

Mineral Industry Surveys

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PRECIOUS METALS IN JULY 2000

U.S. mines produced 22,600 kilograms (kg) of gold and 156,000 kg of silver in July 2000. Compared with June, production of gold was down 27% in Nevada, the largest domestic producer. Compared with June, total output of silver was down by 7%.

Gold

Domestic.—Homestake Mining Co. agreed to acquire Case Pomeroy & Co.'s 25% interest in the Round Mountain gold mine. The acquisition will raise Homestake's ownership of the central Nevada gold mine to 50% (American Metal Market, 2000d).

A ballot was proposed in Colorado that would have allowed voters to decide in November 2000 if cyanide could be used for surface gold mining within the State. However, the proposal failed to achieve the required number of signatures from Colorado citizens needed to place it before the voters. The proposal was similar to a ballot approved by Montana voters in 1998. Under the proposal, the Cresson Mine, the only remaining active gold mine in Colorado, would have been allowed to continue to operate under its present permit, but would have been unable to expand its operation (Mining Engineering, 2000).

International.—Barrick Gold Corp. bought over 90% of the common shares of Pangea Goldfields Inc. Barrick paid a 52% premium over the closing price of the shares on June 27. The main attraction for Barrick is that Pangea's properties are in the Lake Victoria Goldfield of northwestern Tanzania, where Barrick has been constructing its Bulyanhulu gold project (Platt's Metals Week, 2000a).

Falcon Gold Zimbabwe suspended operations at its Venice gold mine. Venice was the latest casualty of the adverse economic climate in Zimbabwe that has forced the closure of the Eureka Mine, the country's newest gold mine, and the Indarama Mine. These mines closed because of continuing low gold prices, in terms

of Zimbabwe dollars, and the rising costs of gold production. The Dalny and Golden Quarry Mines could be the next to close (Platt's Metals Week, 2000f).

AngloGold Ltd. of South Africa, the world's largest gold producer, has agreed to buy a 25% interest in OroAfrica, a South African jewelry manufacturer. The transaction was the first time that a gold producer and a jewelry manufacturer developed an ownership relationship. OroAfrica has processed about 6,000 kg (193,000 troy ounces) of gold per year at its jewelry center in Cape Town. AngloGold also has considered entering into joint agreements with East Coast commercial companies and the World Gold Council to encourage gold sales for Christmas shoppers (American Metal Market, 2000a).

Update.—The Bank of England sold 25,000 kg of gold at \$279.75 per ounce on July 12. The auction, which was only 1.3 times oversubscribed, was the seventh since July 1999. Immediately after the sale, the spot price of gold was trading \$2 lower (Platt's Metals Week, 2000b).

The London Bullion Market Association's gold clearing statistics rose moderately during June. Gold transfers rose 10.5% in comparison with those of May, reaching 28.2 million ounces (877,000 kg). The number of gold transfers increased from 768 to 857. In comparison with those of June 1999, ounces of gold transferred were slightly lower than in June 2000 (American Metal Market, 2000b).

A web site was launched which offered products and services in the gold market to businesses, investors, and consumers. The web site is www.goldavenue.com. When fully operational, the site will handle gold trading, retail jewelry, bullion, product and market information, and provide gold savings and investment vehicles. Another web site, launched by GoldMoney, uses a new approach to online payment. GoldMoney, which is located in Johannesburg, South Africa, will provide an online payment system that uses

gold-backed units called GoldGrams. These units will be equivalent to the prevailing market price of one gram of gold at the time of the purchase. Its website is www.netgoldplan.com (American Metal Market, 2000e).

World gold producers are expected to reduce capital spending during the next 2 or 3 years. Small- to medium-sized companies will be particularly affected. Reduced capital spending cuts will mean less gold exploration, which suggests that new pipeline projects will not be sufficient to replace the old ones. It's not just the low gold price that is causing the reduced spending; it's also lack of investor interest owing to too many gold companies generating poor returns and technology sector stocks winning the competition for investors' money (Platt's Metals Week, 2000d).

Silver

China's silver output in 2000 is expected to be 2,000 to 3,000 metric tons (t), according to an official with Huatong Nonferrous. This estimate is higher than China's official estimate of 1,300 to 1,400 t. The Huatong official said that the official output should be higher because production from many silver mines have not been included in the central government's survey. Chinese demand for silver is expected to increase by 30% to about 1,600 t. The increase is mainly due to China's silver market deregulation that started in late 1999 (Platt's Metals Week, 2000c).

Platinum-Group Metals

South African PGM producer, Northam Platinum Ltd., reported that its R134 million expansion project is on schedule and within budget. The company plans to increase its throughput from the current 150,000 t of ore per month to 225,000 t per month. According to plans unveiled in February 2000, the expanded capacity is due to come on line January 2001. The plant is currently milling ore from only the Merensky Reef. When the expansion is completed, ore from the UG2 Reef can also be processed through the plant. Northam's operations are located in the Northern Bushveld Igneous Complex in the Northern Province of South Africa, which hosts the Merensky and UG2 Reefs. The area yields about 70% of the world's platinum and about 25% of its palladium (Platt's Metals Week, 2000e).

The price of platinum reached an 11-year high of \$575 per troy ounce on June 22, 2000, and has continued to rise, trading at \$587 per ounce on July 31, 2000. Prices were driven by U.S. bank buying and problems with Russian supplies. Rapid growth in

demand for platinum jewelry and the possibility of increased use of platinum in autocatalysts to replace more expensive palladium were also factors in the price increase. Palladium prices remained high, even though the market was quiet. In London, palladium was fixed at \$600 per ounce on June 29, 2000 and increased to \$822 per ounce on July 31. Ruthenium prices continued to rise on thin trading volumes, and dealers were quoting in a range of \$152–157 per ounce on June 29. The Engelhard unfabricated price on July 31, 2000, was \$170 per ounce, up from \$40 per ounce on July 31, 1999 (Metal Bulletin, 2000).

The U.S. precious metals recycling company PGP Industries, Inc., Santa Fe Springs, CA, was taken over by the German precious metals and technology group, Heraeus Holding GmbH. PGP Industries, one of the largest fully integrated processors of platinum-group metals in the United States, will now trade under the name Heraeus Metal Processing from its existing locations in Santa Fe Springs, Coalfield, TN, Duncan, SC, Waterbury, CT, and Shannon, Ireland (American Metal Market, 2000c).

References Cited

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- 2000b, Gold rises, silver falls at LBMA: American Metal Market, v. 108, no. 134, July 13, p. 6.
- 2000c, Heraeus' global presence grows with takeover of PGP Industries: American Metal Market, v. 108, no. 106, p. 7.
- 2000d, Homestake doubles its stake in Round Mountain gold mine: American Metal Market, v. 108, no. 126, June 30, p. 7.
- 2000e, In cyber world, gold rush is on as two companies set up sites: American Metal Market, v. 108, no. 129, July 6, p. 8.
- Metal Bulletin, 2000, Platinum returns to the spotlight: Metal Bulletin, no. 8489, July 3, p. 6.
- Mining Engineering, 2000, Proposed constitutional amendment would effectively ban precious metals mining in Colorado: Mining Engineering, v. 52, no. 7, July, p. 4.
- Platt's Metals Week, 2000a, Barrick seals Pangea Goldfields takeover: Platt's Metals Week, v. 71, no. 31, July 31, p. 11.
- 2000b, BoE sells 25mt of gold at \$279.75/oz: Platt's Metals Week, v. 71, no. 29, July 17, p. 4.
- 2000c, China's silver output to hit 2,000 mt: Platt's Metals Week, v. 71, no. 27, July 3, p. 15.
- 2000d, Gold producers to cut capital spending by 2003—Paribus: Platt's Metals Week, v. 71, no. 30, July 24, p. 12.
- 2000e, Northam Platinum expansion on target: Platt's Metals Week, v. 71, no. 27, July 3, p. 14.
- 2000f, Venice gold mine stops production: Platt's Metals Week, v. 71, no. 29, July 17, p. 5.

TABLE 1
MINE PRODUCTION OF RECOVERABLE GOLD AND SILVER IN THE UNITED STATES, BY STATE 1/

(Kilograms)

| Gold | Alaska | California | Nevada | Other States 2/ | Total |
|------------------|----------|------------|-----------|-----------------|-----------|
| 1999: p/ | | | | | |
| July | 1,390 | 1,420 | 20,100 | 4,390 | 27,300 |
| August | 1,390 | 1,350 | 21,100 | 4,340 | 28,100 |
| September | 1,360 | 1,370 | 21,200 | 4,310 | 28,300 |
| October | 1,260 | 1,540 | 21,800 | 4,440 | 29,000 |
| November | 1,180 | 1,640 | 22,200 | 4,470 | 29,500 |
| December | 1,260 | 1,810 | 21,900 | 4,620 | 29,600 |
| January-December | 15,700 | 17,500 | 257,000 | 51,300 | 341,000 |
| 2000: | | | | | |
| January | 1,200 r/ | 1,470 | 23,200 r/ | 4,200 | 30,000 r/ |
| February | 1,140 r/ | 1,390 | 21,700 r/ | 4,030 | 28,300 r/ |
| March | 1,200 r/ | 1,390 | 22,600 r/ | 4,400 | 29,600 r/ |
| April r/ | 1,190 | 1,280 | 21,400 | 4,240 | 28,100 |
| May r/ | 1,190 | 1,360 | 19,500 | 4,540 | 26,600 |
| June | 1,190 r/ | 1,470 r/ | 21,400 r/ | 4,710 | 28,800 r/ |
| July | 1,190 | 1,470 | 15,600 | 4,310 | 22,600 |
| January-July | 8,280 | 9,830 | 145,000 | 30,400 | 194,000 |
| Silver | Arizona | Idaho | Nevada | Other States 3/ | Total |
| 1999: p/ | | | | | |
| July | 16,600 | 35,100 | 39,000 | 65,200 | 156,000 |
| August | 14,600 | 35,100 | 39,300 | 61,400 | 150,000 |
| September | 13,900 | 34,400 | 47,600 | 59,900 | 156,000 |
| October | 13,500 | 35,100 | 48,700 | 63,500 | 161,000 |
| November | 12,100 | 34,400 | 41,500 | 61,500 | 150,000 |
| December | 14,700 | 34,400 | 75,100 | 61,800 | 187,000 |
| January-December | 183,000 | 417,000 | 577,000 | 769,000 | 1,950,000 |
| 2000: | | | | | |
| January | W | 34,400 | 58,300 | 75,200 | 168,000 |
| February | W | 34,300 | 63,100 | 69,900 | 167,000 |
| March | W | 34,300 | 71,000 | 75,000 | 180,000 |
| April | W | 34,300 | 57,500 | 72,900 | 165,000 |
| May | W | 34,300 | 73,800 | 73,400 | 182,000 |
| June | W | 34,200 | 59,800 | 74,500 | 168,000 |
| July | W | 34,200 | 56,700 | 65,500 | 156,000 |
| January-July | W | 240,000 | 440,000 | 507,000 | 1,190,000 |

p/ Preliminary. r/ Revised. NA Not available. W Withheld to avoid disclosing company proprietary data, included with "Other States."

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

2/ Includes Arizona, Colorado, Idaho, Montana, New Mexico, South Carolina, South Dakota, Utah, and Washington.

3/ Includes Alaska, California, Colorado, Missouri, Montana, New Mexico, New York, South Carolina, South Dakota, Tennessee, Utah, Washington, and State indicated by symbol W.

TABLE 2
SELECTED PRECIOUS METAL PRICES

(Dollars per troy ounce)

| | Gold | Silver | Platinum | Palladium |
|------------------------------|---------------------|---|-----------------------|----------------------|
| <u>Engelhard Industries:</u> | | | | |
| 1999: | | | | |
| Low/date | 253.88 (July 20) | 4.91 (January 4, April 14, May 28, June 4) | 344.00 (January 28) | 293.00 (May 4) |
| High/date | 326.70 (October 5) | 5.75 (September 28) | 457.00 (November 16) | 456.00 (December 29) |
| Average | 279.91 | 5.25 | 378.94 | 363.20 |
| 2000: | | | | |
| June: | | | | |
| Low/date | 273.61/1 | 4.95/1 | 550.00/14 and 16 | 584.00/1 |
| High/date | 292.65/13 | 5.15/6 | 586.00/26 | 697.00/19 |
| Average | 286.87 | 5.05 | 565.23 | 656.41 |
| July: | | | | |
| Low/date | 277.87/31 | 4.97/26 | 540.00/5 | 630.00/5 |
| High/date | 287.99/5 | 5.07/18 | 587.00/20, 21, and 31 | 830.00/31 |
| Average | 282.14 | 5.02 | 568.42 | 721.16 |
| August: | | | | |
| Low/date | 273.11/9 | 4.83/23 | 568.00/7 | 720.00/28 |
| High/date | 278.72/1 and 2 | 5.03/31 | 615.00/2 | 865.00/2 |
| Average | 275.57 | 4.93 | 583.739 | 769.26 |
| Year to date: | | | | |
| Low/date | 272.41 (May 26) | 4.83 (August 23) | 416.00 (January 6) | 437.00 (January 6) |
| High/date | 313.88 (February 7) | 5.53 (February 7) | 615.00 (August 2) | 865.00 (August 2) |
| Average | 284.43 | 5.09 | 524.66 | 636.71 |
| <u>Handy and Harman:</u> | | | | |
| 1999 | | | | |
| | 278.81 | 5.25 | XX | XX |
| 2000: | | | | |
| June | 285.73 | 5.05 | XX | XX |
| July | 281.01 | 5.02 | XX | XX |
| August | 274.44 | 4.93 | XX | XX |
| Average year to date | 283.28 | 5.10 | XX | XX |
| <u>London Final: 1/</u> | | | | |
| 1999 | | | | |
| | 278.77 | 5.22 | XX | XX |
| 2000: | | | | |
| June | 285.73 | 5.00 | XX | XX |
| July | 281.59 | 4.97 | XX | XX |
| August | 274.47 | 4.88 | XX | XX |
| Average year to date | 283.40 | 5.05 | XX | XX |

XX Not applicable.

1/ Silver price reported as "London Spot/US Equiv."

Source: Platt's Metals Week.

TABLE 3
U.S. IMPORTS AND EXPORTS OF GOLD 1/

(Kilograms of gold content, unless otherwise specified)

| Period and country | Ores and concentrates 2/ | Doré and precipitates | Refined bullion 3/ | Ash and residues | Total 4/ | Waste and scrap (gross weight) | Metal powder (gross weight) | Gold compounds (gross weight) |
|---------------------------------|--------------------------|-----------------------|--------------------|------------------|----------|--------------------------------|-----------------------------|-------------------------------|
| Imports for consumption: | | | | | | | | |
| 1999 | 117 | 24,700 | 196,000 | 133 | 221,000 | 30,500 | 5,500 | 9,400 |
| 2000: | | | | | | | | |
| April | -- | 1,740 | 12,400 | -- | 14,200 | 1,040 | 13 | 1,780 |
| May | 5 | 2,140 | 1,820 | 2 | 14,000 | 2,340 | 225 | 616 |
| June: | | | | | | | | |
| Brazil | -- | -- | 3,360 | -- | 3,360 | -- | -- | 140 |
| Canada | -- | 46 | 4,700 | 7 | 4,760 | 52 | 583 | -- |
| Chile | -- | -- | 575 | -- | 575 | -- | -- | -- |
| Colombia | -- | 117 | 1,140 | -- | 1,250 | 19 | -- | -- |
| Dominican Republic | -- | -- | -- | -- | -- | 1,340 | 4 | -- |
| Fiji | -- | -- | 335 | -- | 335 | -- | -- | -- |
| Mexico | -- | 329 | 95 | (5/) | 424 | 226 | -- | -- |
| Peru | -- | 1,310 | -- | -- | 1,310 | -- | -- | -- |
| Other | 3 | 107 | 160 | -- | 270 | 188 | 12 | 4 |
| Total | 3 | 1,910 | 10,400 | 8 | 12,300 | 1,820 | 600 | 144 |
| Year to date | 19 | 20,300 | 85,600 | 12 | 106,000 | 10,600 | 1,640 | 6,740 |
| Exports: | | | | | | | | |
| 1999 | 117 | 87,300 | 435,000 | -- | 523,000 | 40,000 | 270 | 561,000 |
| 2000: | | | | | | | | |
| April | 1 | 11,200 | 11,600 | -- | 22,800 | 6,570 | 28 | 154,000 |
| May | -- | 11,000 | 5,720 | -- | 16,700 | 3,650 | 24 | 25,200 |
| June: | | | | | | | | |
| Bermuda | -- | -- | -- | -- | -- | -- | 2 | -- |
| Canada | -- | 298 | 63 | -- | 361 | 1,450 | 1 | 248,000 |
| France | 2 | -- | (5/) | -- | 2 | -- | -- | -- |
| Germany | 20 | 3 | 6 | -- | 29 | -- | -- | -- |
| Israel | -- | -- | (5/) | -- | (5/) | -- | -- | 21,300 |
| Italy | -- | -- | 15 | -- | 15 | 527 | -- | -- |
| Japan | -- | 1 | 1 | -- | 2 | -- | 7 | 520 |
| Kuwait | -- | -- | -- | -- | -- | -- | -- | 4,940 |
| Mexico | -- | -- | 5,200 | -- | 5,200 | -- | 3 | 1 |
| Netherlands | -- | -- | -- | -- | -- | -- | -- | 20 |
| Peru | -- | -- | 726 | -- | 726 | -- | -- | -- |
| Singapore | -- | -- | -- | -- | -- | -- | -- | 170 |
| Sweden | -- | -- | -- | -- | -- | 101 | 2 | -- |
| Switzerland | 33 | 9,710 | 116 | -- | 9,860 | -- | 1 | -- |
| United Kingdom | 42 | -- | 23,500 | -- | 23,600 | 1,380 | 190 | 2 |
| Other | -- | 2 | 137 | -- | 139 | 90 | 2 | -- |
| Total | 96 | 10,000 | 29,800 | -- | 39,900 | 3,550 | 208 | 275,000 |
| Year to date | 5 | 46,400 | 209,000 | -- | 256,000 | 26,000 | 336 | 565,000 |

-- Zero.

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

2/ Includes gold content of base metal ores, concentrates, and matte imported for refining.

3/ Bullion also moves in both directions between U.S. markets and foreign stocks on deposit in the Federal Reserve Bank. Monetary gold excluded.

4/ "Waste and scrap," "Metal powder," or "Gold compounds" not included in "Total."

5/ Less than 1/2 unit.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS AND EXPORTS OF SILVER, REFINED AND AS NITRATE 1/

(Kilograms)

| Period and country | Bullion (silver content) | Doré (silver content) | Total (silver content) | Other unwrought silver (gross weight) | Metal powder (gross weight) | Silver nitrate (gross weight) |
|---------------------------------|-----------------------------|--------------------------|---------------------------|--|-----------------------------------|-------------------------------------|
| Imports for consumption: | | | | | | |
| 1999 | 2,660,000 | 404,000 r/ | 3,060,000 r/ | 126,000 | 120,000 r/ | 4,450 |
| 2000: | | | | | | |
| April | 224,000 | 16,100 | 240,000 | 25,100 | 15,700 | 5,140 |
| May | 245,000 | 4,680 | 250,000 | 28,200 | 32,000 | -- |
| June: | | | | | | |
| Canada | 83,700 2/ | -- | 83,700 | 10,400 2/ | 31,200 | 23 2/ |
| Chile | -- | 3,650 | 3,650 | -- | -- | -- |
| Fiji | 121 | -- | 121 | -- | -- | -- |
| Germany | -- | -- | -- | 5 2/ | 311 | -- |
| Japan | -- | -- | -- | 5 2/ | 8,640 2/ | -- |
| Mexico | 81,500 | -- | 81,500 | 268 | -- | -- |
| United Kingdom | 56,800 | -- | 56,800 | -- | -- | -- |
| Other | -- | -- | -- | -- | -- | -- |
| Total | 222,000 | 3,650 | 226,000 | 10,600 | 40,100 | 23 |
| Year to date | | | | | | |
| Exports: | | | | | | |
| 1999 | 481,000 | 64,400 | 545,000 | 75,100 | 324,000 r/ | 62,500 |
| 2000: | | | | | | |
| April | 24,800 | 5,970 | 30,800 | 3,880 | 31,000 | 12,500 |
| May | 48,600 | 2,070 | 50,600 | 5,120 | 34,600 | 22,400 |
| June: | | | | | | |
| Belgium | -- | -- | -- | 56 | -- | -- |
| Canada | 28 | -- | 28 | 845 | 1,810 | 21,100 |
| China | -- | -- | -- | -- | 1,360 | 3,120 |
| Côte d'Ivoire | -- | -- | -- | -- | 55 | -- |
| Dominican Republic | -- | -- | -- | 330 | -- | -- |
| France | -- | -- | -- | 113 | 1,450 | -- |
| Germany | -- | -- | -- | 1,690 | 4,070 | 49 |
| Hong Kong | -- | -- | -- | 134 | 2,610 | -- |
| India | -- | -- | -- | -- | 92 | -- |
| Japan | -- | -- | -- | -- | 11,800 | -- |
| Korea, Republic of | -- | -- | -- | 23 | 1,880 | -- |
| Lebanon | -- | -- | -- | 58 | -- | -- |
| Mexico | 66 | 2,690 2/ | 2,760 | -- | 415 | 100 |
| Netherlands | -- | -- | -- | -- | 805 | -- |
| Netherlands Antilles | -- | -- | -- | 74 | -- | -- |
| Singapore | -- | -- | -- | 128 | -- | -- |
| South Africa | -- | -- | -- | 413 | -- | -- |
| Switzerland | -- | 1,600 | 1,600 | 100 2/ | -- | -- |
| Taiwan | 766 | -- | 766 | 2,790 | 4,720 | 93 |
| Thailand | -- | -- | -- | 270 | -- | -- |
| United Kingdom | -- | 467 | 467 | 318 | 839 | -- |
| Other | -- | -- | -- | 30 | 72 | 42 |
| Total | 860 | 4,760 | 5,620 | 7,370 | 32,000 | 24,500 |
| Year to date | | | | | | |
| | 149,000 | 29,600 | 179,000 | 34,500 | 190,000 | 108,000 |

r/ Revised. -- Zero.

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

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

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS AND EXPORTS OF SILVER, RAW, SEMIMANUFACTURED, AND WASTE AND SCRAP 1/

(Kilograms of silver content, unless otherwise specified)

| Period and country | Silver ores and concentrates | Base metal ores and concentrates | Ash and residues | Total | Semimanufactured form 2/ 3/ (gross weight) | Waste and scrap (gross weight) |
|--------------------------|------------------------------|----------------------------------|------------------|---------|--|--------------------------------|
| Imports for consumption: | | | | | | |
| 1999 | 10,800 | 2,750 | 101,000 | 115,000 | 139,000 | 1,640,000 |
| 2000: | | | | | | |
| April | 891 | -- | 2,890 | 3,780 | 3,920 | 33,800 |
| May | -- | -- | 3,270 | 3,270 | 3,840 | 62,800 |
| June: | | | | | | |
| Australia | -- | -- | 133 | 133 | -- | 14 |
| Belgium | -- | -- | -- | -- | -- | 2,550 |
| Brazil | -- | -- | -- | -- | 1,630 | 14 |
| Canada | 55 | -- | 694 | 749 | 788 4/ | 5,410 |
| China | -- | -- | -- | -- | -- | 1,070 |
| Costa Rica | -- | -- | -- | -- | -- | 240 |
| Dominican Republic | -- | -- | -- | -- | -- | 395 |
| France | -- | -- | -- | -- | 466 4/ | 2,270 |
| Germany | -- | -- | -- | -- | 191 4/ | 14,900 |
| Hong Kong | -- | -- | -- | -- | -- | 40,300 |
| Ireland | -- | -- | -- | -- | -- | 297 |
| Italy | -- | -- | -- | -- | 16 4/ | 1,350 |
| Japan | -- | -- | -- | -- | 58 4/ | -- |
| Korea, Republic of | -- | -- | -- | -- | 571 | 13,100 |
| Malaysia | -- | -- | -- | -- | -- | 6,390 |
| Mexico | -- | -- | 2,870 | 2,870 | 354 | 31 |
| Netherlands | -- | -- | -- | -- | 88 | -- |
| Philippines | -- | -- | -- | -- | -- | 3,810 |
| Spain | -- | -- | -- | -- | -- | 837 |
| United Kingdom | -- | -- | 1,540 | 1,540 | 487 4/ | 250 |
| Other | -- | -- | -- | -- | 30 4/ | 11 |
| Total | 55 | -- | 5,240 | 5,290 | 4,670 | 93,200 |
| Year to date | 1,080 | -- | 25,800 | 26,900 | 46,800 | 589,000 |
| Exports: | | | | | | |
| 1999 | 70,800 | -- | -- | 70,800 | 122,000 | 1,310,000 |
| 2000: | | | | | | |
| April | 1,100 | -- | -- | 1,100 | 10,700 | 144,000 |
| May | -- | -- | -- | -- | 9,510 | 105,000 |
| June: | | | | | | |
| Belgium | -- | -- | -- | -- | 1,050 | 65,000 |
| Brazil | -- | -- | -- | -- | 75 | -- |
| Canada | -- | -- | -- | -- | 2,830 | 35,900 |
| China | -- | -- | -- | -- | -- | 19,200 |
| Egypt | -- | -- | -- | -- | 396 | -- |
| France | -- | -- | -- | -- | 314 4/ | -- |
| Germany | -- | -- | -- | -- | 296 4/ | 1,170 |
| Hong Kong | -- | -- | -- | -- | 855 | 322 |
| Italy | -- | -- | -- | -- | 107 4/ | 4,880 |
| Japan | -- | -- | -- | -- | 289 4/ | 3,930 |
| Korea, Republic of | -- | -- | -- | -- | 82 4/ | -- |
| Mexico | 5 4/ | -- | -- | 5 | 1,770 | 311 |
| New Zealand | -- | -- | -- | -- | 155 | -- |
| Singapore | -- | -- | -- | -- | 92 | -- |
| South Africa | -- | -- | -- | -- | -- | 105 |
| Spain | -- | -- | -- | -- | 1,270 | -- |
| Taiwan | -- | -- | -- | -- | 75 | -- |
| United Kingdom | -- | -- | -- | -- | 514 4/ | 3,180 |
| Other | -- | -- | -- | -- | 159 4/ | 1,500 |
| Total | 5 | -- | -- | 5 | 10,300 | 136,000 |
| Year to date | 26,600 | -- | -- | 26,600 | 90,000 | 826,000 |

-- Zero.

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

2/ Containing 99.5% or more by weight of silver. Imports only.

3/ Semimanufactured (including silver plated with gold or platinum) forms of silver.

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

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF PLATINUM-GROUP METALS 1/

(Kilograms of metal content, unless otherwise specified)

| Period and country | Platinum grain and nuggets | Platinum sponge | Other unwrought platinum | Platinum, other | Platinum waste and scrap | Platinum coins | Unwrought palladium | Palladium, other | Iridium 2/ | Unwrought osmium | Unwrought ruthenium | Rhodium 3/ |
|--------------------|----------------------------|-----------------|--------------------------|-----------------|--------------------------|----------------|---------------------|------------------|------------|------------------|---------------------|------------|
| 1999 | 6,100 | 78,300 | 7,820 | 16,500 | 19,700 | r/ 169 | 165,000 | 24,100 | r/ 2,260 | 23 | 11,400 | 10,500 |
| 2000: | | | | | | | | | | | | |
| April | 96 | 6,240 | 127 | 611 | 141 | 3 | 14,100 | 467 | 61 | -- | 1,540 | 651 |
| May | 47 | 5,490 | 298 | 631 | 273 | 4 | 11,500 | 3,020 | 166 | -- | 1,470 | 1,330 |
| June: | | | | | | | | | | | | |
| Australia | -- | -- | -- | -- | -- | 2 | -- | -- | -- | -- | -- | -- |
| Austria | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 123 |
| Belgium | -- | 62 | -- | -- | -- | -- | 593 | -- | -- | -- | -- | 2 5/ |
| Brazil | -- | -- | -- | -- | -- | 29 | -- | -- | -- | -- | -- | 3 |
| Canada | 3 | -- | -- | 46 | 19 | -- | 284 | 2 5/ | -- | -- | -- | -- |
| China | -- | -- | -- | -- | -- | -- | 131 | -- | -- | -- | -- | 6 |
| Colombia | -- | -- | 11 | -- | (4/) | -- | -- | -- | -- | -- | -- | -- |
| Costa Rica | -- | -- | -- | -- | 34 | -- | -- | -- | -- | -- | -- | -- |
| Dominican Republic | -- | -- | -- | -- | 1 | -- | -- | -- | -- | -- | -- | -- |
| France | -- | -- | -- | 1 | 16 | -- | -- | -- | 1 | -- | -- | -- |
| Germany | 232 | 153 | 36 | 64 | -- | -- | 113 | 166 | 4 | -- | 80 | 19 |
| Honduras | -- | -- | -- | -- | -- | -- | 1 | -- | -- | -- | -- | -- |
| Hong Kong | -- | -- | -- | -- | 25 | -- | -- | -- | -- | -- | -- | -- |
| Ireland | -- | -- | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- |
| Israel | -- | -- | 32 | -- | -- | -- | 2 5/ | -- | -- | -- | -- | -- |
| Italy | -- | 17 | -- | -- | -- | -- | 90 | (4/) | 5/ 1 | -- | -- | -- |
| Japan | -- | 119 | 8 | -- | -- | -- | 310 | 8 5/ | -- | -- | -- | -- |
| Korea, Republic of | -- | -- | -- | 1 | -- | -- | -- | -- | -- | -- | -- | -- |
| Mexico | -- | -- | -- | -- | 30 | -- | -- | -- | -- | -- | -- | -- |
| Netherlands | -- | -- | -- | 2 | -- | -- | -- | -- | -- | -- | -- | -- |
| Norway | -- | 16 | -- | -- | -- | -- | 175 | -- | -- | -- | -- | -- |
| Peru | -- | -- | -- | -- | 1 | -- | -- | -- | -- | -- | -- | -- |
| Russia | -- | -- | 4 | -- | -- | -- | 5,700 | 1,990 | -- | -- | -- | 1 |
| Singapore | -- | -- | -- | -- | -- | -- | -- | 1 | -- | -- | -- | -- |
| South Africa | 281 | 4,130 | 31 | -- | -- | -- | 2,100 | 149 | 56 5/ | -- | 522 | 691 |
| Spain | -- | -- | -- | 63 | -- | -- | -- | -- | -- | -- | -- | -- |
| Switzerland | -- | -- | 719 | 54 | -- | -- | 1,110 | 19 5/ | -- | -- | -- | -- |
| Taiwan | -- | -- | 1 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| United Kingdom | 16 5/ | 506 | -- | 118 | 1 | -- | 1,970 | -- | 8 | -- | 110 5/ | 393 |
| Total | 532 | 5,000 | 842 | 351 | 127 | 31 | 12,600 | 2,340 | 71 | -- | 712 | 1,240 |
| Year to date | 1,230 | 34,800 | 1,670 | 3,180 | 10,400 | 19 | 73,600 | 20,200 | 1,320 | 23 | 8,300 | 9,960 |

r/ Revised. -- Zero.

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

2/ Unwrought and other forms of iridium.

3/ Unwrought and other forms of rhodium.

4/ Less than 1/2 unit.

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

Source: U.S. Census Bureau.

TABLE 7
U.S. EXPORTS OF PLATINUM GROUP METALS 1/

(Kilograms of metal content, unless otherwise specified)

| Period and country | Palladium 2/ | Platinum 2/ | Platinum waste and scrap | Iridium, osmium and ruthenium 2/ 3/ | Rhodium 2/ |
|----------------------|--------------|-------------|--------------------------|-------------------------------------|------------|
| 1999 | 43,800 | 19,400 | 7,660 | 851 | 114 |
| 2000: | | | | | |
| April | 4,600 | 830 | 180 | 44 | 91 |
| May | 2,700 | 977 | 893 | 145 | 5 |
| June: | | | | | |
| Argentina | -- | (4/) | -- | -- | -- |
| Australia | 22 | 158 | -- | -- | -- |
| Austria | -- | 10 | -- | -- | -- |
| Belarus | 27 | -- | -- | -- | -- |
| Belgium | 102 | 13 | 9 | 2 | -- |
| Bermuda | -- | 2 | -- | -- | -- |
| Brazil | -- | 55 | -- | -- | -- |
| Canada | 786 5/ | 209 | 28 | 7 | (4/) 5/ |
| Chile | -- | 1 | -- | -- | -- |
| China | 168 5/ | (4/) | -- | -- | (4/) |
| Denmark | 5 | (4/) | -- | -- | -- |
| Dominican Republic | -- | 1 | -- | -- | -- |
| Finland | 2 | 3 | -- | -- | -- |
| France | 9 5/ | 147 | -- | -- | -- |
| French Polynesia | 1 | -- | -- | -- | -- |
| Germany | 275 | 113 | 347 | 3 5/ | (4/) 5/ |
| Haiti | 3 | -- | -- | -- | -- |
| Hong Kong | 16 5/ | 3 5/ | -- | -- | -- |
| Iceland | 2 5/ | -- | -- | -- | -- |
| Ireland | -- | 8 | -- | 5 | -- |
| Israel | 597 5/ | -- | -- | -- | -- |
| Italy | 43 | 12 5/ | 27 | 7 | -- |
| Japan | 1,590 | 510 5/ | 83 | 62 | 4 |
| Korea, Republic of | 2,970 | 93 | -- | -- | 52 |
| Kuwait | -- | 2 | -- | -- | -- |
| Malaysia | 2 | -- | -- | -- | -- |
| Mexico | 2 | 15 5/ | -- | -- | -- |
| Netherlands | 36 | 5 | -- | 1 | -- |
| New Zealand | 7 | 3 | -- | -- | -- |
| Philippines | -- | 3 | -- | -- | -- |
| Saudi Arabia | -- | 4 | -- | -- | -- |
| Singapore | 1 | -- | -- | -- | -- |
| Slovenia | 17 | -- | -- | -- | -- |
| South Africa | 200 | -- | -- | -- | -- |
| Spain | 20 | 118 | -- | -- | -- |
| Sweden | 22 | 8 | 2 | -- | -- |
| Switzerland | 13 | 115 | 6 | -- | -- |
| Taiwan | 293 | 127 | -- | -- | -- |
| Thailand | 2 | 5 5/ | -- | -- | -- |
| Turkey | (4/) | -- | -- | -- | -- |
| United Arab Emirates | 3 | -- | -- | -- | -- |
| United Kingdom | 849 5/ | 3,220 | 627 | 16 | 8 |
| Total | 8,080 | 4,960 | 1,130 | 102 | 64 |
| Year to date | 27,400 | 16,300 | 3,910 | 621 | 382 |

-- Zero.

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

2/ Unwrought and other forms.

3/ Gross weight.

4/ Less than 1/2 unit.

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

Source: U.S.Census Bureau.