Central Intelligence Agency	
Central Intelligence Agency 158 felle	
. Washington, D. C. 20505	
DIRECTORATE OF INTELLIGENCE	
May 1985	
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<u>Summary</u>	
In October 1964 we reported that the three states of the stern markets of selected minerals and strategic and precious metals in 80-83 compared with export levels of the 1970s (see table 1). Moreover, we duced that preliminary evidence indicated that Soviet sales of most of these symmodities had been or may have been further reduced in 1984. This proclusion was based on incomplete trade statistics.	
In the event, there were further export eclines in 1984 of only 4 of the 11 raw materials for which trade statistics re available. Nevertheless, the more recent data reinforce our original address that the cutbacks for the 4 commodities and the lack of resurgence is known of several other minerals and metals are part of a longer-term rend. The evidence is yet too fragmentary for us to be able to draw any eneral conclusion about sales of these commodities in 1985.	25X n 25X1
Recent analysis supports our original hypothesis that multiple influencesrather than a comprehensive policywere responsible for the utbacks. In particular, domestic production of everal minerals and metals has not met internal or CEMA demand and that exports were reduced to close the gap. On the other hand, export availability of gold, platinum, palladium, and diamondsall important hard currency arnershas been primarily affected by soft market conditions and the oviets' overall favorable trade position. Indeed, some of the earlier	y
eports of expected cutbacks in 1984 may have been the result of Soviet ttempts to manipulate the markets.	25X1
his memorandum was prepared by the Economic Performance Division, National Issues Group,	25X1 25X1
ffice of Soviet Analysis. Comments and queries are welcome and may be ddressed to Acting Chief, Economic Performance Division, SOVA,	25X1
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1984 Revisited

In our original memorandum, we reported that exports to hard currency markets of selected minerals and strategic and precious metals fell in the early 1980s compared to levels of the 1970s and that deliveries declined even further in 1984. We could not establish, however, that the USSR had curbed exports as part of a comprehensive economic or military policy and we proposed several alternative explanations including (a) an improved hard currency position, (b) soft market prices in the West, (c) Soviet attempts to manipulate prices, (d) slower growth of domestic production, (e) increased domestic requirements, and (f) rising demand in other CEMA countries. Although exports of these commodities in 1984 generally remained well below sales in the 1970s, deliveries did not decline across the board

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Recent reports and trade statistics indicate that exports to the West of several metals including aluminum, gold, and rhodium remained roughly constant in 1984 relative to 1983 levels, albeit well below sales in the 1970s. Indeed, exports of some items-platinum, palladium, iron ore, refined copper, and coal--rose from 1983 to 1984 (see table 2). On the other hand, exports of chromium ore and titanium fell to the lowest level since at least the 1960s.

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We still do not believe the cutbacks observed since the 1970s are part of a single, comprehensive policy such as a stepup in a stockpiling program to deal with production bottlenecks or to enhance mobilization readiness. We believe our original hypothesis that multiple influences are involved remains valid. In particular, recent information suggests that domestic production of several minerals and metals has not met Soviet domestic or CEMA demand and that hard currency exports were reduced to close the gap. On the other hand, export availablity of gold, platinum, palladium and diamonds--all important hardcurrency earners--has been primarily affected by soft market conditions and the Soviets' overall favorable trade position. Exports of these commodities accounted for roughly 5 percent of Soviet hard currency earnings in 1983. The Soviets seem to set hard currency earnings targets, selling only enough to meet these 25X1 qoals.

A Review of Recent Evidence

We have not been able to detect any major changes in Soviet precious metals (gold and platinum group metals) export trends since late 1984. The volume of precious metals sales remains at a lower level than in the 1970s, but this is probably the result of the sharp improvement in the Soviet hard currency position since 1981 and relatively low prices in today's metals markets.

Gold sale	s in 1984	were roughly	in line wit	h 1983
sales.				• • • •

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 Despite Soviet announcements that less metal would available, the Soviets increased exports of plating palladium in 1984. 	be um and
	25
Unlike platinum and palladium, the prices of some mino	r
atinum group metals, including rhodium, have dramatically	
creased recently. According to a US metals journal, rhod	ium
om the USSR continues to be in short supply. Western met	als
aders have blamed Eastern Europe's growing rhodium requir	ements
or chemical production for straining the Soviet supply, wh	ich 25X1
Moscow may currently be withholdi	ng 25X1
upplies of platinum group metals in anticipation of a mark	
oturn if the European Community imposes pollution control	
2	Such
umors in the past have raised pricesin the Soviets' favo	r.
ndeed, the Soviets may have deliberately misled Western tr	
n late 1983 and 1984 for just this purpose.	25 X ′
Traditionally, exports of other commodites have genera	11v
een more volatile than those of precious metals and diamon	
argely because exports to the West are a residual claimant	
omestic and client state needs are satisfied. The loss of	rueze
Platinum group metals are used in automobile catalytic converters, aubstitutes are currently available.	and no 25X1
A	25 X 1

although the quantity of 25X1 scandium oxide exported in 1984 dropped off substantially from 1983 levels, sales have not ceased entirely. At the same time, sales of chromium ore and beryllium-copper alloys are apparently being cut further. We believe that domestic production problems and supply bottlenecks probably are responsible for the cutback in chromium ore and beryllium-copper alloy exports to the West. The Soviets continue to wrestle with chromium ore production problems caused by the exhaustion of existing ore hodies and slower-than-expected development of new deposits. The Soviets lost a source of supply in 25 The Soviets lost a source of supply in 25 In contrast to most of the commodities we looked at, Soviet nickel exports are higher now than they were in the 1970s.	markets would not seriously impair hard currency earnings ability, and meeting domestic and CEMA obligations apparen	itly
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	The	reduction in	titanium	n exports	in
1978-83, however,	apparently c	ontinued into	1984.		

Table 1

Commodities Examined	- Major Uses
Gold	Jewelry, store of value, electronics
Platinum group metals (platinum, palladium, and rhodium)	Automotive (catalytic converters), jewelry, chemical fertilizers, glass, electronics.
Diamonds	Jewelry, mining, abrasives
Chromium ore	Stainless and special alloy steels
Iron ore	Steel
Manganese ore	Steel
Unwrought aluminum ^a	Aerospace, vehicle engine components, construction, packaging
Refined copper	Electronics, construction
Unwrought nickel ^a	Stainless steels, chemicals, electronics
Unwrought titanium ^a	Aerospace, steel, chemical processing equipment, marine applications
Beryllium-Copper alloys	Electronics
Scandium oxide	Petroleum production, lamps
Neodymium	Petroleum refining, glass, electronics, lasers, steel
Coal	Boiler and furnace fuel, metallurgy
Phosphate rock	Chemical fertilizers
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Table 2

USSR: Exports to the West of Selected Minerals and Metals

				Thousar	nd metric	tons, e	except where	noted
	1971-75 (annual	1976-78 average)	1979	1980	1981	1982	1983	1984
Go1 d ^{ab}	152	354	220	80	200	100	55-60	60-80
Platinum and palladium ^{ac}	70	61	59	39	40	45	45	52
Rhodium ^{ad}	NA	1.0	1.1	0.6	0.5	0.7	1.0	1.0
Chromium ore	806	396	352	132	144	108	. 98	32
Iron Ore	4,293	3,923	1,891	1,070	900	831	846	1,120 ^f
Manganese ore	198	71	0	0	0	0	0	0
Unwrought aluminum	482	577	155	146	141	205	185	177
Refined copper	67.0	37.0	7.3	5.8	6.4 ^e	14.3	16.1	34.5
Unwrought nickel	19	15	28	32	26	31	30	31
Unwrought titanium	4.8	2.8	4.0	3.5	1.5	1.2	1.0	0.6
Coal	10,200	9,933	10,100	7,100	3,600	3,300	5,000 ^e	4,256 ^f

Metric tons.

b CIA estimate.

 $^{^{\}rm C}$ We have revised this series to include West German import data along with that available from US and Japanese official trade books. These countries normally account for 90 percent of total Soviet exports of these metals.

d Only data on US and Japanese imports from the Soviet Union are available because most countries do not report rhodium as a separate commodity in their trade statistics.

e Revised.

f January-September.