



# Mineral Industry Surveys

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## PLATINUM-GROUP METALS IN NOVEMBER 2007

According to Platts Metals Week, the November average price of platinum increased 3% as compared with that of October, and the palladium average price decreased slightly over the same time period. The iridium price had not changed

since February 13, 2007, remaining at \$450 per troy ounce. The November average price of ruthenium decreased 7% as compared with that of October, and the rhodium average price increased 6% over the same time period.

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

(Dollars per troy ounce)

	Platinum	Palladium	Rhodium	Iridium	Ruthenium
<b>2006:</b>					
Low/date	985.00 Jan. 3	263.00 Jan. 5	3,000.00 Jan. <sup>2</sup>	195.00 Jan. <sup>2</sup>	87.00 Jan. <sup>2</sup>
High/date	1,360.00 Nov. 21	407.00 May 12	6,000.00 Dec. 19 and 20	400.00 May—Dec. <sup>2</sup>	400.00 Dec. 29
Average	1,144.42	322.93	4,561.06	349.45	193.09
<b>2007:</b>					
<b>September:</b>					
Low/date	1,273.00/4	333.00/14 and 17	6,125.00/26 and 27	450.00 <sup>2</sup>	475.00 <sup>2</sup>
High/date	1,384.00/28	347.00/28	6,250.00 <sup>2</sup>	450.00 <sup>2</sup>	520.00/27 and 28
Average	1,313.00	337.63	6,200.00	450.00	483.95
<b>October:</b>					
Low/date	1,356.00/3	352.00/3	6,175.00/1	450.00 <sup>2</sup>	520.00/1
High/date	1,461.00/29	382.00/15	6,325.00 <sup>2</sup>	450.00 <sup>2</sup>	580.00 <sup>2</sup>
Average	1,413.87	368.70	6,259.78	450.00	563.48
<b>November:</b>					
Low/date	1,392.00/12	347.00/29	6,350.00/1	450.00 <sup>2</sup>	475.00 <sup>2</sup>
High/date	1,478.00/26	380.00/6	6,800.00/21 and 26	450.00 <sup>2</sup>	565.00/1
Average	1,449.45	366.75	6,651.25	450.00	527.00
<b>Year-to-date:</b>					
Low/date	1,122.00 Jan. 8	322.00 Aug. 22	5,550.00 Jan. <sup>2</sup>	400.00 Jan. <sup>2</sup> and Feb. <sup>2</sup>	375.00 Jul. <sup>2</sup>
High/date	1,478.00 Nov. 26	385.00 Apr. 20	6,800.00 Nov. 21 and 26	450.00 Feb.—Nov. <sup>2</sup>	870.00 Feb. <sup>2</sup>
Average	1,291.70	357.53	6,097.27	443.92	586.16

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

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

Source: Platts Metals Week.

TABLE 2  
U.S. IMPORTS FOR CONSUMPTION OF PLATINUM METAL, BY COUNTRY<sup>1</sup>

(Kilograms 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	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
		(thousands)		(thousands)		(thousands)		(thousands)		(thousands)		(thousands)
2006	234	\$7,320	58,100	\$2,070,000	7,570	\$279,000	8,540	\$233,000	94,100	\$291,000	65	\$881
2007:												
August	21	868	6,450	265,000	33	1,280	790	21,600	24,300	33,100	(2)	14
September	3	114	5,670	232,000	43	1,520	736	23,700	25,200	46,000	1	29
October:												
Australia	--	--	--	--	--	--	103	4,580	134	5,510	--	--
Belgium	--	--	214	7,750	--	--	--	--	--	--	--	--
Bolivia	--	--	--	--	--	--	--	--	1,990 <sup>3</sup>	85	--	--
Brazil	--	--	--	--	--	--	--	--	2,330 <sup>3</sup>	3,040	--	--
Canada	2	86	--	--	--	--	48	1,710	1,830 <sup>3</sup>	3,610	1 <sup>3</sup>	72
Chile	--	--	--	--	--	--	--	--	157	4,670	--	--
Colombia	--	--	--	--	112	3,920	--	--	27	938	--	--
Czech Republic	--	--	--	--	--	--	--	--	20 <sup>3</sup>	209	--	--
France	--	--	--	--	--	--	--	--	22	936	--	--
Germany	24	1,450	151	7,060	45	1,770	331 <sup>3</sup>	8,410	5,820	21,400	(2) <sup>3</sup>	5
Greece	--	--	--	--	--	--	--	--	5	170	--	--
Hong Kong	--	--	--	--	--	--	--	--	2,350 <sup>3</sup>	3,250	--	--
Italy	--	--	100	4,400	--	--	67	2,950	--	--	--	--
Japan	--	--	--	--	36 <sup>3</sup>	1,040	1 <sup>3</sup>	19	--	--	--	--
Korea, Republic of	--	--	--	--	--	--	(2)	20	134	2,610	--	--
Norway	--	--	31	1,360	--	--	--	--	--	--	--	--
Russia	--	--	140	4,170	--	--	--	--	--	--	--	--
South Africa	--	--	3,180	131,000	(2)	2	65	2,690	--	--	--	--
United Kingdom	--	--	809	36,800	53	1,550	72 <sup>3</sup>	3,010	146 <sup>3</sup>	121	2 <sup>3</sup>	158
Venezuela	--	--	--	--	--	--	--	--	990 <sup>3</sup>	54	--	--
Other	--	--	--	--	2 <sup>3</sup>	80	2	83	84 <sup>3</sup>	1,200	--	--
Total	26	1,530	4,620	193,000	248	8,360	689	23,500	16,000	47,800	3	235
Year to date	552	18,200	57,000	2,260,000	3,720	136,000	8,470	267,000	169,000	395,000	47	809

-- 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.

<sup>3</sup>All or part of these data have been referred to the U.S. Census Bureau for verification.

Source: U.S. Census Bureau.

TABLE 3  
U.S. IMPORTS FOR CONSUMPTION OF PLATINUM-GROUP METALS, BY COUNTRY<sup>1</sup>

(Kilograms metal content, unless otherwise specified)

Period and country	Unwrought palladium		Palladium, other		Iridium <sup>2</sup>		Unwrought osmium		Unwrought ruthenium		Rhodium <sup>3</sup>	
	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)	Quantity	Value (thousands)
2006	100,000	\$967,000	19,000	\$141,000	2,800	\$30,100	56	\$487	36,000	\$187,000	15,900	\$1,920,000
2007:												
August	9,840	98,200	512	5,820	294	2,460	--	--	6,670	79,500	1,640	263,000
September	9,080	95,100	209	2,200	199	2,740	--	--	5,960	71,700	1,280	227,000
October:												
Belgium	820	7,250	13	142	--	--	--	--	--	--	288	42,000
Canada	216 <sup>4</sup>	3,840	--	--	--	--	--	--	156 <sup>4</sup>	219	--	--
Germany	954	11,000	6 <sup>4</sup>	83	130 <sup>4</sup>	266	--	--	1,730	24,100	27 <sup>4</sup>	4,890
Hong Kong	--	--	--	--	11	146	--	--	--	--	--	--
Italy	183	1,850	(5) <sup>4</sup>	7	63 <sup>4</sup>	313	--	--	--	--	26 <sup>4</sup>	4,200
Japan	30 <sup>4</sup>	111	33 <sup>4</sup>	182	--	--	--	--	24	249	--	--
Mexico	--	--	--	--	--	--	--	--	--	--	1 <sup>4</sup>	10
Norway	373	4,470	93	1,140	--	--	--	--	--	--	5	989
Russia	4,080	48,800	1,340	14,100	--	--	--	--	--	--	91	17,900
South Africa	910	10,100	9	96	123	1,670	--	--	1,590	22,700	681 <sup>4</sup>	116,000
Switzerland	--	--	23 <sup>4</sup>	381	--	--	--	--	--	--	--	--
United Kingdom	1,430	16,500	114 <sup>4</sup>	1,350	56	830	--	--	371	6,920	151 <sup>4</sup>	29,800
Total	9,000	104,000	1,630	17,500	383	3,220	--	--	3,870	54,200	1,270	216,000
Year to date <sup>6</sup>	84,800	939,000	8,580	96,700	3,050	36,300	23	189	38,800	523,000	14,400	2,230,000

-- 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 of iridium.

<sup>3</sup>Unwrought and other forms of rhodium.

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

<sup>5</sup>Less than ½ unit.

<sup>6</sup>May include revisions to previous months' data.

Source: U.S. Census Bureau.

TABLE 4  
U.S. EXPORTS OF PLATINUM-GROUP METALS, BY COUNTRY<sup>1</sup>

(Kilograms of metal content, unless otherwise specified)

Period and country	Platinum <sup>2</sup>		Platinum waste and scrap		Palladium <sup>2</sup>		Iridium, osmium, and ruthenium <sup>2,3</sup>		Rhodium <sup>2</sup>	
	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
		(thousands)		(thousands)		(thousands)		(thousands)		(thousands)
2006	45,500	\$1,170,000	29,400	\$594,000	53,100	\$402,000	3,390	\$35,800	1,600	\$108,000
2007:										
August	2,640	64,500	3,000	62,000	4,040	27,800	916	15,000	222	39,500
September	2,100	56,700	4,880	53,300	3,170 <sup>r</sup>	19,900	1,270	18,200	218	42,900
October:										
Australia	3 <sup>4</sup>	121	--	--	43 <sup>4</sup>	454	(5)	3	--	--
Austria	10	230	--	--	--	--	--	--	--	--
Belarus	--	--	--	--	97 <sup>4</sup>	353	--	--	--	--
Belgium	25 <sup>4</sup>	637	--	--	62 <sup>4</sup>	752	(5)	5	(5) <sup>4</sup>	3
Brazil	--	--	--	--	20 <sup>4</sup>	109	--	--	--	--
Canada	182 <sup>4</sup>	3,960	202 <sup>4</sup>	1,920	275 <sup>4</sup>	2,680	--	--	(5)	36
Chile	18 <sup>4</sup>	397	--	--	--	--	--	--	--	--
China	301 <sup>4</sup>	9,880	9	84	257 <sup>4</sup>	2,870	12	218	40	8,150
France	6 <sup>4</sup>	115	--	--	56 <sup>4</sup>	441	--	--	--	--
Germany	212 <sup>4</sup>	4,750	62	1,070	311 <sup>4</sup>	1,100	1	6	--	--
Hong Kong	133 <sup>4</sup>	3,040	--	--	46 <sup>4</sup>	527	164 <sup>4</sup>	3,140	(5)	10
India	17 <sup>4</sup>	811	--	--	--	--	--	--	(5)	11
Ireland	46 <sup>4</sup>	795	--	--	25 <sup>4</sup>	147	--	--	--	--
Israel	1 <sup>4</sup>	17	--	--	81 <sup>4</sup>	232	--	--	--	--
Italy	5 <sup>4</sup>	168	--	--	119 <sup>4</sup>	987	1	10	6	1,060
Japan	363 <sup>4</sup>	13,000	301	14,900	553 <sup>4</sup>	5,510	292 <sup>4</sup>	5,810	63	12,400
Korea, Republic of	113 <sup>4</sup>	1,960	--	--	10 <sup>4</sup>	62	--	--	--	--
Mexico	9 <sup>4</sup>	177	--	--	3	18	5 <sup>4</sup>	196	1	98
Norway	27 <sup>4</sup>	499	--	--	2	32	--	--	--	--
Russia	45	1,880	--	--	--	--	--	--	--	--
Slovakia	--	--	--	--	6 <sup>4</sup>	8	--	--	--	--
South Africa	--	--	--	--	4 <sup>4</sup>	12	--	--	--	--
Spain	5 <sup>4</sup>	76	--	--	7 <sup>4</sup>	84	--	--	--	--
Sweden	7 <sup>4</sup>	117	--	--	1	7	--	--	--	--
Switzerland	247 <sup>4</sup>	6,180	--	--	89 <sup>4</sup>	519	--	--	--	--
Taiwan	356 <sup>4</sup>	8,040	--	--	238 <sup>4</sup>	1,320	218	4,060	--	--
Thailand	3 <sup>4</sup>	97	--	--	32 <sup>4</sup>	123	--	--	--	--
Trinidad and Tobago	--	--	--	--	(5)	4	--	--	--	--
Turkey	--	--	--	--	(5)	8	--	--	--	--
United Arab Emirates	--	--	--	--	2 <sup>4</sup>	12	--	--	(5) <sup>4</sup>	5
United Kingdom	218 <sup>4</sup>	4,980	1,460	61,700	485 <sup>4</sup>	2,740	19 <sup>4</sup>	282	--	--
Vietnam	(5)	6	--	--	(5) <sup>4</sup>	10	--	--	--	--
Other	7 <sup>4</sup>	326	--	--	44 <sup>4</sup>	397	1 <sup>4</sup>	91	1 <sup>4</sup>	25
Total	2,360	62,200	2,040	79,700	2,870	21,500	713	13,800	111	21,800
Year to date	24,000	598,000	44,000	770,000	35,700	259,000	7,470	134,000	1,800	345,000

<sup>r</sup>Revised. -- 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>All or part of these data have been referred to the U.S. Census Bureau for verification.

<sup>5</sup>Less than ½ unit.

Source: U.S. Census Bureau.