

Mineral Industry Surveys

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PRECIOUS METALS IN FEBRUARY 2001

U.S. mines produced 25,000 kilograms (kg) of gold and 129,000 kg of silver in February 2001. Compared with January 2001, production of gold was down 6% and 19% in California and Nevada, respectively, and silver production was up 6% in Nevada.

Gold

Domestic.—Golden Phoenix Minerals, Inc. poured its first doré bar at its recently acquired Mineral Ridge gold mine in Esmeralda County, Nevada. Production came from rinsing of gold ore on the mine's leach pads as required for cleanup of the processing plant under a current operating permit from the Nevada Department of Environmental Protection. Normal circulation of the rinsing solutions produced about 5 kg (150 troy ounces) of gold per month (The Mining Record, 2001). Newmont Mining Corp. signed a letter of intent with El Paso Merchant Energy Co., a subsidiary of El Paso Corp., to negotiate a 15-year power purchase agreement for 150 megawatts (MW) of a proposed 480-MW power plant near Carlin, Nevada. Newmont uses 175 MW of power per year, getting 110 MW from Sierra Pacific Resources (American Metal Market, 2001).

International.—Glamis Gold Ltd. reported that it started commercial production at its new San Martin gold mine in Honduras. The mine produced about 340 kg (10,900 ounces) of gold in January 2001 and is expected to produce over 3,500 kg (113,000 ounces) of gold in 2001 (Platts Metals Week, 2001b). World gold demand set a new quarterly record during the fourth quarter of 2000. The demand for gold was 894,300 kg, up 11% from the fourth quarter of 1999 and 2% higher than the previous record set in the third quarter of 1999. Demand for gold jewelry was 792,700 kg, 12% higher than in the fourth quarter of 1999. Investment demand for gold was 101,700 kg, 4% higher than in the fourth quarter of 1999. However, investment demand for

2000 as a whole was 21% below the exceptional demand recorded in 1999 when fears of Y2K disruption boosted investments in gold (World Gold Council, 2001).

The London Bullion Market Association's gold clearing statistics registered significant declines in January. Gold transfers were down about 17% in comparison with those of the preceding month, decreasing to a daily average of 19.7 million ounces (613,000 kg). The daily average number of gold transfers dropped from 833 to 730. In addition, the quantity of gold transferred in January 2001 was about 11% less than that of January 2000 (Platts Metals Week, 2001c).

Silver

Idaho-based Coeur d'Alene Mines sold its 50% stake in Gasgoyne Gold Mines of Australia for \$15.6 million to Sons of Gwalia. Also included in the sale was Coeur's share of Gasgoyne's gold hedge position of about 2,800 kg as well as its exploration properties across Australia. According to Coeur, the sale will allow the company to focus on its core business of silver mining and exploration, starting with a 1,220-meter drilling program underway at the Rochester Mine in Nevada. Coeur is also completing development of the Silver Valley operations in northern Idaho and feasibility studies at the San Bartolome project in Bolivia (Northern Miner, 2001).

Platinum-Group Metals

News of impending Russian exports of palladium and the daily offerings of the metal by the U.S. Defense Logistics Agency's National Defense Stockpile caused prices to plunge during the week of February 19. Palladium prices, which had been rising rapidly in recent months, fell \$129 for the week to \$851 per troy ounce (ounce) at the London PM Fix on February 23. The NYMEX (New York Mercantile Exchange) nearby March palladium futures contract fell \$119 to \$855 per ounce

during the same period. Palladium futures on the TOCOM (Tokyo Commodities Exchange) fell by their daily permissible limits on February 23 for the second consecutive day. The TOCOM spot palladium contract fell \$214 (\$1.85) to \$3,435 (\$29.66) per gram (g) and the more active December contract fell \$120 to \$3,305 per g. According to trade sources, the selling was mainly by speculators who had accumulated substantial long positions with expectations of prolonged delays in Russian exports (Platts Metals Week, 2001d).

Anglo American Platinum Corp. reported that it plans to build a new \$160 million smelter in South Africa by early 2003 as it prepares to increase PGM production to 108,900 kilograms (kg) per year by 2006. The smelter will be built in the Pietersburg area and Anglo expects to complete the project within 22 months, subject to expedient completion of an environmental impact assessment and successful conclusion of utility supply contracts. Anglo Platinum reported earlier in 2001 that its Maandagshoek Mine, expected to produce 5,040 kg per year of PGM and costing \$160 million, will start operating in 2004 (Platts Metals Week, 2001a).

The removal of lead (Pb) from electronic components has become a new consideration for the adaptation of palladium leadframe (metal frame around which integrated circuits are fabricated) finishes. In particular, the palladium leadframe plating process has been found to reduce workplace health and safety concerns and decrease waste disposal. Palladium-plated leadframe technology began in the 1980s, primarily to reduce manufacturing steps in integrated circuit (IC) assembly; a single plating process can be used to insure good die attachment and wire bonding, reduce lead corrosion, and enhance solderability

to a printed circuit board. The initial applications were for low pin-count, surface mounted ICs as well as some selected through-hole components. There are many different ways in which palladium may be used as a leadframe plating material. Nickel-palladium plating, such as palladium over nickel over copper, is the most fundamental structure. Usually, a top layer of palladium with a thickness ranging from 0.025 to 0.127 micrometers protects the underlaying nickel from corrosion. During the solder reflow process, the palladium dissolves into the solder, and solder joints are intermetallically bound with underlaying nickel plate (Advanced Packaging, 2001).

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 ${\bf TABLE~1}$ MINE PRODUCTION OF RECOVERABLE GOLD AND SILVER IN THE UNITED STATES, BY STATE 1/

(Kilograms)

February 1,440 1,290 17,900 4,320 25,000 January-February 2,880 2,660 39,900 8,810 54,200 Other Silver Arizona Idaho Nevada States 3/ Total 2000: p/ 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 71,200 162,000 August W 34,800 53,100 73,200 161,000 September W 34,500 53,700 69,500 158,000 October W 34,500 56,700 64,300 156,000 Novemb					Other	
February 1,140 1,390 21,700 4,030 28,300 March 1,200 1,390 22,600 4,400 29,600 April 1,190 1,280 21,400 4,240 28,100 May 1,190 1,360 19,500 4,540 26,600 June 1,190 1,470 21,400 4,710 28,800 June 1,460 1,470 18,900 4,410 26,300 August 1,460 1,470 18,900 4,410 26,300 September 1,510 1,460 22,200 3,900 29,100 Cotober 1,510 1,360 19,000 5,680 27,600 November 1,020 1,170 19,100 5,900 24,700 December 1,440 1,170 23,000 4,450 30,100 January-December 14,400 1,370 7 22,000 5,100 308,000 2001: January 1,440 1,370 7 22,000 7 4,490 7 29,300 February 1,440 1,290 17,900 4,320 25,000 March March W 34,300 63,100 69,900 167,000 March W 34,300 71,000 75,000 180,000 May W 34,300 57,500 72,900 165,000 May W 34,300 57,500 73,400 182,000 May W 34,300 57,500 73,400 182,000 May W 34,300 57,500 73,400 163,000 May W 34,300 57,500 73,400 163,000 May W 34,300 57,500 73,400 163,000 May W 34,500 56,700 71,200 165,000 May W 34,500 56,700 71,200 165,000 May W 34,500 56,700 71,200 165,000 50,000		Alaska	California	Nevada	States 2/	Total
March 1,200 1,390 22,600 4,400 29,600 April 1,190 1,280 21,400 4,240 28,100 May 1,190 1,360 19,500 4,540 26,600 June 1,190 1,470 21,400 4,710 28,800 July 1,460 1,470 18,900 4,410 26,300 August 1,460 1,400 20,800 4,810 28,500 September 1,510 1,360 19,000 5,680 27,600 October 1,510 1,360 19,000 5,680 27,600 November 1,020 1,170 19,100 5,900 24,700 December 1,440 1,170 23,000 4,450 30,100 January-December 1,440 1,370 r/ 22,000 r/ 4,490 r/ 29,300 r/ February 1,440 1,370 r/ 22,000 r/ 4,490 r/ 29,300 r/ February 4,410 1,	2000: p/					
April	February		1,390	,	,	28,300
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June 1,190 1,470 21,400 4,710 28,800 July 1,460 1,470 18,900 4,410 26,300 August 1,460 1,400 20,800 4,810 28,500 September 1,510 1,460 22,200 3,900 29,100 October 1,510 1,360 19,000 5,680 27,600 November 1,020 1,170 19,100 5,900 24,700 December 1,440 1,170 23,000 4,450 30,100 January-December 1,440 1,370 r/ 22,000 r/ 4,490 r/ 29,300 r. February 1,440 1,290 17,900 4,320 25,000 January-February 2,880 2,660 39,900 8,810 54,200 February W 34,300 63,100 69,900 167,000 March W 34,300 71,000 75,000 180,000 April W 34,300	April	1,190	1,280		4,240	28,100
July	May	1,190	1,360	19,500	4,540	26,600
August	June	1,190	1,470	21,400	4,710	28,800
September 1,510 1,460 22,200 3,900 29,100 October 1,510 1,360 19,000 5,680 27,600 November 1,020 1,170 19,100 5,900 24,700 December 1,440 1,170 23,000 4,450 30,100 January-December 14,300 14,900 230,000 5,100 308,000 2001: January 1,440 1,370 r/ 22,000 r/ 4,490 r/ 29,300 r/ 29,300 r/ February 1,440 1,290 17,900 4,320 25,000 January-February 2,880 2,660 39,900 8,810 54,200 February W 34,300 71,900 4,320 25,000 March W 34,300 71,000 75,000 167,000 March W 34,300 71,000 75,000 180,000 May W 34,300 73,800 73,400 182,000 Jul	July	1,460	1,470	18,900	4,410	26,300
October 1,510 1,360 19,000 5,680 27,600 November 1,020 1,170 19,100 5,900 24,700 December 1,440 1,170 23,000 4,450 30,100 January-December 14,300 14,900 230,000 51,100 308,000 2001: January 1,440 1,370 r/ 22,000 r/ 4,490 r/ 29,300 r/ February 1,440 1,290 17,900 4,320 25,000 January-February 2,880 2,660 39,900 8,810 54,200 Silver Arizona Idaho Nevada States 3/ Total 2000: p/ February W 34,300 63,100 69,900 167,000 March W 34,300 71,000 75,000 180,000 April W 34,300 73,800 73,400 182,000 June W 34,200 59,800 74,500 168,000 <tr< td=""><td>August</td><td>1,460</td><td>1,400</td><td>20,800</td><td>4,810</td><td>28,500</td></tr<>	August	1,460	1,400	20,800	4,810	28,500
November 1,020 1,170 19,100 5,900 24,700 December 1,440 1,170 23,000 4,450 30,100 January-December 14,300 14,900 230,000 51,100 308,000 2001: January 1,440 1,370 r/ 22,000 r/ 4,490 r/ 29,300 r/ February 1,440 1,290 17,900 4,320 25,000 January-February 2,880 2,660 39,900 8,810 54,200 February W 34,300 63,100 69,900 167,000 March W 34,300 71,000 75,000 180,000 April W 34,300 73,800 73,400 182,000 June W 34,200 59,800 74,500 168,000 July W 34,200 59,800 74,500 162,000 August W 34,500 53,700 69,500 158,000 October <	September	1,510	1,460	22,200	3,900	29,100
December 1,440 1,170 23,000 4,450 30,100 January-December 14,300 14,900 230,000 51,100 308,000 2001: January 1,440 1,370 r/ 22,000 r/ 4,490 r/ 29,300 r/ February 1,440 1,290 17,900 4,320 25,000 January-February 2,880 2,660 39,900 8,810 54,200 December Arizona Idaho Nevada States 3/ Total 2000: p/ 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 Jule W 34,200 59,800 74,500 168,000 July W 34,200 56,700 71,200 162,000	October	1,510	1,360	19,000	5,680	27,600
January-December 14,300 14,900 230,000 51,100 308,000 2001: January 1,440 1,370 r/ 22,000 r/ 4,490 r/ 29,300 r/ 2000 r/ 4,490 r/ 29,300 r/ 25,000 25,000 39,900 8,810 54,200 54,2	November	1,020	1,170	19,100	5,900	24,700
Danuary	December	1,440	1,170	23,000	4,450	30,100
January	January-December	14,300	14,900	230,000	51,100	308,000
February 1,440 1,290 17,900 4,320 25,000 January-February 2,880 2,660 39,900 8,810 54,200 Other Silver Arizona Idaho Nevada States 3/ Total 2000: p/ 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 59,800 74,500 162,000 August W 34,800 53,100 73,200 161,000 September W 34,500 53,700 69,500 158,000 October W 34,500	2001:					
January-February 2,880 2,660 39,900 8,810 54,200	January	1,440	1,370 r/	22,000 r/	4,490 r/	29,300 r/
Silver Arizona Idaho Nevada States 3/ Total 2000: p/ 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 71,200 162,000 August W 34,800 53,100 73,200 161,000 September W 34,500 53,700 69,500 158,000 October W 34,500 56,700 64,300 156,000 November W 34,500 56,700 64,300 156,000 December W 34,500 60,000 58,700 153,000 January-December W 34,400	February	1,440	1,290	17,900	4,320	25,000
Silver Arizona Idaho Nevada States 3/ Total 2000: p/ 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 71,200 162,000 August W 34,800 53,100 73,200 161,000 September W 34,500 53,700 69,500 158,000 October W 34,500 45,900 66,000 146,000 November W 34,500 56,700 64,300 156,000 December W 34,500 56,700 69,000 18,000 January-December W 378,000 651,000 769,000 1,800,000 2001: January January W 34,400 41,200 r/ 68,600 146,000 r/ 68,600 129,000	January-February	2,880	2,660	39,900	8,810	54,200
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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 71,200 162,000 August W 34,800 53,100 73,200 161,000 September W 34,500 53,700 69,500 158,000 October W 34,500 45,900 66,000 146,000 November W 34,500 56,700 64,300 156,000 December W 34,500 60,000 58,700 153,000 January-December W 378,000 651,000 769,000 1,800,000 2001: January W 34,400 41,200 r/ 68,600 146,000 r/ February W 34,400 27,500 66,700 129,000	March	W	34,300	71,000	75,000	180,000
June W 34,200 59,800 74,500 168,000 July W 34,200 56,700 71,200 162,000 August W 34,800 53,100 73,200 161,000 September W 34,500 53,700 69,500 158,000 October W 34,500 45,900 66,000 146,000 November W 34,500 56,700 64,300 156,000 December W 34,500 60,000 58,700 153,000 January-December W 378,000 651,000 769,000 1,800,000 2001: January W 34,400 41,200 r/ 68,600 146,000 r/ February W 34,400 27,500 66,700 129,000	April	W	34,300	57,500	72,900	165,000
July W 34,200 56,700 71,200 162,000 August W 34,800 53,100 73,200 161,000 September W 34,500 53,700 69,500 158,000 October W 34,500 45,900 66,000 146,000 November W 34,500 56,700 64,300 156,000 December W 34,500 60,000 58,700 153,000 January-December W 378,000 651,000 769,000 1,800,000 2001: January W 34,400 41,200 r/ 68,600 146,000 r/ February W 34,400 27,500 66,700 129,000	May	W	34,300	73,800	73,400	182,000
August W 34,800 53,100 73,200 161,000 September W 34,500 53,700 69,500 158,000 October W 34,500 45,900 66,000 146,000 November W 34,500 56,700 64,300 156,000 December W 34,500 60,000 58,700 153,000 January-December W 378,000 651,000 769,000 1,800,000 2001: January W 34,400 41,200 r/ 68,600 146,000 r/ February W 34,400 27,500 66,700 129,000	June	W	34,200	59,800	74,500	168,000
September W 34,500 53,700 69,500 158,000 October W 34,500 45,900 66,000 146,000 November W 34,500 56,700 64,300 156,000 December W 34,500 60,000 58,700 153,000 January-December W 378,000 651,000 769,000 1,800,000 2001: January W 34,400 41,200 r/ 68,600 146,000 r/ February W 34,400 27,500 66,700 129,000	July	W	34,200	56,700	71,200	162,000
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October W 34,500 45,900 66,000 146,000 November W 34,500 56,700 64,300 156,000 December W 34,500 60,000 58,700 153,000 January-December W 378,000 651,000 769,000 1,800,000 2001: January W 34,400 41,200 r/ 68,600 146,000 r/ February W 34,400 27,500 66,700 129,000	September	W	34,500	53,700	69,500	158,000
December W 34,500 60,000 58,700 153,000 January-December W 378,000 651,000 769,000 1,800,000 2001: January W 34,400 41,200 r/ 68,600 146,000 r/ February W 34,400 27,500 66,700 129,000	October	W	34,500	45,900	66,000	146,000
January-December W 378,000 651,000 769,000 1,800,000 2001: January W 34,400 41,200 r/ 68,600 146,000 r/ February W 34,400 27,500 66,700 129,000	November	W	34,500	56,700	64,300	156,000
2001: January W 34,400 41,200 r/ 68,600 146,000 r/ February W 34,400 27,500 66,700 129,000	December	W	34,500	60,000	58,700	153,000
2001: January W 34,400 41,200 r/ 68,600 146,000 r/ February W 34,400 27,500 66,700 129,000	January-December	w	378,000	651,000	769,000	
February W 34,400 27,500 66,700 129,000		_				
February W 34,400 27,500 66,700 129,000		W	34,400	41,200 r/	68,600	146,000 r/
January-February W 68.800 68.800 135.000 275.000					,	,
		W				

p/ Preliminary. r/ Revised. 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
Engelhard Industries:				
2000:				
Low/date	264.90 (October 27)	4.59 (December 19)	416.00 (January 6)	437.00 (January 6)
High/date	313.88 (February 7)	5.53 (February 7)	625.00 (December 13	
			and 28)	985.00 (December 27)
Average	280.10	5.00	549.31	691.84
2001:				
January:				
Low/date	263.95/29	4.53/3	607.00/31	973.30/2
High/date	272.21/2	4.87/30	645.00/10 and 15	1,100.00/26
Average	266.59	4.70	625.50	1,054.60
February:				
Low/date	257.34/20	4.44/21	596.00/12 and 13	850.00/28
High/date	269.41/27	4.79/1	615.00/28	1,090.00/5
Average	263.09	4.57	604.84	984.37
March:				
Low/date	261.24/28	4.30/16	567.00/30	744.00/30
High/date	273.61/12	4.51/9	607.00/1	830.00/8 and 9
Average	264.13	4.40	587.82	790.55
Year to date:				
Low/date	257.34 February 20	4.30 March 16	567.00 March 30	744.00 March 30
High/date	273.61 March 12	4.87 January 30	645.00 January 10 and 15	1,100.00 January 26
Average	264.60	4.56	596.33	887.46
Handy and Harman:				
2000	278.96	5.00	XX	XX
2001:				
January	265.58	4.70	XX	XX
February	261.99	4.57	XX	XX
March	263.03	4.40	XX	XX
Average year to date	263.53	4.56	XX	XX
London Final: 1/				
2000	279.04	4.95	XX	XX
2001:				
January	265.49	4.66	XX	XX
February	261.87	4.55	XX	XX
March	263.03	4.40	XX	XX
Average year to date	263.46	4.54	XX	XX
XX Not applicable				

XX Not applicable.

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

Source: Platts Metals Week.

$\label{eq:table 3} \textbf{U.S. IMPORTS AND EXPORTS OF GOLD 1/}$

(Kilograms of gold content, unless otherwise specified)

	Ores and	Doré and	Refined	Ash and		Waste and scrap	Metal powder	Gold compounds
Period and country	concentrates 2/	precipitates	bullion 3/	residues	Total 4/	(gross weight)	(gross weight)	(gross weight)
Imports for consumption:								
2000:								
November	1	5,220	18,200	24	23,500	1,650	1,170	208
December	1	6,920	14,600	1	21,600	12,900	614	123
Year	65	39,000	184,000	60	223,000	29,800	6,720	7,970
2001:								
January:								
Bolivia		14	101		116			
Brazil			5,750		5,750			210
Canada		40	9,890		9,930	1,780	754	
Chile		55	450		505			
Colombia		114	319		433			
Dominican Republic						280	1	
Honduras		226			226			
Mexico		208	21	1	229	70		
Nicaragua		58		1 5/	59			
Panama			3		3	119		
Peru		574			574	6		
Other	2	56	252		310	219	41 5/	12 5/
Total	2	1,350	16,800	2	18,100	2,470	799	222
Exports:								
2000:								
November	41	8,900	46,100		55,100	5,140	16	183,000
December		8,580	50,100		58,600	5,270	29	31,900
Year	745	106,000	440,000		547,000	64,100	1,130	1,390,000
2001:								
January:								
Belgium						180		
Canada		377	27		404	2,620	6	127,000 5/
Dominican Republic								502 5/
France							2	3 5/
Germany	41	2	6		49	14	3	
Israel		51	1		52		1	31,000 5/
Korea, Republic of							3	6 5/
Mexico			1,490		1,490			
Peru			469		469			
Portugal							1	
Switzerland		4,360	40,100		44,500			
Taiwan								258
United Kingdom			1,280 5	5/	1,280	1,470	5	1
Other		17	64		81	23		104 5/
Total	41	4,810	43,400		48,300	4,310	19	159,000
Zero.	7.1	.,010	.5,.00		. 5,2 5 6	.,510		-57,000

⁻⁻ 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/ &}quot;Waste and scrap," "Metal powder," and "Gold compounds" not included in "Total."

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

 ${\bf TABLE~4} \\ {\bf U.S.~IMPORTS~AND~EXPORTS~OF~SILVER,~REFINED~AND~AS~NITRATE~1/}$

(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:	(SHVEL COHLEIL)	(sirver content)	(sirver content)	(gross weight)	(gross weight)	(gross weight)
2000:	_					
November	227,000	810	228,000	30,200	14,000	4,460
December	232,000	3,720	235,000	18,500	17,100	683
Year	3,810,000	73,900	3,880,000	204,000	235,000	24,200
2001:		73,700	2,000,000	201,000	200,000	21,200
January:	<u> </u>					
Belgium			15			4,320
Canada	124,000 2/		124,000	3,070 2/		
Chile	2,500	5,590	8,090			
France					172	
Japan					6,200 2/	
Mexico	134,000		134,000	9,390		
Peru	7,070		7,070	,		
United Kingdom		7,270	7,270			
Total	268,000	12,900	281,000	12,500	6,380	4,320
Exports:	_					
2000:	_					
November	21,900	1,160	23,100	3,930	37,500	16,400
December	6,350	1,020	7,370	1,550	28,600	11,400
Year	279,000	36,000	315,000	57,500	424,000	217,000
2001:						
January:	_					
Austria					411	
Belgium					80	
Canada	51		51	210	2,110	15,100
China					1,190	
Colombia	<u> </u>			31	167	
Dominican Republic				262		
Finland					130	
France				50	1,080	
Germany					3,470	
Japan					1,920 2/	
Korea, Republic of					1,290	
Mexico	4,500		4,500		1,040	653
Netherlands				71	176	
Sweden					347	
Switzerland	<u> </u>	273	273		45	
Taiwan					2,060 2/	281
United Kingdom	19,200 2/	146	19,300		479 2/	
Uruguay	1,560		1,560			
Other				56	13	
Total	25,300	420	25,700	681	16,000	16,000

⁻⁻ Zero.

 $^{1/\,\}mbox{Data}$ 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.

${\it TABLE~5}\\ {\it U.S.~IMPORTS~AND~EXPORTS~OF~SILVER, RAW, SEMIMANUFACTURED, AND~WASTE~AND~SCRAP~1/2}}$

(Kilograms of silver content, unless otherwise specified)

	Silver ores and	Base metal ores and	Ash and		Semimanu- factured form 2/3/	Waste and scrap
Period and country	concentrates	concentrates	residues	Total	(gross weight)	(gross weight)
Imports for consumption:						
2000:			2010	2010	< 0.70	4.5.000
November			3,940	3,940	6,050	45,800
December			8,890	8,890	22,500	60,400
Year	1,420		55,800	57,200	139,000	1,130,000
2001:						
January:	•					
Australia			152	152		4
Brazil					802	
Canada			983	983	195	8,310
Dominican Republic						53
France					40	1,630
Germany					3,570	19,300
India					96	
Japan			(4/)	(4/)	78	9
Korea, Republic of					767	36
Malaysia						7,790
Mexico			378	378	202	1,510
Philippines						934
Singapore						371
United Kingdom			812	812	235	620
Other					22	86
Total			2,330	2,330	6,010	40,700
Exports:						
2000:						
November					6,680	162,000
December	823			823	13,800	139,000
Year	65,100			65,100	148,000	1,670,000
2001:						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
January:						
Armenia						2,770
Belgium					88	15,700
Brazil					51 5/	
Canada					2,710	37,900
China					347	16,200
France					698 5/	10,200
Germany					968 5/	10,700
Hong Kong					435	10,700
	. 				188	
Italy						22,400
Japan P. Hi. C.					4,770 5/	1.060
Korea, Republic of					128	1,860
Mexico	671			671	643 5/	8
Netherlands					513	
Singapore					161 5/	416
South Africa						1,080
Spain					1,120 5/	
Sweden						1,510
Switzerland					11	2,620
Taiwan					811	
Trinidad and Tobago					72	
United Kingdom					222 5/	6,380
Other					65 5/	=
Total	671			671	14,000	119,000

⁻⁻ 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/} Less than 1/2 unit.

 $^{5/\,}All$ or part of these data have been referred to the U.S. Census Bureau for verification.

 ${\bf TABLE~6}$ U.S. IMPORTS FOR CONSUMPTION OF PLATINUM-GROUP METALS 1/

(Kilograms of metal content, unless otherwise specified)

	Platinum		Other		Platinum							
	grain and	Platinum	unwrought	Platinum,	waste and	Platinum	Unwrought	Palladium,		Unwrought	Unwrought	
Period and country	nuggets	sponge	platinum	other	scrap	coins	palladium	other	Iridium 2/	osmium	ruthenium	Rhodium 3/
2000:												
November	46	4,670	366	434	315	(4/)	19,500	319	180		606	996
December	60	4,840	222	687	264		12,900	639	307	31	1,030	2,200
Year	2,550	68,000	3,870	7,480	12,100	27	154,000	27,900	2,700	133	20,800	18,200
2001:												
January:												
Australia					175							
Belgium		246					747	300				226
Brazil					84							
Canada			1	76	103	5	388					
China							61					
Colombia			13		(4/)							
Costa Rica					12							
France					5							
Germany	20	395	8	186	59		103	90	1			8
Hong Kong							406					
India												
Israel			86									
Italy		188 5/	(4/)				104	70				
Japan		3		1			1,030 5/	71 5/	·			1
Korea, Republic of					1		32					
Malaysia					2							
Mexico			2		14							
Netherlands				(4/)								
Norway		16					30					
Peru					(4/)							
Russia		298	3				27,200 5/	374				2
Singapore								4				
South Africa	93	4,940	8		106		1,540	49 5/	66	28	604	594
Spain				26								
Sweden							102					
Switzerland			3	49			2,180	183 5/				2
United Kingdom		2,240	20	58	20		3,010	371	100			81
Total	113	8,320	144	397	581	5	36,900	1,510	167	28	604	914

⁻⁻ 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.

${\it TABLE~7} \\ {\it U.S.~EXPORTS~OF~PLATINUM~GROUP~METALS~1/}$

(Kilograms of metal content, unless otherwise specified)

			Platinum waste and	Iridium, osmium and	
Period and country	Palladium 2/	Platinum 2/	scrap	ruthenium 2/3/	Rhodium 2/
2000:					
November	6,360	1,690	630	137	58
December		850	685	139	77
Year	58,600	25,000	7,360	1,480	797
2001:	_				
January:	_				
Australia	19	15			
Austria	_	3			
Belgium	308 4/	1	6		
Brazil		349			
Canada	176	83	33	88	(5/)
Cayman Islands		2			
Chile	10 4/				
China		(5/)			
Cyprus	1	1 4/			
Denmark	6	2 4/		2	
Finland	1	1			
France	211 4/	26			
Germany	806 4/	921	758	1	46
Greece	2 4/				
Haiti	_ 2				
Hong Kong	 16	2		1	(5/)
Iceland	2 4/				
India					(5/)
Ireland	 1 4/	2			
Israel	(5/) 4/	(5/)			
Italy	_ 51	19	1		
Japan	1,110 4/	283		55	47
Korea, Republic of	- 1,110 4/ 205 4/	61	13		23
Kuwait		1			
Malaysia	-	2 4/			
Mexico	_ 2 4/	21			(5/)
Netherlands		1			(3/)
New Zealand	_ 3				
	$- \frac{3}{1}$				
Norway Philippines	_ 3 4/				
	_			 (5 h	
Romania				(5/)	
Saudi Arabia		1			
Singapore	8 4/	1 4/			
Slovenia	41				
South Africa			1		
Spain	13 4/	5 4/			
Sweden	35_4/	18 4/	(5/)		
Switzerland	4	18			
Taiwan	414 4/	18			
Thailand	_ 3	1			(5/)
Turkey					(5/)
United Arab Emirates	1				
United Kingdom	113 4/	415	194	80	1
Total	3,780	2,270	1,010	227	118

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

^{5/} Less than 1/2 unit.