



**U.S. Bureau of Mines**



# **MINERAL INDUSTRY SURVEYS**

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Platinum, Quarterly

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## **PLATINUM-GROUP METALS IN THE SECOND QUARTER 1989**

Second quarter platinum-group metals refinery production was essentially unchanged when compared with the first quarter data, but was 7% lower than the production reported for the second quarter of 1988, according to the Bureau of Mines, U.S. Department of the Interior. The decrease was primarily due to an approximately 50% drop in the recovery of platinum-group metals from nontoll sources. The recovery of platinum-group metals from toll material was essentially equivalent to the quantity recovered in the second quarter of 1988.

U.S. trade data for the first half of 1989 will be published in the next Mineral Industry Survey.

Table 1. - Platinum-group metals 1/ refined in the United States 2/  
(Kilograms)

Period	Platinum	Palladium	Iridium	Osmium	Rhodium	Ruthenium	Total
1988:							
Nontoll-refined:							
First quarter--	210	826	(3/)	---	26	---	1,063
Second quarter--	314	1,575	3	(3/)	45	(3/)	1,937
Third quarter--	309	1,040	1	(3/)	10	(3/)	1,360
Fourth quarter--	344	675	3	(3/)	29	1	1,052
Total 4/-----	1,178	3,793	6	---	104	2	5,084
Toll-refined:							
First quarter--	6,190	4,716	43	6	667	46	11,668
Second quarter--	5,474	5,406	37	1	568	252	11,737
Third quarter--	6,046	5,207	70	8	536	86	11,953
Fourth quarter--	5,229	4,683	102	---	525	111	10,649
Total 4/-----	22,884	20,923	252	19	1,826	499	46,403
1989:							
Nontoll-refined:							
First quarter--	279	638	2	---	17	1	937
Second quarter--	243	776	2	---	13	10	1,044
Toll-refined:							
First quarter--	6,164	4,973	128	1	443	45	11,754
Second quarter--	5,492	5,621	39	---	415	84	11,651

1/Typically, about 99.8% of the platinum and 99% of the palladium are secondary metal; the other metals are entirely secondary.

2/Data may not add to totals shown because of independent rounding.

3/ Less than 1/2 unit.

4/Includes data for companies reporting annually; quarterly figures not adjusted.

## Platinum & Palladium Production Toll-Refined Plus Nontoll-Refined

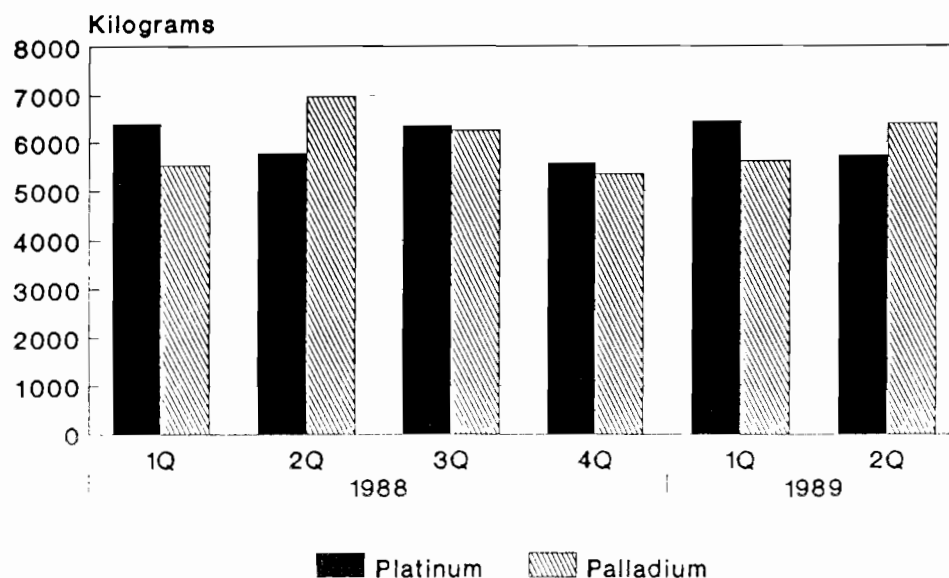


Table 2. - Stocks of platinum-group metals held by refiners, importers,  
and dealers in the United States 1/  
(Kilograms)

Period	Platinum	Palladium	Iridium	Osmium	Rhodium	Ruthenium	Total 2/
1988:							
Mar. 31-----	16,217	17,442	468	(3/)	839	623	35,590
June 30-----	16,040	18,084	480	2	928	946	36,481
Sept. 30-----	14,228	18,022	523	4	924	591	34,291
Dec. 31-----	18,249	15,510	428	8	1,070	615	35,881
Yearend 4/----	18,438	14,837	432	8	1,165	634	35,515
=====							
1989:							
Mar. 31-----	r/13,497	r/13,908	449	8	1,031	699	r/29,592
June 30-----	12,423	12,320	423	9	1,092	851	27,118

r/Revised.

1/Includes metals in depositories of the New York Mercantile Exchange; on June 30, 1989 this comprised 4,361 kilograms of platinum and 1,272 kilograms of palladium.

2/Data may not add to totals shown because of independent rounding.

3/Less than 1/2 unit.

4/Includes data from companies reporting annually; quarterly figures not adjusted.

Table 3. - Platinum-group metals sold to consuming industries in the United States 1/  
(Kilograms)

Period and industry	Platinum	Palladium	Iridium	Osmium	Rhodium	Ruthenium	Total
1988:							
Automotive 2/--	19,346	5,101	(3/)	---	2,084	---	26,532
Chemical-----	3,184	3,669	117	---	109	604	7,683
Dental and medical-----	581	6,622	2	21	2	3	7,231
Electrical-----	3,494	13,049	190	---	123	1,067	17,923
Glass-----	681	11	(3/)	---	85	1	779
Jewelry and decorative---	385	196	20	---	177	14	792
Petroleum-----	1,072	1,438	75	---	1	---	2,587
Miscellaneous--	2,383	4,156	89	2	710	132	7,471
Year-----	31,125	34,242	495	23	3,292	1,821	70,998
=====							
1989:							
First quarter:							
Automotive 2/--	r/5,179	1,337	---	---	r/552	---	r/7,068
Chemical-----	546	766	6	---	38	10	1,365
Dental and medical-----	181	2,121	7	17	---	3	2,329
Electrical-----	1,142	4,088	18	(3/)	20	575	5,843
Glass-----	571	171	---	---	101	(3/)	843
Jewelry and decorative---	136	518	2	---	41	(3/)	696
Petroleum-----	996	629	---	---	---	---	1,624
Miscellaneous--	835	991	17	---	177	26	2,046
Total-----	r/9,585	10,620	49	17	r/928	614	r/21,814
=====							
Second quarter:							
Automotive 2/--	5,319	1,369	---	---	560	---	7,248
Chemical-----	727	517	13	---	63	25	1,345
Dental and medical-----	117	2,116	---	13	---	5	2,251
Electrical-----	1,045	4,195	66	---	19	540	5,865
Glass-----	352	163	---	---	41	---	556
Jewelry and decorative---	90	525	1	---	40	2	658
Petroleum-----	882	230	---	---	---	---	1,112
Miscellaneous--	582	899	16	---	53	---	1,550
Total-----	9,113	10,014	96	13	776	572	20,584

r/Revised.

1/Data may not add to totals shown because of independent rounding.

2/Platinum, palladium, and rhodium sales to the automotive industry are estimated based on U.S. light truck sales and U.S. automobile production.

3/Less than 1/2 unit.

## Platinum & Palladium Consumption Sales to Industry

