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GOLD MINING INDUSTRY

(S.I.C. 051-053)

1967

INTRODUCTION

This report includes statistics for industries:

051 - Placer Gold Mines

052 - Gold Quartz Mines

053 - Copper-Gold-Silver Mines

of the Standard Industrial Classification (S.I.C.) Manual (Catalogue No. 12-501).

Definition of the Industry

Gold Mining in Canada is devided into three principal industries:

- (a) The recovery of gold from the gravels and sands of stream channels or beaches. For statistical purposes, this industry is defined as including establishments primarily engaged in mining gold by placer or hydraulic methods as well as the dressing and beneficiation of the ore and the production of bullion at the site of the mine. In the S.I.C. it corresponds to industry number 051 Placer Gold Mines (see above).
- (b) The recovery of lode gold from ores in which gold is usually the most important economic constituent and quartz the predominant gangue mineral. For statistical purposes, this industry is defined as including establishments engaged in operating lode mines for gold as well as the dressing and beneficiating of the ore and the production of bullion at the site of the mine (see above).

(c) Gold is often found in various other mineral deposits, more particularly in those of copper, and for this reason, the review of the Copper-Gold-Silver Mines industry is included here to complete a comprehensive survey of Canadian gold production. For statistical purposes, this industry is defined as including establishments primarily engaged in mining coppergold-silver ores and in dressing and beneficiating such ores (see above).

During 1967 the production of gold amounted to 2,986,268 troy ounces valued at \$112,731,618 compared with 3,319,474 ounces valued at \$125,177,364 in 1966. The record production was in 1941 when 5,345,179 ounces were produced at a valuation of \$205,789,392.

Ontario continued to be the leading producer of gold with 50 per cent of the total. Quebec, in second position, produced 28 per cent and Northwest Territories accounted for 13 per cent of the total. The other provinces ranked in the following order: British Columbia, Manitoba, Saskatchewan, Newfoundland, Yukon, New Brunswick, Alberta and Nova Scotia.

The price of gold in Canadian funds averaged \$37.75 per troy ounce. It ranged from \$37.91 per troy ounce in April 1967 to \$37.54 per troy ounce in October. The fluctuations were due to foreign exchange rates. The Royal Canadian Mint purchased gold on the basis of \$(U.S.) 35.00 per troy ounce. The United States dollar rose above par value in June 1961. It had been discounted since March, 1952. In May 1962 the price of the Canadian dollar on foreign exchange was pegged.

SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- p preliminary figures.
 - revised figures.
 - x confidential to meet secrecy requirements of the Statistics Act.

PLACER GOLD MINES

this portion of the report includes statistics for industry 051 - Pincer Gold Mines of the Standard Industrial Classification Manual Catalogue No. 12-501).

Most of the placer gold was produced in the Yukon and British Columbia; small quantities were recovered in Alberta.

In 1967 a total of 9,411 troy ounces of fine gold were recovered from crude gold obtained from Canadian alluvial deposits. This represented a decrease from the preceding year. Reviewing the past thirty years, it is noted that the peak of production of placer gold occurred in 1939, and that the lowest annual output was in 1967.

Quebec.—After many years of no production there was a recorded output of 38 ounces in 1951 and 39 ounces in 1952, none in 1953, 16 ounces in 1954, nil in 1955-1960, 478 ounces in 1961, 117 ounces in 1962, nil in 1963, 279 ounces in 1964, 442 ounces in 1965 and nil in 1966 and 1967.

Saskatchewan and Alberta.—The small amount of gold, considered as being placer in origin, received at the Royal Canadian Mint, Ottawa, is assumed to have come from along the North Saskatchewan River. There has been activity in this district, in the vicinity of Edmonton, dating from about 1860.

British Columbia.—It has been found impractical to obtain complete reports for each individual placer mining operation in British Columbia inasmuch as a considerable quantity of the crude placer gold is recovered annually by prospectors of no fixed abode who, in many instances, market their recoveries through local merchants and banks. Recoveries in 1967 were made chiefly from deposits located in the Atlin and Cariboo districts. Output was estimated at 679 troy ounces.

Yukon.—About 91 per cent of the placer gold recovered in Canada during 1967 was found in the creeks of the Yukon. Production in 1967 totalled 8,586 troy ounces.

TABLE 1, Principal Statistics, Placer Gold Mines, 1 1963 - 67
Basis: Revised Standard Industrial Classification and New Establishment Concept

				M	lining activit	y			Total activity				
Year lish- ments	Estab-	Production and related workers		Cost of	Cost of materials	Value		Working owners and partners		Employees		Value	
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	and supplies	of produc- tion	Value added	Number	With- drawals	Number	Salaries and wages	added
	No.		'000			\$'000				\$'000		\$'0	00
63	24 22 21 22 22 22	204 177 152 105 15	510 495 380 260 27	1,101 1,078 889 745 76	112 11t 101 93 24	508 521 407 344 79	2,558 2,338 1,863 1,775 360	1,946 1,706 1,355 1,339 257	18 18 17 18 19	75 80 60 82 43	231 205 176 124 16	1,297 1,263 1,075 936 77	2,042 1,806 1,447 1,628 260

¹ Refer to Explanatory Notes, in 1964 issue of this report, for description of concepts and definitions.

TABLE 2, Employment and Payroll, Placer Gold Mines, 1963 - 67

Basis: Revised Standard Industrial Classification and New Establishment Concept

					Empl	oyees						Salaries and wages				
Year	Product related	ion and workers	0	ther		Adminis- trative		Sales		Total			Admin- istra- tive	Sales	T	
	Mining		0.	and office		distribution		. otal		related workers Other		and	distri-	Total		
	Male	Female	Male	Female	Male	Female	Male	Female	Male	Female	Mining		office	bution		
					nun	nber							\$'000			
963	200 173 150 103 12	4 4 2 2 2 3	-		23 23 18 14	4 5 6 5	-	-	223 196 168 117	8 9 8 7	1,101 1,078 889 745 76	-	196 184 186 191	-	1,293 1,263 1,075 936	

GOLD QUARTZ MINES

This report includes statistics for industry 052-Gold Quartz Mines of the Standard Industrial Classification Manual (Catalogue No. 12-501).

The greater part of Canada's gold comes from the Canadian Shield, an immense area of precambrian rocks, extending from the Labrador Coast westward almost to the mouth of the Mackenzie River. The area of the Sheild is roughly 1,825,000 square miles, almost half of Canada. The deposits of the Shield are of two main types, namely, quartz veins, from

which most of the gold, up to the present time, has been won, and sulphide deposits which produce a smaller but very considerable proportion. The second great source of gold in Canada has been the Western or Cordilleran section, comprising British Columbia and the Yukon Territory, the Gold production from this section including relatively large quantities obtained from alluvial deposits. In Nova Scotia gold was mined as early as 1862 but in late years the production in this province has dwindled to insignificance.

TABLE 3. Principal Statistics, Gold Quartz Mines, 1963 - 67

Basis: Revised Standard Industrial Classification and New Establishment Concept

			Mining								Total activity				
Year	Estab- lish-	Production and related workers		Cost of fuel and	Cost of	Value of	Value	Working owners and partners		Employees		Value			
	ments	Number		Wages	elec- tricity	materials and supplies	production		Number	With- drawals	Number	Salaries and wages	added		
	No.		,000			\$,000				\$,000		\$,00	00		
1963	51	12,456	27,961	50,986	6,639	34,728	145,622	104,254			14,408	62,436	106,156		
1964	49	11,843	26,990	51,096	6,868	35,811	142,703	100,025			13,807	63,192	102,398		
1965	56	11.061	24,329	49,183	6,914	36,501	137,943	94,529	-		12,979	61.345	97,875		
966	54	9,730	20,834	46,905	6,348	32,914	132,290	93,028	4	24	11,532	58,133	94,123		
1967	45	8,683	18.155	43,674	5,954	28.890	120.196	85,352	-		10,319	54.412	86,075		

TABLE 4. Employment and Payroll, Gold Quartz Mines, 1963 - 67

Basis: Revised Standard Industrial Classification and New Establishment Concept

					Empl	oyees					Salaries and wages				
Year Production and related workers Manufacturing Male Female Male	related workers		Other		Adminis- trative and office		Sales and distribution		Total		Produc- tion and related workers	Other	Admin- istra- tive	Sales and distri-	Total
	Female	Male	Female	Male	Female	Male	Female	Manufac- turing		and office	bution				
					nur	nber							2,000		
1963	12,399 11,775 10,989	57 68 72	- 16		1,796 1,805 1,743	156 159 159	-		14,195 13,580 12,748	213 227 231	50,986 51,096 49,183	- 68	11,449 12,096 12,093		62.43 63.19 61.34
1966 1967	9,708 8,645	50 38	46 26	21 14	1,560 1,458	175 138	_	_	11,314 10,129	246 190	46,905 43,674	331 184	10,897 10,554	_	58.13 54.4

TABLE 5. Production and Related Workers, Gold Quartz Mines, 1966 and 1967

		Mine		Mill	
Year and month	Surfa	ace	Underground		
	Male	Female	Male	Male	Female
			number		
966			1		
	2,420	44	6.666	1 120	
anuary		47		1,139	
ebruary	2,422	* *	6,708	1,139	
arch	2,400	46	6,561	1,119	
pril	2,350	43	6,343	1,099	
lay	2,376	44	6,284	1,101	
une	2,498	48	6,319	1,167	
uly	2,545	53	6.369	1.166	
lugust	2.395	50	6.196	1.140	
	2.171	52	5.951	1.092	
eptember	2,151	46			
october			5,841	1,062	
lovember	2,159	49	6,018	1,032	
December	2,137	46	5,948	1,017	
Averages	2,335	47	6,267	1,106	
967					
anuary	1,994	38	5,922	1,003	
ebruary	2,008	36	5,868	996	
March	1.976	36	5.857	1.013	
april	1.934	36	5.757	1.008	
	2.007	36	5,670	1.009	
	2.134	35	5,735	1,064	
une		35			
uly	2,160		5,735	1,065	
August	2,053	37	5,561	1,047	
eptember	1,920	37	5,346	977	
October	1,893	37	5,432	981	
November	1,894	38	5,490	965	
December	1,867	39	5,390	952	
Averages	1.987	37	5,647	1.007	

TABLE 6. Purchased Fuel and Electricity Used, Gold Quartz Mines, 1966 and 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

Description		1966		1967	
		Quantity	Cost	Quantity	Cost
			\$'000		\$'000
Large establishments reporting commodity detail: Bituminous coal:		10 11 11 11			
(a) From Canadian mines	ton	6,225	108	6,327	105
Sub-bituminous coal (from Alberta mines only)	ton	39	1	24	1
Lignite coal	ton	1		_	
Gasoline (including gasoline used in cars and trucks) Fuel oil including kerosene or coal oil	Imp. gal.	305,820 4,375,258	132 867	278,808 3,694,629	119 783
Wood	cord	793	13	859	14
(a) Liquefied petroleum gases (b) Other manufactured gas	Imp. gal.	32,692	10	32,026	
(c) Natural gas Other fuel	M cu. ft.	201,719	120	200,241	111
Electricity purchased	kwh.	737,041,234	5,031	725,446,003	4,724
Small establishments not reporting commodity detail: Estimate for fuel and electricity					
3. All establishments:					
Total fuel and electricity used			6,348		5,95
Flectricity generated. (a) For own use	kwh.	37.225.031		33,525,020 54 × 130	

TABLE 7. Materials and Supplies, Gold Quartz Mines, 1966 and 1967.
Blues: Revised Standard Industrial Classification and New Establishment Concept

Description	Cos	st
Description —	1966	1967
	\$'0	00
Ore or other semi-processed materials purchased and used in mine mill operations	8	- 3
Operating, maintenance and repair supplies used (excluding fuel) Amount paid out to others for work done on materials owned by establishments:	22,154	19,418
To smelters and/or refineries	1,507	1,679
To others (mining, milling, etc.)	9,241	7,790
Totals	32,914	28,890

¹ Refer to Explanatory Notes, in 1964 issue of this report, for explanation of differences in Tables 11 and 12 with data published in earlier years.

TABLE 8. Value of Production, Gold Quartz Mines, 1966 and 1967 Basis: Revised Standard Industrial Classification and New Establishment Concept

Paradistica	Value			
Description	1966	1967		
	\$,000			
Value of production Amount received in payment for work done on materials and products owned by others Subsidies received	109,041 8,182 15,067	99.713 5,487 14,996		
Total value of production and work done	132,290	120,196		

TABLE 9. Ores Mined and Treated by the Gold Quartz Mines, 1958 - 67

Year	Ore hoisted	Ore milled [[]	Crude ore shipped to smelters ¹	Low-grade sorted out	Tailings re-treated	Gold recovered as bullion	Gold in crude ore shipped	Concentrate slag, etc. shipped
			tons				troy ounces	
1958	14,751,991	14,223,343	273,204	175,069	465	3,829,460	40.516	51,499
1959	14,246,860	13,732,277	347,203	188,996	329	3,763,954	46,812	40,391
1960	14,726,094	14,167,243	281,077	262,990	276	3.837.743	49,105	50,364
1961	14,353,022	13,835,364	268,690	270,098	332	3,692,596	40.145	33,625
1962	13,659,916	13,217,174	230,946	204,809	30	3,436,481	27,893	25.793
963	12,618,059	12,130,935	668,627	253,256	400	3,203,763	87,539	21,26
964	12,757,627	12,468,340	105,730	176,342	_	3,111,651	13,156	28,603
965	12,042,354	11,734.875	92,412	257,743	130,237	2,899,122	10,846	42.639
1966	11,187,827	10,930,311	41,591	228,763	98,962	2,636,832	5,407	49,22
1967	10,289,826	10,134,259		196,426	_	2,404,886	_	33,32

¹ Total crude ore treated.

TABLE 10. Shipments from Gold Quartz Mines, 1966 and 1967

	Quantity		Total gross m	etal content		
	Quality	Gold	Silver	Copper	Zinc	
	tons	ounces		pounc	S	
1966						
To smelters and mills:						
Gold ore	41,591	5,407	118			
Concentrates	20,213	34,293	213,164	11,745,480	121,09	
Slags, precipitates, residues	137	14,934	38,462	13,832	-	
Totals	61,941	54,634	251,744	11,759,312	121,09	
1967						
Fo smelters and mills:						
Gold ore	_	_	_		_	
Concentrates	21,367	27,787	166,322	12,400,270	61,12	
Slags, precipitates, residues	124	5,541	14,241	10,672	-	
Totals	21,491	33.328	180,563	12,410,942	61,12	

TABLE 11. Gold and Silver Content, of Bullion Produced, of Ores, Concentrates, etc., Shipped, with Average Grade of Ore Shipped and Ore Milled at Gold Quartz Mines and the Average Price of Gold and Silver in Canadian Funds, 1958 - 67

Year	Tonnage treated 1.2	Gold content ³	Silver content ³	Ounces of fine gold per ton	Ounces of fine silver per ton	Average price of gold	Average price of silver
		fine or	inces			\$ per	OZ.
1958	14,490,652	3,921,475	707,794	.27	.05	33.98	0.868
1959	14,079,480	3,851,157	629,465	.27	.04	33.57	0.878
1960	14,448,320	3,937,212	887,697	.27	.06	33.95	0.889
1961	14,104,054	3,766,368	643,931	.27	.05	35.46	0.943
1962	13,448,120	3,490,167	597,778	.26	.04	37.41	1.165
1963	12,799,562	3,312,569	572,501	.26	.04	37.75	1.384
1964	12,514,070	3,153,410	598,229	.25	.05	37.75	1.400
1965	11,827,287	2,952,607	550,717	.25	.05	37.73	1.400
1966	10,971,902	2,691,466	662,320	.25	.06	37.71	1.400
1967	10,134,259	2,438,214	346,979	224	.05	51:75	1.733

¹ Does not include tailings re-treated, but includes ore milled plus crude ore shipped to smelters

2 Material discarded by sorting not included.

3 Relatively small quantities of gold and silver contained in concentrates, slags, etc., shipped and a contained in concentrates are concentrates and a content of total bullion produced plus metal in ores or concentrates shipped as a concentrate shi

FABLE 12, Milling Capacity of Operating Canadian Gold Mines, 1958 - 67

Year and province	Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories	Yukon	Canada
			t	ons of 2,000 pou	nds per 24 hours			
258	_	10,500	27,292	2,550	1,264	1,500	_	43,10
959	-	10,100	28,057	550	1,275	1,650	_	41,63
360	-	9,650	28,035	550	1,229	1,661	_	41,12
76.1	-	10,150	27,602	550	850	1,681	-	40,83
n.2	-	10,150	27,386	550	850	1,691	- 1	40,62
963	-	10,530	25,870	550	850	1,750	~	39,55
964 . ,	-	9,400	26,500	550	920	1,880	-	39,25
965	~	11,050	25,345	550	900	1,950	125	39,92
966	_	8,200	24,825	550	950	1,960		36,48
967	-	7,800	23,325	550	550	1,820	_	34,04

TABLE 13, Drilling Completed on Gold Quartz Deposits, 1966 and 1967

	Footage d	lrilled !
	1966	1967
	fee	et .
runond drilling for exploration (testing):	237.632	84 592
By companies with their own equipment and personnel By contractors	887,154	841,667
ther drilling:		
Diamond drilling for breaking rock or ore:	100.020	0.027
By companies with their own equipment and personnel By contractors	108,939	9,937 347,751
Drilling by percussion and other machines ²	217,073	23,437,127

¹ Subject to revision as drilling was not reported by some companies, 2 This is not complete as some companies do not compile these data.

Note: The value of diamonds in all forms (bits, etc.) purchased by gold mining companies in 1966 totalled \$50,131 and \$42,754 in 1967.

TABLE 14. Specified Taxes Paid by Companies engaged in Gold Quartz Mines Operations, 1965 - 67

	1965	1966	1967	
		dollars		
ederal income tax, including tax on non-operating revenue	1,769,344	2,632,659	2,375,906	
Provincial tax	1,767,480	1,576,852	1,570,375	
Municipal tax	903,339	961,501	924,711	
Totals	4,440,163	5,171,012	4,870,992	

¹ Includes related corporate activities associated with operations of gold-quartz mines.

TABLE 15. Miscellancous Expenditures Made by Companies engaged in Gold Quartz Mines Operations, 1967

	\$'000
Wurkmen's compensation	2,856
Wurkmen's compensation Silicosis assessment Unemployment insurance Aggregate cost of structures, roads, machinery, equipment, etc., built by or purchased from outside contractors of suppliers and	1,138 435
Ruck value of fixed assets Account	836
by own employees and chargeable to Fixed Assets Account Other capital expenditures not reported in (d) and (e) Cost of materials and supplies used in the production of machinery and equipment and in the construction of roads and new	947
structures (including major repairs and alterations of machinery and equipment and in the construction of roads and new structures (including major repairs and alterations by own employees and chargeable to Fixed Assets Account) Cost of office supplies used during the year, not chargeable to Fixed Assets Account (excludes cost of stamps and meter	727
(Xpcnscs)	219

¹ Includes related corporate activities associated with Coordian operations of gold quartz mines not allocable separately elsewhere.

TABLE 16. Production of Gold in Canada, Fifty Years, 1918 - 67

Year	Troy ounces	Value	Year	Iroy ounces	Value
		\$			\$
				2 (2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
918	699,681	14,463,689	1943	3,651,301	140,575,088
919	766,764	15,850,423	1944	2,922,911	112,532,073
020	765,007	15,814,098	1945	2,696,727	103,823,990
21	926,329	19,148.920	1946	2,832,554	104,096,359
222	1,263,364	26,116,050	1947	3,070,221	107,457,735
923	1,233,341	25,495,421	1948	3,529,608	123,536,280
24	1,525,382	31,532,443	1949	4,123,518	148,446,648
025	1,735,735	35,880,826	1950	4,441,227	168,988,687
26	1,754,228	36,263,110	1951	4,392,751	161,872,87
27	1,852,785	38,300,464	1952	4,471,725	153,246,010
28	1,890,592	39,082,005	1953	4,055,723	139,597,985
929	1.928.308	39,861,663	1954	4,366,440	148,764,611
30	2,102,068	43,453,601	1955	4,541,962	156,788,528
31	2,693,892	58,093,396	1956	4,383,863	151,024,086
32	3,044,387	71,479,373	1957	4,433,894	148,757,14
33	2,949,309	84,350,237	1958	4,571,347	155,334,370
34	2,972,074	102,536,553	1959	4,483,416	150,508,275
035	3,284,890	115.595.279	1960	4,628,911	157.151.52
936	3,748,028	131,293,421	1961	4,473,699	158,637,366
937	4.096,213	143.326.493	1962	4,178,396	156.313,794
38	4,725,117	166,205,990	1963	4.003,127	151,118,04
39	5,094,379	184,115,951	1964	3.835.454	144,788,38
240	5,311,145	204,479,083	1965	3,606,031	136,051,94
941	5,345,179	205,789,392	1966	3,319,474	125,177,36
942	4,841,306	186,390,281	1967	2.986,268	112,731,61

Note: The above and subsequent tables include data on commodities produced by operators, which are classified to other industries. As an example: gold is produced by firms classified as, placer gold, gold quartz, copper-gold-silver, nickel-copper, silver-lead-zinc, and other metal mines.

TABLE 17. Production of Gold from Auriferous Quartz and Base Metal Mines, by Months, 1965 - 67

		production from se metal mines	n	Gold prod quartz mi	luction from au nes and placer o	riferous leposits	Gold production from all types of mines		
	1965	1966	1967	1965	1966	1967	1965	1966	1967
					troy ounces				
January	50,100	50,544	40,485	259,942	230,388	210,418	310,042	278,280	250,903
February	47,056	51,189	43,803	233,881	230,374	211,904	280,937	278,911	255,707
March	54,015	49,681	44,861	257,399	247,837	217,291	311,414	294,866	262,152
April	54,400	49,070	44,834	271,033	249,481	207,970	325,433	295,899	252,804
May	51,559	50,312	42,063	247,183	249,818	214,510	298,742	297,478	256,573
June	48,179	47.882	44,259	260,551	218,290	216,674	308,730	263,699	260,933
July	48,778	44,567	45,165	238,107	223,358	195,546	286,885	266,273	240,711
August	51,524	42,271	40,046	249,404	223,465	200,048	300,928	264,091	240,094
September	47,471	41,993	43,431	244,481	225,233	187,610	291,952	271,574	231,041
October	50,389	45,888	47,182	251,497	217,833	201,769	301,886	269,672	248,951
November	50,925	41,520	44,344	246,471	210,410	191,434	297,396	259,751	235,778
December	47,463	47,972	44,277	244,223	230,098	206,344	291,686	278,980	250,621
Totals	601.859	562,889	524,750	3.004,172	2,756,585	2,461.518	3,606,031	3,319,474	2,986,268

See Note under Table 16.

TABLE 18. Production of Gold,1 by Provinces, 1958 - 67

Year	Newfo	oundland	Nova	Scotia	New Br	unswick	Qu	ebec	Ont	ario	Mani	toba
	Troy	Value	Troy	Value	Troy ounces	Value	Troy	Value	Troy	Value	Troy	Value
		\$		S		S		S		\$		S
958	13,381	454,686	131	4,451	52	1,767	1,044,846	35,503,867	2,716,514	92,307,146	87,356	2,968,357
959	13,411	450,207		- 1	**	_	999,388	33,549,455	2,683,449	90,083,383	51,186	1,718,314
960	13,515	458,834	3	102			1,035,914	35,169,280	2,732,673	92,774,248	52,762	1,791,270
961	14,429	511,652		Auro	_	_	1,054,029	37,375,868	2,637,720	93,533,551	57,747	2,047,709
062	13,966	522,468	_	_	553	20,688	993,560	37,169,080	2,421,249	90,578,924	68,259	2,553,569
163	12,318	465,004	_		1,128	42,582	917,229	34,625,395	2,338,854	88,291,739	53,084	2,003,92
064	16,717	631,067	63	2,378	1,623	61,268	934,769	35,287,530	2,155,370	81,365,217	69,986	2,641,97
065	23,657	892,555			1,659	62,592	905,380	34,159,082	1,946,003	73,420,747	67,685	2,553,68
66	25,667	967,903	20	754	1,953	73,648	935,459	35,276,158	1,660,750	62,626,883	64,565	2,434,74
267	27,258	1,028,989	1	38	1,421	53,643	835,190	31,528,423	1,495,385	56,450,784	53,945	2,036,42
	Troy	s Val	ue	Troy ounces	Val	ue	British Co	lumbia Value	Troy	Value	Troy ounces	Value
		3			3			\$		S		\$
958	86,	590 2,94	2,328	282		9,582	210,612	7,156,596	67,745	2,301,975	343,838	11.683.61:
959	78,	588 2,63	8,199	200		6,714	184,312	6,187,354	66,960	2,247,847	405,922	13,626,80
au	84,	775 2,87	8,111	191		6,484	212,859	7,226,563	78,115	2,652,004	418,104	14,194,63
w.t.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	70,	784 2.51	0,000	171		6,064	164,467	5,832,000	66,878	2,371,494	407,474	14,449,02
61 11	66,	034 2,47	0,332	186		6,958	159,492	5,966,596	54,805	2,050,255	400,292	14,974,92
63	64,	813 2,44	6,691	132		4,983	159,473	6,020,106	55,211	2,084,215	400,885	15,133,40
64	46,	185 1,74	3,484	59		2,227	139,959	5,283,452	57,844	2,183,611	412,879	15,586,18
65	46,	173 1,74	2,061	200		7,546	117,764	4,443,118	45,031	1,698,975	452,479	17,071,58
966	42,	678 1,60	9,387	182		6,863	120,705	4,551,786	43,466	1,639,103	424,029	15,990,13
967		895 1.80		146		5,512						

¹ From all sources in Canada.

TABLE 19. Production of Gold, by Provinces, according to Nature of Ores, 1967

Year and province	Placer gold	Auriferous quartz ores	Copper-gold- silver ores	Nickel-copper ores	Silver-lead and other ores	Total	
			troy or	ances			
1967							
Newfoundland			20,160		7,098	27,258	
Nova Scotia	-	1			_	1	
New Brunswick	-	-	256	_	1,165	1,421	
Quebec	2007	561,461	257,873	3,058	12,798	835,190	
Ontario		1,442,828	9,151	42,408	998	1,495,385	
Manitoba	F99.	13,382	33,510	7,053	_	53,945	
Saskatchewan	-	-	47,469	99	327	47,895	
Alberta	146		-	_	_	146	
British Columbia	679	54,192	51,316	_	20,636	126,823	
Yakon	8,586		8,753	_	561	17,900	
Nacthwest Territories	-	380,243	-	-	61	380,304	
Canada	9,411	2,452,107	428,488	52,618	43,644	2,986,268	

TABLE 20. Gold Production by Province and Principal Areas, 1965 - 67

	1965		1966		1967	
Province and area	Troy ounces	Value	Troy ounces	Value	Troy ounces	Value
		\$		s		S
Newfoundland	23,657	892,555	25,667	967,903	27,258	1,028,989
Nova Scotia ,	_		20	754	1	38
New Brunswick	1,659	65,592	1,953	73,648	1,421	53,643
Quebec: Gold mines Base metal mines	526,636 378,744	19,869,450 14,289,632	595,708 339,751	22,464,148 12,812,010	561,461 273,729	21,195,153 10,333,270
Totals	905,380	34,159,082	935,459	35,276,158	835,190	31,528,423
Ontario: Gold mines: Porcupine Kirkland Lake Larder Lake Matachewan Sudbury Thunder Bay Patricia Other mines	899,530 187,308 222,969 1,511 36,642 80,963 451,390 65,690	33.938.367 7.066,944 8.412,397 57.009 1.382.466 3.054,653 17.030,493 2.478.418	757,430 150,953 186,884 2,062 39,219 61,916 398,285 64,001	28,562,685 5,692,438 7,047,396 77,758 1,478,948 2,334,852 15,019,327 2,413,479	648,051 140,381 200,835 	24,463,925 5,299,383 7,581,521 1,255,792 2,158,318 13,707,818 1,984,027
Totals	1,946,003	73,420,747	1,660,750	62,626,883	1,495,385	56,450,784
Manitoba: Gold mines Other mines Totals	25,132 42,553 67,685	948,205 1,605,482 2,553,687	22,808 41,757 64 ,565	860,090 1,574,656 2,434,746	13,382 40,563 53,945	505,171 1,531,253 2,036,424
Saskatchewan:						
Base metal mines	46,173	1,742,061	42,678	1,609,387	47,895	1,808,036
Alberta (placer)	200	7,546	182	6,863	146	5,510
British Columbia: Gold mines (lode) Gold mines (placer) Other mines Totals	73,756 664 43,344 117,764	2,782,740 25,052 1,635,326 4,443,118	71,733 1,204 47,768 120,705	2,705,052 45,403 1,801,331 4,551,786	54,192 679 71,952 126,823	2,045,748 25,632 2,716,188 4,787,568
Yukon (chiefly placer)	45,031	1,698,975	43,466	1,639,103	17,900	675,725
Northwest Territories (chiefly gold mines)	452,479	17,071,580	424,029	15,990,133	380,304	14,356,476
Totals, Canada	3,606,031	136,051,943	3,319,474	125,177,364	2,986,268	112,731,618

TABLE 21. Gold Production according to Method of Computation and Recovery, 1958 - 67

Year	In alluvial gold	In crude gold bullion produced at mines	In base bullion produced at lead smelters	In blister and anode copper produced ²	In ores, matte, slags, etc., exported	Total gold produced
			per cent			fine ounces
958	1.57	84.06	0.20	12.64	1.53	4,571,34
959	1.63	84.47	0.21	12.52	1.17	4,483,41
960	1.75	83.18	0.26	12.82	1.99	4,628,91
961	1.55	83.08	0.22	13.25	1.90	4,473,69
962	1.38	82.73	0.21	13.72	1.96	4,178,39
063	1.45	82.89	0.26	13.24	2.16	4,003,13
964	1.53	81.16	0.13	14.93	2.25	3,835,45
965	1.24	80.90	0.15	15.00	2.71	3,606,0
066	1.31	80.39	0.40	15.11	2.79	3,319,47
967	0.32	81.09	0.32	14.73	3.54	2,986.20

Includes a small quantity of gold contained in shipments of gold ores, slags, etc., to Canadian smelters.
 Contains a small quantity of gold recovered from auriferous quartz ores.

TABLE 22. Estimated Average Monthly Mint Value of an Ounce of Fine Gold, Expressed in Canadian Funds, 1953 - 67

Month	1953	1954	1955	195	6	1957	1958	1959
				doll	ars			
nuary	33.97	34.05	33.8	1	34.95	33.62	34.46	33.84
bruary	34.20	33.83	34.1	9	34.97	33.54	34.34	34.12
rch	34.44	33.98	34.4	5	34.95	33.46	34.21	33.93
il	34.43	34.39	34.5	2	34.89	33.59	33.97	33.73
	34.79	34.45	34.5	1	34.71	33.45	33.84	33.70
e	34.80	34.34	34.4	5	34.48	33.36	33.67	33.56
	34.72	34.10	34.4	16	34.37	33.29	33.60	33.5
ust	34.59	33.96	34.4	8	34.34	33.18	33.76	33.41
tember	34.45	33.94	34.5	57	34.22	33.56	34.19	33.3
ber	34.39	33.94	34.8	34	34.07	33.77	33.98	33.11
ember	34.22	33.93	34.9	8	33.75	33,67	33.89	33.2
mber	34.06	33.88	34.9	8	33.62	34.22	33.76	33.2
rly averages	34.42	34.07	34.5	52	34.45	33.55	33.98	33.5
	1960	1961	196?	1963	1964	1965	1966	1967
	1100			is	liars			
my	33.36	34.76	36.58	37.70	37.81	37.58	37.61	37.7
ruary	33.31	34.62	36.71	37.71	37.80	37.65	37.67	37.8
h	33.28	34.56	36.73	37.73	37.82	37.84	37.67	37.8
	33.70	34.61	36.76	37.69	37.83	37.77	37.69	37.8
	34.24	34.56	37.87	37.70	37.83	37.78	37.69	37.8
	34.39	35.19	38.06	37.74	37.81	37.88	37.68	37.8
	34.24	36.19	37.76	37.79	37.84	37.92	37.62	37.7
	33.95	36.10	37.72	37.90	37.75	37.74	37.63	37.6
mber	34.03	36.08	37.69	37.80	37.66	37.67		37.6
	34.24	36.07	37.66	37.73	37.63	37.63	37.78	37.5
ber	34.19	36.26	37.69	37.72	37.59			37.6
ember		36.49	37.66		37.59		37.91	37.8
mber	34.43	30.47	37.00	37.78	37.01	37.03	37.91	31.0
		35.46	37.41	37.75	37.75	37.73	37.71	37.7

TABLE 23. Precious Metals Consumed by the Jewellery and Silverware Industry, 1963 - 67

Natorini	Cost at works							
	1963	1964	1965	1966	1967			
			\$'000					
Fine gold	6,197	7,229	8,324	8,993	10,006			
Cold alloys	1,928	2,341	2,723	2,916	2,843			
Fine silver	4,688	5,268	6,275	6,609	7,295			
Silver alloys and sterling	2,853	2,402	2,519	2,856	3,238			
Platinum	2,564	969	1,190	2,214	2,738			
Palladium	965	1,045	942	1,665	2,007			
Old gold, jewellers' findings, waste and scrap refining	1,807	2,120	2,141	2,094	1,218			
Gold-filled wire and stock	172	336	297	317	264			
Precious and semi-precious stone	3.816	4.626	5,128	5,602	5,818			

TABLE 24. Gold Production of the World, 1 1963 - 67

Country	1963	1964	1965	1966	1967
			fine ounces		
North America:					
United States ²	1.468,750 3.972,047	1,469,000 3,810,738	1,675,500 3,587,168	1,801,600	1,525,500 2,961,999
Mexico	237,948	209,976	215,796	213,610	183,227
Totals, North America	5,678,745	5,489,714	5,478,464	5,289,115	4,670,726
Central America and West Indies	217,082	240,380	209,277	208,501	208,501
South America:					
Bolivia (exports) Brazil ³	153,033 136,000	50,053 145,000	84,927 162,000	16,237 177,000	11,494
Guyana	2,848	2,111	2,077	3,045	2,380
Chile	52,400 324,514	65,620 364,991	73,818 319,362	78,223 280,823	55,974 258,186
Ecuador	21,041	16,905	11,458	10,892	6,738
French Guiana,	6,993	4,823 92,503	105.183	632 94,978	82.606
Peru	3,537	8,231	6,269	5,159	4,514
Venezuela	26,946	33,536	23,660	18,872	18,787
Totals, South America	828,331	783,773	788,754	685,861	
Europe	700,000	800,000	800,000	800,000	- S
Australia:					
New South Wales	11,395	10,569	9,640	9,078	10,093
Queensland	68,586 24,668	100,937	76,964 19,246	139,202	95,777 10,996
Western Australia	802,860	715,481	656,355	627,052	573,837
Tasmania	36,422 80,039	34,381 81.182	32,897 82,541	36,502 84,126	37,485 72,821
Totals, Australia (Commonwealth)	1,023,970	963,834	877,643	916,985	801,009
Oceania, other:	107,262	100,493	109,095	112,567	111,108
New Guinea	43,599	38,978	32,494	28,106	27.671
New Zealand	14,206	8,948	12,136	8,964	10,763
Totals, Oceania, other	165,067	148,419	153,725	149,637	149,482
Asia:	138,280	147.958	130,596	120.244	101,468
Japan	432,572	460,171	519,163	555,476	678,134
Korea, Republic of	90,086	75,779 7,295	62,823 3,982	60,765	63,337 7,289
Malaya	376,006	425,770	435,545	452,672	490,557
Saudi Arabia	31,710	17,660	32,148	41,805	32,414
Taiwan (Formosa) Totals, Asia	1,077,770	1,134,633	1,184,257	1,233,921	1,367,199
Africa: Botswana	142	10			
Cameroons	1,874	739	1,286	900	800
Congo, Republic of	2,958 214,574	3,567 188,339	3,718 90,408	4,080 159,821	5,074 152,973
Congo, Republic of the Ethiopia	25,000	25,000	24,236	21,256	23,612
Gabon, Republic of	35,719 921,255	42,760 864,917	37,134 755,191	34,466 684,394	762,609
Ghana	10,193	12,480	11,420	11,988	33,366
Liberia	1,960	1,824	1,701	4,351 852	6,025 752
Malagasy Republic Nigeria	316	244	80	61	39
Republic of South Africa	27,431,573 566,277	29,111,524 575,386	30,553,874 549,681	30,879,700 550,000	30,532,880 515,000
Rhodesia	102,917	93,040	90,819	60,473	18,486
Uganda	16	24	36	3	
Totals, Africa	29,315,674	30,920,294	32,120,182	32,412,345	•••
U.S.S.R.4	5,100,000	5,600,000	5,030,000	5,370,000	5,700,000
Totals, World ⁵	44,106,639	46,081,047	46,642,302	47,066,365	

¹ In compiling this table, free use has been made of the reports of the Director of the Mint, the U.S. Bureau of Mines and other publications.
2 U.S. Bureau of the Mint.
3 Mined gold only; production of alluvial gold unknown.
4 Conjectural.
5 Other gold producing countries not listed in this table are included in the estimate for the total.

Source: "Annual Report of the American Bureau of Metal Statistics".

EMERGENCY GOLD MINING ASSISTANCE ACT

Chaken from the "Report on the Administration of the Emergency Gold Mining Assistance Act" of the Department of Energy, Mines and Resources)

Summary of Operations for the Year 1967

The Emergency Gold Mining Assistance Act was amended by Chapter 17 of the statutes of 1967. The amending act, which received Royal Assent on December 21, 1967, extended the application of the Act for three years to the end of 1970 without change in the formula for computing the amount of assistance payable.

The Act was introduced in 1948 to provide the operators of marginal gold mines with financial assistance in meeting rising costs of production. The assistance has extended the operating life of many gold mines and has thereby allowed the communities dependent upon them to adjust gradually to diminishing economic support.

An amendment to the Act in 1963 contained a restriction limiting engibility for assistance in the case of lode gold mines commencing production after June 30, 1965 to those providing direct economic support to an existing mining community. A gold mine is deemed to provide such support if more than 50 per cent of the persons employed at the mine reside in the established mining communities listed in a schedule to the Act.

The number of lode gold mines receiving assistance under the Act has declined from 87 in 1948 to 44 in 1960 and to 39 in 1967.

Three lode gold mines receiving assistance ceased operations in 1967 the to rising costs and the depletion of ore reserves. Two other mines merged under the management of one operator. Three new mines began operations and became eligible for assistance in 1967.

The amount of assistance payable to an operator is determined by a formula based on the average cost of production per ounce of gold and the animber of ounces produced. Under the current formula the assistance payable to the operator of a gold mine is computed by adding 25 per cent to the product of two factors, the "rate of assistance" and the number of assistance ounces". The number of assistance ounces is two thirds of the total ounces produced and sold to the Royal Canadian Mint by a mine in a salendar year. The rate-of-assistance factor is two thirds of the amount by which the average cost of production exceeds \$26.50. The rate-of-assistance factor is limited to a maximum of \$12.33 which is reached when the average cost of production rises to \$45 per ounce of gold produced.

When calculated on the basis of all eligible ounces produced, the maximum assistance payable amounts to \$10.27 per ounce.

The average cost of production is determined by dividing the total allowable costs by the total number of ounces produced in the form of bullion from the mine in a calendar year. Only those ounces of gold which have been sold to the Royal Canadian Mint are eligible for inclusion in the assistance-ounces factor.

The cost of production of gold from a mine includes mining, milling, smelting, refining, transportation, and administration costs. Allowances are made for depreciation, preproduction costs and expenditures on exploration and development on the mine property in accordance with the Regulations.

The amounts paid to gold-mine operators to March 31, 1968 for the years 1948 to 1967 inclusive totalled \$246,360,675.18 on a production of \$5.369,122.298 fine ounces of gold produced and sold in accordance with the requirements of the Act.

The total assistance payable for gold produced and sold in the calendar year 1967 is estimated to be \$15.4 million. For the year 1967, the total assistance paid to March 31, 1967 was \$12,027,016.07. This sum is about 90 per cent of the assistance payable on applications received to that date. The remaining 10 per cent holdback is payable after an audit has been completed on the accounts of the applicants.

Payments amounting to \$14,620,449.55 have been made to March 31, 1968 on gold produced in the calendar year 1966. The addition of holdback payments is expected to bring the total for the year to approximately \$15.4 million.

Applications for assistance have been received from 37 lode gold mines for the calendar year 1967. In addition, applications from operators of placer gold mines in British Columbia and the Yukon Territory will be submitted. In 1966, seventeen operators of placer mines applied for systems.

The Gold Export Act, passed in 1932, authorizes the Governor in Council to make regulations governing the export of gold from Canada. On March 21, 1956, the regulations which prohibited the export of gold in any form except under licence issued by the Minister of Finance were

revoked. Since that time, gold-mine operators have been free to sell their gold without restriction. However, only gold sold to the Royal Canadian Mint is eligible for assistance under the provisions of the Emergency Gold Mining Assistance Act.

The annual average of the weekly buying prices in Canadian funds by the Royal Canadian Mint in 1967 was \$37.75 per ounce of fine gold. In 1967 and prior years, the price of gold in Canadian funds was governed by the fixed buying price of \$35 per fine ounce in United States funds by the United States Treasury and the exchange rate between the Canadian and United States dollars. Since May 1962, the value of the Canadian dollar has been set at \$0.925 United States funds. At parity the Mint buying price for gold is \$37.84 per ounce in Canadian funds. The market value of the Canadian dollar is permitted to fluctuate by one per cent above or below parity. Thus the Mint buying price in Canadian funds may vary between \$37.46 and \$38.22 per ounce.

The governors of the central banks of Belgium, Germany, Italy, the Netherlands, Switzerland, Britain and the United States met in Washington on March 16-17, 1968 to consider problems related to the maintenance of exchange stability. The governors agreed to establish a two-price system for gold. Only gold then held in the official reserves of the seven countries would be bought or sold in transactions with monetary authorities at the existing price of \$US35 an ounce. It was agreed that gold in the official reserves would not be sold in any other gold market, nor would gold be purchased from the market by the central banks.

As a consequence of the agreement, Canada may sell newly mined gold only on the free market. The price of gold on the free market is determined by supply and demand.

Following the agreement by the central bankers, the Royal Canadian Mint continued to purchase gold from gold mine operators at a price of \$US35. Thus, gold newly mined in Canada continued to be eligible for assistance under the Emergency Gold Mining Assistance Act provided it was sold to the Mint. It should be noted that the amount of assistance payable to a gold-mine operator is based on the cost of production of the gold and is not related to its selling price.

Conditions Governing Eligibility for Assistance

A mine, to be classified as a gold mine for purposes of the Act and Regulations, must fulfil the following conditions:

- The value of gold produced must be 70 per cent or more of the total value of the output of the mine.
- The mine must produce at least 50 troy ounces of fine gold in a designated year.
- Ore reserves of commercial significance must be developed and there must be a reasonable possibility of attaining production of gold on a commercial basis within a reasonable time.

The operator of a mine must also conform to the following requirements to be eligible for assistance payments:

- 1. Application in prescribed form for assistance payments for a designated quarter or year must be received by the Department of Energy, Mines and Resources within six months after the end of the designated period. Advance payments may be made for a calendar year or for quarterly periods beginning with the first day of the months of January, April, July or October. Schedules 1 and 11 are to be used in making application for assistance.
- The average cost of production per ounce of gold, computed on all ounces of gold produced from the mine during the designated period, must exceed \$26.50.
- Assistance payments are made only for those ounces of gold produced from the mine during the designated period which are:
 a. sold in the form of bullion to the Royal Canadian Mint by the operator; or
 - b. sold in the form of ore or concentrate to a domestic smelter, provided the smelter operator certifies that a number of ounces equivalent to those paid for by the smelter have been sold to the Royal Canadian Mint as soon as is practicable after the shipment of the ore or concentrate and the separation of the gold therefrom; or
 - exported and sold in the form of ore or concentrate to a foreign smelter.

- 4. The operator of a mine applying for assistance for the first time must submit a declaration of ownership of the mine on Schedule
- 5. A new gold mine, which is operated by an incorporated company, must be declared in production in accordance with Section 83(5) of the Income Tax Act. Status as a new mine may be obtained through application to the Taxation Division, Department of National Revenue, Ottawa.

Administration

The Act is administered under the direction of the Assistant Deputy Minister (Mineral Development), Department of Energy, Mines and Resources. Inspection engineers annually visit each mine receiving assistance for the purpose of determining the exploration and development expenditures which will be classified as capital expenditures for inclusion in allowable costs on a deferred basis, and for reporting upon the operations conducted at the mine insofar as they affect the payment of

Assistance applications are generally submitted at the end of each quarter. If found to be complete and in accordance with the Act and the Regulations, they are approved and an advance payment is forwarded to the operator. The Regulations provide that the advance payment shall not exceed 90 per cent of the assistance payable under the application. When the final audit of the accounts has been completed, the remaining holdback is approved for payment.

The Department has received the proficient assistance and cooperation of the Audit Services Branch, Office of the Comptroller of the Treasury, in the examination of applications and in the verification of information received by an audit of the accounts of the operators:

Act and Amendments

- 1. The Act received Royal Assent on May 14, 1948, and came into force by proclamation on June 15, 1948.
- 2. Chapter 20, 13 George VI (second session), received Royal Assent-December 10, 1949.
- 3. Chapter 49, 15 George VI (first session), received Royal Assent, June 30, 1951
- 4. Chapter 25, 1 Elizabeth II, received Royal Assent, June 18, 1952.
- 5. Chapter 32, 1-2 Elizabeth II, received Royal Assent, May 14, 1953.
- 6. Chapter 26, 2-3 Elizabeth II, received Royal Assent, March 31, 1954.
- 7. Chapter 19, 3-4 Elizabeth II, received Royal Assent, May 26, 1955.
- 8. Chapter 20, 4-5 Elizabeth II, received Royal Assent, June 26, 1956.
- 9. Chapter 28, 7 Elizabeth II, received Royal Assent, September 6, 1958.
- 10. Chapter 28, 8-9 Elizabeth II, received Royal Assent, July 7, 1960.
- 11. Chapter 25, 12 Elizabeth II, received Royal Assent, December 12,
- 12. Chapter 17, 16 Elizabeth II, received Royal Assent, December 21, 1967.

Regulations and Amendments

- 1. The Regulations made by the Governor in Council under the Authority of Section 6 of the Act were approved by Order in Council, P.C. 2664, June 11, 1948.
- 2. Order in Council, P.C. 1753, April 12, 1950.
- Order in Council, P.C. 3925, July 31, 1951.
 Order in Council, P.C. 1954-379, March 19, 1954.
- 5. Order in Council, P.C. 1954-863, June 10, 1954.
- Order in Council, P.C. 1956-11, January 5, 1956.
 Order in Council, P.C. 1960-1162, August 24, 1960.
- 8. Order in Council, P.C. 1965-1889, October 25, 1965.

TABLE 25. Emergency Gold Mining Assistance Act - Estimated Assistance Payable, 1960 - 67

Province	1960	1961	1962	1963	1964	1965	1966	1967
				dolla	urs			
Quebec Ontario Manitoba British Columbia Yukon Northwest Terrilories	3,025,354 8,713,404 209,027 360,557 54,176	2,917,683 9,105,418 250,232 319,395 73,931	3.454,353 9,903,925 164,268 417,290 245,649 169,528	3,198,240 9,766,710 246,771 573,070 278,319 258,078	3,358,038 10,391,535 295,642 750,554 202,604 458,128	3,559,739 10,138,365 256,559 726,637 216,458 556,088	3,838,453 9,989,960 222,253 655,060 128,918 609,447	3,915,077 9,810,445 137,621 537,593 21,220 677,770
Canada	12,362,518	12,666,659	14,355,013	14,321,189	15,456,501	15,453,847	15,444,091	15,102,730

COPPER-GOLD-SILVER MINES

This portion of the report includes Statistics for industry 053-Copper-Gold-Silver mines of the Standard Industrial Classification Manual (Catalogue No. 12-501).

During the year "copper-gold-silver" mines operated in Newfoundland, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan, British Columbia, Yukon and Northwest Territories. It is to be noted that, in addition to the copper recovered from ores of this type, there is a very large quantity of the metal obtained in the smelting and refining of the copper-nickel ores mined in the Sudbury area of Ontario; important quantities of gold and silver are also being extracted from these copper-nickel ores. The lead-zinc-copper ores of Newfoundland also contribute to the production of copper, gold and silver.

The statistics as herein shown under the copper-gold-silver mining industry refer only to mines and mills and do not include data pertaining to the operation of smelters and refineries. Statistics relating to the reduction of non-ferrous ores are recorded under the smelting and refining industry.

TABLE 26. Principal Statistics, Copper-Gold-Silver Mines, 1963 - 67 Basis: Revised Standard Industrial Classification and New Establishment Concept

				M	lining activi	ty					Total activity		
Year	Estab- lish-		oduction an lated worker		Cost of	Cost of	77.1			owners uriners	Emple	oyees	
	ments	Number	Man- hours paid	Wages	fuel and elec- tricity	materials and supplies	Value of production	Value added	Number	With- drawals	Number	Salaries and wages	Value added
	No.		'000'			\$,000				\$'000		\$10	000
1963	30 30 35 43 45	8,874 8,815 9,116 9,986 10,776	18,658 18,478 19,458 21,502 22,515	43,627 44,671 48,157 57,442 65,660	7,118 7,384 8,373 9,535 12,463	88,522 96,985 106,130 121,532 173,963	249,872 282,031 321,620 408,082 543,914	154,231 177,662 207,117 277,015 357,488		-	10,754 10,716 11,086 12,467 13,270	55,128 56,534 61,049 73,461 84,118	159.315 181.773 211.431 282.435 360.838

TABLE 27. Employment and Payroll, Copper-Gold-Silver Mines, 1963 - 67
Basis: Revised Standard Industrial Classification and New Establishment Concept

Salaries and wages Employees Production and related workers Sales and Adminis-Total Production and Admintrative and office Sales and distri-bution istra-tive and office distribution related workers Year Total Mining Other Mining Male Male Female Other Male Male Female Male Female Female Female \$1000 10,498 256 43,627 159 11,342 55,128 8,840 34 1,627 1963 10,460 254 44,671 259 11,604 56,534 8,779 34 58 1,623 1964 9,073 43 25 218 10.825 261 48,157 80 12,812 61.049 1965 73,461 9,947 39 141 2,074 261 2 12,164 303 57,442 518 15,490 1966 2 340 88 18,360 10 84,118 57 2 2,149 281 12,930 65,660 10,719 60 1967

TABLE 28. Production and Related Workers, Copper-Gold-Silver Mines, 1966 and 1967

		201		3,4111		
		Mine		Mill		
Year and month	Surfac	ee	Under- ground	Male	Female	
	Male	Female	Male			
			number			
766						
anuary	2,562	17	4,910	1,866	19	
ebruary	2,575	17	4,894	1,836	19	
larch	2,588	17	4,887	1,855	19	
pril	2,619	17	4,923	2,059	21	
lay	2,767	17	5,072	2,127	22	
une	3,032	17	5,211	2,216	24	
uly	3,166	18	5,298	2,249	25	
August	3,066	18	5,209	2,243	25	
eptember	2,870	18	4,982	2,127	21	
October	2,887	18	4,963	2,092	21	
November	2,936	18	5,047	2,189	21	
December	2,879	18	4,992	2,183	22	
Averages	2,829	18	5,032	2,087	22	
967						
anuary	2,720	31	5,084	2,585	24	
ebruary	2,664	31	5,184	2,633	24	
March	2,636	31	5,242	2,713	24	
April	2,596	35	5,273	2,726	24	
May	2,755	34	5,311	2,898	27	
une	2,883	34	5,357	3,007	28	
uly	2,847	33	5,269	3,036	25	
agust	2,796	33	5,230	2,958	25	
September	2,650	32	5,095	2,719	21	
h tober	2,663	32	5,059	2,744	2:	
Nevember	2,713	33	5,134	2,764	2:	
December	2,720	34	5,104	2,767	23	
Averages	2,723	33	5,197	2,796	25	

TABLE 29. Purchased Fuel and Electricity Used, Copper-Gold-Silver Mines, 1966 and 1967

		1966		1967		
Description		Quantity Cost		Quantity	Cost	
			\$,000		\$'000	
Large establishments reporting commodity detail:		La state				
Bituminous coal:						
(a) From Canadian mines	ton	166	4	653	12	
(b) Imported	4.4	974	19	625	12	
Sub-bituminous coal (from Alberta mines only)			_	_		
Anthracite coal	ton	28		49	1	
Lignite coal	64	9		10	1	
Coke	4.6	35	1	40	1	
Gasoline (including gasoline used in cars and trucks)	Imp. gal.	840,588	326	1,110,511	295	
Fuel oil including kerosene or coal oil	74	10,609,041	1,985	16,330,756	3,020	
Wood			_			
Gas:						
(a) Liquefied petroleum gases	Imp. gal.	772,106	118	1,097,989	170	
(b) Other manufactured gas			8		12	
(c) Natural gas	M cu. ft.	62,268	38	652,916	360	
Other fuel			56		34	
Electricity purchased	kwh.	1,138,271,545	6,916	1,285,054,497	8,410	
Steam purchased			64		35	
Total fuel and electricity used			9,535	***	12,463	
Electricity generated:						
(a) For own use	kwh.	103.968,655		158,075,408		
(b) For sale	44.	1,109,270		1,335,700		

TABLE 30. Materials and Supplies, Copper-Gold-Silver Mines, 1966 and 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

Description	(Cost			
	1966	1967			
	S	5,000			
TE or other semi-processed materials purchased and used in mine/mill operations	1,838	1,846			
ontainers, shipping materials and supplies used	45	47			
perating, maintenance and repair supplies used (excluding fuel)	41,344	51,684			
mount paid out to others for work done on materials owned by establishments:					
To smelters and/or refineries	63,136	101,635			
To others (mining, milling, etc.)	15,169	18,751			
Totals	121,532	173,963			

Note: Refer to concepts and definitions, 1964 issue of this report, for explanation or differences in Tables 36 and 37 with data published in earlier years.

TABLE 31. Value of Production, Copper-Gold-Silver Mines, 1966 and 1967

Basis: Revised Standard Industrial Classification and New Establishment Concept

Description	Valu	e	
	1966	1967	
	\$'00	00	
lue of production	406,175 1,907	542,423 1,491	
Total value of production and work done	408,082	543,914	

TABLE 32. Shipments from Copper-Gold-Silver Mines, 1966 and 1967

	Quantity		Total metal	content as determ	ined by settleme	ent assay ¹	
		Gold	Silver	Copper	Lead	Zinc	Sulphur
	tons	fine our	nces		lb.		tons
1966			111 - 111				
To Canadian plants:							
Ores	814.585	66,320	173,658	18,798,000	-	-	_
Copper concentrates	1,300,809	324,985	6,605,890	518,159,308		20,894,082	
Zinc concentrates	189,977	9,826	257,118	3,455,542	_	152,447,121	44*
Lead concentrates	3,279	2,966	84,037	237,976	3,070,923	-	_
	3	2,,,,,			-	_	3,5292
Molybdenum concentrates	2,457						1.150
Pyrite concentrates		27,822	163,890	43,951		10,483	
Residues, bullion and gold precipitates	51	21.022	103,090	45,751		10,405	
Tailings	65,915	-	-	-		_	
To foreign plants:							
Copper concentrates	252,665	43,919	1,649,867	131,030,382	1,323,865	2,827,297	
Zinc concentrates	218,821	231	89,823	49,577		217,467,749	
Lead concentrates	2,587	35	185.990	310,371	1,921,626	257,108	-
Molybdenum concentrates	15			-	-	-	13,850
Pyrite concentrates	324,497	_	_		_	_	161,150
Iron concentrates	73,361		_	-	_	-	
Silver concentrates	220	_	649,724	_	-	-	
Tailings	30,100	nam.	_	_	_		
Precipitates	429	_		299,791	-	-	
Totals	3,279,771	476,104	9,859,997	672,384.898	6,316,414	393,903,840	179,679
1967							
To Canadian plants:							
Ores	671,191	25,292	95,444	10,123,900	-	-	_
Copper concentrates	1,464,499	303,116	8,665,840	617,436,124	2,218,315	54,630,043	-
Zinc concentrates	195,928	3,809	122,466	1,158,222	_	195,105,757	-
Lead concentrates	4,533	2,261	104,021	260,618	4,767,530	556,423	-
Molybdenum concentrates ,							_
Pyrite concentrates				_		-	-
Residues, bullion and gold precipitates	221	29,695	868,214	42,205	_	9,578	-
Tailings	81,972		-	-	-	-	6.15
To foreign plants:							
Ores	3	-	29,500	_	_	_	_
Copper concentrates	35 8.405	69,624	1,760,730	199.518.018	3,599,962	7,228,045	_
Zinc concentrates	650,405	2.465	1,927,401	2,798,017	2,417,313	675,116,834	_
Lead concentrates	30,604	63	2,186,375	3,946,671	9,805,100	5.552,857	
Molybdenum concentrates	472	-	=1.00(070	0,7.10,07.8	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		507,519
	377.940			-			182,374
Pyrite concentrates	1.842	617	30,134	216,020	334,741	1,143,639	
Other concentrates	217	017	545.914	240,020	224,141	12401003	
Silver concentrates	541		543,714	411,000			
Precipitates		-	-	411,000			
Tailings,	46,318	-	-	-			
Totals	3,885,091	436,942	16,336,039	835,910,795	23,142,961	939,343,176	689,893

¹ In addition cadmium, bismuth, tellurium and selenium are recovered from these ores.
2 Pounds of molybdenum content.

TABLE 33. Ores Mined. Milled, and Concentrates Produced, by the Copper-Gold-Silver Mines, 1958 - 67

Year	Ore mined	Ore milled	Copper concentrates produced ¹	Zinc concentrates produced	Iron pyrite concentrates produced	Lead concentrates produced
			tor	ns		
958 959 960 961 962 963 964 965	11,484,960 12,436,105 13,973,786 15,008,993 17,744,713 19,640,423 20,196,539 20,016,849 23,085,616 31,279,288	11,274,297 11,577,414 13,316,340 14,411,758 16,980.625 18,745,756 19,494,495 19,586,915 22,830,688 29,815,114	1.106,733 1.135.190 1.266,757 1.259,871 1.433,264 1.389,336 1.460,128 1.470,264 1.562,775 1.808,059	229,962 231,959 270,705 299,806 343,922 317,923 324,794 360,073 425,612 855,731	782,828 674,450 573,340 508,854 322,636 476,899 360,801 461,410 374,688 398,451	2,040 6,76: 12,431 16,533: 9,39: 7.61: 6,20: 49,06

¹ Exclusive of copper precipitates.

TABLE 34. Specified Expenditures by Companies engaged in Copper-Gold-Silver Operations, 1967

	\$'000
Washman's compansation	2 220
Workmen's compensation Silicosis assessment	157
Onemployment insurance Aggregate cost of structures, roads, machinery, equipment, etc., built by or purchased from outside contractors or suppliers and	577
chargeable to Fixed Assets Account Book value of fixed Assets (new structures roads machinery equipment etc. including major renairs and alterations) produced by	1,138
own employees and chargeable to Fixed Assets Account Other capital expenditures not reported in (d) and (e)	9,468
Cost of materials and supplies used in the production of machinery and equipment and in the construction of roads and new structures	13
(including major repairs and atterations by own employees and chargeable to Fixed Assets Account). Cost of office supplies used during the year, not chargeable to Fixed Assets Account. Excludes cost of stamps and	7,499
meter expenses	500

¹ Includes smelting and refining operations and other related corporate activities associated with Canadian copper-gold-silver mines not allocable separately elsewhere.

TABLE 35. Taxes Paid by Companies engaged in Copper-Gold-Silver Operations, 1967

Taxes paid	\$'000
Dominion income tax, including tax on non-operating revenue	25,512 20,737 3,080
Grand total taxes paid	49,329

TABLE 36. Drilling Completed on Copper-Gold-Silver Deposits, 1966 and 1967

	Foota	ge drilled
	1966	1967
Diamond drilling for exploration (testing only): By mining companies with their own personnel and equipment By diamond drilling contractors	1,120,874	43,612 1,256,021
Other diamond drilling: Blast hole diamond drilling: By mining companies with their own personnel and equipment By diamond drilling contractors	131,411 168,971	195,687 442,050
Orilling by percussion or other machines 1	30,891,243	30.143.158

Not complete as these data are not recorded by some operators.
Note: Value of diamonds in all forms (stones, bits, etc.) used during the year 1966 was \$170,340, and during the year 1267 was \$49,427.

TABLE S7. Copper Production (Recoverable) according to Nature of Ore, and by Provinces, 1966 and 1967

Province	From copper- gold-silver ores	From nickel- copper ores	From other ores	Total
		tons	S	
1966 Newfoundland Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan British Columbia Yukon Northwest Territories Canada	16,746 5,183 157,119 53,926 22,490 19,549 49,812 664 325,489	2,020 140,425 8,825 12 774	2,648 115 1,906 12,859 8,625 	19,394 115 7,089 171,998 202,976 31,315 19,561 52,880 748
1967 Newfoundland Nova Scotia New Brunswick Duebee Dutario Manitoba Saskatchewan British Columbia Yukon Northwest Territories Canada	19,028 3,806 153,076 103,266 21,040 22,871 83,399 3,584 472 410,542	1,505 164,195 8,520 104 839	2,937 28 1,980 11,804 8,685 2,081 94 27,609	21,965 22 5,786 166,385 276,144 29,566 22,975 86,315 3,588 566

TABLE 38. Production of Refined Copper, 1 1958 - 67

Year	Short tons	Year	Short tons
1958	329,239	1963	380,075
1959	365,366	1964	407,942
1960	417,029	1965	434,133
1961	406,359	1966	433,004
1962	382,868	1967	499,846

¹ In all forms and from all sources, including scrap.

TABLE 39. Silver Production (Recoverable) according to Nature of Ore, by Provinces, 1967

Province	Crude placer gold	Auriferous quartz ores	Copper- gold-silver ores	Nickel- copper ores	Silver- lead-zinc ores	Silver- cobalt and other ores	Total
				troy ounces			
Newfoundland Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia Yukon	14 123 1,700	77,885 334,203 2,658 - 92,510	79,972 56,839 3,537,686 8,043,314 578,884 597,942 928,757 87,991 1,912,751	18,468 1,626,992 47,769 875	993,181 89,238 2,960,577 1,019,427 464,936 6,398 5,061,227 3,779,683	5,766 3,839,946 	1,073,153 89,238 3,017,416 4,659,232 14,319,391 605,215 14 6,082,617 3,869,374
Northwest Territories	1,837	574,271	15,824,136	1,694,104	14,374,667	3,846,174	1,980,22 36,315,18

TABLE 40. Selenium and Tellurium Recoverable from Canadian Ores, 1958 - 67

	From copper-gold-silver ores		From nickel-copper ores		Total			
Year	Selenium	Tellurium	Selenium	Tellurium	Selenium	Tellurium		
	pounds							
1958 1959 1960 1961 1962 1963 1964 1965	216,695 266,707 377,138 265,812 344,151 373,672 360,841 388,902 464,482 589,773	31,558 6,123 37,232 69,559 51,714 69,137 69,882 60,479 63,239 66,719	90,295 101,400 144,500 164,800 142,915 95,100 104,905 123,175 111,000 134,800	6,692 6,900 7,450 8,050 7,011 7,705 7,900 9,315 9,000 6,500	306,990 368,107 521,638 430,612 487,066 468,772 465,746 512,077 575,482 724,573	38,256 13,023 44,682 77,609 58,725 76,842 77,782 69,794 72,235 73,215		

TABLE 41. Zinc Production (Recoverable) according to Nature of Ore, and by Provinces, 1966 and 1967

Year and province	Recoverable from copper-gold-silver ores	Recoverable from silver-lead-zinc and other ores	Total
		tons (2,000 pounds)	
966			
Newfoundland	2,193	31,967	34,160
Nova Scotia		678	678
New Brunswick	_	142,395	142,395
Quebec	85,190	207,957	293,147
Ontario	58,713	23,682	82,395
Manitoba	34,967		34,967
askatchewan	28,910	-	28,910
British Columbia	1,003	151,559	152,562
Yukon	-	5,725	5,725
Northwest Territories	_	189,167	189,167
Canada	210,976	753,130	964,106
967			
Newfoundland	2,554	32,297	34,851
Nova Scotia	_	23	23
New Brunswick	_	151,357	151,357
Duebec	85,248	160,636	245,884
Ontario	247,762	20,770	268.532
Manitoba	36,258		36.258
Baskatchewan	26.657	1.755	28.417
British Columbia	12,449	118,967	131,416
Yukon	-	4,738	4,738
Northwest Territories	-	209.982	209,982
Canada	410.928	700,525	1,111,453

TABLE 42. Refined Zinc Produced, from all Sources, 1958 - 67

Year	Short tons	Year	Short ton	
958	252,093	1963	284,021	
	255,306	1964	337,734	
	260,968	1965	358,498	
	268,007	1966	382,605	
	280,159	1967	405,136	

TABLE 43. World Copper Production by Countries of Origin of Ore¹

Country	1963	1964	1965	1966	1967
United States Mexico Canada Cuba ² Haiti Nicaragua Bolivia ³ Brazil Chike Peru	1,208,197 61,576 461,823 6,600 6,553 8,028 3,300 1,700 662,126 195,608	1,251,216 57,877 486,900 6,600 6,208 10,185 5,160 3,100 685,259 192,328	1,356,275 76,237 509,792 6,600 6,500 10,881 5,215 3,100 645,227 198,784	1,407,937 82,007 508,300 6,600 11,007 10,763 6,285 3,100 701,456 194,439	950,0006 69,028 602,646 7,000 8,700 11,259 6,991 3,000 727,786 211,612
Totals, America	2,615,511	2,704,833	2,818,611	2,931,894	2,598,022
Austria Finland France Germany, Federal Republic	2,078 36,777 441 2,515	1,725 34,379 331 1,759	1,678 32,760 441 1,184	2,043 29,774 670 1,386	2,101 31,704 660 1,369
Ireland Italy Norway Portugal Spain ⁴ Spaine Syden Yugoslavia	1,100 15,724 3,627 26,275 19,029 68,446	887 16,439 4,812 28,698 17,846 69,648	837 16,574 4,187 27,054 17,402 68,950	1,743 1,268 16,333 4,117 30,767 16,736 68,588	3,881 1,901 15,932 4,038 36,141 16,781 69,612
Totals, Europe	176,012	176,524	171,067	173,425	184,120

See footnote(s) at end of table,

TABLE 43. World Copper Production by Countries of Origin of Ore1 - Concluded

Country	1963	1964	1965	1966	1967	
	tons (2,000 pounds)					
Japan India Israel Korea, Republic of Turkey Philippines Cyprus ⁴	118,185 11,034 6,087 542 32,189 70,201 29,000	117,036 10,740 10,948 536 34,925 66,654 18,514	118,020 10,400 9,126 978 35,000 69,806 21,515	123,104 10,583 11,194 929 37,000 81,303 27,269	129,903 10,085 10,432 1053 34,162 94,573 16,755	
Totals, Asia	267,238	259,353	264,845	291,382	296,963	
Congo, Republic of the Rhodesia South West Africa Uganda South Africa, Republic of Zambia	297,537 18,489 30,709 17,875 60,792 648,238	304,877 18,341 35,887 20,129 65,579 709,754	318,128 19,800 32,007 18,894 66,640 766,976	349,098 19,000 37,597 18,800 137,400 687,174	352,931 19,800 32,865 15,902 140,583 731,000	
Totals, Africa	1,073,640	1,154,567	1,222,445	1,249,069	1,293,081	
Australia	119,470	110,350	95,785	116,484	94,465	
U.S.S.R. ² Bulgaria ² Germany, East ² Poland ² China ² Totals, Soviet Sphere	600,000 18,000 30,000 14,600 60,000	675,000 20,200 30,900 16,000 80,000	710,000 22,500 30,900 16,600 85,000	770,000 25,000 31,000 17,700 85,000 928,700	850,000 28,000 31,000 17,900 85,000	
World totals, as reported ⁵	4,974,471	5.227.727	5,437,753	5,690,954	5.478.551	

Source: "Amortism Burgan of Modal Stabilics Year book"

FABLE 44. Cadmium Production (Recoverable) from Canadian Ores, 1958 - 67

	Year	From copper- gold-silver ores	From silver- lead-zinc ores	Total
59 60 61 62 63 64 65		355,602 334,029 466,200 307,757 405,317 389,185 673,317 783,132 802,449 2,864,494	1,400,448 1,826,334 1,891,297 1,914,193 2,199,656 2,086,3300 2,099,667 972,793 2,434,413 1,971,823	1,756,05 2,160,36 2,357,49 2,221,95 2,604,97 2,475,48 2,772,98 1,755,92 3,236,86 4,836,31

TABLE 45. Average Annual Metal Prices in Canadian Dollars, 1958 - 67

	Gold	Silver	Соррет	Lead	Zinc
Year	Per troy ounce	Per troy ounce	ounce Per pound Per pe		Per pound
			dollars		
958 959 960 961 962 963 964 965	33.98 33.57 33.95 35.46 37.41 37.75 37.75 37.73 37.71	0.86 81 0.8778 0.8891 0.94 26 1.16 50 1.3840 1.4000 1.4000 1.3990 1.7320	0.2542 0.2961 0.3029 0.2919 0.3100 0.3150 0.3760 0.4490 0.4757	0.1136 0.1061 0.1068 0.1021 0.0992 0.1100 0.1344 0.1550 0.1494	0.108 0.122 0.133 0.125 0.121 0.127 0.144 0.151 0.151

Includes copper contents or recoverable contents of ores or concentrates smelted in country of origin and/or shipped to other countries for smelting.

Conjectural.

Exports.

Excludes copper content of iron pyrites which may or may not have been recovered.

In addition there is production in Argentina, Ecuador, Burma, Taiwan, Algeria and Morocco: the total of all these countries is estimated to be about 5,800 tons in 1966.

Estimated to take into account mine production normally smelted in the United States but which, because of the 1967-68 strike, was diverted to plants elsewhere.

TRANSACTIONS IN GOLD BULLION AT THE ROYAL CANADIAN MINT

(From the Annual Report of the Royal Canadian Mint)

GOLD AND SILVER BULLION

Three thousand eight hundred and seventy-five deposits of gold bullion were received during the year from Canadian Mining Companies and Sundry Persons. In addition, twelve deposits of silver bullion were received from Crown Assets Disposal Corporation.

The net value paid to depositors was \$78,643,446.03. In addition the amount of fine gold issued to depositors was 349,204.769 ounces.

The following table shows the disposition of the fine gold produced in various forms (trade bars, granulated gold, gold coin, sweep, medals, etc.):

	Ownces fine
4,837 Trade bars transferred to Exchange Fund Account of Minister of Finance Depositors-granulated and bars:	1,931,042.914
Gold Purchase 2,885.223	349,204.769
Sales of fine gold	19.290
Trial plate for assay purposes	2.116
Medals, etc	19.743 7.397.892
	2.287.686.724
Gold coin	102,759.390
Total	2,390,446.114

This total shows a decrease of 240,954.068 ounces fine issued as compared with the year 1966.

Comparative Statement Showing Details of Gold and Silver Deposits Received for 1966 and 1967

		Number of dep	osits received			Gross of	unces	
	1966	1967	Increase	Decrease	1966	1967	Increase	Decrease
Sale to Her Majesty For storage Jewellery and miscellaneous	3,405 552 206	3,089 576 210	- 24 4	316	2,810,113 452,667 14,565	2,518,054 469,154 17,732	16,487 3,167	292,059
Totals	4,163	3,875	-	288	3,277,345	3,004,940		272,405
Silver deposits from: Crown Assets Disposal Corporation Department of Veterans Affairs	10 883	12	2	883	3,951 724,122	17,111	13,160	724,122
Total received	5,056	3,887	-	1,169	4,005,418	3,022,051		983,367
	Fine gold ounces				Fine silver ounces			
	1966	1967	Increase	Decrease	1966	1967	Increase	Decrease
Sale to Her Majesty For storage Jewellery and miscellaneous	2,321,664 348,400 6,338	2,078,092 353,195 7,225	4,795 887	243,572	342,937	315,337	_	27,600
Totals	2,676,402	2,438,512	-	237,890	342,937	315,337	_	27,600
Silver deposits from: Crown Assets Disposal Corporation Department of Veterans Affairs	_		-	700	3,686 599,270	8,183	4,497	599,270
Total received	2,676,402	2,438,512	_	237,890	945,893	323,520	-	622,37

Details of origin of the bullion deposited, for sale to Her Majesty, and for storing during the year 1967 are shown in the following table:

From Canadian mines and refineries	Sale to Her Majesty		Gold storage		Total		Total
	Gross weight	Fine gold	Gross weight	Fine gold	Gross weight	Fine gold	fine silver
	ounces						
Ontario Quebec Sritish Columbia Manitoba Yukon Territory Northwest Territories Alberta Nova Scotia	1,496,766,545 668,816.010 77,017.000 16,425.980 10,822.970 248,029.480 175.260 1,260	1,249,575.057 554,077.757 64,323.573 12,095.634 8,484.062 189,388.513 146.057 1.030	196,427.992 10,954.030 	164,610.734 9,115.827 — — — — — ——————————————————————————	1,693,194.537 679,770.040 77,017.000 16,425.980 10,822.970 509,801.530 175.260 1,260	1,414,185,791 563,193,584 64,323,573 12,095,634 8,484,062 368,857,204 146,057 1,030	160,032.77 76,167.07 9,683.92 2,397.12 1,699.98 63,345.39 13.66
Total from Canadian mines and refineries	2,518,054.505	2,078,091.683	469,154.072	353,195.252	2,987,208.577	2,431,286.935	313,339.95
from jewellery and miscellaneous	17,731.510	7,225.365	_		17,731.510	7,225.365	1,997.13
Totals ,	2,535,786.015	2,085,317.048	469,154.072	353,195.252	3,004,940.087	2,438,512.300	315,337.13
Silver deposits from: Crown Assets Disposal Corporation Totals	17,111.060 2,552,897.075	2,085,317.048	469,154.072	353,195.252	17,111.060 3,022,051.147	2,438,512.300	8,182.53 323,519.65

The following table gives details of fine bullion produced during the year:

Produced	Number	Gross weight	Fine weight	Average assay
	ounces			
ine gold trade bars	5,145	2,059,204.375	2,053,966.158	997.:
Franulated gold	-	3,126.780	3,126.468	999.
ine silver bars	310	326,186.67	326,113.52	999.
ranulated silver	-	31,952.35	31,945.31	999
old trial plate		-	2.116	
nishing and plating medals	***		.702	
orage - Fine bars	481	192,434.053	191,889.515	997
Granulated gold	_	154,436.570	154,419.635	999
weeps sold - Gold	_		7,397.892	
Silver		-	40,458.28	
edal bars - Gold			198.986	
Silver			31.55	

Special processes	Number	Gross weight
		ounces
emelts	60 5	23,071.260 1,827.730
		pounds avoir du poids
micride reduction	-	5,203 64,173.5

GOLD STORAGE

During the year four mines deposited gold bullion at the Mint under the terms of the Regulations prescribing the circumstances under which the conditions upon which gold will be accepted at the Royal Canadian Mint for storage.

The fine gold content of the bullion deposited under this heading during 1967 amounted to 353,195,252 ounces. Fine bullion amounting to 346,319.546 ounces was issued on behalf of the mines for export and to various processors for domestic use.

Summary of transactions in Gold Bullion of the Ottawa Branch of the Royal Mint from its opening on January 2, 1908, to its disestablishment on November 30, 1931, and of the Royal Canadian Mint from December 1, 1931, to December 31, 1967.

Year	Gold rec	ceived	Gold issued		
icai	Gross weight	Fine gold	Coin	Bullion	
	ounces		ounces fine		
1908 - 57	155,637,752,821	125,492,536.064	383,319.096	124,933,750.071	
1958	4,868,066.405	3,958,458.747	-	4.088,706,348	
1959	4,805,493.520	3,908,640.185	444	3,836,679.842	
1960	4,970,726.079	4,024,625.964	-	4,014,771.105	
1961	4,745,639.352	3,800,137.419	-	3,812,054.286	
962	4.363.972.339	3,488,974.332		3,520,405.598	
1963	4,319,975.360	3,457,091.639	-	3,467,554.159	
964	3,959,021.466	3,188,867.542	-	3,173,572.886	
1965	3.683,726.452	2,991,450.347	-	3,026,974.351	
966	3,277,345.090	2,676,402.306		2,631,400.182	
1967	3,004,940.087	2,438,512.300	102,759.390	2,287,686.724	
Totals	197,636,658.971	159,425,696.845	486,078,486	158,793,555.558	

CURRENCY, MINT AND EXCHANGE FUND ACT Gold Bullion Regulations, 1959

AT THE GOVERNMENT HOUSE AT OTTAWA

P.C. 1959 - 100

Thursday, the 29th day of January, 1959.

Present:

His Excellency the Governor General in Council

His Excellency the Governor General in Council, on the recommendation of the Minister of Finance, pursuant to the Currency, Mint and Exchange Fund Act, is pleased hereby to revoke the Gold Bullion Regulations made by Order in Council P.C. 1954-1584 of 19th October, 1954, and the Mint Custom Refining and Storing Regulations made by Order in Council P.C. 1956-450 of 22nd March, 1956,2 and to make the annexed Regulations Respecting the Handling of Gold Bullion at the Royal Canadian Mint in Substitution therefor.

REGULATIONS RESPECTING THE HANDLING OF GOLD BULLION AT THE ROYAL CANADIAN MINT

Short Title

1. These Regulations may be cited as the Gold Bullion Regulations, 1959.

Interpretation

- 2. In these Regulations,
 - (a) "deposit" means a parcel of bullion or other material containing gold;
 - (b) "Master" means the Master of the Mint;
 - (c) "Minister" means the Minister of Finance; and
 - (d) "Mint" means the Royal Canadian Mint.

Deposits

- 3. (1) The Master may accept for assaying, refining, storing or any other purpose, a deposit that is delivered free of all charges to the Mint if the deposit contains
 - (a) newly mined Canadian gold,
 - (b) old jewellery or dental scrap that has not been melted or otherwise treated to prevent its origin being readily recognized,
 - (c) scrap resulting from processes carried out by manufacturers and refiners in the ordinary course of their business, or
 - (d) gold coin that is not legal tender in Canada.
 - (2) The Master shall not accept
 - (a) a deposit of a kind not described in subsection (1) unless he is authorized to do so by the Minister.
 - (b) an ingot exceeding one thousand and two hundred ounces troy, gross weight, or
 - (c) a deposit that appears to him to be unsuitable for treatment by the refining processes in use at the
- (3) The Master is not obliged to accept any deposit and before accepting a deposit he may require the depositor to furnish evidence satisfactory to him as to the origin of the deposit.
- 4. (1) Where a deposit is delivered to the Mint for the purpose of selling the gold content thereof to Her Majesty, the Minister may, on behalf of Her Majesty, buy the gold content of that deposit.
- ¹ SOR/54 · 181, CANADA GAZETTE PART II, Vol. 88, No. 21, Nov. 10, 1954, p. 1430 and Statutory Orders and Regulations Consolidation 1955, Vol. 1, p. 683.

 ² SOR/56 117, CANADA GAZETTE PART II, Vol. 90, No. 7,
- April 11, 1956.

- (2) It is a condition under which a deposit is accepted at the Mint that the silver content thereof belongs to Her Majesty, subject to payment by the Minister in accordance with these Regulations for that part of the silver content of the deposit that is in excess of one per cent of the weight of the deposit after melting.
- 5. (1) Each parcel of bullion for which a separate assay is required shall be regarded as a separate deposit and all deposits accepted by the Master shall be valued in the order in which they are received.
- (2) As soon as possible after a deposit has been accepted by the Master, the content of the deposit shall be determined and valued on the report of the Assay Division of the Mint.
- (3) Gold shall be reported on the Assay Division Report to the one-four-thousandth part (one-quarter millieme), except that when the gold millesimal fineness of the bullion exceeds nine hundred and ninety, the gold shall be reported to the oneten-thousandth part (one-tenth milleme), and silver shall be reported to the one-thousandth part (1 millieme), but only that part of the silver content of the deposit that is in excess of one per cent of the weight of the deposit after melting shall be reported.
- (4) Where it is determined that a deposit contains less than two hundred parts of gold in one thousand by assay, or that a deposit is unsuitable for treatment by the refining process in use at the Mint, the Master shall, upon payment by the depositor of the Mint charges for melting and assaying, deliver the deposit at the Mint counter to the depositor.
- (5) On the completion of the valuation of a deposit the Master shall, unless the deposit is to be returned to the depositor in accordance with subsection (4), furnish the depositor with a memorandum in duplicate of the outturn of his deposit.
- (6) The memorandum mentioned in subsection (5) shall state
 - (a) the weight of the deposit before and after melting,
 - (b) the assay report,
 - (c) the fine gold and the fine silver content of the deposit.
 - (d) the gross value of the fine content at the price applicable to the deposit calculated in accordance with sections 6 and 7,
 - (e) the Mint charges applicable to the deposit,
 - (f) where the deposit was delivered to the Mint for the purpose of selling the gold content thereof to Her Majesty, the net value of the fine gold and fine silver contents of the deposit, being the gross value minus the Mint charges, and
 - (g) where the deposit was delivered to the Mint for a purpose other than that of selling the gold content thereof to Her Majesty, the net value of the fine silver content of the deposit, being the gross value thereof minus the Mint charges.
- (7) Where a deposit was delivered to the Mint for the purpose of selling the gold content thereof to Her Majesty, the Minister shall, at the same time as the memorandum mentioned in subsection (5) is furnished to the depositor, pay to the depositor as the full purchase price of the fine gold and fine silver contents of the deposit an amount equal to the net value of the fine contents of the deposit as stated in the memorandum.

- 3) Where a deposit was delivered to the Mint for a purpose other than that of selling the gold content thereof to Her Majesty, the Minister shall, at the same time as memorandum mentioned in subsection (5) is furnished to the depositor, pay to the depositor, as the full purchase price of the silver content of the deposit, an amount equal to the net value of the fine silver content of the deposit as stated in the memorandum.
- 6. The price payable by the Minister for the gold content of a deposit is the market price of gold in the country to which the Government of Canada is, at the time the depositis received, exporting gold, converted into Canadian funds at the average of the rates of exchange for the currency of that country, reported to the Minister by the Bank of Canada on the days Monday to Friday, inclusive, of the week in which the deposit is delivered to the Master such price hereinafter referred to as the "Mint buying price".
- 7. The price payable by the Minister for the silver content of a deposit is the price that is one quarter of one cent below the average of the official New York daily quotation for fine silver for the days Monday to Friday, inclusive, of the week in which the deposit is delivered to the Master, converted into Canadian funds at the average of the rates of exchange for United States funds reported to the Minister by the Bank of Canada on the days Monday to Friday, inclusive, of that week.

Mint Charges

- 8. (1) The Mint charge payable by a depositor to the Master in respect of a deposit shall be calculated as follows on the gross weight of the deposit after melting:
 - (a) for melting and assaying, three dollars for the first one thousand ounces or part thereof and thirty cents for each additional one hundred ounces or part thereof; and
 - (b) for refining,
 - (1) when the deposit contains not more than five per cent base metal, nine cents per ounce,
 - (M) when the deposit contains over five per cent base metal but not over ten per cent base metal, ten cents per ounce,
 - (iii) when the deposit contains over ten per cent base metal but not over fifteen per cent base metal, eleven cents per ounce,
 - (iv) when the deposit contains over fifteen per cent base metal but not over twenty per cent base metal, tweive cents per ounce, and
 - (v) when the deposit contains over twenty per cent base metal, or requires toughening or other special treatment in order to obtain concordant assays, such charge, not exceeding eighteen cents per ounce, as determined by the Master after taking into account the cost of treatment.
- (2) The charge for refining provided in paragraph (b) of subsection (1) applies in respect of all deposits containing, by assay, less than nine hundred and ninety-five parts fine gold in one thousand.
- (3) To cover the cost of marketing outside Canada a depositer shall pay to the Master a handling charge of eleven cents per fine ounce of gold for every deposit that is delivered to the Mint for the purpose of selling the gold content thereof to Her Majesty.
- (4) In respect of every deposit that is delivered to the Mint for the purpose of storing the gold content thereof, the depositor shall pay the following charges:
 - (a) a storage charge of five cents for each fine ounce of gold held in Mint storage for more than sixty days (including the day on which the deposit is received at the Mint) in respect of each additional thirty days or fraction thereof (excluding the day on which it is shipped from the Mint) payable upon application for the release of the gold or when billed, whichever is the earlier,
 - (b) a service charge of two cents for each fine ounce of gold shipped from the Mint, payable at the time of application for the release of the gold, and

- (c) a handling charge of eleven cents for each fine ounce of gold released from storage for sale to Her Majesty, payable at the time of sale.
- (5) In respect of every deposit that is delivered to the Mint for a purpose not described in subsection (3) or (4), and packing of fine gold is involved, the depositor shall pay at the time of shipment one dollar for the first fifty ounces of fine gold or part thereof, and two cents for each additional ounce or part thereof that is packed at the Mint for shipment.
- (6) It is a condition under which a deposit is accepted at the Mint that the Master may retain a portion of the fine gold content thereof in payment of the Mint charges in respect of that deposit.

Release of Gold

- The fine gold content of a deposit heid in storage at the Mint shall be released only upon application therefor in the form prescribed by the Minister.
- 10. Every deposit is accepted at the Mint subject to the condition that the fine gold content thereof shall be released in a form that is at least .995 fine.

Sale of Gold

- 11.(1) The Master may, with the approval of the Minister, sell fine gold from the Mint that belongs to Her Majesty.
- (2) The price at which each fine ounce of gold shall be sold is the Mint buying price per fine ounce for the week immediately preceding the week in which the gold is sold plus ten cents.

General

- 12.(1) Deposits may be delivered to the Mint on Monday to Friday, inclusive, between the hours of 9:30 a.m. and 4:30 p.m. unless such a day is a holiday mentioned in or authorized pursuant to the Civil Service Act.
- (2) Where a deposit is delivered to the Mint, it shall be withheld from treatment until an invoice setting out the description and weight of the contents thereof has been received by the Master, and where there is a discrepancy between the actual and invoice weights of a deposit, the deposit shall not be further dealt with until the Master has notified the depositor of the discrepancy and has received further instructions from the depositor.
- (3) All gold shipped from the Mint shall be delivered at the Mint counter to the purchaser of the gold, to the depositor or his authorized agent.
- 13. It is a condition under which newly mined gold is accepted at the Mint for storage that the depositor prepare and mail to the Minister within thirty days of the last day of each month a report for that month in the form prescribed by the Minister showing, inter alia,

(a) fine gold held by him or on his behalf at the begin-

ning of the month

- (i) at the Mint, and
- (ii) at places other than the Mint and the location of those places;
- (b) refined gold produced during the month;
- (c) sales made during the month indicating,
 - (i) the name and address of the purchaser,
 - (ii) the amount in ounces sold to each purchaser,(iii) the value, in Canadian funds, of the gold sold to each purchaser, and
 - (iv) the price paid, in Canadian funds, for each fine ounce of gold so sold; and
- (d) fine gold held by him or on his behalf at the end of the month
 - (i) at the Mint, and
 - (ii) at places other than the Mint and the location of those places.

List of Establishments classified to this Industry, 1967

(Does not include establishements classified to other industries which recover Gold as a secondary activity)

Name	Head or executive office address	Location
	(a) Marca Cald Mines	
	(a) Placer Gold Mines	
lberta:		
Parke, J.L.	4216-104A Ave., Edmonton	Onoway
ritish Columbia:		
Rensch, Reinhold	Kamloops	Lillouet
Spanish Placers Ltd	Likely	Cariboo
Whittle, Raymond	Garden Bay	Cariboo
ukon:		
Ballarat Mines Ltd.	Dawson	Dominion Creek and Eldorado Cree
Bardusan Placers Ltd	Mayo	Mayo
Besner, Henry	Mayo	Burwash Creek Mayo
Boutillier, H.C. & D.F	Dawson	Bonanza Creek
Bremner, John Consolidated Mines (Yukon) Ltd.	Box 275, Dawson	Dawson Dawson
Djukastein Placers	Mayo	Mayo Eldorado Creek
Fry, A.T	Dawson	Bonanza Creek
Gold Run Placers		Gold Run Creek Bonanza Creek
Lunde, Ole	Dawson	Dawson
Peret, F		Victoria Gulch and Upper Bonanza Dawson
Spruce Creek Placers Ltd	Mayo	Haggart Creek
Taylor, Fred W		Dublin Gulch Whitehorse
	(b) Gold Quartz Mines	
nebec:		
Barnat Mines Ltd.	112 King St. W., Toronto, Ontario	Malartic
Camflo Mines Ltd	11 King St. W., Toronto 1, Ontario	Malartic and Fournière (w)
East Malartic Mines Ltd	112 King St. W., Toronto, Ontario	Vauquelin Twp. Foumière Twp.
Lamaque Gold Mines Ltd	49 Toronto-Dominion Centre, Toronto, Ontario 400-112 King St. W., Toronto, Ontario	Bourlamaque Dubuisson Twp.
Malartic Goldfields (Quebec) Ltd	112 King St. W., Toronto, Ontario	Fournière and Dubuisson Twps.
Marban Gold Mines Ltd	112 King St. W., Toronto, Ontario	Dubuisson and Fournière Twps. McKenzie Twp.
Sigma Mines (Quebec) Ltd	360 Bay St., Toronto, Ontario	Bourlamaque
Sullivan Consolidated Mines Ltd		Dubuisson Twp. Amtfield
tario: Porcupine District		
Aurhor Gold Mines Ltd	44 King St. W., Toronto	Timmins
Dome Mines Ltd	South Porcupine	Tisdale Twp. Whitney Twp.
Hallnor Mines Ltd. Hollinger Consolidated Gold Mines Ltd.	Timmins	Hislop and Tisdale Twps.
McIntyre Porcupine Mines Ltd	55 King St. W., Toronto 1	Schumacher Whitney Twp.
Preston Mines Ltd.		South Porcupine
Kirkland Lake District		
Lake Shore Mines Ltd	112 King St. W., Toronto	Kirkland Lake
Lamaque Mining Co. Ltd. (Teck-Hughes Mining Division) Macassa Gold Mines Ltd. (Macassa Division)		Teck Twp. Kirkland Lake
Upper Beaver Mines Ltd	250 University Ave., Toronto 1	Gauthier Twp.
Upper Canada Mines Ltd	250 University Ave., Toronto 1	Gauthier Twp.
Larder Lake District		
Kerr-Addison Gold Mines Ltd.	44 King St. W., Toronto 1	McGarry Twp.
Sudbury District		
Renabie Mines Ltd	112 King St. W., Toronto	Sudbury
Thunder Bay District		
MacLeod-Cockshutt Gold Mines Ltd	112 King St. W., Toronto	Geraldton
Patricia District		
Annco Mines Ltd.	2200 Yonge St., Toronto 12	Red Laka
Campbell Red Lake Mines Ltd. Cochenour Willans Gold Mines Ltd.	360 Bay St., Toronto	Balmer Twp. Dome Twp.
Dickenson Mines Ltd	25 Adelaide St. W., Toronto	Balmer Twp.
Madsen Red Lake Gold Mines Ltd	55 Yonge St., Toronto	Heyson and Band Twps.

List of Establishments classified to this Industry, 1967 - Concluded

Name	Head or executive office address	Location
	(b) Gold Quartz Mines - Concluded	
lanitoha:		
San Antonio Gold Mines Ltd. (Forty-Four Mines Ltd.)	67 Yonge St., Toronto	Bissett
ritish Columbia:		
Bralorne Pioneer Mines Ltd. Silbak Premier Mines Ltd.	320-355 Burrard St., Vancouver	Bralorne Stewart
orthwest Territories:		
Cominco Ltd. (Con Mine) Cominco Ltd. (Rycon Mines Ltd.) Discovery Mines Ltd. Giant Yellowknife Mines Ltd. Lolor Mines Ltd. Supercrest Mines Ltd. Tundra Gold Mines Ltd. Vol Mines Ltd.	Trail, British Columbia Trail, British Columbia 2200 Yonge St., Toronto 7, Ontario 7 King St. W., Toronto, Ontario 7 King St. W., Toronto Ontario 7 King St. W., Toronto, Ontario 2200 Yonge St., Toronto, Ontario	Yellowknife Yellowknife Discovery Yellowknife Yellowknife Yellowknife Matthews Lake Yellowknife
	(c) Copper-Gold-Silver Mines	
ewfoundland:		
Atlantic Coast Copper Corp. Ltd. British Newfoundland Exploration Ltd. Consolidated Rambler Mines Ltd. First Maritime Mining Corp., Ltd. Gullbridge Mines Ltd.	330 Bay St., Toronto, Ontario 1 Westmount Square, Montreal, Quebec 908-330 Bay St., Toronto 1, Ontario 330 Bay St., Toronto, Ontario Box 67, Gullbridge	Springdale Springdale White Bay Tilt Cove Gullbridge
iew Brunswick:		
Cominco Ltd	630 Dorchester Ave., Montreal, Quebec	Wedge Mine
hiehec:		McKenzie Twp.
Bruneau Mines Ltd. c/o Rosario Exploration Co. Campbell Chibougamau Mines Ltd. Caspe Copper Mines Ltd. Leon Sullivan Joint Venture Joutel Copper Mines Ltd. Lake Dufault Mines Ltd. Merrill Island Mining Corporation Ltd. Mines de Poirier Inc. New Hosco Mines Ltd. Noranda Mines Ltd. Normetal Mining Corp. Ltd. Opemiska Copper Mines Ltd. Patino Mining Corp. (The) Quemont Mining Corp. Ltd. Solbec Copper Mines Ltd.	620 Cathcart St., Montreal 2 55 Yonge St. Toronto, Ontario 1403-507 Place d'Armes, Montreal 44 King St. W., Toronto, Ontario 80 Richmond St. W., Toronto 1, Ontario 44 King St. W., Toronto 1, Ontario 7 King St. W., Toronto, Ontario 621 Craig St. W., Montréal 5 120 Adelaide St. W., Toronto, Ontario 44 King St. W., Toronto, Ontario 44 King St. W., Toronto, Ontario 1800-44 King St. W., Toronto, Ontario 7 King St. E., Toronto, Ontario 7 King St. E., Toronto, Ontario 1700-44 King St. W., Toronto, Ontario 1700-44 King St. W., Toronto, Ontario 1700-47 King St. C., Toronto, Ontario 1700-7 King St. C., Toronto, Ontario	Obalski Twp. Stratford Twp. Murdochville Abitibi East Abitibi East Dufresnoy Twp. Mc Kenzie Twp. Poirier Twp. Daniel Twp. Noranda Desmeloizes Twp. Levy Twp. Chibougamau Rouyn-Noranda Stratford Twp.
Ontario:		
Canadian Jamieson Mines Ltd. Copperfields Mining Corp. Ltd. Geco Division (Noranda Mines Ltd.) Kam Kotia Mines Ltd. North Canadian Enterprises Ltd. North Coldstream Mines Ltd. Rio Algoni Mines Ltd. (Pater Mine) Texas Gulf Sulphur Co. Tribag Mining Co. Ltd.	Timmins 11 Adelaide St. W., Toronto 1715-44 Adelaide St. W., Toronto 25 Adelaide St. W., Toronto 4 King St. W., Toronto 1 25 Adelaide St. W., Toronto 1 20 Adelaide St. W., Toronto Box 2002, Timmins 4900 Toronto-Dominion Centre, Toronto	Timmins Algoma Algoma Robb Twp. Batchawana Bay Burchell Lake Spragge Twp. Porcupine Algoma
fanitoba:	44 17 222 0	
Hudson Bay Mining & Smelting Company Ltd	4th Floor, 333 Broadway Ave., Winnipeg	Flin Flon, Snow Lake
Anglo-Rouyn Mines Ltd	120 Adelaide St. W., Toronto, Ontario	La Ronge Flin Flon, Phil Lake
	Tall 1001, 333 Mosemay Cito., Humpey, Hamious	e mis t tott; t titt t-dkc
Anaconda Company (Canada) Ltd. (The) (Britannia Mine) Bethlehem Copper Corp. Ltd. Coast Copper Company Limited Cowitchan Copper Co. Ltd. Graigmont Mines Ltd. Granby Mining Company Ltd. (The) (Phoenix Copper Div.) Granisle Copper Ltd. Minoca Mines Ltd. Western Mines Ltd.	260-8th Ave., Toronto 14, Ontario Ashcroft Trail River Jordan 700 Burrard Bidg., Vaneouver 1111 West Georgia St., Vancouver 1111 West Georgia St., Vancouver 311-543 Granville St., Vancouver	Britannia Beach Highland Valley Benson Lake River Jordan Merritt Phoenix Smithers Comox Mvra Falls
'ukon:		
New Imperial Mines Ltd	355 Burrard St., Vancouver	Whitehorse
Sorthwest Territories:		
Felio Bay Mines Ltd	10015-103rd St., Edmonton, Alberta	Echo Bay

Note: Small quantities of gold and silver are produced by a few companies not counted as establishments in the Gold Mining Industry



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