

# Mineral Industry Surveys

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**For information, contact:**

Ruth F. Schulte, PGM Commodity Specialist  
National Minerals Information Center  
Telephone: (703) 648-4963  
Email: [rschulte@usgs.gov](mailto:rschulte@usgs.gov)

(Data)

Telephone: (703) 648-7942  
Email:

**Internet:** <https://www.usgs.gov/centers/national-minerals-information-center/mineral-industry-surveys>

## PLATINUM-GROUP METALS IN MAY 2022

Imports for consumption of platinum-group metals (PGMs), including waste and scrap, were 20,000 kilograms (kg) in May 2022, an increase of 35% compared with imports in April 2022, and a decrease of 15% compared with imports in May 2021 (table 1). The leading import sources for PGMs into the United States in May 2022 were, in descending order of quantity, South Africa, Russia, and Germany (tables 3, 4).

In May 2022, exports of rhodium and platinum more than tripled and more than doubled, respectively, compared with those in April 2022. Exports increased by 37% for palladium and by 21% for PGM scrap compared with those in April 2022. The leading destinations for PGM exports were, in descending order of quantity, Switzerland, Japan, Germany, and the United Kingdom (tables 1, 5).

Compared with the prices in the previous month, the Engelhard average May 2022 prices for both iridium and ruthenium were unchanged. The average prices decreased by 14% for rhodium, by 12% for palladium, and were essentially unchanged for platinum compared with the average prices in the previous month. Compared with average prices in May 2021, the May 2022 average price increased by 5% for ruthenium and decreased by 41% for rhodium, by 28% for palladium, by 21% for iridium, and by 21% for platinum (fig. 1; tables 1, 2).

### Industry News

In May, the United Kingdom announced an increase in import tariffs for goods from Russia and Belarus, including palladium and platinum. The import tariffs would increase by 35%. In

addition, an export ban was placed on \$300-million worth of exports to Russia, such as chemicals, plastics, rubber, and machinery (Department of International Trade [United Kingdom], 2022).

### Reference Cited

Department of International Trade [United Kingdom], 2022, UK punishes Putin with new round of sanctions on £1.7 billion of goods: London, United Kingdom, Department of International Trade [United Kingdom] press release, May 8. (Accessed July 18, 2022, at <https://www.gov.uk/government/news/uk-punishes-putin-with-new-round-of-sanctions-on-17-billion-of-goods>.)

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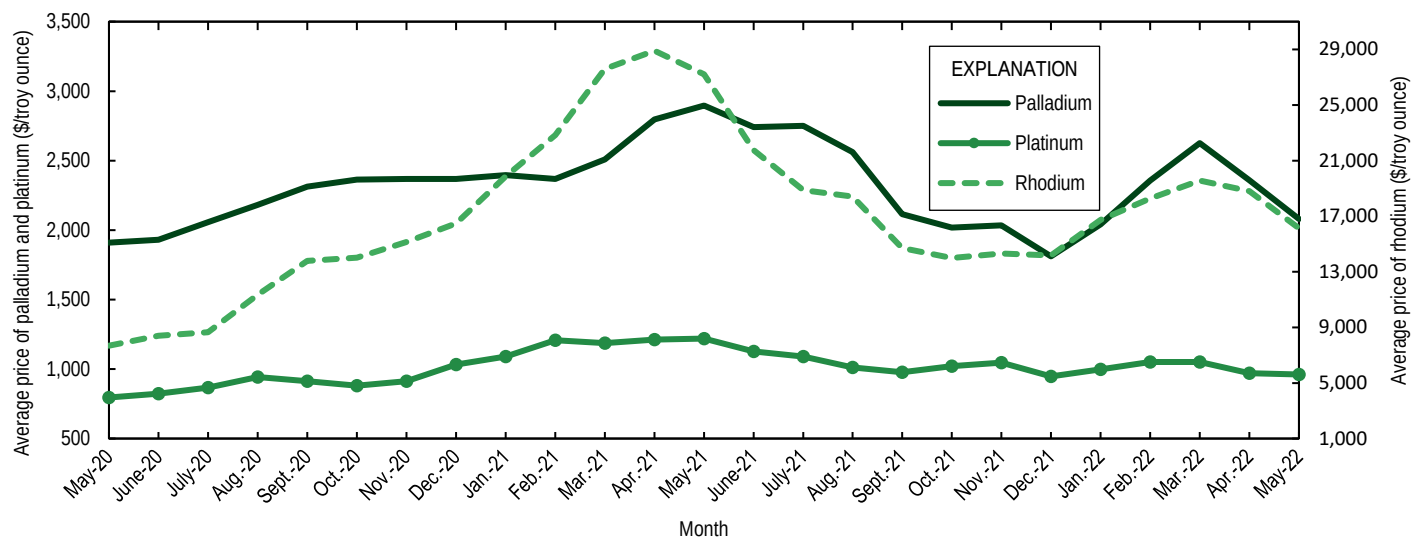


Figure 1. Engelhard unfabricated average monthly prices for palladium, platinum, and rhodium in dollars per troy ounce from May 2020 through May 2022.  
 Source: S&P Global Platts Metals Week.

TABLE 1  
U.S. SALIENT PLATINUM-GROUP METALS STATISTICS<sup>1</sup>

(Kilograms metal content, unless otherwise specified)

|                                                       | 2021                 | 2022      |           |           |                 |
|-------------------------------------------------------|----------------------|-----------|-----------|-----------|-----------------|
|                                                       | January–<br>December | March     | April     | May       | January–<br>May |
| Mine production: <sup>2</sup>                         |                      |           |           |           |                 |
| Palladium                                             | 13,700               | 980       | 980       | 980       | 4,900           |
| Platinum                                              | 4,020                | 289       | 289       | 289       | 1,450           |
| Total                                                 | 17,700               | 1,270     | 1,270     | 1,270     | 6,350           |
| Imports for consumption: <sup>3</sup>                 |                      |           |           |           |                 |
| Palladium                                             | 72,600               | 6,750     | 5,200     | 6,090     | 30,200          |
| Platinum                                              | 67,900               | 4,310     | 3,420     | 6,790     | 22,800          |
| Iridium                                               | 2,310                | 287       | 156       | 57        | 780             |
| Osmium                                                | 1                    | --        | --        | --        | --              |
| Rhodium                                               | 16,500               | 1,200     | 1,070     | 1,050     | 5,550           |
| Ruthenium                                             | 18,000               | 1,490     | 1,200     | 1,310     | 5,860           |
| Waste and scrap <sup>4</sup>                          | 185,000              | 3,010     | 3,740     | 4,710     | 17,100          |
| Total                                                 | 362,000              | 17,000    | 14,800    | 20,000    | 82,300          |
| Exports: <sup>3</sup>                                 |                      |           |           |           |                 |
| Palladium                                             | 43,900               | 4,630     | 2,880     | 3,960     | 19,200          |
| Platinum                                              | 29,400               | 1,440     | 1,490     | 3,940     | 12,400          |
| Iridium, osmium, ruthenium                            | 2,180                | 292       | 13        | 11        | 750             |
| Rhodium                                               | 1,350                | 161       | 12        | 37        | 372             |
| Waste and scrap <sup>4</sup>                          | 37,800               | 2,800     | 2,710     | 3,270     | 14,600          |
| Total                                                 | 114,000              | 9,320     | 7,100     | 11,200    | 47,300          |
| Price, average (dollars per troy ounce): <sup>5</sup> |                      |           |           |           |                 |
| Palladium                                             | 2,419.18             | 2,626.09  | 2,358.00  | 2,080.05  | 2,299.60        |
| Platinum                                              | 1,094.31             | 1,051.48  | 969.80    | 962.19    | 1,006.95        |
| Iridium                                               | 5,158.40             | 4,856.52  | 5,000.00  | 5,000.00  | 4,646.12        |
| Rhodium                                               | 20,254.10            | 19,567.39 | 18,810.00 | 16,133.33 | 17,930.58       |
| Ruthenium                                             | 576.12               | 603.91    | 625.00    | 625.00    | 591.75          |

-- Zero.

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

<sup>2</sup>Data estimated based on publicly reported quarterly data.

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

<sup>4</sup>Includes waste and scrap for all platinum-group elements. Previously included within platinum.

<sup>5</sup>Source: S&P Global Platts Metals Week.

TABLE 2  
PLATINUM-GROUP METALS PRICES<sup>1</sup>

(Dollars per troy ounce)

|                | Palladium   | Platinum       | Iridium                | Rhodium           | Ruthenium              |
|----------------|-------------|----------------|------------------------|-------------------|------------------------|
| 2021:          |             |                |                        |                   |                        |
| Low:           |             |                |                        |                   |                        |
| Price          | 1,584.00    | 915.00         | 3,000.00               | 12,000.00         | 280.00                 |
| Date           | Dec. 15     | Dec. 14 and 15 | Jan. <sup>2</sup>      | Sep. 15 and 16    | Jan. <sup>2</sup>      |
| High:          |             |                |                        |                   |                        |
| Price          | 3,020.00    | 1,298.00       | 6,400.00               | 30,000.00         | 825.00                 |
| Date           | May 4       | Feb. 19        | Apr.–May <sup>2</sup>  | Mar. 22           | May 21 and 24          |
| Price, average | 2,419.18    | 1,094.31       | 5,158.40               | 20,254.10         | 576.12                 |
| 2022:          |             |                |                        |                   |                        |
| March:         |             |                |                        |                   |                        |
| Low:           |             |                |                        |                   |                        |
| Price          | 2,135.00    | 969.00         | 4,150.00               | 18,600.00         | 530.00                 |
| Date           | Mar. 29     | Mar. 29        | Mar. 1                 | Mar. 23 and 24    | Mar. <sup>2</sup>      |
| High:          |             |                |                        |                   |                        |
| Price          | 3,050.00    | 1,155.00       | 5,000.00               | 22,200.00         | 625.00                 |
| Date           | Mar. 8      | Mar. 8         | Mar. <sup>2</sup>      | Mar. 7            | Mar. <sup>2</sup>      |
| Price, average | 2,626.09    | 1,051.48       | 4,856.52               | 19,567.39         | 603.91                 |
| April:         |             |                |                        |                   |                        |
| Low:           |             |                |                        |                   |                        |
| Price          | 2,145.00    | 920.00         | 5,000.00               | 18,000.00         | 625.00                 |
| Date           | Apr. 25     | Apr. 26 and 28 | Apr. <sup>2</sup>      | Apr. <sup>2</sup> | Apr. <sup>2</sup>      |
| High:          |             |                |                        |                   |                        |
| Price          | 2,525.00    | 1,025.00       | 5,000.00               | 19,400.00         | 625.00                 |
| Date           | Apr. 11     | Apr. 18        | Apr. <sup>2</sup>      | Apr. <sup>2</sup> | Apr. <sup>2</sup>      |
| Price, average | 2,358.00    | 969.80         | 5,000.00               | 18,810.00         | 625.00                 |
| May:           |             |                |                        |                   |                        |
| Low:           |             |                |                        |                   |                        |
| Price          | 1,937.00    | 935.00         | 5,000.00               | 14,850.00         | 625.00                 |
| Date           | May 12      | May 2          | May <sup>2</sup>       | May 20            | May <sup>2</sup>       |
| High:          |             |                |                        |                   |                        |
| Price          | 2,260.00    | 995.00         | 5,000.00               | 18,000.00         | 625.00                 |
| Date           | May 2 and 5 | May 5          | May <sup>2</sup>       | May 2 and 3       | May <sup>2</sup>       |
| Price, average | 2,080.05    | 962.19         | 5,000.00               | 16,133.33         | 625.00                 |
| January–May:   |             |                |                        |                   |                        |
| Low:           |             |                |                        |                   |                        |
| Price          | 1,860.00    | 920.00         | 4,150.00               | 14,300.00         | 530.00                 |
| Date           | Jan. 6      | Apr. 26 and 28 | Jan.–Mar. <sup>2</sup> | Jan. 3            | Jan.–Mar. <sup>2</sup> |
| High:          |             |                |                        |                   |                        |
| Price          | 3,050.00    | 1,155.00       | 5,000.00               | 20,250.00         | 625.00                 |
| Date           | Mar. 8      | Mar. 8         | Mar.–May <sup>2</sup>  | Feb. <sup>2</sup> | Mar.–May <sup>2</sup>  |
| Price, average | 2,299.60    | 1,006.95       | 4,646.12               | 17,930.58         | 591.75                 |

<sup>1</sup>Quotes from Engelhard.

<sup>2</sup>Occurred multiple days in month(s) listed.

Source: S&P Global Platts Metals Week.

TABLE 3  
U.S. IMPORTS FOR CONSUMPTION OF PLATINUM METAL, BY COUNTRY OR LOCALITY<sup>1</sup>

(Kilograms metal content, unless otherwise specified)

| Country or locality    | Platinum grain and nuggets |                   | Platinum sponge |                   | Other unwrought platinum |                   | Platinum, other |                   | Platinum coins |                   |
|------------------------|----------------------------|-------------------|-----------------|-------------------|--------------------------|-------------------|-----------------|-------------------|----------------|-------------------|
|                        | Quantity                   | Value (thousands) | Quantity        | Value (thousands) | Quantity                 | Value (thousands) | Quantity        | Value (thousands) | Quantity       | Value (thousands) |
| 2021, January–December | 590                        | \$20,800          | 44,700          | \$1,600,000       | 5,400                    | \$247,000         | 15,800          | \$662,000         | 1,400          | \$49,200          |
| 2022:                  |                            |                   |                 |                   |                          |                   |                 |                   |                |                   |
| March                  | 125                        | 4,100             | 3,150           | 107,000           | 162                      | 6,640             | 811             | 37,100            | 65             | 2,400             |
| April                  | 35                         | 1,140             | 2,320           | 80,500            | 193                      | 8,420             | 825             | 37,600            | 51             | 1,740             |
| May:                   |                            |                   |                 |                   |                          |                   |                 |                   |                |                   |
| Australia              | --                         | --                | --              | --                | --                       | --                | 8               | 267               | 12             | 308               |
| Austria                | --                         | --                | --              | --                | --                       | --                | 62              | 3,870             | --             | --                |
| Belgium                | --                         | --                | 1,230           | 38,900            | --                       | --                | --              | --                | --             | --                |
| Canada                 | 25                         | 814               | --              | --                | --                       | --                | 61              | 2,030             | 93             | 3,130             |
| China                  | --                         | --                | --              | --                | --                       | --                | (2)             | 4                 | (2)            | 21                |
| Colombia               | --                         | --                | --              | --                | 21                       | 653               | 11              | 355               | --             | --                |
| Costa Rica             | --                         | --                | --              | --                | --                       | --                | 93              | 3,590             | --             | --                |
| Czechia                | --                         | --                | --              | --                | --                       | --                | 4               | 114               | --             | --                |
| Ecuador                | --                         | --                | --              | --                | --                       | --                | (2)             | 5                 | --             | --                |
| France                 | --                         | --                | --              | --                | --                       | --                | 13              | 445               | --             | --                |
| Germany                | --                         | --                | 351             | 11,300            | 75                       | 2,620             | 303             | 17,500            | (2)            | 17                |
| India                  | --                         | --                | --              | --                | --                       | --                | --              | --                | (2)            | 2                 |
| Ireland                | --                         | --                | --              | --                | (2)                      | 7                 | --              | --                | --             | --                |
| Italy                  | --                         | --                | 634             | 20,000            | --                       | --                | --              | --                | --             | --                |
| Japan                  | --                         | --                | 29              | 874               | 341                      | 44,300            | 12              | 303               | --             | --                |
| Korea, Republic of     | --                         | --                | 62              | 1,920             | --                       | --                | --              | --                | --             | --                |
| Mexico                 | --                         | --                | --              | --                | --                       | --                | 7               | 272               | --             | --                |
| Peru                   | --                         | --                | 9               | 278               | --                       | --                | --              | --                | --             | --                |
| Portugal               | --                         | --                | --              | --                | --                       | --                | (2)             | 6                 | --             | --                |
| Russia                 | --                         | --                | 720             | 22,300            | --                       | --                | --              | --                | --             | --                |
| Singapore              | --                         | --                | --              | --                | (2)                      | 18                | 13              | 512               | --             | --                |
| South Africa           | --                         | --                | 1,720           | 62,400            | --                       | --                | --              | --                | --             | --                |
| Switzerland            | 60                         | 1,890             | 16              | 488               | 6                        | 204               | 387             | 12,100            | (2)            | 4                 |
| Taiwan                 | --                         | --                | --              | --                | --                       | --                | 17              | 652               | --             | --                |
| United Kingdom         | 204                        | 8,190             | (2)             | 14                | (2)                      | 3                 | 179             | 5,390             | 6              | 154               |
| Total                  | 289                        | 10,900            | 4,780           | 159,000           | 443                      | 47,800            | 1,170           | 47,400            | 111            | 3,640             |
| January–May            | 746                        | 25,400            | 15,200          | 504,000           | 1,300                    | 94,500            | 5,290           | 239,000           | 262            | 9,130             |

-- Zero.

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

<sup>2</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 4  
U.S. IMPORTS FOR CONSUMPTION OF PLATINUM-GROUP METALS, BY COUNTRY OR LOCALITY<sup>1</sup>

(Kilograms metal content, unless otherwise specified)

| Country or locality    | Palladium <sup>2</sup> |                      | Iridium <sup>2</sup> |                      | Osmium <sup>2</sup> |                      | Rhodium <sup>2</sup> |                      | Ruthenium <sup>2</sup> |                      | Waste and scrap <sup>3</sup> |                      |
|------------------------|------------------------|----------------------|----------------------|----------------------|---------------------|----------------------|----------------------|----------------------|------------------------|----------------------|------------------------------|----------------------|
|                        | Quantity               | Value<br>(thousands) | Quantity             | Value<br>(thousands) | Quantity            | Value<br>(thousands) | Quantity             | Value<br>(thousands) | Quantity               | Value<br>(thousands) | Quantity                     | Value<br>(thousands) |
| 2021, January–December | 72,600                 | \$5,390,000          | 2,310                | \$286,000            | 1                   | \$17                 | 16,500               | \$9,850,000          | 18,000                 | \$247,000            | 185,000                      | \$2,380,000          |
| 2022:                  |                        |                      |                      |                      |                     |                      |                      |                      |                        |                      |                              |                      |
| March                  | 6,750                  | 556,000              | 287                  | 27,800               | --                  | --                   | 1,200                | 667,000              | 1,490                  | 23,700               | 3,010                        | 125,000              |
| April                  | 5,200                  | 413,000              | 156                  | 26,500               | --                  | --                   | 1,070                | 632,000              | 1,200                  | 22,900               | 3,740                        | 146,000              |
| May: <sup>4</sup>      |                        |                      |                      |                      |                     |                      |                      |                      |                        |                      |                              |                      |
| Australia              | --                     | --                   | --                   | --                   | --                  | --                   | --                   | --                   | --                     | --                   | 276                          | 9,290                |
| Belgium                | 96                     | 6,950                | --                   | --                   | --                  | --                   | 42                   | 24,100               | --                     | --                   | 215                          | 1,200                |
| Canada                 | 75                     | 6,140                | --                   | --                   | --                  | --                   | 3                    | 83                   | --                     | --                   | 460                          | 30,100               |
| China                  | --                     | --                   | --                   | --                   | --                  | --                   | --                   | --                   | --                     | --                   | 446                          | 1,030                |
| France                 | (5)                    | 3                    | --                   | --                   | --                  | --                   | --                   | --                   | --                     | --                   | 38                           | 1,430                |
| Germany                | 152                    | 9,410                | --                   | --                   | --                  | --                   | 387                  | 255,000              | 431                    | 9,330                | 757                          | 24,600               |
| Italy                  | 431                    | 30,200               | 3                    | 550                  | --                  | --                   | 58                   | 25,300               | 5                      | 91                   | 188                          | 6,110                |
| Japan                  | 121                    | 8,190                | --                   | --                   | --                  | --                   | --                   | --                   | 4                      | 31                   | 33                           | 1,050                |
| Korea, Republic of     | 156                    | 10,300               | --                   | --                   | --                  | --                   | 31                   | 16,900               | --                     | --                   | --                           | --                   |
| Malaysia               | --                     | --                   | --                   | --                   | --                  | --                   | --                   | --                   | --                     | --                   | 70                           | 2,250                |
| Mexico                 | 17                     | 605                  | --                   | --                   | --                  | --                   | --                   | --                   | --                     | --                   | 733                          | 23,800               |
| Nigeria                | --                     | --                   | --                   | --                   | --                  | --                   | --                   | --                   | --                     | --                   | 43                           | 1,410                |
| Panama                 | --                     | --                   | --                   | --                   | --                  | --                   | --                   | --                   | --                     | --                   | 122                          | 78                   |
| Poland                 | --                     | --                   | --                   | --                   | --                  | --                   | --                   | --                   | --                     | --                   | 91                           | 17,800               |
| Russia                 | 2,800                  | 181,000              | --                   | --                   | --                  | --                   | 109                  | 55,000               | --                     | --                   | --                           | --                   |
| Saudi Arabia           | --                     | --                   | --                   | --                   | --                  | --                   | --                   | --                   | --                     | --                   | 101                          | 7,420                |
| South Africa           | 1,650                  | 110,000              | 19                   | 3,190                | --                  | --                   | 399                  | 233,000              | 855                    | 15,800               | --                           | --                   |
| Switzerland            | 578                    | 42,000               | --                   | --                   | --                  | --                   | --                   | --                   | --                     | --                   | --                           | --                   |
| United Arab Emirates   | --                     | --                   | --                   | --                   | --                  | --                   | --                   | --                   | --                     | --                   | 46                           | 1,480                |
| United Kingdom         | 16                     | 1,310                | 35                   | 6,120                | --                  | --                   | 22                   | 11,900               | 11                     | 268                  | 900                          | 31,800               |
| Other                  | 2                      | 73                   | --                   | --                   | --                  | --                   | --                   | --                   | --                     | --                   | 195                          | 10,900               |
| Total                  | 6,090                  | 407,000              | 57                   | 9,850                | --                  | --                   | 1,050                | 621,000              | 1,310                  | 25,500               | 4,710                        | 172,000              |
| January–May            | 30,200                 | 2,160,000            | 780                  | 90,600               | --                  | --                   | 5,550                | 3,080,000            | 5,860                  | 102,000              | 17,100                       | 646,000              |

-- Zero.

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

<sup>2</sup>Unwrought and other forms.

<sup>3</sup>Includes waste and scrap for all platinum-group elements.

<sup>4</sup>The 20 countries and (or) localities with the greatest total platinum-group metal imports are listed. All others are included in the "Other" category.

<sup>5</sup>Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 5  
U.S. EXPORTS OF PLATINUM-GROUP METALS, BY COUNTRY OR LOCALITY<sup>1</sup>

(Kilograms metal content, unless otherwise specified)

| Country or locality    | Palladium <sup>2</sup> |                      | Platinum <sup>2</sup> |                      | Iridium, osmium<br>and ruthenium <sup>2,3</sup> |                      | Rhodium <sup>2</sup> |                      | Waste and scrap <sup>4</sup> |                      |
|------------------------|------------------------|----------------------|-----------------------|----------------------|-------------------------------------------------|----------------------|----------------------|----------------------|------------------------------|----------------------|
|                        | Quantity               | Value<br>(thousands) | Quantity              | Value<br>(thousands) | Quantity                                        | Value<br>(thousands) | Quantity             | Value<br>(thousands) | Quantity                     | Value<br>(thousands) |
| 2021, January–December | 43,900                 | \$3,370,000          | 29,400                | \$1,110,000          | 2,180                                           | \$57,400             | 1,350                | 809,000              | 37,800                       | 3,370,000            |
| 2022:                  |                        |                      |                       |                      |                                                 |                      |                      |                      |                              |                      |
| March                  | 4,630                  | 380,000              | 1,440                 | 58,200               | 292                                             | 7,940                | 161                  | 95,700               | 2,800                        | 395,000              |
| April                  | 2,880                  | 217,000              | 1,490                 | 59,500               | 13                                              | 1,570                | 12                   | 6,990                | 2,710                        | 351,000              |
| May: <sup>5</sup>      |                        |                      |                       |                      |                                                 |                      |                      |                      |                              |                      |
| Belgium                | --                     | --                   | --                    | --                   | --                                              | --                   | --                   | --                   | 49                           | 25,500               |
| Brazil                 | 16                     | 1,250                | 22                    | 1,790                | --                                              | --                   | --                   | --                   | --                           | --                   |
| Canada                 | 610                    | 41,600               | 121                   | 4,020                | --                                              | --                   | (6)                  | 16                   | 335                          | 10,000               |
| China                  | 3                      | 187                  | 45                    | 1,450                | 1                                               | 158                  | 3                    | 1,660                | --                           | --                   |
| Costa Rica             | 18                     | 1,230                | 19                    | 1,040                | 1                                               | 124                  | --                   | --                   | --                           | --                   |
| France                 | 8                      | 538                  | 6                     | 201                  | (6)                                             | 41                   | --                   | --                   | --                           | --                   |
| Germany                | 517                    | 33,700               | 421                   | 19,000               | (6)                                             | 41                   | --                   | --                   | 909                          | 158,000              |
| Hong Kong              | 6                      | 409                  | 11                    | 388                  | --                                              | --                   | 20                   | 10,700               | --                           | --                   |
| India                  | 3                      | 210                  | 111                   | 3,260                | --                                              | --                   | --                   | --                   | --                           | --                   |
| Ireland                | 3                      | 227                  | 22                    | 748                  | (6)                                             | 4                    | --                   | --                   | --                           | --                   |
| Israel                 | 20                     | 1,280                | 1                     | 37                   | --                                              | --                   | --                   | --                   | --                           | --                   |
| Italy                  | 1,060                  | 72,400               | 101                   | 3,170                | --                                              | --                   | --                   | --                   | --                           | --                   |
| Japan                  | 255                    | 18,400               | 178                   | 8,200                | 3                                               | 392                  | (6)                  | 130                  | 1,580                        | 75,200               |
| Korea, Republic of     | 23                     | 1,600                | 1                     | 20                   | --                                              | --                   | --                   | --                   | --                           | --                   |
| Mexico                 | 7                      | 440                  | 26                    | 949                  | --                                              | --                   | --                   | --                   | --                           | --                   |
| Singapore              | 1                      | 71                   | 101                   | 3,200                | --                                              | --                   | --                   | --                   | --                           | --                   |
| South Africa           | --                     | --                   | --                    | --                   | --                                              | --                   | --                   | --                   | 19                           | 924                  |
| Sweden                 | 1                      | 46                   | --                    | --                   | --                                              | --                   | --                   | --                   | 276                          | 8,960                |
| Switzerland            | 649                    | 42,200               | 1,820                 | 62,100               | 1                                               | 79                   | --                   | --                   | --                           | --                   |
| United Kingdom         | 738                    | 49,600               | 908                   | 37,200               | (6)                                             | 5                    | 13                   | 7,720                | 90                           | 4,720                |
| Other                  | 20                     | 1,330                | 22                    | 726                  | 4                                               | 370                  | 1                    | 722                  | 15                           | 471                  |
| Total                  | 3,960                  | 267,000              | 3,940                 | 147,000              | 11                                              | 1,210                | 37                   | 20,900               | 3,270                        | 284,000              |
| January–May            | 19,200                 | 1,340,000            | 12,400                | 473,000              | 750                                             | 18,000               | 372                  | 211,000              | 14,600                       | 1,570,000            |

-- Zero.

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

<sup>2</sup>Unwrought and other forms.

<sup>3</sup>Gross weight.

<sup>4</sup>Includes waste and scrap for all platinum-group elements. Previously categorized as "Platinum waste and scrap."

<sup>5</sup>The 20 countries and (or) localities with the greatest total platinum-group metal exports are listed. All others are included in the "Other" category.

<sup>6</sup>Less than ½ unit.

Source: U.S. Census Bureau.