| China 1 XX \$283,000 2 XX 678,6 Germany 71 XX 6,720,000 154 XX 15,900,0 Italy 24 XX 2,050,000 53 XX 4,340,0 Japan 35 XX 3,820,000 65 XX 7,290,0 Korea, Republic of 7 XX 1,580,000 13 XX 3,150,6 Spain 1 XX 69,500 2 XX 75,8 Switzerland XX 2 XX 254,6 Taiwan 6 XX 513,000 12 XX 845,6 Turkey XX 513,000 12 XX 845,2 Total 145 145 15,100,000 317 317 32,600,0 99.00% - 99.99% silicon: 8 884 1,420,000 2,030 2,020 3,420,6 Brazil 2,740 2,720 4,350,000 | More than 99.99% silicon: | | | | | | | | |
| Germany 71 XX 6,720,000 154 XX 15,900,0 Italy 24 XX 2,050,000 53 XX 4,340,0 Japan 35 XX 3,820,000 65 XX 7,290,0 Korea, Republic of 7 XX 1,580,000 13 XX 3,150,6 Spain 1 XX 6,500 2 XX 75,5 Switzerland XX 2 XX 254,6 Taiwan 6 XX 513,000 12 XX 845,6 Turkey XX 13 XX 28,5 Other (3 countries) (3) XX 18,600 (3) XX 62,1 Total 145 145 ° 15,100,000 317 317 ° 32,600,0 99,00% -99,99% silicon: 312 314 ° 0,000 30 2,020 3,420,0 9,000 9,000 2,030 2,020 3,420,0 9,000 1,000 317 | British Virgin Islands | | XX | | 1 | XX | \$10,000 | | |
| Italy | China | 1 | XX | \$283,000 | 2 | XX | 678,000 | | |
| Japan 35 | Germany | 71 | XX | 6,720,000 | 154 | XX | 15,900,000 | | |
| Korea, Republic of 7 XX 1,580,000 13 XX 3,150,0 Spain 1 XX 69,500 2 XX 75,8 Switzerland XX 2 XX 254,4 Taiwan 6 XX 513,000 12 XX 845,6 Turkey XX 13,600 (3) XX 28,5 Other (3 countries) (3) XX 18,600 (3) XX 28,5 Total 145 145 ° 15,100,000 317 317 ° 32,600,0 312 317 ° 32,600,0 99.00% - 99.99% silicon: XX 18,600 (3) XX 28,500,0 Australia 852 848 1,420,000 2,030 2,020 3,420,0 Brazil 2,740 2,720 4,350,000 7,190 7,140 11,400,0 Netherlands 312 310 567,000 312 310 567,000 Norway 912 <t< td=""><td>Italy</td><td>24</td><td>XX</td><td>2,050,000</td><td>53</td><td>XX</td><td>4,340,000</td></t<> | Italy | 24 | XX | 2,050,000 | 53 | XX | 4,340,000 | | |
| Spain 1 XX 69,500 2 XX 75,8 Switzerland XX 2 XX 254,6 Taiwan 6 XX 513,000 12 XX 845,6 Turkey XX 13 XX 28,5 Other (3 countries) (3) XX 18,600 (3) XX 22,1 Total 145 145 ° 15,100,000 317 317 ° 32,600,0 317 317 ° 32,600,0 317 317 ° 32,600,0 317 317 ° 32,600,0 317 317 ° 32,600,0 317 317 ° 32,600,0 317 317 ° 32,600,0 317 317 ° 32,600,0 317 317 ° 32,600,0 317 317 ° 32,600,0 317 317 ° 32,600,0 317 317 ° 32,600,0 317 317 ° 32,600,0 317 317 ° 32,600,0 317 317 ° 32,600,0 312 310 567,00 312 310 567,00 312 310 567,00 312 310 567,00 312 310 567,0 <td>Japan</td> <td>35</td> <td>XX</td> <td>3,820,000</td> <td>65</td> <td>XX</td> <td>7,290,000</td> | Japan | 35 | XX | 3,820,000 | 65 | XX | 7,290,000 | | |
| Switzerland XX 2 XX 254,6 Taiwan 6 XX 513,000 12 XX 845,6 Turkey XX 13 XX 28,5 Other (3 countries) (3) XX 18,600 (3) XX 62,1 Total 145 145 ° 15,100,000 317 317 ° 32,600,6 29,000,6 29,999 % silicon: Australia 852 848 1,420,000 2,030 2,020 3,420,6 Brazil 2,740 2,720 4,350,000 7,190 7,140 11,400,0 Canada 1,400 1,390 2,480,000 3,440 3,420 5,990,6 Netherlands 312 310 567,000 312 310 567,0 Norway 912 884 2,200,000 1,230 1,200 2,770,0 Philippines 16 16 24,600 239 204 367,0 South Africa 2,850 | Korea, Republic of | 7 | XX | 1,580,000 | 13 | XX | 3,150,000 | | |
| Taiwan 6 XX 513,000 12 XX 845,0 Turkey XX 13 XX 28,5 Other (3 countries) (3) XX 18,600 (3) XX 62,1 Total 145 145 ° 15,100,000 317 317 ° 32,600,0 99,000,000 99,999 % silicon: 312 3145 ° 15,100,000 2,030 2,020 3,420,0 3,420,0 3,420,0 2,030 2,020 3,420,0 3,420,0 2,030 2,020 3,420,0 3,420,0 3,440 3,420,5990,0 3,440 3,420 5,990,0 5,990,0 5,990,0 5,990,0 5,990,0 5,990,0 5,990,0 3,440 3,420 5,990,0 5,990,0 5,990,0 3,440 3,420 5,990,0 5,990,0 3,440 3,420 5,990,0 5,990,0 3,440 3,420 5,990,0 3,440 3,420 5,990,0 3,20,0 3,20,0 3,20,0 3,20,0 3,20,0 3,20,0 3,20,0 3,20,0 3,20,0 | Spain | 1 | XX | 69,500 | 2 | XX | 75,800 | | |
| Turkey XX 13 XX 28,5 Other (3 countries) (3) XX 18,600 (3) XX 62,1 Total 145 145 ° 15,100,000 317 317 ° 32,600,0 99.00% - 99.99% silicon: 852 848 1,420,000 2,030 2,020 3,420,0 Brazil 2,740 2,720 4,350,000 7,190 7,140 11,400,0 Canada 1,400 1,390 2,480,000 3,440 3,420 5,990, Netherlands 312 310 567,000 312 310 567,0 Norway 912 884 2,200,000 1,230 1,200 2,770, Philippines 16 16 24,600 239 204 367, South Africa 2,850 2,830 4,320,000 4,590 4,520 6,800, Total 9,080 9,080 15,300,000 19,000 18,800 31,400, Other silicon: <t< td=""><td>Switzerland</td><td></td><td>XX</td><td></td><td>2</td><td>XX</td><td>254,000</td></t<> | Switzerland | | XX | | 2 | XX | 254,000 | | |
| Other (3 countries) (3) XX 18,600 (3) XX 62,1 Total 145 145 ° 15,100,000 317 317 ° 32,600,0 99.00% - 99.99% silicon: 852 848 1,420,000 2,030 2,020 3,420,0 Brazil 2,740 2,720 4,350,000 7,190 7,140 11,400,0 Canada 1,400 1,390 2,480,000 3,440 3,420 5,990,0 Netherlands 312 310 567,000 312 310 567,0 Norway 912 884 2,200,000 1,230 1,200 2,770,0 Philippines 16 16 24,600 239 204 367,0 South Africa 2,850 2,830 4,320,000 4,590 4,520 6,860,0 Total 9,080 9,000 15,300,000 19,000 18,800 31,400,0 Other silicon: 8 893 1,710,000 1,270 1,250 2,250,0 C | Taiwan | 6 | XX | 513,000 | 12 | XX | 845,000 | | |
| Total 145 145 ° 15,100,000 317 317 ° 32,600,0 99.00% - 99.99% silicon: 852 848 1,420,000 2,030 2,020 3,420,0 Brazil 2,740 2,720 4,350,000 7,190 7,140 11,400,0 Canada 1,400 1,390 2,480,000 3,440 3,420 5,990,0 Netherlands 312 310 567,000 312 310 567,0 Norway 912 884 2,200,000 1,230 1,200 2,770,0 Philippines 16 16 24,600 239 204 367,0 South Africa 2,850 2,830 4,320,000 4,590 4,520 6,860,0 Total 9,080 9,000 15,300,000 19,000 18,800 31,400,0 Other silicon: 0 893 1,710,000 1,270 1,250 2,250,0 Canada 252 234 444,000 1,000 970 1,620,0 China< | Turkey | | XX | | 13 | XX | 28,900 | | |
| 99.00% - 99.99% silicon: Australia 852 848 1,420,000 2,030 2,020 3,420,0 Brazil 2,740 2,720 4,350,000 7,190 7,140 11,400,0 Canada 1,400 1,390 2,480,000 3,440 3,420 5,990,0 Netherlands 312 310 567,000 312 310 567,0 Norway 912 884 2,200,000 1,230 1,200 2,770,0 Philippines 16 16 24,600 239 204 367,0 South Africa 2,850 2,830 4,320,000 4,590 4,520 6,860,0 Total 9,080 9,000 15,300,000 19,000 18,800 31,400,0 Other silicon: 906 893 1,710,000 1,270 1,250 2,250,0 Canada 252 234 444,000 1,000 970 1,620,0 China 5 5 17,600 10 | Other (3 countries) | (3) | XX | 18,600 | (3) | XX | 62,100 | | |
| Australia 852 848 1,420,000 2,030 2,020 3,420,0 Brazil 2,740 2,720 4,350,000 7,190 7,140 11,400,0 Canada 1,400 1,390 2,480,000 3,440 3,420 5,990,0 Netherlands 312 310 567,000 312 310 567,0 Norway 912 884 2,200,000 1,230 1,200 2,770,0 Philippines 16 16 24,600 239 204 367,0 South Africa 2,850 2,830 4,320,000 4,590 4,520 6,860,0 Total 9,080 9,000 15,300,000 19,000 18,800 31,400,0 Other silicon: 906 893 1,710,000 1,270 1,250 2,250,0 Canada 252 234 444,000 1,000 970 1,620,0 China 5 5 17,600 10 10 35,1 Jap | Total | 145 | 145 e | 15,100,000 | 317 | 317 e | 32,600,000 | | |
| Brazil 2,740 2,720 4,350,000 7,190 7,140 11,400,0 Canada 1,400 1,390 2,480,000 3,440 3,420 5,990,0 Netherlands 312 310 567,000 312 310 567,0 Norway 912 884 2,200,000 1,230 1,200 2,770,0 Philippines 16 16 24,600 239 204 367,0 South Africa 2,850 2,830 4,320,000 4,590 4,520 6,860,0 Total 9,080 9,080 9,000 15,300,000 19,000 18,800 31,400,0 Other silicon: 80 893 1,710,000 1,270 1,250 2,250,0 Canada 252 234 444,000 1,000 970 1,620,0 China 5 5 17,600 10 10 35,1 Japan 50 (3) 4 55,000 62 1 67,2 < | 99.00% - 99.99% silicon: | | | | | | | | |
| Canada 1,400 1,390 2,480,000 3,440 3,420 5,990,0 Netherlands 312 310 567,000 312 310 567,0 Norway 912 884 2,200,000 1,230 1,200 2,770,0 Philippines 16 16 24,600 239 204 367,0 South Africa 2,850 2,830 4,320,000 4,590 4,520 6,860,0 Total 9,080 9,000 15,300,000 19,000 18,800 31,400,0 Other silicon: 80 893 1,710,000 1,270 1,250 2,250,0 Canada 252 234 444,000 1,000 970 1,620,0 China 5 5 17,600 10 10 35,1 Japan 50 (3) 4 55,000 62 1 67,2 Norway 18 18 18,7 Philippines 56 | Australia | 852 | 848 | 1,420,000 | 2,030 | 2,020 | 3,420,000 | | |
| Netherlands 312 310 567,000 312 310 567,00 Norway 912 884 2,200,000 1,230 1,200 2,770,0 Philippines 16 16 24,600 239 204 367,0 South Africa 2,850 2,830 4,320,000 4,590 4,520 6,860,0 Total 9,080 9,000 15,300,000 19,000 18,800 31,400,0 Other silicon: 80 893 1,710,000 1,270 1,250 2,250,0 Canada 252 234 444,000 1,000 970 1,620,0 China 5 5 17,600 10 10 35,1 Japan 50 (3) 4 55,000 62 1 67,2 Norway 18 18 18,7,1 Philippines 56 55 89,800 83 80 128,0 Sweden 12 11 | Brazil | 2,740 | 2,720 | 4,350,000 | 7,190 | 7,140 | 11,400,000 | | |
| Norway 912 884 2,200,000 1,230 1,200 2,770,0 Philippines 16 16 24,600 239 204 367,0 South Africa 2,850 2,830 4,320,000 4,590 4,520 6,860,0 Total 9,080 9,000 15,300,000 19,000 18,800 31,400,0 Other silicon: Brazil 906 893 1,710,000 1,270 1,250 2,250,0 Canada 252 234 444,000 1,000 970 1,620,0 China 5 5 17,600 10 10 35,1 Japan 50 (3) 4 55,000 62 1 67,2 Norway 18 18 57,1 Philippines 56 55 89,800 83 80 128,0 Sweden 12 11 65,600 73 21 132,0 United Kingdom | Canada | 1,400 | 1,390 | 2,480,000 | 3,440 | 3,420 | 5,990,000 | | |
| Philippines 16 16 24,600 239 204 367,0 South Africa 2,850 2,830 4,320,000 4,590 4,520 6,860,0 Total 9,080 9,000 15,300,000 19,000 18,800 31,400,0 Other silicon: 8 893 1,710,000 1,270 1,250 2,250,0 Canada 252 234 444,000 1,000 970 1,620,0 China 5 5 17,600 10 10 35,1 Japan 50 (3) 4 55,000 62 1 67,2 Norway 18 18 57,1 Philippines 56 55 89,800 83 80 128,0 Sweden 12 11 65,600 73 21 132,0 United Kingdom 80 78 138,000 80 78 138,0 Total 1,360 1,280 2 | Netherlands | 312 | 310 | 567,000 | 312 | 310 | 567,000 | | |
| South Africa 2,850 2,830 4,320,000 4,590 4,520 6,860,0 Total 9,080 9,000 15,300,000 19,000 18,800 31,400,0 Other silicon: Brazil 906 893 1,710,000 1,270 1,250 2,250,0 Canada 252 234 444,000 1,000 970 1,620,0 China 5 5 17,600 10 10 35,1 Japan 50 (3) 55,000 62 1 67,2 Norway 18 18 57,1 Philippines 56 55 89,800 83 80 128,0 Sweden 12 11 65,600 73 21 132,0 United Kingdom 80 78 138,000 80 78 138,0 Total 1,360 1,280 2,520,000 2,600 2,430 4,440,0 | Norway | 912 | 884 | 2,200,000 | 1,230 | 1,200 | 2,770,000 | | |
| Total 9,080 9,000 15,300,000 19,000 18,800 31,400,000 Other silicon: Brazil 906 893 1,710,000 1,270 1,250 2,250,00 Canada 252 234 444,000 1,000 970 1,620,00 China 5 5 17,600 10 10 35,1 Japan 50 (3) 4 55,000 62 1 67,2 Norway 18 18 57,1 Philippines 56 55 89,800 83 80 128,0 Sweden 12 11 65,600 73 21 132,0 United Kingdom 80 78 138,000 80 78 138,0 Total 1,360 1,280 2,520,000 2,600 2,430 4,440,0 | Philippines | 16 | 16 | 24,600 | 239 | 204 | 367,000 | | |
| Other silicon: 906 893 1,710,000 1,270 1,250 2,250,0 Canada 252 234 444,000 1,000 970 1,620,0 China 5 5 17,600 10 10 35,1 Japan 50 (3) 4 55,000 62 1 67,2 Norway 18 18 57,1 Philippines 56 55 89,800 83 80 128,6 Sweden 12 11 65,600 73 21 132,6 United Kingdom 80 78 138,000 80 78 138,6 Total 1,360 1,280 2,520,000 2,600 2,430 4,440,6 | South Africa | 2,850 | 2,830 | 4,320,000 | 4,590 | 4,520 | 6,860,000 | | |
| Brazil 906 893 1,710,000 1,270 1,250 2,250,0 Canada 252 234 444,000 1,000 970 1,620,0 China 5 5 17,600 10 10 35,1 Japan 50 (3) 4 55,000 62 1 67,2 Norway 18 18 57,1 Philippines 56 55 89,800 83 80 128,6 Sweden 12 11 65,600 73 21 132,0 United Kingdom 80 78 138,000 80 78 138,0 Total 1,360 1,280 2,520,000 2,600 2,430 4,440,0 | Total | 9,080 | 9,000 | 15,300,000 | 19,000 | 18,800 | 31,400,000 | | |
| Canada 252 234 444,000 1,000 970 1,620,0 China 5 5 17,600 10 10 35,1 Japan 50 (3) 4 55,000 62 1 67,2 Norway 18 18 57,1 Philippines 56 55 89,800 83 80 128,6 Sweden 12 11 65,600 73 21 132,6 United Kingdom 80 78 138,000 80 78 138,0 Total 1,360 1,280 2,520,000 2,600 2,430 4,440,0 | Other silicon: | | | | | | | | |
| China 5 5 17,600 10 10 35,1 Japan 50 (3) 4 55,000 62 1 67,2 Norway 18 18 57,1 Philippines 56 55 89,800 83 80 128,6 Sweden 12 11 65,600 73 21 132,6 United Kingdom 80 78 138,000 80 78 138,0 Total 1,360 1,280 2,520,000 2,600 2,430 4,440,0 | Brazil | 906 | 893 | 1,710,000 | 1,270 | 1,250 | 2,250,000 | | |
| Japan 50 (3) 4 55,000 62 1 67,2 Norway 18 18 57,1 Philippines 56 55 89,800 83 80 128,6 Sweden 12 11 65,600 73 21 132,6 United Kingdom 80 78 138,000 80 78 138,0 Total 1,360 1,280 2,520,000 2,600 2,430 4,440,0 | Canada | 252 | 234 | 444,000 | 1,000 | 970 | 1,620,000 | | |
| Norway 18 18 57,1 Philippines 56 55 89,800 83 80 128,0 Sweden 12 11 65,600 73 21 132,0 United Kingdom 80 78 138,000 80 78 138,0 Total 1,360 1,280 2,520,000 2,600 2,430 4,440,0 | China | | 5 | 17,600 | 10 | 10 | 35,100 | | |
| Philippines 56 55 89,800 83 80 128,0 Sweden 12 11 65,600 73 21 132,0 United Kingdom 80 78 138,000 80 78 138,0 Total 1,360 1,280 2,520,000 2,600 2,430 4,440,0 | Japan | 50 | (3) 4 | 55,000 | 62 | 1 | 67,200 | | |
| Sweden 12 11 65,600 73 21 132,0 United Kingdom 80 78 138,000 80 78 138,0 Total 1,360 1,280 2,520,000 2,600 2,430 4,440,0 | Norway | | | | 18 | 18 | 57,100 | | |
| United Kingdom 80 78 138,000 80 78 138,0 Total 1,360 1,280 2,520,000 2,600 2,430 4,440,0 | Philippines | 56 | 55 | 89,800 | 83 | 80 | 128,000 | | |
| Total 1,360 1,280 2,520,000 2,600 2,430 4,440,0 | Sweden | 12 | 11 | 65,600 | 73 | 21 | 132,000 | | |
| Total 1,360 1,280 2,520,000 2,600 2,430 4,440,0 | United Kingdom | 80 | 78 | 138,000 | 80 | 78 | 138,000 | | |
| Total silicon metal 10,600 10,400 32,900,000 21,900 21,500 68,500,0 | | 1,360 | 1,280 | 2,520,000 | 2,600 | 2,430 | 4,440,000 | | |
| | Total silicon metal | 10,600 | 10,400 | 32,900,000 | 21,900 | 21,500 | 68,500,000 | | |

^eEstimated. XX Not applicable. -- Zero.

Source: U.S. Census Bureau.

¹Presentation of monthly data is based on the year-to-date quantities (gross weight) of the top 10 countries.

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

³I ess than 1/2 unit

⁴All or part of these data have been referred to the U.S. Census Bureau for verification.