26-209 1934 c.2

¢

# CANADA

28.4.36.

DEPARTMENT OF TRADE AND COMMERCE DOMINION BUREAU OF STATISTICS

# SUMMARY REVIEW

# OF

# THE GOLD MINING INDUSTRY

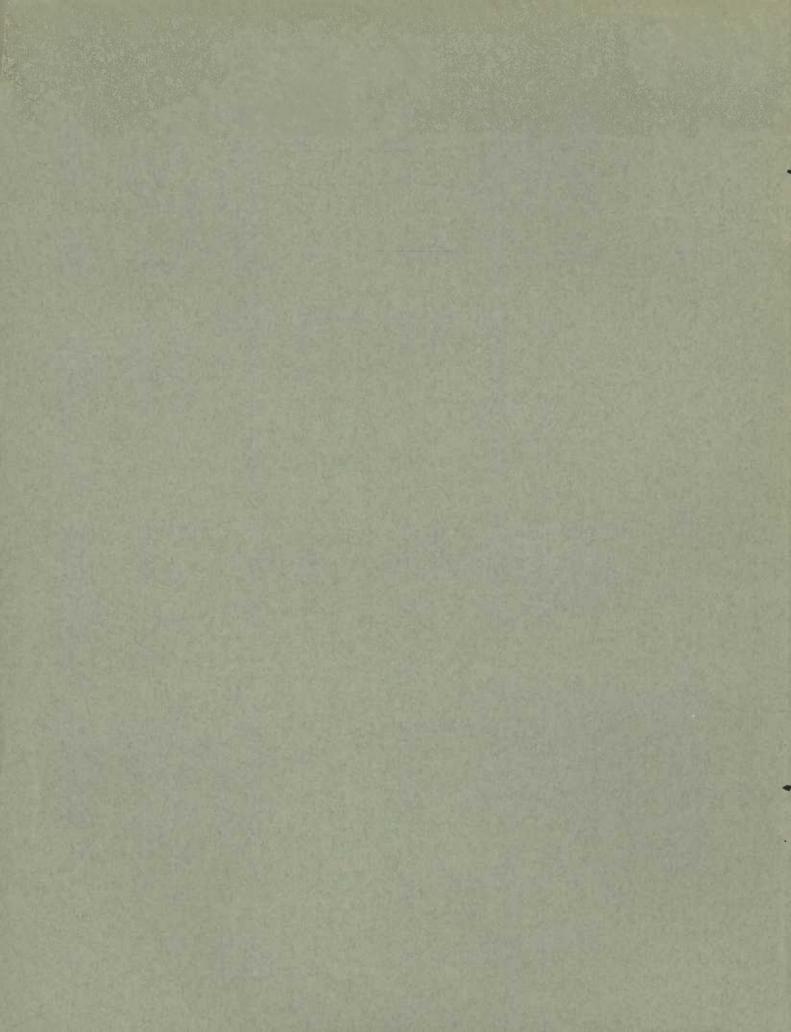
IN

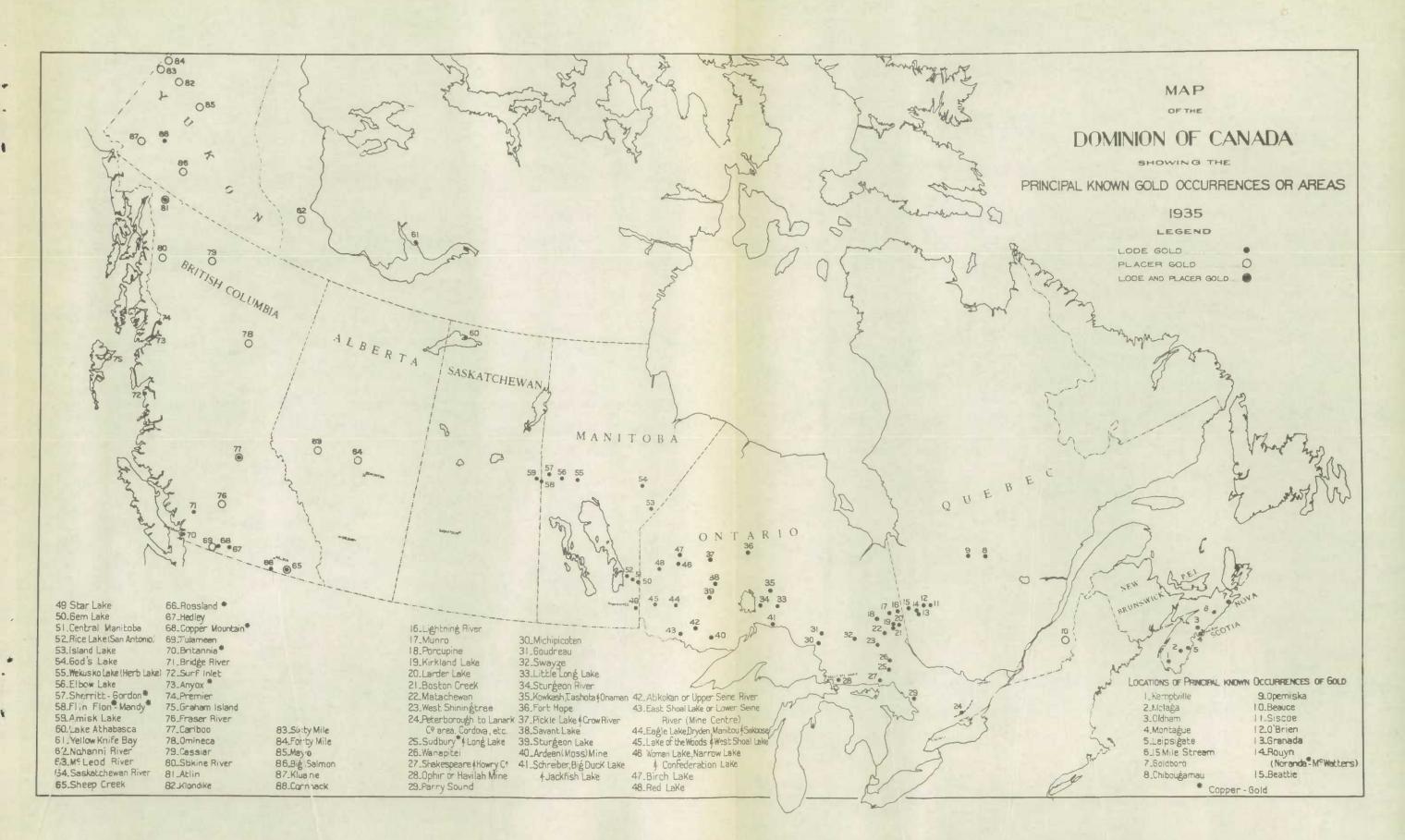
CANADA

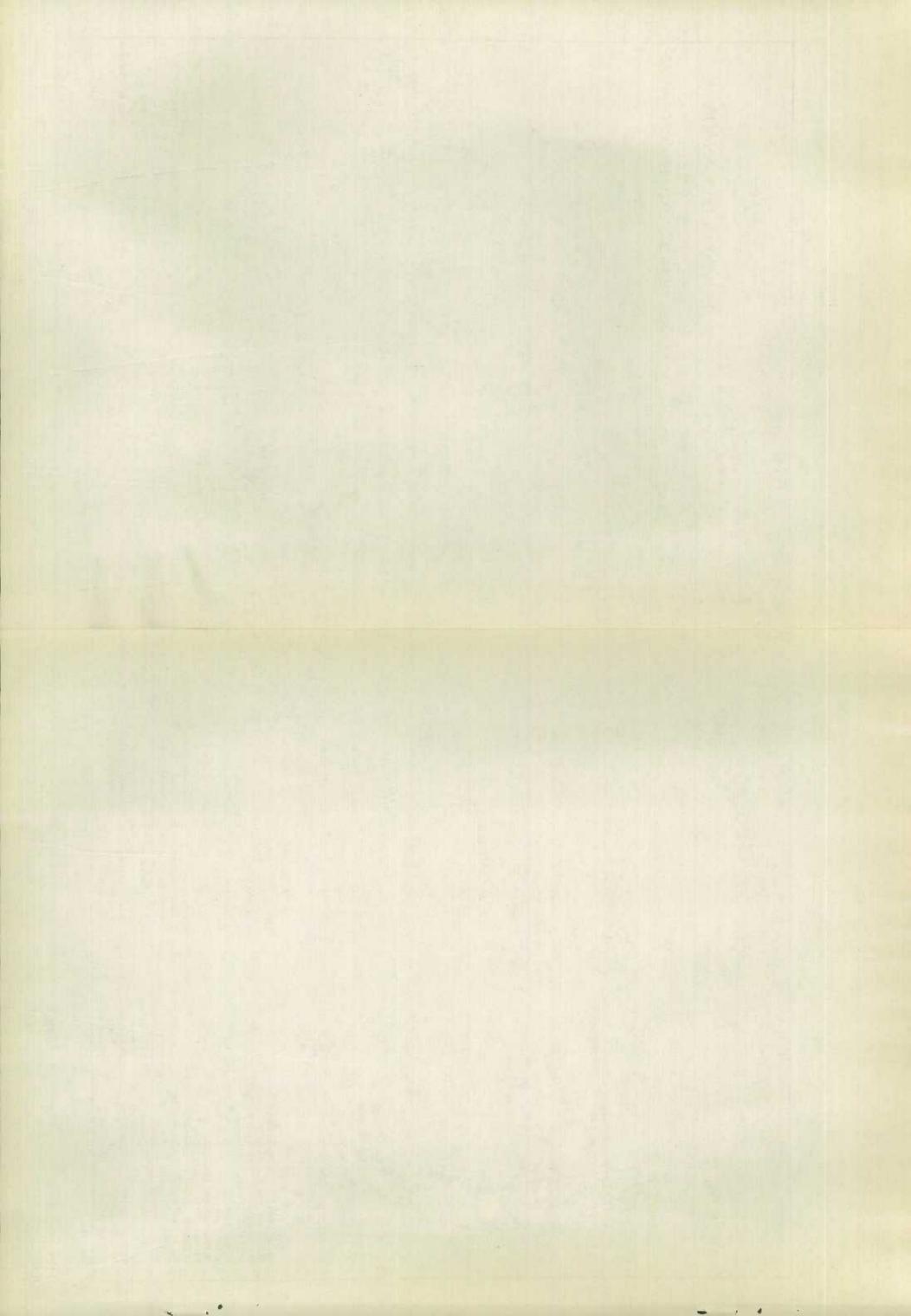
1934

Published by Authority of the HON. R. B. HANSON, K.C., M.P., Minister of Trade and Commerce.

> OTTAWA 1935







<u>22-27-6-35</u> 1000

Published by Authority of HON. R. B. HANSON, K.C., M.P., Minister of Trade and Commerce

DOMINION BUREAU OF STATISTICS - CANADA Dominion Statistician: R. H. Coats, LL.D., F.R.S.C., F.S.S. (Hon.)

> Mining, Metallurgical and Chemical Branch Chief: W. H. Losee, B.Sc.

THE GOLD MINING INDUSTRY IN CANADA, 1934

(a) The Alluvial Gold Mining Industry.
 (b) The Auriferous Quartz Mining Industry.
 (c) The Copper-Gold-Silver Mining Industry.

Definition of the Industry - Gold mining in Canada is classified into three principal industries - (a) the recovery of gold from the gravels and sands of stream channels or beaches or what is defined as "The Alluvial Gold Mining Industry"; (b) the recovery of lode gold, which is named "The Auriferous Quartz Mining Industry" and in which industry the gold is usually the most important economic constituent of the ores mined and quartz the predominant gangue mineral; (c) gold is often found in various other mineral deposits, more particularly in those of copper, and for this reason the review of Canada's "Copper-Gold-Silver Mining Industry" is included here to complete a more comprehensive survey of the Canadian gold mining industry.

GENERAL REVIEW - Production of new gold from all sources in Canada during 1934 amounted to 2,972,074 fine ounces, valued at \$61,438,220 as compared with an output of 2,949,309 fine ounces valued at \$60,967,626 in 1933 and 3,044,387 fine ounces worth \$62,933,063 in 1932, (gold valued at \$20.671834 per fine ounce). The quantity of metal recovered in 1934 represents only an increase of .8 per cent over the preceding year, however, the value of production, in Canadian funds, realized a 21.6 per cent gain over that for 1933.

The 1934 output originated as follows: gold contained in crude bullion made at gold mines, 2,335,132 fine ounces; alluvial gold, 59,284 fine ounces; gold in blister and anode copper and in base bullion made at Canadian smelters, 434,635 fine ounces; and the estimated recovery of gold in ores, matte, slags, residues and concentrates exported to foreign metallurgical plants, 143,023 fine ounces.

Of the total Dominion output, Nova Scotia contributed 3,525 fine ounces; Quebec, 390,097 fine ounces; Ontario, 2,105,339 fine ounces; Manitoba, 132,321 fine ounces; Saskatchewan, 5,405 fine ounces; Alberta, 393 fine ounces; British Columbia, 296,196 fine ounces and the Yukon Territory, 38,798 fine ounces.

Practically all of Canada's gold bullion is shipped by the mines to the Royal Canadian Mint at Ottawa. Up until April 19th, 1933, Canada shipped refined gold to New York accepting payment in United States funds at the coinage value, later after April 19th, on which date the United States went off the gold standard, this gold was consigned to London. The present practice, as that prevailing throughout 1934, is to ship gold to the most advantageous market, either London or New York. During the earlier movements of gold to New York the mining companies were paid a premium on the net value of their gold at a rate equivalent to the exchange premium in United States funds on the date of deposit of the gold at the Mint. After April 19th, 1933, the Mint paid the producer the standard rate per fine ounce, less charges for melting, assaying and refining, and when the gold was sold in a foreign market the difference between the standard rate and the net amount realized, was returned to the producer or shipper. The average price in Canadian funds of gold in 1934, based on the average prices paid by New York or London, was \$34.50 as against \$28.60 in 1933 or in other words the value of the 1934 Canadian gold production amounted in Canadian funds to \$102,536,553 as against \$84,350,237 in 1933.

The more outstanding events associated with the recent rise in price of gold include the suspension of specie payments by Great Britain on September 21, 1931; the direct control and licenting of Canadian gold exports by the Canadian Government; the purchase by the Canadian Government of all new gold bullion produced in the Dominion with the payment to the miner of equalization exchange; the departure of the United States from the gold standard on April 19th, 1933, and the announcement of January 31st, 1934, by President Roosevelt, that thereafter the United States Treasury would purchase gold from any quarter at not less than \$35.00 per fine ounce and would be empowered by United States Congress to offer, if necessary, up to \$41.34 an ounce. The weight of the new United States gold dollar is 15-5/21 grains, nine-tenths fine, as compared with the former gold dollar of 25.8 grains, nine-tenths fine. The new dollar contains 1/35 of an ounce of gold and an ounce of fine gold is equivalent to \$35.00.

The increase in the price of gold is reflected in an almost general expansion in the Canadian gold mining industry, in the older camps the economic mining of lower grade materials has resulted in a very large increase in ore reserves while deposits in other areas previously considered of little commercial importance have been developed and brought into production. Prospecting and exploration in both old and virgin districts have been both widespread and intensive, resulting in the discovery and development of new mines. These developments, of very great economic importance, have given to gold mining a status comparable with those of the great basic industries of the nation. The economic importance of primary gold production to the Dominion may be better appreciated when it is stated that, in the preliminary estimate by the Bureau of Statistics of the balance of International Payments for Canada in 1934, the net value of gold exports was surpassed only by the favourable balance of erports in the entire commodity trade of the Dominion, the favourable balance of \$145,000,000 in the entire commodity trade being raised to \$239,200,000 when the balance of gold exports is included. Again the net value of gold aports equalled 41 per cent of the net interest and dividend payments to foreign holders of Canadian securities, whether government, municipal or corporation and were \$19,200,000 in excess of the Dominion's requirements to meet its capital payments on maturing bonds. It is also interesting to note that the value of Canadian gold production per capita has increased within the last decade from \$3.86 in 1925 to \$9.45 in 1934.

According to the Department of Mines, Ottawa, a decided impetus will be given to Canadian gold development as a result of the \$1,000,000 Dominion Government programme of geological field work to be undertaken during the 1935 season. The attention of the 180 parties to be placed in the field will be focussed mainly on areas where the geological decurences are believed to be favourable to gold deposition. The programme constitutes the most ambitious effort ever undertaken by the Dominion Government toward assisting the prospector and engineer in the search for new sources of mineral wealth.

## - 3 -THE ECONOMIC IMPORTANCE OF CANADIAN GOLD PRODUCTION as illustrated in the ESTIMATED BALANCE OF INTERNATIONAL PAYMENTS FOR CANADA

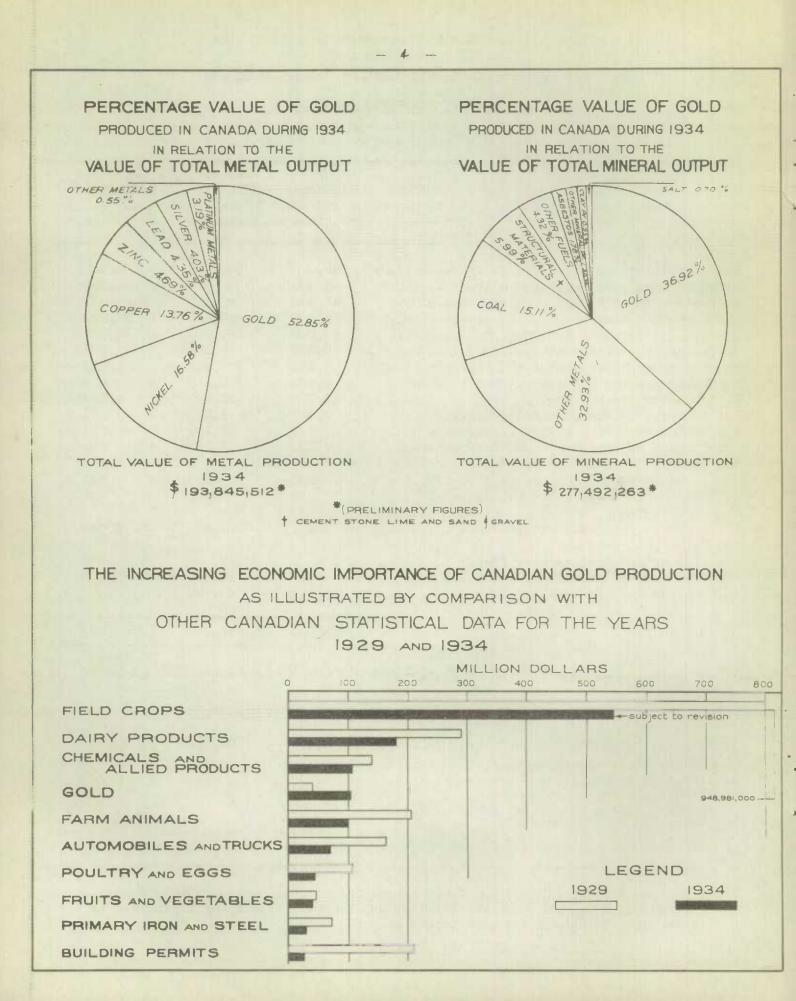
#### PRELIMINARY STATEMENT FOR 1934

# (000's omitted)

	Exports Visible and Invisible \$	Imports Visible and Invisible	Net Debit (-) or Credit (+)
	<u> </u>		
1. Commodity Trade 2. Exports of gold coin and bullion	645,000 95,000	<b>50</b> 0,000 800	+ 145,000 + 94,200
3. Freight payments and receipts, n.o.p	47,000	68,000	- 21,000
4. Tourist expenditures	138,000	54,000	+ 84,000
5. Interest payments and receipts	60,000	290,000	- 230,000
6. Immigrant remittances	6,000	7,500	- 1,500
7. Government expenditures and receipts	8,000	9,250	- 1,250
8. Charitable and missionary contributions .	2,000	1,200	+ 800
9. Insurance transactions	16,000	12,000	+ 4,000
10. Advertising transactions	2,000	1,500	+ 500
1]. Motion picture earnings		2,750	- 2,750
<ol> <li>12. Capital of immigrants and emigrants</li> <li>13. Earnings of Canadian residents</li> </ol>	4,000	3,250	+ 750
employed in U. S. A 14. Sundry items (direct magazine sub- scriptions, entertainers' receipts,	500		+ 500
radio programs, etc.) 15. Balancing items (a) Net capital exports (see		4,500	- 4,500
capital statement)		20,000	
(b) Net errors and omissions		48,750	
	1,023,500	1,023,500	+ 63,750 <sup>x</sup>

<u>Capital Movem</u> (000's omit			
	cr.	dr.	
<ol> <li>Sale and purchase of securities</li> <li>Maturities</li> <li>Direct investments</li> <li>Balancing item Net outflow of capital funds</li> </ol>	350,000 5,000	300,000 75,000	+ 50,000 - 75,000 + 5,000
	20,000		
	375,000	375,000	- 20,000

\* This net credit of \$68,750,000 is accounted for by net capital export amounting to \$20,000,000. The balance, \$48,750,000, cannot presently be traced and is attributed to errors and omissions.



ROYAL CANADIAN MINT - The Ottawa Mint, established as a branch of the Royal Mint under the (Imperial) Coinage Act, 1870, and opened on January 2, 1908 was by 21-22 Geo. V, C.48, constituted a branch of the Department of Finance and since December 1, 1931 has operated as the Royal Canadian Mint. The great development of the gold mining industry in Canada has resulted in gold refining becoming one of the principal activities of the Mint. Gold coins have never been a popular medium of exchange in Canada and have not been struck since 1919, most of the fine gold produced from the rough shipments from the mines being delivered to the Department of Finance in the form of bars, the rest being sold in convenient form to manufacturers. The fine silver extracted from the rough gold, when not required for coinage, is sold on the New York market or disposed of to local manufacturing firms.

The domestic gold currency of Canada, as at present authorized by the Currency Act, consists of \$20, \$10, \$5 and \$2-1/2 gold pieces, 900 millesimal fineness (only \$10 and \$5 pieces have been issued). Gold was used only to an insignificant extent as a circulating medium in 'Canada, its monetary use being practically confined to reserves; \$5 and \$10 gold pieces weighing respectively 129 and 258 grains, 9/10ths pure gold by weight, have been coined, the Canadian gold dollar thus containing 23.22 grains of pure gold. The \$5, \$10 and \$20 gold coins of the United States, which contain exactly the same weight of gold as Canadian gold coins of these denominations, are legal tender for their face value only, as are the British sovereigns, which are legal tender for \$4,86 2/5, their equivalent in Canadian gold dollars.

The regulations in part for the receipt of gold bullion at the Royal Canadian Mint, Ottawa, are as follows:- Each parcel of bullion for which a separate assay is required shall be regarded as a separate deposit, and no ingot exceeding 1,500 ounces troy, gross weight, will be accepted. All deposits shall be dealt with in the order in which they are received. Deposits containing, by assay, less than 200 parts of gold in 1,000, as appearing, either before or after melting and assaying, to be unsuitable for treatment by the refining process in use, may be rejected. A deposit so rejected shall be returned to the depositor on payment by him of any costs incurred for melting and assaying.

The Mint charges, to be calculated on the gross weight of the deposit after melting, shall be as follows:-

(a) For melting and assaying, - one dollar for the first four hundred ounces or part thereof and twenty-five cents for each additional one hundred ounces or part thereof.

(b) For refining, when the deposit contains not more than 5 per cent base metal, 3 cents the ounce.

Over 5 per cent but not over 10 per cent base met 1, 3.1/2 cents the ounce. Over 10 per cent but not over 15 per cent base metal, 4-1/4 cents the ounce. Over 15 per cent but not over 20 per cent base metal, 5 cents the ounce. On deposits which contain over 20 per cent base metal, or which require other treatment a charge not exceeding 10 cents the ounce, to be determined by the cost of treatment.

The minimum charge for refining shall be two dollars for each deposit and the charge for refining shall apply to all deposits containing by assay less than 995 parts fine gold in 1,000.

An additional handling charge at the rate of 35 cents the ounce fine, to cover costs of realization in a market outside Canada, shall be made on all newlymined Canadian gold deposited with the Mint, and this charge shall be increased to \$1 00 the ounce fine on all other gold accepted as a deposit. The gross value of gold deposited for sale with the Royal Canadian Mint or the Dominion of Canada Assay Office, Vancouver, shall be the market price of gold in the country to which the Government is at the time of the receipt of the deposit exporting gold, converted into Canadian funds at the average of the buying rates of exchange of that country reported to the Department of Finance by the Bank of Canada at 11 a.m. daily during the week in which the gold is deposited with the Mint or Assay office.

In addition to newly-mined Canadian gold there may be accepted at the Mint gold (over 1 ounce troy - fine) in the following forms:- old jewellery and dental scrap, provided it has not been melted or otherwise treated in any way to prevent its origin being readily recognized; scrap from manufacturers and refiners the result of processes carried out by them in the ordinary course of their business; gold coin which when full weight and fineness, is not legal tender in Canada. Satisfactory evidence as to the origin of the gold shall be furnished by the depositor if required.

Delivery of deposits shall be accepted at the Mint counter only, free of all charges, and when bullion is forwarded by mail or express the original packages will not ordinarily be opened until an invoice of the description and weight of their several contents has been received. When there is a serious discrepancy between the actual and invoice weights of any deposit, further action in regard to it will be deferred pending communication with depositor.

The gross value of a deposit shall be calculated at a rate of one dollar for each 23.22 grains fine gold contained therein (equivalent to \$20.6718+ the ounce fine) and at a rate for all silver in excess of one per centum of the weight of the deposit after melting to be determined by the Minister of Finance - the rate to be paid for silver in any week shall be one cent below the average for that week of the daily London quotation for standard silver from Monday to Friday, inclusive, converted into the equivalent for fine silver in Canadian funds at the daily rate of exchange between Montreal and London, calculated to the nearest one-eighth of a cent.

#### DOMINION TAX ON GOLD MINES.

The Special War Revenue Act was amended in April 1934 to provide for a tax on newly mined Canadian gold. It was felt that the unusually prosperous condition of the gold mining industry due to the rise in price of gold from \$20.67 per ounce to about \$35.00 per ounce provided a basis for a gold tax. The increase in the price of gold in terms of the Canadian dollar resulted from national and international monetary policies.

The tax as finally approved by Parliament provided that mines that had paid dividends in the calendar years 1932 and 1933 were to pay a tax of 25% of the premium value of the gold deposited for sale at the Royal Canadian Mint or exported under license. The ta, was not to operate to reduce the amount received by the mine below \$30.00 per ounce.

Against the tax collected the tax-paying mines were allowed a deduction of an amount equal to the income tax payable by them for the year 1934, or, in those cases where the mine's fiscal year did not coincide with the calendar year, an amount equal to the income tax attributable to the calendar year 1934. The tax came into force on April 19, 1934, and was to continue until May 31, 1935. In the Budget Speech of March 22, 1935, the Minister of Finance stated that the gold bullion tax would not be continued after May 31, 1935, and that important changes would be made in the depletion allowances allowed for Income Tax purposes to gold and silver mines. In future the allowance for depletion to mining companies, the principal product of which is gold or silver, is to be 33 1/3% instead of 50%. Furthermore, dividends received by shareholders are now to be taxed on the basis of a 20% depletion allowance instead of 50% as formerly.

The Centenary number of the Mining Journal, London, comments on a world gold mining commission as follows: "World economy, humanity and civilization would gain much if the world's mining industry was requested to co-operate in formulating the provisions of the new gold standard and in carrying into effect the necessary long-range planning programme. The gold mining industry is in a unique position to furnish the most reliable estimates of the world's gold ore reserves and accurately to forecast the annual production of newly mined gold over an extended period. Correct expectancy estimates are vitally important, since errors would result in monetary instability and in the recurrence of disturbed economic conditions. The interim committee which was appointed by the World Economic and Monetary Conference convened in London, July, 1933, might well consider the desirability of extending an invitation to the world's gold mining industries to select and authorize a standing World Gold Mining Commission to collaborate in formulating the provisions of the new gold standard and in developing long-range plans for its operation and maintenance. The commission should well represent geographically the world's gold mining industry. The basis for co-operation between the world's monetary and gold mining interests and specialists should be established at an early date, and the World Gold Mining Commission appointed and functioning, so that this most valuable assistance could be made available to the interim committee and to the next World Economic and Monetary Conference which may be convened in the near future. There is no field in which perspective and careful long-range planning and administration would yield greater dividends to humanity and world economy."

(Gold at \$20.671834 per fine ounce)						
	1 :	9 3 3	1 9	3 4		
	Fine troy		Fine troy			
	OZ.	4	OZ.	*		
NOVA SCOTIA - In gold bullion and ores						
exported Estimated exchange equalization	1,382	28,568	3,525	72,868		
on gold produced	0.80	10,957	•••	48,745		
QUEBEC -						
In blister copper, in ores shipped and in gold bullion Estimated exchange equalization	382,886	7,914,956	390,097	8,064,020		
on gold produced		3,035,583		5,394,327		

PRODUCTION OF NEW GOLD IN CANADA, BY PROVINCES AND SOURCES, 1933 and 1934.

- 8 --

PRODUCTION OF NEW GOLD IN CANADA BY PROVINCES AND SOURCES, 1933 and 1934 - Concluded (Gold at \$20.671834 per fine ounce)

(Gold at \$20.671834 per fine ounce)						
	193	5	193	4		
The second s	ine truy uz.	\$ F:	ine troy oz,	\$		
ONTARIO -						
/ Porcupine area - In gold bullion .	1,046,091	21,624,620	949,799	19,634,087		
/ Kirkland Lake - In gold bullion .	1,007,036	20,817,281	988,046	20,424,723		
/ Otner gold mines - In gold bullion	65,404	1,352,020	107,120	2,214,367		
Copper-Nickel and other ores	36,988	764,610	60,374	1,248,041		
TOTAL	2,155,519	44,558,531	2,105,339	43,521,218		
Estimated exchange equalization on						
gold produced ,	000	17,089,312	000	29,112,977		
MANITOBA -						
In gold bullion, ores shipped and						
in blister copper	125,310	2,590,388	132,321	2,735,318		
Estimated exchange equalization on		,,		,		
gold produced		993,478		1,829,757		
SASKATCHEWAN -			*			
In ores shipped to Canadian smelters						
and crude gold to Royal Canadian						
Mint	5,400	111,628	5,405	111,731		
Estimated exchange equalization on	,					
gold produced	0.00	42,812	300	74,741		
ALBERTA	324	6,698	393	8,124		
In alluvial gold Estimated exchange equalization on	964	0,050	000	Ogter		
gold produced	0.00	2,569	0 3 9	5,434		
Peru Preudou 100,0000000000000000000000000000000000				and only a spectrum constrained south sectors a		
BRITISH COLUMBIA -			Contractory of the second			
In alluvial gold	19,142	395,700	20,145	416,434		
In gold bullion	122,293	2,528,021	153,173	3,166,367		
In blister copper	8,667	179,163	6,063	125,333		
In base bullion and in matte and	00 007	1 027 501	116 916	0 AT A 707		
ores exported	88,893	1,837,581 4,940,465	<u>116,815</u> 296,196	2,414,781 6,122,915		
TOTAL	200,000	4,540,405	200,100	U g I K K g U I U		
Estimated exchange equalization on						
gold produced	693	1,894,792	300	4,095,847		
UKON -						
In alluvial gold	39,174	809,798	38,703	800,062		
In ores exported		6,594	95	1,964		
TOTAL	39,493	816,392	38,798	802,026		
Estimated exchange equalization on						
gold produced	0 11 0	313,108	0 0 0	536,505		
TOTAL FOR CANADA	2,949,309	60,967,626	2,972,074	61,438,220		
TOTAL ESTIMATED EXCHANGE EQUALIZATION		a dia tati				
ON GOLD PRODUCED		23,382,611	0.00	41,098,333		
THE PARTY MATTER THAT THAT THAT ANAL		84,350,237		102,536,553		
GRAND TOTAL VALUE INCLUDING EXCHANGE .	000	01,000,001	0 0 0			

In 1933 the extimated average price of a troy ounce of fine gold in Canadian funds was \$28.60, in 1934 the corresponding price was \$34.50 / Includes relatively small amounts of gold contained in slags, and ore shipped.

	Ore	Ore	Gold	Mill	See
	raised	treated	recovered		
roperty			Fina	24 hrs.	note
	Tons	Tons	ounces	Tons	
OVA SCOTIA -		-			
Beacon Gold Mines	51	51	25	, 10	(a)
Corwin Gold Mines	150	50	7		(a)
Ross Mine (Cons. M. & S. Co.)	871	871	377	20	(a)
Banook Mining Co.	230	230	108	24	(a)
Guysboro Mines Ltd.	000	• • •	31	50	(a)
Higgins & Lawlor (Moose River)	963	649	285	15	(a)
Lacey Gold Mining Co. Ltd	1,000	240	(b)	35	***
Montague Gold Mines Ltd	13,088	8,549	1,681	50	(a)(c)
Seal Harbour Gold Mines Ltd	3,732	3,732	662	25	(a)
MacDonald Hudson Gold Mines	313	313	41	20	(a)
United Goldfields of N.S. (Brookfield)	2,282	2,282	117 <sup>x</sup>	25	(a)(c)
Other Producers	+	+	191	+	',
TOTAL NOVA SCOTIA		000	3,525		0 * *
HEBEC -					
Reattie Gold Mines Ltd.	360,900	359,200	52,240	1,200	(b)(c)
Bussieres Mining Co. Ltd	55,879	38,047	5,039	190	(a)(c)
Granada Gold Mines Ltd	36,266	35,424	6,864	100	(a)(h)
Green Stabell Mines Ltd.	23,003	21,583	5,682	100	(a)(b)
La Mine D'Or Venus Cons.	60	60	8	25	(c)
			-		2 1
McWatters Gold Mines Ltd.	5, 13	5,081	2 961	50	(a)
O'Brien Cold Mines Ltd. (e)	26,743	27,832	7,626	80	(a)(c)
Perron Gold Mines Ltd.	5,047	2,646	392	25	(a)
Siscoe Gold Mines Ltd	124,846	124,151	63,394	340	(a)(b)
Sullivan Cons, Mines Ltd	7,278	7,960	4,062	50	(a)(b)
Placer mines	+	+	43	+	F
Copper gold mines	400	003	241,786		(c)
TOTAL QUEBEC	500	0 2 .	390,097	0 - 0	000
VTARIO -					
Porcupine Camp -					
Argio Huronier Itd (Uthord)	101 700	101 206	15 5/1	300	(h)
Anglo Huronian Ltd. (Vipond)	101,799	101,806	15,541	300	(b)
Buffalo Ankerite Gold Mines	125,134	125,134	20,603	350	(b)
Buffalo Ankerite Gold Mines Elue Quartz Mine (Amalg. Gold Fields).	125,134 dump	125,134 500	20,603 19	3 <b>5</b> 0 25	(b) (b)
Buffalo Ankerite Gold Mines Elue Quartz Mine (Amalg. Gold Fields). Coniaurum Mines Ltd.	125,134 dump 138,114	125,134 500 138,114	20,603 19 28,436	350 25 500	(b) (b) (b)
Buffalo Ankerite Gold Mines Elue Quartz Mine (Amalg. Gold Fields). Coniaurum Mines Ltd.	125,134 dump 138,114 547,600	125,134 500 138,114 547,600	20,603 19 28,436 206,158	350 25 500 1,500	(b) (b) (b) (a)(b)
Buffalo Ankerite Gold Mines Elue Quartz Mine (Amalg. Gold Fields). Coniaurum Mines Ltd. Dome Mines Ltd. Hollinger Cons. Gold Mines Ltd.	125,134 dump 138,114 547,600 1,900,341	125,134 500 138,114 547,600 1,900,490	20,603 19 28,436 206,158 434,257	350 25 500 1,500 6,000	(b) (b) (b)
Buffalo Ankerite Gold Mines Elue Quartz Mine (Amalg. Gold Fields). Coniaurum Mines Ltd, Dome Mines Ltd,	125,134 dump 138,114 547,600	125,134 500 138,114 547,600	20,603 19 28,436 206,158 434,257 3,304	350 25 500 1,500	(b) (b) (b) (a)(b)
Buffalo Ankerite Gold Mines Flue Quartz Mine (Amalg. Gold Fields) Coniaurum Mines Ltd. Dome Mines Ltd. Hollinger Cons. Gold Mines Ltd.	125,134 dump 138,114 547,600 1,900,341	125,134 500 138,114 547,600 1,900,490	20,603 19 28,436 206,158 434,257	350 25 500 1,500 6,000	(b) (b) (b) (a)(b) (b)
Buffalo Ankerite Gold Mines Elue Quartz Mine (Amalg. Gold Fields). Coniaurum Mines Ltd. Dome Mines Ltd. Hollinger Cons. Gold Mines Ltd. Marbuan Gold Mines Ltd.	125,134 dump 138,114 547,600 1,900,341 26,030	125,134 500 138,114 547,600 1,900,490 26,030	20,603 19 28,436 206,158 434,257 3,304	350 25 500 1,500 6,000 150	(b) (b) (b) (a)(b) (b) (b)
Buffalo Ankerite Gold Mines Elue Quartz Mine (Amalg. Gold Fields) Coniaurum Mines Ltd. Dome Mines Ltd. Hollinger Cons. Gold Mines Ltd. Marbuan Gold Mines Ltd. McIntyre Porcupine Mines Ltd. McLaren-Porcupine Gold Mines Ltd.	125,134 dump 138,114 547,600 1,900,341 26,030 851,345	125,134 500 138,114 547,600 1,900,490 26,030 851,345	20,603 19 28,436 206,158 434,257 3,304 239,099	350 25 500 1,500 6,000 150 2,000	(b) (b) (b) (a)(b) (b) (b)(c) (a)
Buffalo Ankerite Gold Mines Elue Quartz Mine (Amalg. Gold Fields) Coniaurum Mines Ltd, Dome Mines Ltd, Hollinger Cons. Gold Mines Ltd. Marbuan Gold Mines Ltd. MaIntyre Porcupine Mines Ltd. McLaren-Porcupine Gold Mines Ltd. Munro-Croesus Gold Mines Ltd.	125,134 dump 138,114 547,600 1,900,341 26,030 851,345 50 180	125,134 500 138,114 547,600 1900,490 26,030 851,345 50 205	20,603 19 28,436 206,158 434,257 3,304 239,099 10 298	350 25 500 1,500 6,000 150 2,000 3-5	(b) (b) (b) (b) (b) (b) (c) (a) (a)
Buffalo Ankerite Gold Mines Elue Quartz Mine (Amalg. Gold Fields). Coniaurum Mines Ltd. Dome Mines Ltd. Hollinger Cons. Gold Mines Ltd. Marbuan Gold Mines Ltd. McLaren-Porcupine Mines Ltd. Munro-Croesus Gold Mines Ltd. Paymaster Cons. Mines Ltd.	125,134 dump 138,114 547,600 1,900,341 26,030 851,345 50 180 11,572	125,134 500 138,114 547,600 1,900,490 26,030 851,345 50	20,603 19 28,436 206,158 434,257 3,304 239,099 10 298 2,020	350 25 500 1,500 6,000 150 2,000 3-5 15 500	(b) (b) (b) (a)(b) (b) (b)(c) (a)
Buffalo Ankerite Gold Mines Elue Quartz Mine (Amalg. Gold Fields). Coniaurum Mines Ltd. Dome Mines Ltd. Hollinger Cons. Gold Mines Ltd. Marbuan Gold Mines Ltd. McIntyre Porcupine Mines Ltd. McLaren-Porcupine Gold Mines Ltd. Munro-Croesus Gold Mines Ltd. Paymaster Cons. Mines Ltd.	125,134 dump 138,114 547,600 1,900,341 26,030 851,345 50 180 11,572 4	125,134 500 138,114 547,600 1900,490 26,030 851,345 50 205	20,603 19 28,436 206,153 434,257 3,304 239,099 10 298 2,020 54	350 25 500 1,500 6,000 150 2,000 3-5 15 500 4	(b) (b) (b) (b) (b) (b) (c) (a) (a)
Buffalo Ankerite Gold Mines Elue Quartz Mine (Amalg. Gold Fields). Coniaurum Mines Ltd. Dome Mines Ltd. Hollinger Cons. Gold Mines Ltd. Marbuan Gold Mines Ltd. McLaren-Porcupine Gold Mines Ltd. Munro-Croesus Gold Mines Ltd. Paymaster Cons. Mines Ltd. Miscellaneous Iotal Porcupine Camp	125,134 dump 138,114 547,600 1,900,341 26,030 851,345 50 180 11,572 4	125,134 500 138,114 547,600 1900,490 26,030 851,345 50 205 13,824 4	20,603 19 28,436 206,153 434,257 3,304 239,099 10 298 2,020 54	350 25 500 1,500 6,000 150 2,000 3-5 15 500	(b) (b) (b) (a)(b) (b) (b)(c) (a) (a) (b) (b) (c)
Buffalo Ankerite Gold Mines Elue Quartz Mine (Amalg. Gold Fields) Coniaurum Mines Ltd. Dome Mines Ltd. Hollinger Cons. Gold Mines Ltd. Marbuan Gold Mines Ltd. Marbuan Gold Mines Ltd. McLaren-Porcupine Gold Mines Ltd. Munro-Croesus Gold Mines Ltd. Munro-Croesus Gold Mines Ltd. Miscellaneous Iotal Porcupine Camp Kirkland Lake Camp -	125,134 dump 138,114 547,600 1,900,341 26,030 851,345 50 180 11,572 <u>4</u>	125,134 500 138,114 547,600 1900,490 26,030 851,345 50 205 13,824 4 3705,098	20,603 19 28,436 206,158 434,257 3,304 239,099 10 298 2,020 54 949,799	350 25 500 1,500 6,000 150 2,000 3-5 15 500 4 11,345	(b) (b) (b) (c) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c
Buffalo Ankerite Gold Mines Elue Quartz Mine (Amalg. Gold Fields) Coniaurum Mines Ltd, Dome Mines Ltd, Hollinger Cons. Gold Mines Ltd. Marbuan Gold Mines Ltd. Marbuan Gold Mines Ltd. McLaren-Porcupine Gold Mines Ltd. Munro-Croesus Gold Mines Ltd. Munro-Croesus Gold Mines Ltd. Miscellaneous Total Porcupine Camp Kirkland Lake Camp - Barry-Hollinger Mines Ltd.	125,134 dump 138,114 547,600 1,900,341 26,030 851,345 50 180 11,572 <u>4</u> 33,445	125,134 500 138,114 547,600 1900,490 26,030 851,345 50 205 13,824 <u>4</u> 3705,098	20,603 19 28,436 206,158 434,257 3,304 239,099 10 298 2,020 54 949,799 4,399	350 25 500 1,500 6,000 150 2,000 3-5 15 500 4 11,345	(b) (b) (b) (b) (b) (b) (c) (a) (a) (b) ∠ (b)
Buffalo Ankerite Gold Mines Elue Quartz Mine (Amalg. Gold Fields) Coniaurum Mines Ltd. Dome Mines Ltd. Hollinger Cons. Gold Mines Ltd. Marbuan Gold Mines Ltd. Marbuan Gold Mines Ltd. McLaren-Porcupine Gold Mines Ltd. Munro Croesus Gold Mines Ltd. Munro Croesus Gold Mines Ltd. Miscellaneous Total Porcupine Camp Kirkland Lake Camp -	125,134 dump 138,114 547,600 1,900,341 26,030 851,345 50 180 11,572 <u>4</u>	125,134 500 138,114 547,600 1900,490 26,030 851,345 50 205 13,824 4 3705,098	20,603 19 28,436 206,158 434,257 3,304 239,099 10 298 2,020 54 949,799	350 25 500 1,500 6,000 150 2,000 3-5 15 500 4 11,345	(b) (b) (b) (c) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c

# PRODUCTION OF NOLD IN CANADA BY PRINCIPAL MINES, 1934

-

X

•

1

PRODUCTION OF GOLD IN CANADA BY PRINCIPAL	MINES, 193	4 - Continu	ed			
	Ore	Ore	Gold	Mill	See	
	raised	treated	recovered	capacity	foot	
Property			Fine	24 hrs.	note	
	Tons	Tons	ounces	Tons		
Kirkland Lake Camp - conc.						
Macassa Mines Ltd.	63,057	66,557	32,056	3 200	(b)	
Moffat Hall Mine	8,476	8,476	2,525		(b)(x)	
Sylvanite Gold Mines Ltd.	111,767		50,337		(b)	
Teck-Hughes Gold Mines Ltd	442,745		167,412		(b)	
Toburn Gold Mines Ltd.	36,230		20,401		(b)	
Wright-Hargreaves Mines Ltd	354,418		218,203		(b)	
Miscellaneous		t t	436		1	
		- 057 046		- International Contractor Space		
Total Kirkland Lake		1,957,046	988,046	5,435	000	
Other gold mines -	1	101	7.44	3		
Algoma Summit Gold Mines Ltd	ŧ,	421	144		(a)	
Ardeen Gold Mines Ltd	t	38,143	5,815		(b)	
Ashlay Gold Mining Corp.	43,532	43,532	13,181		(b)(c)	
Casey Summit Gold Mines Ltd	+	4,094	888	3 50	(a)	
Central Canada Mines Ltd	200	350	21	. 12	(a)(m)	
Central Patricia Gold Mines Ltd	11,680	11,536	6,373		(b)	
Dikdik Exploration Co. Ltd	803	230	1,082		(c)	
Duport Mining Co. Ltd	Ŧ	25	65		(c)	
Howey Gold Mines Ltd.	477,044	481,757	45,985		(b)	
J. M. Cons. Gold Mines Ltd.	+ +	3,443	1,019		(a)(b)	
Little Long Lac Gold Mines Ltd	5,600	5,485	2,457		(a)(b)	
McMillan Gold Mines Ltd	12,313	12,313	2,457		(a)(b)	
McMillan Gold Mines Ltd						
	10,605	4,680			(b) (b)	
Minto Gold Mines Ltd	22,189	22,189	4,912		(b)	
Northern Empire Mines Co. Ltd	22,759	22,507	5,663		(a)(b)	
Parkhill Gold Mines Ltd.	19,455	19,431	8,984		(b)	
St. Anthony Gold Mines Ltd	5,626				(b)	
Sol D'Or Gold Mines Ltd	130		74		(a)	
Young-Davidson Mines Ltd	51,842	51,842	3,878		(b)	
Miscellaneous	000	000	370	)	000	
Total Other Ont. Gold Mines		359,718	107 120		0 0 0	
Copper-Nickel mines			60,374		(c)	
GRAND TOTAL ONTARIO			2,105,339		000	
MANITOBA -						
Central Manitoba Mines Ltd	48,406	43,862	12,560	) 150	(a)(b)(c)	
Diana Gold Mines Ltd	6,663	5,284	1,980		(a)	
Island Lake Mines Ltd	9,191	6,984	3,231		(a)(c)	
Oro Grande Development Co. Ltd	4	4	146		(a)	
San Antonio Gold Mines Ltd.	66,457	64,294	21,638		(a)(b)	
Copper-Gold ores and miscellaneous			92,766			
						4
TOTAL MANITOBA			132,321		0 0 0	
SASKATCHEWAN -						
Copper-Gold ores		0.0.0	5,405	)	0 0 0	
ALBERTA -						
Placer gold			393	5	000	

- 10 -

PRODUCTION OF GOLD IN CANADA BY PRINCIPAL M	Ore	Ore	Gold	Mill	See
	raised	treated	recovered		
Property	202000	01 00 000	Fine	24 hrs.	note
	Tons	Tons	ounces	Tons	
BRITISH COLUMBIA					
Bralorne Mines Ltd.	98,664	98,664	45,971	- 450	(a)(c
Bunker Hill Gold Mines Ltd	+	92(h)	56		(c)
Cariboo Gold Quartz Mining Co. Ltd	28,447	27,693	10,263	100	(b)
Carmi Gold Mines Ltd. (3)	165	165 <b>(</b> h)	86		(c)
Clubine Comstock Gold Mines Ltd	102	102 <b>(</b> h)	116		(c)
Columario Cons. Gold Mines Ltd	2,300		483	90	(c)
Danzig Mines Ltd.	,33	33(h)	67		(c)
Dawson Cons. Gold Mines Ltd	+	8(h)	.67	25	(a)(c
Dentonia Mines Ltd.	22,610	22,464	3,784	135	(c)
Dynamo Mining & Milling Co. Ltd	56	56(h)	20		(c)
Euphrates Mining Co. Ltd	58	58(h)	100		(c)
Evening Star	197	198(h)	230		(c)
Gold Belt Mining Co. Ltd.	t,	291(h)	608		(c)
Granby Point Mine	7 000	13,948	1,357 576 <sup>x</sup>		(c)
Grandoro Mines Ltd.	3,000	546(h)	545	•••	(c)
Grange Mines Ltd.	3,330	3,330	545. 31 <sup>X</sup>	50	(a) (c
Hercules Cons. Mining, S. & P. Corp	18	18(h) 2,8 <b>94</b>	1,591	50	(b)
Island Mountain Mines Co. Ltd	2,8 <b>94</b> 127	127(h)	748		(c)
I. X. L. Mine	200	100	40.	30	(c)
Jenny Long Gold Mines	4	105(h)	7 142		(c)
Keystone Mine Kootenay Belle Gold Mines Ltd.	2,824	824(h)	1,529	60	(c)
Livingstone Mining Co. Ltd.	563	563(h)	436		(c)
Midnight Mine	266	266(h)	153		(c)
Minto Gold Mines Ltd.	2,878	1,439	345	50	(a) (c
Morning Star Gold Mines Ltd.	2,652	2,652(h)	1,444		(c)
Nicola Mines & Metals Ltd.	6,095		775	50	(c)
Noble Fine Mines Ltd.	164	164(h)	175		(c)
Oscarson Bros. (Erie)	408	408(h)	507		(c)
Pioneer Gold Mines of B.C. Ltd.			87,536	300	(b)
Precambrian Gold Mines	3,154		1,178	25	(c)(i
	154,693		38,371	500	(c)
Relief-Arlington Mines Ltd.			5,787	25	(a) (c
Reno Gold Mines Ltd.		26,895	15,979	100	(a) (b
Superior Gold Mines Ltd.		3,415	57	50	(c)
Surf Point Mine (N. A. Timmins)		5,658	3,582	20	(c)
Taylor Windfall Mining Co. Ltd.	83	83	185 <sup>x</sup>	5	(a)
Twin Lakes Gold Mining Co. Ltd	5,471		1,675	40	(a) (c
Union Mine (J. F. McCarthy)	4	18,143(j)	424	200	(b) (c
Vancouver Island Gold Mines Ltd.	40	40(h)	116		(c)
Velvet Gold Mining Co	2,000	740	747	50	(c) (k
Vidette-Gold Mines Ltd.	7,228	7,216	3,589	30	(c)
Waterloo Gold Mines Ltd.	+	59(h)	54		(c)
Wayside Cons. Gold Mines Ltd	2,381	513	84	40	(a)
Wilcox Mine	3,320	1,660	651	20	(a) (c
Windpass Gold Mining Co. Ltd	9,005		7,819	40	(c) (k
Ymir Cons, Gold Mines Ltd.	3,677	4,261(h)	2,254	100(1)	(c)
Ymir Dundee Gold Mining Co. Ltd	313	313(h)	113		(c)
Ymir Yankee Girl	+	13,966(h) <sup>x</sup>		x 100(1)	(c)

(c)

# - 11 -PRODUCTION OF COLD IN CANADA BY PRINCIPAL MINES, 1934 -

. 1

1

-

ì

PRODUCTION OF COLD IN CANADA BY PRINCIPAL	Ore	Ore	Gold	Mill	See	
	raised	treated	recovered		foot	
Property	IULDUL	01.000.0-0	Fine	24 hrs.	note	
	Tons	Tons	ounces	Tons	110 00	
A CONTRACTOR OF			and the second s	and the second in the bid of the second seco	n Shadhaan San Ingan Gereng	
BRITISH COLUMBIA - concluded						
Placer Mines	000		20,145	000		
Copper-gold, silver-lead and other						
gold mines	0 0 0	0 0 0	24,541		0,00	
TOTAL BRITISH COLUMBIA	0 0 0	800	296,196		6 5 P	
		and the second sec				
UKON -						
Placer sons and conservation of the second s			38,703			
Other sources	000	000	95		0 9 8	
	¢ 0 0			and the second	0.5.0	ł
TOTAL YUKON	000	0 8 0	38,798	000	000	
TATA DA			0.070.074			
COTAL CANADA	0.00	0 3 0	2,972,074	000	300	
OTE ~					enteringen de sociales sons done Ministering	l
(a) amalgamation		(a) inclu	udes tailing	a ata		
(b) cyanidation		(h) ship		5, 6000		
(c) shipments to smelter			includes bu	llion		
(d) no clean up		(j) tail:		LITION		
x subject to revision			udes ore and	concentrat	0.0	
publicon in rearproli		(b) THOTI	lues ore and	concentrat	JE D	

- 12 -

(1) under construction (m) concentrates also produced.

TIMATED AVERAGE MONTHLY VALUE OF AN OUNCE	OF FINE GOLD	EXPRESSED IN	CANADIAN FU	JNDS.
	1931	1932	1933	1934
	\$	**	\$	\$
January	. 20.71	24.24	23.64	33.05
February	20.67	23.67	24.74	35.29
March assessessessessessessessessessessessesse	20.67	23.11	24.78	35.08
April	20.68	22.98	25.33	34.93
May sassusossoceessoceesceesce	20.68	23.38	27.75	34.94
Une	20.73	23.83	28.24	34.73
July	20.74	23.73	30.58	34.59
August account and a second account of the s	20.73	23.61	30.09	34.19
September	21.55	22.88	31.79	34.18
October	23.22	22.65	31.48	34.27
November	23.22	23.73	32.68	34.16
December	25.01	23.85	32.14	34,57
Learly average	21.55	23.47	28.60	34.50
Tearry average	66.13	60.41	£8.0U	34.30

	1931	1932	1933	1934
	%	%	%	%
n alluvial goldg	2.1	1.8	2.0	2.0
n crude gold bullion <sup>x</sup> n base bullion (from silver-lead	80.6	79.3	7 <b>9</b> .8	78.68
ores, etc.)	0.6	1.0	0.7	1.09
n blister copper	13,8	15.1	14.2	13.41
n ores, matte, slags, etc., exported	2.9	2.8	3.3	4.82
	100.00	100.00	100,00	100.00

SOURCE OF CANADIAN FINE GOLD PRODUCTION BY PERCENTAGES, 1931-1934

x Includes a relatively small quantity of gold contained in interprovincial shipments of gold ores to smelters.

#### IMPORTS INTO CANADA AND EXPORTS OF GOLD, 1933-1934.

.

4

X

Items	1933	1934
	\$	\$
PORTS -		
Coins and bullion -		
Coins, British and Canadian and foreign gold coins	822,236	708,010
Gold in bars, blocks, ingots, drops, sheets or plates, unmanufactured n.o.p.	75 716	EC ZAZ
praces, unmanuracourea naospa asessassassassas	35,316	56,343
TOTAL	857,552	764,353
Gold, other -		
Bullion fringe or gold fringe	4,554	8,456
Manufactures of gold and silver, leaf gold,		
silver and Dutch or schlag metal	52,790	61,908
Sweepings - Gold and silver	4,119	140
Manufactures, n.O.p.	17,729	23,860
Electroplated ware and gilt ware n.o.p Gold unmanufactured, for commercial purposes	260,176	384,400
(from April 1st, 1933)	1.68,382	157,691
TOTAL	507,750	636,455
PORTS -		
Coin and bullion -		
Gold coin		
Canadian	10	0 @ 9
ForeignGold bullion	5,963,594	83,480
Canadian n.o.p To United Kingdom	40,804,715	21,545,438
United States	15,197,546	69,469,563
Total Canadian bullion <sup>X</sup>	56,002,261	91,015,001
Foreign	877	603
TOTAL - Canadian coin and bullion	56,002,271	91,015,001
Foreign " " "	5,964,471	83,480
AND TOTAL COIN AND FINE GOLD BULLION	61,966,742	91,098,481
ld-bearing quartz, dust, nuggets and crude bullion		and a second
	2,299,650	3,997,992
btained direct from mining operations services wellers' sweepings (gold, silver and platinum)	502,506	520,067
TOTAL ore, sweepings, etc.	2,802,156	4,518,059

x In 1933 exports of Canadian gold bullion were valued at the standard price of \$20.67 per fine ounce while in 1934, the metal was valued at \$20.67 for the first three months only and at the actual world market value for the remainder of the year.

# GOLD PRODUCTION OF THE WORLD, 1932 - 1934

# (in fine ounces)

# Supplied by the "American Bureau of Metal Statistics"

	1932	1933	1934 <sup>×</sup>
Union of South Africa	11,558,532	11,013,713	10,479,857
Russia and Siberia	1,990,000	2,814,000	4,200,000
Canada	3.044,387	2,949,309	<b>2</b> ,971,956
United States, including Philippines	2,449,032	2,536,913	2,916,373
Australia (including Tasmania)	710,447	823,312	873,127
Rhodesia	580,503	645,087	693,263
Mexico	584,487	637,727	662,000
Japan	401,779	433,800	467,500
Colombia	248,249	298,242	344,140
British India	329,682	336,108	325,000
British West Africa (a)	292,510	338,110	380,000
Chosen (Korea)	276,002	328,040	320,000
Belgian Congo	242,691	283,144	355,300
Sweden	132,458	288,643	315,000
New Zealand	166,354	161,755	152,000
Chile	37,778	147,052	238,547
Rumania	102,591	142,585	145,000
Brazil	115,258	110,000	102,000
Peru	55,587	84,066	108,000
Newfoundland	17,661	15,689	14,500
Other South America	222,097	230,975	260,000
Central America and West Indies	82,238	87,075	110,000
Other Asia	231,462	299,529	294,100
Other Oceania (b)	121,071	173,000	223,000
Other Africa	122,832	152,090	201,700
Other Europe	149,826	183,861	1.94,000
outor antopo essessessessessessessessesses	1.101040	100,001	2029000
TOTAL WORLD	24,265,514	25,513,645	27,346,363

(a) includes Gold Coast (b) includes New Guinea

x subject to revision.

- 15 -

# PRODUCTION OF SOME OF THE MORE IMPORTANT FOREIGN GOLD MINES, 1934/

.

÷

L

- 80

L

			Estim	
	Tons	Yield,		ng profi
	milled	Fine	per t	on mille
		ounces	S	d
RANSVAAL	1 400 000	101 130	3.5	0
Brakpan Mines	1,479,000	404,410	17	0
City Deep	1,204,000	236,210	5	3
Cons. Main Reef	1,189,300	279,366	9	10
Crown Mines	3,558,000	1,001.,618	18	9
Daggafontein	959,900	323,923	24	2
Durban Deep	626,000	151,774	8	7
East Geduld	972,500	331,492	28	2
East Rand Prop	2,102,500	477,712	9	5
Geduld Proprietary	1,116,000	324,135	25	2
Geldenhuis Deep	996,900	162,301	4	10
Government Areas	2,482,000	915,852	33	1
Langlaagte Estate	1,007,000	197,536	7	11
Luipaards Vlei	487,100	107,500	9	8
Modder B.	1,008,000	192,435	11	4
Modder Deep	568,500	192,538	31	3
Modder East	1,023,500	234,495	11	1
New Kleinfontein	649,600	113,844	2	0
New Modderfontein	2,145,000	554,118	20	10
New State Areas	1,122,000	440,678	33	8
Nigel	66,550	20,963	16	11
Nourse Mines	852,000	200,607	8	2
Randfontein	3,791,000	730,935	7	0
Robinson Deep	1,200,000	301,017	14	11
Rose Deep	764,500	137,585	4	3
Simmer and Jack	1,073,900	245,161	9	9
Springs Mines	1,077,700	421,689	33	3
Sub Nigel	516,400	424,281	77	8
		95,941	3	6
Van Ryn Estate	657,000	-		
Van Ryn Deep	944,000	220,415	12	11
West Rand Cons.	1,430,000	339,589	15	4
West Springs	1,104,200	173,515	5	9
Witwatersrand	958,000	152,483	3	2
Witwatersrand Deep	590,800	116,434	5	1
Glynn's Lydenburg	91,700	35,085	20	8
Transvaal G. M. Estate	241,200	57,127	11	11
Miscellaneous Producers	000	171,629		
TOTAL TRANSVAAL	40,055,750	10,486,393	15	9
W ZEALAND				
Waihi	266,933	57,448		* 0
Grand Junction	21,916	5,887		
Golden Dawn	6,720	4,105	1	
Blackwater	31,862	15,588		
Talisman-Dubbo	2,094	2,477		
Alexander	2,164	1,807		* *
Big River	1,009	671	••	**
	1,000	017	* *	• •
AZIL				
Morro Velho	(h)	105,100	3 0	4 h
Passagem (7 months)	(h)	5,061	• •	

- 16 -

PRODUCTION OF SOME OF THE MORE IMPORTANT FOREIGN GOLD MINES, 1934/ - concluded

	Tons milled	Yield, Fine ounces	
PINA IA			
eraguas Mines	13,275	14,979	
INDIA	100 000	00 500	
Mysore Gold Mining Co.	177,035	92,506 62,283	
Champion Reef Gold Mines <sup>x</sup>	220.020	109,974	
Nundydroog Mines Ltd.(a) Ooregum Gold Mining Co. Ltd.(b) .	147,053	37,944	
ooregum dord mining oo. Did. (b) .	1419000	01 goran	
WEST AFRICA			
Asaanti Goldfields Corp. Ltd. (c).	173,350	186,847	
Gold Coast- all gold mines	503,902	308,960	
KOREA Chosen Corp. (Nurupi, Tong Chang and Kapam)	<b>145</b> ,665(d)	630	6.63 dwt.(e)
AUSTRALIA Wiluna Gold Corp. Ltd	46 <b>9,</b> 362(d)	0 0 8	29s 1.36d (e)
UNITED STATES Homestake (S.D.) Empire Star Mines (Cal.)	1,432,195(f) (h)	100,000/	<b>\$</b> 12,900,317(g)

#### NOTE -

x In addition 4,117 oz. were recovered from 159,109 tons of tailings.

- / Subject to revision.
- (a) In addition 2,139 oz. were recovered from tailings.

(b) In addition 12,358 oz. were recovered from dumps, etc.

- (c) For the year to September 30th.
- (d) To year ended March 31st, 1934.
- (e) Grade per ton.
- (f) Mined
- (g) Value
- (h) Data not available.

COMPARATIVE FIGURES OF GOLD PRODUCTION FOR THE WORLD SINCE THE DISCOVERY OF AMFRICA, TRANSVAAL, UNITED STATES AND CANADA.

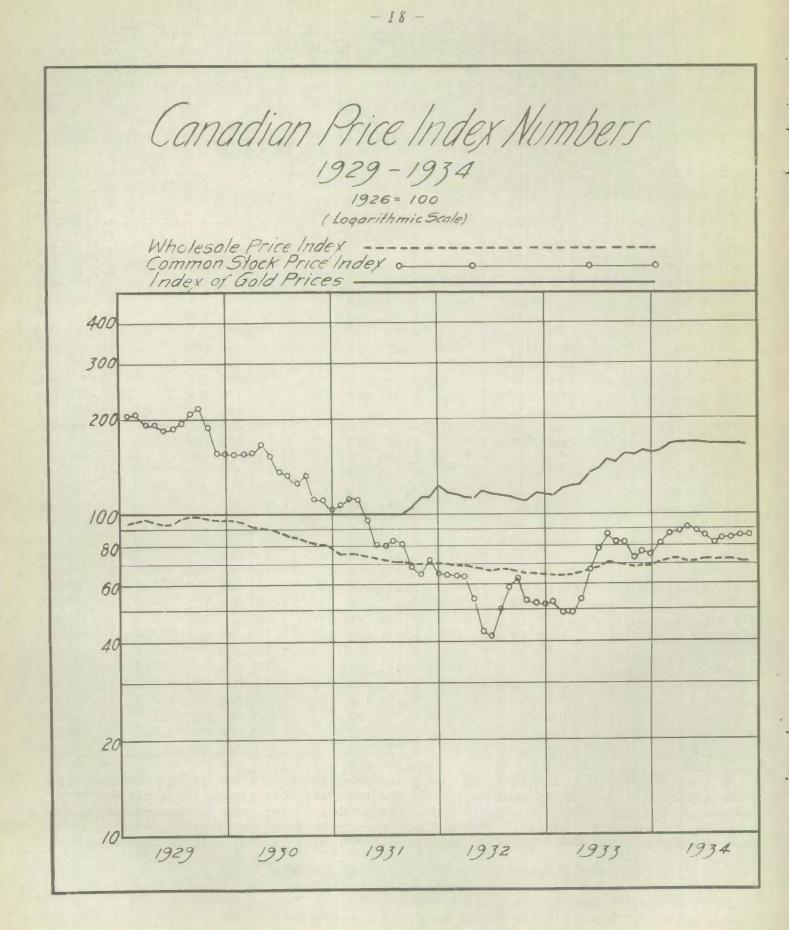
- 17 --

		Transvaal Since the		Canada Since the Recording	(a) World Since he
	Period	Commencement	XUnited States	of Production	Discov ry of
•		of Fields(b)		<u>in 1858</u>	Amer ca
		Fine Ounces	Fine Ounces	Fine Ounces	Fine Ounces
1	1493 - 1600			-	24,266,820
	1601 - 1700	wgun	ant -	-	29,330,445
	1701 - 1800		-	and a	61,088,215
	1801 - 1840	Break		-	20,488,552
	1841 - 1850	-	1,187_170(c)	-	17,605,018
	1851 - 1860	-	ran	220,039	64,482,933
	1861 - 1.870	-	58,279,778(d)	1,477,999	61,098,343
	1871 - 1880	-	15,281,264(e)	904,093	55,670,618
	1881 - 1890	1,070,651	15,808,339	584,102	51,280,184
	1891 - 1895	6,870,158	9,106,834	291,564	39,412,823
	1896 - 1900	12,578,869	15,728,572	3,469,791	62,234,698
	1901 - 1905	13,632,908	19,393,722	4,592,261	78,033,650
	1906	5,792,823	(	556,415	19,471,080
	1.907	6,450,740	(	405,517	19,977,260
	1908	7,056,266	(22,993,218	476,112	21,422,244
	1909	7,295,108	(	453,865	21,965,111
	1910	7,527,108	(	493,707	22,022,180
	1911	8,249,461	4,687,053	473,159	22, 397, 136
	1912	9,107,512	4,520,719	611,885	22,605,068
	1913	8,798,336	4,299,784	802,973	22,928,579
	1914	8,394,322	4,572,976	773,178	21,875,618
	1915	9,093,902	4,887,604	918,056	23,010,348
	1916	9,296,618	4,479,057	930,492	22,400,370
	1917	9,018,084	4,051,440	738,831	20,457,475
	1918	8,418,292	3,320,784	699,681	18,701,294
	1919	8,331,294	2,918,628	766,764	17, 376, 201
	1920	8,158,226	2,476,166	765,007	16,130,273
	1921	8,128,681	2,422,006	926, 329	16,006,695
	1922	7,009,767	2,363,075	1,263,364	15,576,270
	1993	9,148,771	2,502,632	1,233,341	17,977,807
	1923	9,574,918	2,528,900	1,525,382	
					18,667,063
	1925	9,597,573	2,411,987	1,735,735	18,734,102
	1926	9,954,762	2,335,042	1,754,228	19,251,794
	1927	10,122,459	2,197,125	1,852,785	19,180,231
	1928	10,354,157	2,233,251	1,890,592	19,399,124
	1929	10,412,326	2,208,386	1,928,308	19,585,536
	1930	10,716,349	2,285,603	2,102,068	20,836,318
	1931	10,877,708	2,395,878	2,693,892	22,329,525
	1932	11,557,858	2,449,032	3,044,387	24,150
	1933	11,017,495	2,556,246	2,949,309	24,962,408
	1934	10,486,393	2,916,373/	2,972,074	27,339,233/
	TOTAL	294,099,895	231,798,644	49,277,285	1,161.729.403

x Including Philippine Islands production received in United States. # Preliminary estimate - American Bureau Metal Statistics.

7	orrunting ?	0	J ULING UC		TO CITE	2 ca	Lean menut	Course.	TCDO		
(a)	Supplied	by	United	States	Min	t.		(c)	1792		1847.,
(b)	Supplied	by	Transva	aal Cha	mber	of	Mines.	(d)	1848	-	1872.

<sup>(</sup>e) 1873 - 1880,



## - 19 -NOTE REGARDING RATIO CHART

The chart on the preceding page shows ratio changes in the price of gold, common stock prices, and wholesale commodity prices. It indicates that the percentage ncrease in common stock prices has been considerably greater than that for gold, since the beginning of 1933. The increase in wholesale commodity prices has, on the other hand, been materially less than the advance in gold.

# CANADIAN SECURITY PRICE INDEX NUMBERS 1929 - 1934

1

		192	26 = 100			
	Common	Stocks	Bond yields		Common Stock	8
		Indus-	of province	Mines		Base
	Total	trials	of Ontario	Total	Gold	Metals
1929						
October	186.4	~55.4	103.3	90.1	59.3	
December	156.5	210.0	102.3	74.5	54.3	
					and an an and a second	
1930						
December	103.1	120.3	93.9	59.2	57.8	
1931					1 1 1 1 1 1	
December	64.8	74.3	108.6	59.0	59.0	
1070						
<u>1932</u>	50.0	50.0	100 7	07 1	co 17	
December	52.2	58.9	102.7	63.1	62.7	
1933						
March	48.9	59.1	100.0	68.4	66.6	76.9
July	86.5	122.3	96.7	106.9	99.7	133.5
October	73.3	103.6	94.6	112.2	108.6	131.8
1934						
January	81.6	118.6	97.2	108.9	104.7	128.3
February	86.5	123.8	96.0	114.4	110.1	134.2
March	88.0	128.5	90.1	128.1	124.3	147.1
April	90.7	133.0	87.7	137.2	132.0	162.3
May	88.6	128.0	84.8	129.8	124.2	156.5
June	87.2	126.1	85.4	138.5	133.4	164.2
July	81.3	116.6	83.1	157.2	133.3	158.3
August	83.8	120.1	82.3	141.1	137.4	161.7
September	83.8	118.8	82.0	139.2	136.7	154.9
October	85.2	122.0	82.9	133.5	132.9	141.4
November	86.0	125.3	·81.0	125.5	125.7	129.0
December	86.2	125.6	76.2	124.9	124.7	129.6

The relative stability of Canadian price levels in 1934 offered a marked contrast to the violent changes occurring in the preceding four years. This new movement toward equilibrium could be discerned in common stock prices, and foreign exchange, as well as in commodity markets. A pronounced rise in bond prices, indicative of a plentiful supply of investment funds, furnished the only major exception to the tendency in other price fields. It is a striking fact that the steadiness in price leads followed closely after gold prices be as to move within narrow limits at approximately 65 p.c. above the former mint price \$20.67 per ounce. The premium on gold averaged 68 p. in February 1934, s compared is h 20 p.c. in February 1933. During the last ter months of 1934, and is is a ied tess than 2 p.c., and fluctuations of the official Conadian wholesale price index we ewith n even narrower limits. Between February 1933 and F bruary 1934, wholesale prices he advanced 15.5 p.c., a much less pronounced increase than that recorded for gold.

Mining stol prices advanced rapidly during the first quarters of 1934, and were fairly steady during the second and third quarters. They declined rather sharply in October and November, but advanced moderately during December. An index of gold stock prices showed new increase for the year of roughly 24 p.c. Gold stocks continued to dvance for six months after prices for gold itself had ceased to rise, and similarly the total appreciation in gold stock prices since the mint par of \$20.67 per ounce was abandoned, has been very much greater than the currency premium established on gold. An index of base metal stock prices was 129.6 in December, as compared with 128.3 in January, and 164.2 in June, when prices were at the highest point of the year.

Lower in erest rate: were accompanied by a rise in bond prices to the highest levels seen since 91, and of course a corresponding decline occurred in bond yields. An index of yields on h gh grade Province of Ontario bonds fell from 97.2 in January to 76.2 for December.

#### FOREIGN EXCHANGE, 1934.

The outstanding feature of 1934 foreign exchange history from a Canadian point of view, was the g adual approach of the £ sterling, the United States dollar and the Canadian dollar towards their previous exchange parities. Although all three of these units are now to the only about 60 p.c. of former gold values, the end of 1934 found the Ganadian and American dollars practically at par, and the £ sterling commanding close to \$4.86 at both New York and 'iontreal. This situation has not been paralleled since September, 1931. During the year a small premium on American dollars at Montreal gradually gave place to a discount which for a short time in September exceeded 5 p.c., Sudden weakness in Ca adian funds in December reduced this discount to about 1 p.c. The premium on sterling increased from 4. p.c. in January to about 6 p.c. in April, but by September, the pound was flatuating narrowly around \$4.86. Subsequent weakness in the dollar caused sterling gain to rise to a premium of about 1 p.c. towards the middle of December. During 1934, in countries formally adhering to old gold parities (includin, France, Belgium, Holand and Germany) most exchanges appreciated by approximately 4 p.c. The Ital an Lira however, showed to net a preciation during this period. The Scandinavian currencies, the Australian, New Zealand, and South African pounds, the Indian rupee, and the Brazilian milreis roved closely in line with the £ sterling. The Japanese yen followed the general movements of sorling, but due to a weak tendency registered a net decline of 6 p.c. at Montreal for 19 4; this decline was 2 p.c. greater than the fall in sterling.

- 21 -EXCHANGE QUOTATIONS AT MONTREAL, 1934

	New York	London Sterling	France Franc	Germany Reichsmark	Italy Lira	Japan Yen
	funds	4.8666	.0392	.2382	.0526	.4985
January	1.0047	1 5.0702	.0625	.3781	.0839	.3046
February	1,0084	5.0777	。0652	,3931	.0869	3022
March	1.0022	5,1065	.0660	.3978	.0861	.3019
April	.9979	5,1476	.0661	<b>.3954</b>	.0856	,3039
May oscososososososos	,9982	5.1002	.0661	3942	.0852	.3030
line successources	.9922	5,0122	。0656	.3813	.0855	.2980
July passassessesses	,9883	4,9851	.0652	.3818	,0849	.2959
August	.9769	4.9509	.0651	.3862	。0848	.2943
September	,9714	4.8551	,0649	,3917	.0845	.2904
October	<b>.9791</b>	4.8431	。0649	.3964	.0844	.282
November	.9761	4.,8724	.0644	3925	.0835	.284
December	.9878	4.8865	.0652	.3970	.0844	. 2855

NOTE - The nominal closing quotations in Canadian funds upon which these averages are based have been supplied by the Bank of Montreal.

AVERAGE COMMERCIAL RATIO OF SILVER TO GOLD FOR EACH SPECIFIED YEAR SINCE 1700. (Supplied by United States Mint)

Year		Year		Year	
1700	14,81	1885	19,41	1920	20, :8
1750	14.55	1890	19.75	1925	29,78
1800	15.68	1.895	31.60	1930	53.74
1850	15,70	1900	33.33	1931	71,25
1875	16.64	1905	33,87	1.932	73,29
1.880	18,05	1910	38.,22	1933	59,06
		1915	40,48	1934/	

7 Estimated on averages in Canadian funds,

WORLDS MONETARY STOCKS OF GOLD AT THE CLOSE OF 1932 and 1933 (Subject to Revision) (Compiled by United States Mint from Available Data) (Stated in United States Money)

	Total Gold Stock		Total Gold Stock	
Country	Value, 1932	Per Capita	Value, 1933 Pe	er Cap ta
	\$	\$	\$	\$
United States	4,513,001,000	36.04	4,322,599,000	34,63
Canada	124,265,000	11,97	113,880,000	10,97
Belgium	360,842,000	44,59	379,960,000	46.56
Denmark	35,693,000	10.01	35,689,000	9.94
France and a second a second a second	3,254,247,000	77.78	3,022,242,000	72.24
Germany	209,015.000	3.23	109,411,000	1.69
Great Britain	582,950,000	12,62	932,843,000	20.19
Italy on on one on one on one	307,158,000	7,45	466,280,000	11.15
Netherlands	415,101,000	51,69	370,615,000	45.2
Norway	38,658,000	13.73	38,404,000	13.64
Poland anonaforesseeress	· \$6,344,000	1,75	53,359,000	1.66
Portugal	23,829,000	, 3.54	34,080,000	5.07
Rumania	, 57,161,000	3.17	59,373,000	3.26
Russia (Soviet Union)	367,692,000 (a	l) 2.26	415,622,000(b)	2.51 .

### - 22 -<u>MONETARY STOCKS OF COLD AT THE CLOSE OF 1932 and 1933 (Subject to hevision)</u> (Compiled by United States Mint from Available Data) (Stated in United States Money) (Concluded)

	m + 7 (7 7 1 / / )		PT 1 . 7 /1. 7 ' ' )	
And the second se	Total Gold Ltock		Total Gold Look	
Country	Value, 1932	Per Capita	Value, 1933	Per Capita
	\$	Ş	Ş	40 yr
Spain	435,904,000	18.23	436,443,000	18.52
Sweden	55,409,000	9.02	99,416,000	18.06
Switzerland	505,890,000	123.84	385,6°8,000	93.60
british India	161,933,000	.45	164,148,000	0.46
Japan (including Chosen,				
Taiwan, Kwantung)(c)	211,953,000	2.34	211,834,000	
Netherland East Indies	41,749,000	.68	43,568,000	0.71
Egypt	32,936,000	2.22	30,848,000	2.06
Australia	42,573,000	6,52	2,433,000	0.27
New Zealand	24,600,000	16.17	24,600,000	(f) 16.91
Other Countries	710,888,000		881,386,000	
		Appropriate and the filled approximation of the later is a	an di kana da mana da m	
TOTAL	12,569,701,000	<u>6.34(d)</u>	12,634,726,000	6.31(e)
(c) Incomplete (d) "orld population e (c) " " p	stimated at 1,931 rincipally from t		erce Yearbook	
(f) Gold and silver.	TAN DINICOUL OF T			1074 /
(f) Gold and silver. COLD HELD BY THE CANAD		INANCE, CALFN	DAR YEARS, 1919-	
	Gold Reserve		<u>DAR YEARS, 1919-</u>	fotal Gold
	Gold Reserve Held on Postal	Gold H	DAR YFARS, 1919- ' eld for	fotal Gold Held by
COLD HELD BY THE CANAD	Gold Reserve Held on Postal Savings Bank	Gold H Redemp	DAR YEARS, 1919- eld for tion of I	fotal Gold
COLD HELD BY THE CANAD	Gold Reserve Held on Postal	Gold H Redemp	DAR YFARS, 1919- ' eld for	fotal Gold Held by
COLD HELD BY THE CANAD	Gold Reserve Held on Postal Savings Bank	Gold H Redemp Domini	DAR YEARS, 1919- eld for tion of I on Notes	fotal Gold Held by Minister of
COLD HELD BY THE CANAD	Gold Reserve Held on Postal Savings Bank Deposits (a)	Gold H Redemp Domini	DAR YEARS, 1919- eld for tion of I	fotal Gold Held by Minister of Finance
COLD HELD BY THE CANAD	Gold Reserve Held on Postal Savings Bank Deposits (2) \$	Gold H Redemp Domini	DAR YEARS, 1919- eld for tion of I on Notes	Fotal Gold Held by Minister of Finance
COLD HELD BY THE CANAD Calendar Year	Gold Reserve Held on Postal Savings Bank Deposits (2) \$ 4,909,675	Gold H Redemp Domini 118,43	DAR YEARS, 1919- eld for tion of I on Notes \$ 9,692	Fotal Gold Held by Minister of Finance \$ 123,339,367
COLD HELD BY THE CANAD Calendar Year 1919 1920	Gold Reserve Held on Postal Savings Bank Deposits (2) \$ 4,909,675 4,067,897	Gold H Redemp Domini 118,43 98,75	DAR YEARS, 1919- eld for tion of I on Notes \$ 9,692 1,773	Fotal Gold Held by Minister of Finance \$ 123,339,367 102,819,670
COLD HELD BY THE CANAD Calendar Year 1919 1920 1921	Gold Reserve Held on Postal Savings Bank Deposits (2) \$ 4,909,675 4,067,897 3,666,009	Gold H Redemp Domini 118,48 98,75 84,56	DAR YEARS, 1919- eld for tion of I on Notes \$ 9,692 1,773 3,064	Fotal Gold Held by Ainister of Finance \$ 123,339,367 102,819,670 88,234,073
<u>COLD HELD BY THE CANAD</u> Calendar Year 1919 1920 1921	Gold Reserve Held on Postal Savings Bank Deposits (2) \$ 4,909,675 4,067,897 3,666,009 3,293,287	Gold H Redemp Domini 118,48 98,75 84,56 89,93	DAR YEARS, 1919- eld for tion of I on Notes \$ 9,692 1,773 3,064 9,108	Fotal Gold Held by Ainister of Finance \$ 123,339,367 102,819,670 88,234,073 93,232,395
COLD HELD BY THE CANAD Calendar Year 1919 1920 1921 1922 1923	Gold Reserve Held on Postal Savings Bank Deposits (2) \$ 4,909,675 4,067,897 3,666,009 3,293,287 3,154,358	Gold H Redemp Domini 118,48 98,75 84,56 89,93 120,65	DAR YEARS, 1919- eld for tion of I on Notes \$ 9,692 1,773 8,064 9,108 1,627	Fotal Gold Held by Minister of Finance \$ 123,339,367 102,819,670 88,234,073 93,232,395 125,805,985
COLD HELD BY THE CANAD Calendar Year 1919 1920 1921 1922 1923	Gold Reserve Held on Postal Savings Bank Deposits (2) \$ 4,909,675 4,067,897 3,666,009 3,293,287 3,154,358 3,308,575	Gold H Redemp Domini 118,43 98,75 84,56 89,93 120,65 107,25	DAR YEARS, 1919- eld for tion of I on Notes \$ 9,692 1,773 8,064 9,108 1,627 7,428	Fotal Gold Held by Minister of Finance 2 123,339,367 102,819,670 88,234,073 93,232,395 123,805,985 110,566,003
COLD HELD BY THE CANAD Calendar Year 1919 1920 1921 1922 1922 1923 1924	Gold Reserve Held on Postal Savings Bank Deposits (2) \$ 4,909,675 4,067,897 3,666,009 3,293,287 3,154,358 3,308,575 3,241,490	Gold H Redemp Domini 118,48 98,75 84,56 89,93 120,65 107,25 119,74	DAR YEARS, 1919- eld for tion of I on Notes \$ 9,692 1,773 8,064 9,108 1,627 7,428 4,819	Fotal Gold Held by Minister of Finance 2 123,339,367 102,819,670 88,234,073 93,232,395 123,805,985 110,566,003 122,986,309
COLD HELD BY THE CANAD Calendar Year 1919 1920 1921 1922 1922 1923 1924 1925 1926	Gold Reserve Held on Postal Savings Bank Deposits (2) \$ 4,909,675 4,067,897 3,666,009 3,293,287 3,154,358 3,308,575 3,241,490 3,162,930	Gold H Redemp Domini 118,43 98,75 84,56 89,93 120,65 107,25 109,36	DAR YEARS, 1919- eld for tion of I on Notes \$ 9,692 1,773 8,064 9,108 1,627 7,428 4,319 9,550	Fotal Gold Held by Ainister of Finance \$ 123,339,367 102,819,670 88,234,073 93,232,395 123,805,985 110,566,003 122,986,309 112,532,480
COLD HELD BY THE CANAD Calendar Year 1919 1920 1921 1922 1923 1923 1924 1925 1926 1927	Gold Reserve Held on Postal Savings Bank Deposits (2)	Gold H Redemp Domini 118,48 98,75 84,56 89,93 120,65 107,25 119,74 109,36 107,41	DAR YEARS, 1919- eld for tion of I on Notes \$ 9,692 1,773 8,064 9,108 1,627 7,428 4,819 9,550 7,631	Fotal Gold Held by Ainister of Finance \$ 123,339,367 102,819,670 88,234,073 93,232,395 123,805,985 110,566,003 122,986,309 112,532,480 110,501,071
COLD HELD BY THE CANAD Calendar Year 1919 1920 1921 1922 1923 1923 1924 1925 1926 1926 1927 1927	Gold Reserve Held on Postal Savings Bank Deposits (2) \$ 4,909,675 4,067,897 3,666,009 3,293,287 3,154,358 3,308,575 3,241,490 3,162,930 3,083,440 2,994,001	Gold H Redemp Domini 118,48 98,75 84,56 89,93 120,65 107,25 119,74 109,36 107,41 89,21	DAR YEARS, 1919- eld for tion of I on Notes \$ 9,692 1,773 8,064 9,108 1,627 7,428 4,819 9,550 7,631 8,454	Fotal Gold Held by Minister of Finance \$ 123,339,367 102,819,670 88,234,073 93,232,395 123,805,985 110,566,003 122,986,309 112,532,480 110,501,071 92,212,455
COLD HELD BY THE CANAD Calendar Year 1919 1920 1921 1922 1923 1924 1924 1925 1926 1926 1927 1928	Gold Reserve Held on Postal Savings Bank Deposits (2) \$ 4,909,675 4,067,897 3,666,009 3,293,287 3,154,358 3,308,575 3,241,490 3,162,930 3,083,440 2,994,001 2,709,169	Gold H Redemp Domini 118,48 98,75 84,56 89,93 120,65 107,25 119,74 109,36 107,41 89,21 59,34	DAR YEARS, 1919- eld for tion of I on Notes \$ 9,692 1,773 6,064 9,108 1,627 7,428 4,819 9,550 7,631 8,454 5,233	Fotal Gold Held by Minister of Finance 2 2 2 2 2 2 3,232,395 2 3,232,480 2 3,232,440 2,342,440 2,342,440 2,342,440 2,342,440 2,342,440 2,342,440,440,440,440,440,440,440,440,4
COLD HELD BY THE CANAD Calendar Year 1919 1920 1921 1922 1922 1923 1924 1925 1926 1926 1926 1927 1928 1929	Gold Reserve Held on Postal Savings Bank Deposits (2)	Gold H Redemp Domini 118,43 98,75 84,56 89,93 120,65 107,25 119,74 109,36 107,41 89,21 59,34 79,00	DAR YEARS, 1919- eld for tion of I on Notes \$ 9,692 1,773 8,064 9,108 1,627 7,428 4,819 9,550 7,631 8,454 5,733 0,297	Fotal Gold Held by Minister of Finance 2 2 23,339,367 23,339,367 202,819,670 88,234,073 93,232,395 23,232,395 23,805,985 210,566,003 22,986,309 212,532,480 210,501,071 92,212,455 62,054,402 81,434,256
COLD HELD BY THE CANAD Calendar Year 1919 1920 1921 1922 1923 1924 1924 1925 1926 1926 1927 1928	Gold Reserve Held on Postal Savings Bank Deposits (2) \$ 4,909,675 4,067,897 3,666,009 3,293,287 3,154,358 3,308,575 3,241,490 3,162,930 3,083,440 2,994,001 2,709,169	Gold H Redemp Domini 118,48 98,75 84,56 89,93 120,65 107,25 119,74 109,36 107,41 89,21 59,34 79,00 74,20	DAR YEARS, 1919- eld for tion of I on Notes \$ 9,692 1,773 6,064 9,108 1,627 7,428 4,819 9,550 7,631 8,454 5,233	Fotal Gold Held by Minister of Finance 2 2 2 2 2 2 3,232,395 2 3,232,480 2 3,232,440 2,342,440 2,342,440 2,342,440 2,342,440 2,342,440 2,342,440,440,440,440,440,440,440,440,4

/ Yearly averages.

1933 .....

1934 ....

(a) In the Savings Bank Act (c.15, R.S.C., 1927) it is provided that the Minister of Finance shall hold 10 per cent gold reserve against postal savings bank deposits.

69,793,861

70,249,952

2,311,866

2,257,367

72,105,727

72,507,319

COMPOSITION OF CANADIAN GOLD RESERVES ON DECEMBER 31, 1923-1934.

December 31st.	British Coin	U.S. Coin	Canadian Coin	Bullion	Total
	\$	\$	\$	÷ 🖗	e.
1923	27,212,790	41,090,395	3,336,490	46,026,852	117,666,58
1974	26,347,019	77,173,105	3,327,125	34,905,387	14 ,747,65
1925	29,894,943	67,135,310	3,315,730	37,512,195	137,858,178
19:6	32,133,941	72,423,610	3,221,930	23,415,643	131,195,124
1927	28,948,085	51,179,390	3,089,010	47,516,079	130,752,564
1928	34,163,297	31,018,970	2,931,835	25,202,771	93, 516, 87
1929	32,164,284	10,995,220	2,801,520	17,034,256	62,995,280
1930	30,634,058	28,748,085	2,733,150	34,096,809	96,212,102
1931	17,736,296	4,270,780	2,732,880	42,220,192	66,960,148
1932	17,638,240	4,271,355	2,704,930	48,429,889	73,044,414
1933	17,637,435	4,266,835	2,704,880	47,356,454	71,965,604
1934	17,637,445	4,266,850	2,704,865	43,291,619	73,900,779

#### CONCENTRATION OF NATION'S GOLD RESERVES

With the opening of the Bank of Canada on March 11, 1935, important changes took place in connection with the monetary gold recerves of the Dominion. The Dominion transferred the gold held against Dominion Notes to the Bank of Canada to an amount of \$69,455,439.44. The Dominion's liability for Dominion Notes outstanding was assumed by the Bank of Canada.

Under section 28 of the Bank of Canada Act the chartered banks were required to transfer to the Bank of Canada all gold coin or bullion owned and held in Canada. The amount transferred to the Bank of Canada was \$37,480,404.46. The gold so transferred was valued at the standard price of \$20.67 per ounce. There was provision made, however, (section 30, Bank of Canada Act) that any profits resulting from the sale by the Bank of Canada of gold coin and bullion transferred to the Bank by the chartered banks or from an increase in the value of such gold resulting from any change in the monetary standard, shall belong to the chartered banks if the Governor in Council is satisfied that the said gold was at the time of transfer being held against liabilities elsewhere than in Canada. The Governor in Council directed that 40% of the gold so held was against foreign liabilities. In addition, in the case of two banks additional concessions were made on account of special deposits of gold that were ear-marked against definite external liabilities.

Thus for the first time all the gold reserves of the country are held by the one institution which will henceforth be responsible for regulating the volume of credit and currency in Canada, and for protecting the external value of the national monetary standard.

## THE ALLUVIAL GOLD MINING INDUSTRY IN CANADA, 1934.

Placer gold was reported in Canada as early as 1823 when the metal was discovered on the Chaudiere river, Quebec. Later, in 1855, alluvial gold was found at the mouth of Pend d'Oreille river, B.C., by the ex-servants of the Hudson's Bay Company and by 1859 placer miners had penetrated to Cariboo and Quesnel. Later years witnessed many important discoveries of placer gold in both British Columbia and the Yukon, the most outstanding of which was the finding of the sensationally rich Klon dike deposits in 1896. At the present time the greater part of the Canadian production of alluvial gold comes from the Yukon Territory and British Columbia; smaller amounts are recovered in Alberta and Quebec.

QUEBEC - Placer gold production in Quebec during 1934 was confined to the counties of Compton and Beauce. In the first mentioned county small shipments of crude alluvial gold were made by the Gold River Mining Co. Ltd., from its workings in Ditton township, the property of this company was reported at the close of the year as temporarily shut down. In the Seigniory Rigaud Vaudreuil, Beauce county, the Unit Company Ltd., was in operation from July 21 to November 1st. both underground and surface operations were conducted and a small recovery of gold reported. At St. Simon les Mines, Gilbert river, placer gold shipments were also made by Cooke and Lloyd.

<u>ALBERTA</u> - Placer gold was discovered on the North Saskatchewan river in 1859 or 1960 and mining has been caried on, chiefly by hand methods and partly by the use of dredges, at intervals down to the present time. In 1934 the greater part of Alberta's gold production originated in the dredging operations of the McLeod River Mining Corp. Ltd. This company operated from May 1st to September 10th, 155,000 cubic yards of slough bed material being handled by the single dredge. During the year the company conducted extensive exploration of river leases and it was stated that much greater values per cubic yard, than on the beach lands were indicated with coarser gold in evidence.

BRITISH COLUMBIA - The British Columbia Department of Mines reports that while placer output in 1934 was approximately the same as in 1933 it is worthy to note that two larger-scale operations in the Cariboo are under way and an increase may be reasonably expected in 1935. In the Northwestern mineral survey district placer prospecting was very active but no new discoveries in new areas were made; numerous individuals, syndicates and companies were engaged and in this regard the British Columbia Department of Mines stresses that placer prospecting in this district is no easy task and requires not only experience but a grub stake and funds to see the prospector through the season in the event of failure.

A marked general increase in placer-mining activity featured the year in the Northeastern survey district. Much additional plant was installed during the year by various operators, including several drag-lines, and two small dredges of new type. Operating control of two well-known mines was secured by different English interests, the property of Consolidated Gold Alluvials of British Columbia, Ltd. (Wingdam) on the one hand, and that of Bullion Placers Ltd. (Bullion) on the other. In the Omineca Mining D'rision activity continued in the Manson section; in the McLeod river area operation, were carried on by the Northern Reef Gold Mines Ltd., on McDougall river. Operations were also conducted in the Two Brothers Lake area this being the most northe by operation in the district and is served by aeroplanes based on Takla lake. A considerable recovery of placer gold was made by the many individual bar-workers on the Frager and other rivers. <u>YUKON</u> - According to a report issued by the Comptroller of the Yukon Territory the amount of placer gold mined during the year ending March 31, 1935, in the Territory on which royalty export tax was paid was 48,887,45 ounces, produced as follows.- Dawson District, 47,464,90 ounces; Mayo District, 752,17 ounces; Whitehorse District. 670,38 ounces. The royalty collected was \$18,332,85. During the year six hundred and sixty-two new placer location grants were issued; ninety-seve relation grants and 2,094 renewal grants were also issued. Two new dredging leases were issued covering twenty miles; four dredging leases were renewed covering twenty-three miles; and six hydraulic leases were renewed. This reflects the greater interest in placer mining and indicates the increase in the area of alluvial deposits now being held for development.

The Yukon Consolidated Gold Corp. Ltd., operated three electric sixteen cubic foot dredges throughout the season on hydraulic lease No. 18, on the Klondike river, one seven and one-half cubic foot dredge on Upper Dominion creek and one seven and one-half cubic foot dredge at Granville. No hydraulic operatings were conducted by the company. Data pertaining to 1934 dredging operations are as follows:

Dredge	Location	Started digging	Shut down	Cu. yds. handled
Canadian No, 2	Klondike River	May 8th	Nov., 28	2,061,735
Canadian No. 3	Klondike River	May 22nd	Oct. 31	1,115,189
Canadian No. 4	Klondike River	May 3rd	Nov. 13	1,879,892
No Wa Nos 1 assessesses	Upper Dominion	May 16th	Oct. 21	299,138
N, W. No. 2	Granville	May 11th	Oct. 28	669,231

The ground ahead of Canadian No. 3 was frozen and was thawed by water points. Thawing plants were also operated ahead of Northwest dredges No. s 1 and 2.

Reconstruction of one five cubic foot dredge and one seven and one-half cubic foot dredge was started in 1934 and will be completed in 1935,

The Holbrook Dredging Company continued operations on Sixtymile river with a steam driven dredge commencing on June 1st and continuing to November 6th, 1934.

Material handled amounted to 207,216 cubic yards and 4,817.80 ounces of gold dust were recovered, the value being \$156,936.54 for gold and \$396.69 for silver. Two thousand feet of hydraulic pipe was laid to a creek on the right limit of Sixtymile opposite creek claims No. 13 above Discovery, to convey water for cold water thawing and stripping.

At Miller creek, McDonald, McCormick and Stewart moved 1,825 cubic yards of dirt by tunnelling and sinking, 6,444 yards by drifting and 45,200 yards by hydraulicing the maximum number of men employed in these operations was 13.

On Creek, a tributary of Nisutlin river the Inca Mining Corp. Lon constructed some 20 miles of road, 6,500 feet of flume and 2,000 feet of pipe line, this corporation employing three monitors moved 75,000 cubic yards of gravel before the freeze up in 1934.

More individuals were mining during the year on the old placer creeks in the Territory than for many years past, and all appear to have met with a certain measure of success. No new discoveries of any importance have been made, but the new high price received for gold has made it profitable to work old diggings over again, as well as the lower grade ground hitherto unworked. SUMMARY STATISTICS OF ALLUVIAL GOLD MINING IN CANADA, 1933 and 1934.

		1933			1934	Respector 1
		(a)	Quebec			Quebec
	British	Yukon	and	British	Yukon	and
			Alberta			Alberta
						2002 00
ruber of firms and indi						
dual operators f	65	3	5	85	4	4
in operation-months .	6-10	6-8	6-8	6-10	68	6-8
tal employed \$	3,854,721	6,539,997	6,187	2,074,138	10,117,273	2,124,290
mber of employees	254	189		352		
Sataries and wages paid \$	268,119	431,533	4,499	442,957	571,423	
electricity used. \$		18,101	r		42,139	
lec'ricity generated for		· · · ·				-,
own useK.W.H.	95.002	11,206,000		325,000	11,926,000	100.000
C ude gold recovered -				0.00,000	11,020,000	2.00,000
crude ounce	23.928	48,967	504	25,181	48,379	293
latinum recovered -		,			10,010	1.00
crude ounce	40			53		
Value of platinum re-	20			00		
covered	1,400			2 051		
Quantity of material	19100			2,051		
handledCu.yds.	1 396 791	5 605 500	(0)	9 074 599	C 715 070	155 000
Length of ditches - miles(d)					6,315,070	
Total value of alluvial	04	17.0		124	25	
	100 180	070 470	0 500	180 300		
products (b)	408,176	832,439	8,568	430,128	822,443	7,912

In addition to the number shown in the table, there were several other small operators from whom no returns were obtainable.

(a) Includes data relating to one property in Nova Scotia,

(b) Value of crude gold based on statutory price of the metal (\$20.67) and estimated at \$17.00 per crude ounce.

(c) Information not available.

(d) Includes flume.

#### THE AURIFEROUS QUARTZ MINING INDUSTRY

The great part of the gold of Canada comes from the Canadian Shield, an immense area of precambrian rocks extending from the Labrador Coast westward almost to the mouth of MacKenzie river. The area of the shield 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 increasing proportion. The second great source of gold in Canada has been the Western or Cordilleran section, comprising British Columbia and Yukon territories, the gold production from this section was largely of placer origin until recent year. The third principal area in which gold deposits occur is the Acadian region of Eastern Canada the metal occurring principally in Nova Pootia where it has been minel sine 1862.

The increase of approximately 67 per cent in the price of gold since 1930 1 Latinctly reflected in the almost steady expansion in gold mining during recent years. Timber of auriferous quartz mines in operation in 1934 totalled 416 an increase of 93 1 over 1933 employment in 1934 totalled 17,762 as compared with 12,823 in the providing year and salaries and wages amounted to \$27,156,887 as against \$20,536,012 in 1933. Ore milled in 1934 totalled 7,475,278 tons and the gold content of bullion, ores, etc., shipped amounted to 2,490,513 fine ounces, a comparison of these figures with corresponding data for 1929 is especially interesting in that they show a decline in the gold content of ores milled of from .42 ounces per ton in 1929 to .33 ounces per ton in 1934. This decrease results directly from the milling of lower grade ores made economically permissable by the increase in gold prices. Dividends reported by the auriferous quartz mines as being distributed in 1934 totalled \$27,888,731 as compared with \$20,030,200 in 1933, total dividends paid by these mines to the end of 1934 totalled \$299,064,915.

The Department of Mines, Ottawa, reports that the cost of small milling plants in Canada ranges from #800 to \$2,000per ton of ore treated daily, depending on factors such as location, new or second-hand machinery installed, the size of the unit and the type of plant, the department also stresses the importance of ha ing the ore investigated for treatment methods before building a milling plant. The Dominion Department of Mines maintains ore dressing and metallurgical laboratories for this purpose.

NOVA SCOTIA - The Department of Public Works and Mines for Nova Scotia reports that a great amount of interest was taken in the gold deposits of the province during the fiscal year ended September 30th, 1934, some notable developments were conducted and the output for the next twelve months should show a very material increase. In the province the modern powdered coal plant will no doubt supply a large percentage of the cheap power required for mining in the future. This type of power plant will be situated near the collieries and will be used to augment the power supplied by Hydro-developments. In Guysboro county development or exploration ork was conducted on gold properties in the Cochran Hill, Country Harbour, Forrest Hill, Ecum Secum. Gegogan, Goldenville, Isaac's Harbour, Little Liscombe Lake, Liscombe Mills, Lower Seal Harbour, Sangster Lake, Upper Seal Harbour and Wine Harbour districts. Properties were active in Halifax county in the districts of Beaver Dam, Carib u, Killag, Lake Catcha, Lawrencetown, Montague, Mooseland, Moose River, Oldham, Salmon River and Waverly: work was especially intensive at the Montague mine where extensive nderground mining was conducted, milling commenced at this property in May. In Hants county mining operations were carried on in the Central Rawdon, East Rawdon, Mount Uniacke, South Uniacke and Renfrew districts. Mining operations in Lunenburg county were conducted in the Blockhouse, Gold River and Ovens districts. More prominent among the developments in Queens county were the operations conducted by the United Gold Fields of Nova Scotia Ltd., this company completed extensive underground work and commenced milling in February of 1934, in the same county exploration work was conducted on properties in the districts of Fifteen Mile Brook, Mill Village, Molega, West Caledonia, Westfield and Whiteburn. For more comprehensive information regarding gold mining in this province communicate with the Department of Public Works and Mines, Halifax, Nova Scotia.

<u>NEW BRUNSWICK</u> - The only gold mining activity reported in this province during 1934 was the examination of a prospect on Guagus stream, a branch of the North Branch Little South West Miramichi River, its commercial possibilities were not indicated.

<u>QUEBEC</u> - Gold mining operations were particularly widespreat and varied in N. W. Guebec during 1934. Perticulars relating to some of the more important developments are as follows: "After ore had beer found by Lamaque Gold Mines Ltd., on all levels that had been opened up to a depth of 700 feet, plans were made in August 1934, for a construction and mine development program designed for an initial treatment capacity of 225 tons of ore per day to commence June 1st, 1935. The company reports a technical estimate of "positive ore" reserves at January 1st as follows:-

	Tons	Average grade Pennyweights per ton	Total gold in pennyweights
Blocked oreBlocked oreBroken ore in mine Broken ore on surface	53,263 669 20,563	6.08 12.88 6.48	323,985 8,604 133,111
Totals and average	74,495	6.25	465,700

Canadian Malartic Gold Mines Ltd., reported that the first seven months of the year were devoted to exploration and development for the purpose of extablishing an ore reserve position that would warrant the construction of a mill, subsequent to August lat, underground work was confined to mine preparation. The mill under construction will be an all cyanide unit having a treatment capacity of 125 to 150 tons daily. The crushing section will have a capacity of 400 tons daily. The estimated ore reserves as of December 1st are as follows:

Assured ore Reserves						Value gold at \$34.00 \$8.07 \$6.32
Total	538,000	tons	at	. 205	02.	\$6,97

During 1934 active exploration work was carried on by Beattle Gold Mines Ltd., and it is reported that the property of this company is now at a stage where development work during 1935 should add materially to the already large reserves of ore. It was stated at the end of the year that the metallurgical treatment of the ore still remained the chief problem at the mine. The fineness of the mineral particles and the refractory nature of the ore presents great obstacles to a satisfactory recovery by simple flotation and cyanidation and much work was still necessary before the best method could be evolved. The fundamental question of ore reserves is reported sound, the mill treated 359,200 tons averaging 0.1812 ounces per ton for an operating profit of \$491,425.90 after very liberal expenditures on mine development of \$224,123.88.

In June, 1934, it was reported that Siscoe Gold Mines Ltd., had completed shaft sinking to the 1,350 foot level, with three new levels established. The present program of development it was reported consists in developing, both horizontally and downward, the ore bodies already discovered and in the exploration of new territory. As a result of the development work ore reserves were increased 37 per cent to a total of 283,426 tons having an average value of \$15.56 per ton. The mine and mill were both in continuous operation throughout 1934, the company employing both amalgamation and cyanidation

The Bussieres mine in Louvicourt township was active throughout the year, 5,065 ounces of crude gold were recovered by amalgamation and 277 tons of concentrates shipped to the Noranda smelter. At the McWatters gold mine a 50 ton amalgamation mill was erected and placed in operation in September. Since the beginning of 1935 it was decided to add a cyanide unit to the present mill and on completion of this work tonnage will be stepped up to 100 tons per day. It is reported that from stope developments and mill results, there exists an unbroken reserve of 50,000 tons of \$25 (gold at \$35) ore. In addition there are 6,768 tons on the surface ore dump estimated to average \$15 (gold at \$35). Arntfield Gold Mines Ltd., conducted extensive underground and surface operations during 1934 and it was reported that the new 125 ton mill under construction at the property would be ready to turn over in July, 1935.

The Green Stabell mine located in Dubuisson township was productive throughout the year, 4,099 ounces of crude gold were recovered by amalgamation and 2,298 crude ounces by cyanidation, concentrates were shipped to the Noranda smelter; a progress report issued in April, 1934, estimated two years ore reserves averaging approximately 0 4888 ounces per ton.

In Cadillac township the mine and mill of the O'Brien Gold Mines Ltd., were in continuous operation throughout the year, recoveries were made by amalgamation and concentrates were shipped to the Deloro Smelting and Refining Co., for experimental purposes.

Perron Gold Mines Ltd., located in Pascalis township carried out extensive underground and surface operations and commenced milling operations in July, amalgamation is employed in this mill.

Mining and milling operations commenced in May, 1934, at the Sullivan Mine located in Dubuisson township, the company recovered 2,430.71 ounces of crude gold by amalgamation and 3,470.15 ounces by cyanidation. Milling capacity will be increased to 100 tons per day. The company estimates probable ore reserves at 46,300 tons at 467 ounces per ton; presently possible and possible ore, 22,000 tons, expected to be of average mine grade. In the <sup>C</sup>hibougamau area extensive prospecting and exploratory opera tions were conducted by Consolidated Chibougamau Goldfields Ltd., and other companies.

For more detailed particulars relating to gold mining in Quebec, mining laws, etc., communicate with the Bureau of Mines, Quebec, P. Q.

ONTARIO - The Department of Mines, Ontario, reports that the year 1934 showed marked improvement in gold mining and while the ounces recovered in the province declined the quantity of ore treated increased, moving up from 5,621,000 tons during 1933 to 6,505,000 tons in 1934. The performance indicates the increased milling facilities and also the ability of operators to treat much lower grade ore, thereby increasing the life of the mines and the communities now dependent on this industry. At Porcupine the average value per ton of ore treated at the Canadian price of gold was \$8,56, at Kirkland Lake, \$17,18 per ton, in Matachewan, \$6,13 and in Northwestern Ontario, \$4,82 per ton, While the output from the Northwestern portion of the province was small and mainly produced by one mine, the Howey, it is of interest to record the reopening of many old properties which were producers in the nineties. In addition important new mines includ ing the Little Long Lac have recently come into production. When it is remembered that favourable gold formations are known to exist and that new finds are becoming general over a wide area, the developments in gold mining in this part of the province promise to be of considerable importance during the next few years. In the late summer new finds were reported fro the Sturgeon river area, east of Lake Nipigon. A gold "rush" followed and hundreds of claims were staked and recorded. Very rich veins on the claims of the Sturgeon River Gold Mines have been found both on surface and by diamond drilling. Favourable developments at Little Long Lac mine and also at the Central Patricia and Pickle-Crow mines near the Albany river, with continued interest at Red Lake suggest a general revival of gold mining in the Northwestern part of Ontario. McKenzie Red Lake. the second producer at Red Lake turned over its new 125 ton mill in February, 1935, and expects to be in production in March, The 100 ton cyanide mill of the Matachewan Consolidated Mines Ltd., was brought into production in 1934. As soon as the mine has been opened up sufficiently and ore conditions warrant, it is the plan of the company to increase the daily tonnage to around 300 tons per day, indicated ore reserves are estimated at 1,170 tons per foot of depth, averaging 0.199 ounces gold per ton. The following figures show mill feed and production for the months of November and December.

	Ore	Waste	Ore	Head sample
	delivered	sorted	treated	average grade
November	2,302	260	2,042	0.22 oz.
December	2,712	74	2,638	0.26 oz.

The mill of the Young-Davidson Mine at Matachewan went into operation September 8, 1934, open pit operations were continued throughout the winter, but under many difficulties, and plans are under way for underground mining during this season. The gold content in the ore has been \$1.76 on the \$20.67 basis or \$2.88 on the new price. Ore treated to the end of 1934 amounted to 51,842 tons and operating profits amounted to \$53,605.

The Hollinger Consolidated Gold Mines Ltd., reported that operations at the Hollinger Mine, Timmins, were carried on at all levels from the surface to the 3,950 ft. level; 35.8 per cent of the ore milled came from above the 800 foot level, during the year 877,837 tons of backfill were placed. Ore reserves on December 31,1934, consisted of 7,061,926 tons of a total value of \$51,440,260, having an average value of \$7.28 per ton; at the end of 1933 the reserves were 6,487,559 tons of a total value of \$48,430,451, havng an average value of \$7.47 per ton. Total cost per ton of ore milled in 1934 was \$5.9281. In the calculations dealing with ore reserves, the statutory price of gold, \$20.67 per ounce, was used and the same minimum ore grade as used in former years con-+ nued; the net profits of the company for 1934 from all sources was \$6,505,363.

Dome Mines Ltd., hoisted 587,200 tons of ore, of this 547,600 tons were milled and 39,600 tons waste, 16,200 tons of waste were dumped into old stopes. The 547,600 tons of ore milled yielded bullion containing 203,896.878 ounces of gold, the yield per ton being 0.3723 ounces. The ore reserves are estimated at 2,000,000 tons. Ore in the sediments is estimated at 212,000 tons and the ore in the greenstones and contact is estimated at 1,788,000 tons. Ore from stopes wholly in the sediments yielded in 1934, 95,171 tons, averaging 7.45 dwt. per ton. Ore from stopes wholly in the greenstones and partially in the greenstones yielded 402,829 tons averaging 7.88 dwt. per ton. Operating costs for the year were \$3.877 per ton milled. The net operating profit, before depreciation and income taxes, for the year was \$4,549,617.

In its report for the fiscal year ended March 31,1935, McIntyre Porcupine Mines Ltd., states "that in accord with the policy projected previously, development work and stoping operations were further extended into what was previously considered marginal ground. While this had the effect of decreasing the grade of ore treated, we increased the mill capacity to an extent sufficient to compensate, and the gross value of our production closely approximates the total of a year ago". Data pertaining to operations of the company during the past year are as follows:

Ore treated Value per ton (.294 oz. at \$34.67) Gold recovered, per ton281 oz.	
Operating costs Exploration Development Breaking and stoping	\$ 0.5122
Total mining Milling Administration and general GRAND TOTAL	\$ 0,7187 \$ 0,1193

	Tons	Fine oz. gold
Estimated Broken Total	3,219,460 211,021 3,430,481	1,046,226 <u>57,600</u> <u>1,103,826</u>
Average per ton		.3217

In the Kirkland Lake camp, Lake Shore Mines Ltd., reports that for the fiscal year ending June 30, 1934, receipts from bullion amounted to \$14,382,274 from 836,991 tons of ore milled, giving a value per ton of \$19.57. The pod ction in ounces amounted to 485,384 gold and 99,041 silver. Dividends and bon ses for the period totalled \$6,000,000. Ore hoisted from development totalled 29,571 tons and from mining, 809,878 tons. The company states that the very considerable tonnage of lower grade material made available for mining to a large extent by the in rease in the world price received for gold, has removed, for the immediate future, the nocessity of intensive explorations in lower horizons of the mine. All of the ore mind as extracted by cut and fill methods or over stulls in narrow sections of No. 1 · in. Back fill to the extent of 407,835 tons was placed during the period. The to 1 cost par ton of ore mined and milled was \$7.168. Broken ore reserves stood at 230,8.8 tons with a value of .81 ounces per ton, reserves of ore in plade, available fo immediate mining were fully maintained.

During the fiscal year ending August 31, 1934, the Teck-Hughes Gold Mines, Ltd., treated 474,700 tons of ore, the recovery of bullion and precipitate was the equivalent of 181,453 Troy ounces of fine gold which realized \$5,877,974. After the addition of other income the gross revenue was \$5,983,525 or \$12.60 per ton of ore milled. After making provision of \$224,016 for taxes and adding \$19,104, a profit derived from the sales of bonds, the surplus was \$3,048,602. The estimate of gold in "positive ore" decreased from 375,495 ounces at August 31, 1933, to 323,088 ounces at August 31, 1934. Mine workings within the ore zone were deepened from 5,074 feet to 5,735 feet. The company states that while decreasing earnings from gold production may be expected, present indications are that the Teck-Hughes mine can be profitably operated for several years to come. The following is an analysis of operating costs:

	Cost per ton of ore treated	Cost per ounce of gold produced
Development and exploration	0.93	2 44
Mining	2,79	7.29
Milling	0,96	2 52
General expense	0.49	1 27
Examination of new properties	0.05	0.13
Depreciation	0,53	1.39
TOTAL	\$5,75	\$15.04

Miscellaneous operating data supplied by Howey Gold Mines, Ltd. are as follows for 1934:-

Tonnage milled and sorted	481,757
Tonnage milled assesses as a second of a s	030,103
(x) Value a ton hoisted agaa a a a a a a a a a a a a a a a a a	2 2.21
(x) Value a ton material discarded	0.21
(x)Value a ton ore milled (x)Loss in tailings a ton milled	2.64
(x)Loss in tailings a ton milled	0.214
(x)Loss a ton of ore hoisted (in milling or sorting) Net percentage recovery a ton of ore hoisted	0.213
	90.3
(x) Gold at \$20.67 per cunce	

#### -31-Ore radervad were reported as follows:-

Analysis of Howey costs is as follows:

	Cost per ton
	\$
Mining operation	1.032
Outside exploration	0.005
Crushing and conveying	0.093
Ore sorting	0.049
Milling	0.452
General expense	0,133
Total plant cost	1.764
Total costs including depreciation, etc.	2.396

Broken ore reserves in the Howey mine as of December 31, 1934 amounted to 301,990 tons and unbroken reserves totalled 1,853,097 tons. The value of broken and unbroken reserves is estimated to be approximately \$3.50 per ton based on the current price of gold.

The three-compartment vertical shaft at the Little Long Lac Mine reached its objective of 719 feet during August. The following is a concise summary of the results on the second, third and fourth and fifth levels as at December 30, 1934.

Level	Ore length feet	Average width feet	Average grade
Second	364	5,85	0,688
Third	760	4.80	0,735
Fourth	754	5.04	0,678
Fifth	245	5,27	0.840

Milling commenced at the mine in November, 1934. The same year also witnessed the bringing into operation of new mills at the Central Patricia and St. Anthony mines.

For more complete information relating to gold mining in Ontario, Ontario mining laws, etc., communicate with the Ontario Department of Mines Toronto, Ontario.

<u>MANITOBA</u> - Mining activities were almost general throughout the gold bearing areas of Manitoba in 1934. Idle properties in the older camps were investigated as to their economic possiblities under the current price for gold and development and exploration programmes were itensified in the newer areas.

The mine and mill of the Central Manitoba Mines Ltd., were operated continuously in 1934, the mill recovered 10,033.66 ounces of crude gold by amalgamation and 15,050.50 crude ounces by cyanidation from 43,862 tons of ore; considerable diamond drilling was conducted on the property. Ore reserves were estimated in June, 1934, at 17,836 tons averaging .324 oz. gold to the ton.

San Antonio Gold Mines Ltd., operated throughout the year, 66,457 tons of ore were raised and 21,638 fine ounces of gold recovered by amalgamation and cyanidation from 64,294 tons of ore milled. It was announced at the close of the year that the joint operation of the company and Fourty-Four mines in which a drive is being made from the company's 600 foot level into Fourty-Four ground was progressing favourably, this intersected three veins which otherwise might not have been touched for years. Ore reserves were estimated at December 31,1933 to be 154,000 tons averaging .425 oz. per ton. At the close of 1932 costs were estimated at \$7.21 a ton milled. Mining and milling were recommenced in June by Diana Gold Mines, Ltd., 6,663 tons of ore were hoisted and 1,980 ounces of pure gold recovered by amalgamation from 5,284 tons of ore milled. Extensive surface and underground work was conducted throughout the year by God's Lake Gold Mines Ltd., and it was announced that an initial mill unit to handle 150 tons daily is being planned, the mill is expected to be in operation in the fall of 1935.

According to the second annual report of the company, indicated ore reserve as at the end of 1934 is as follows:

	Tonnage	Ounces grade	Value at \$34 per oz.
Total	63,400	.52	\$17.68
20% dilution in mining	-76,000	。43	\$14.62

Salvage work on the small high-grade lenses of gold ore was carried on during the year by Island Lake Mines Ltd., together with further underground development work and diamond drilling. Mining operations were continuous and milling commenced in April; 6,984 tons of ore were milled for a recovery, by amalgamation, of 2,931 ounces of fine gold and in addition ore shipments were made to the Flin Flon smelter. It was announced in 1935 that the main vein had been intersected beyond the fault, the first hole showed three feet averaging 3.0 oz. gold and the second hole cut 5,7 feet averaging 1,05 oz. gold.

Other important gold mining developments in 1934 included those of Gunnar Gold Mines Ltd., in the Beresford Lake section; Laguna Gold Mines Ltd., at Herb Lake; Smelter Gold Mines Ltd., God's Lake; Vanson Manitoba Gold Mines Ltd., Rice Lake district; Wingold Mines Ltd., Bisset; Oro Grande Development Co. Ltd., Beresford Lake and Gabrielle Mines Ltd., at Bisset. For further information pertaining to gold mining in Manitoba communicate with the Department of Mines and Natural Resources for Manitoba, Winnipeg, Manitoba.

SASKATCHEWAN - Gold mining activities in this province were reported from Amisk, Douglas and Wekach Lakes sections in the eastern part of Saskatchewan while encouraging results were stated to have been obtained from prospecting and exploration work in the Lake Athabaska district, no production in 1934 was reported from properties in these areas. For further information apply to the Department of Natural Resources, Regina, Saskatchewan.

BRITISH COLUMBIA - The British Columbia Department of Mines reports that in the northwestern mineral survey district prospecting was carried on at the La Porte group near Port Essington and the Mastodon group at Hastings Arm, in both of which values in gold are present. In the Liard area a lode discovery on Quartz Greek, tributary to McDames Creek, was reported late in the season and resulted in a small stampede. In the Alice Arm area gold showings were prospected on the Homestake and Gold Reef groups. Though this area has been comparatively inactive the gold aspects of the west side of the Upper Kitsault valley area are attracting the attention of examining engineers. In the Skeena division construction and renovation work has been carried out at the old Surf Inlet mine and in the Portland Canal area a crew of about 60 men have been employed on the Big Missouri and work was done on the Unicorn, Troy, Salmon Gold, and Portland groups Development of the Atlin Pacific Mining Company's property (Norgold) continued throughout the season and it is anticipated that the old Engineer mine will be opened up in 1935. Production from lode operations in the district came chiefly from the Premier and Dunwell mines, Stewart, Granby Consolidated and Surf Point mine. During 1954 the Premier Gold

- 33 -

Mining Co. Ltd., mined and milled 154,693 tons with an average assay content of 0.25 ounces of gold and 4.3 ounces silver per ton. The estimated ore reserves as of December 31, 1934 were as follows:- ore broken in stopes, 50,113 tons, veraging 0.20 cunces of gold and 6.4 ounces of silver; assured and probable unbroken ore down to the 6th level of the pre sent mine workings amounts to 130,687 tons, averaging 0.26 cunces of gold and 5.0 ounces of silver; exploration and development by the company during 1934 represented 10,203 feet of diamond drilling at a cost of \$1.39 per foot and 10,992 feet of drifting, crosscutting and raising at a cost of \$11.43 per foot.

In the Northeastern Mineral Survey District prospecting and development of lode gold properties were carried out at Hudson Bay Mountain, near Smithers, Dome Mountain near Telkwa, near Babine lake and in the northern part of the district. Two encouraging discoveries were made during the year. that of the Parmore group near Doreen in the Skeena section and that of the Timber line group near McKee lake, in the Horsefly section. In the Cariboo section, it may be said of lode gold operations generally that although some have been discontinued, a comparison between the present position and that of two years ago showed clearly that real prograss has been made. The discovery of the markedly auriferous pyrate replacement deposit in limestone at the property of Island Mountain Mines Co. Ltd., last year and development thare this year has aroused much interest at this property and as that of the Cariboo sold Quartz Mining Co. Ltd., at which mineralization of similar type, although less extensive, has been found.

The greatest activity in numbers 3 and 4, Mineral Survey Districts took place in the Hedley, Osoyoos and Greenwood areas where known deposits of gold occur and where practically all the facilities for mining are at hand. Many old mines have been reconditioned and extended exploration has produced more ore. The Hedley mine has been rejuvenated by the Kelowna Exploration Co. and more ore discovered.

In the Kamloops mining invision recer discoveries on the Sweet Home claim belonging to the Windpass mining company are most attractive and appear to suggest extensive exploration of the region near thu-Chua. Taking the district as a whole, developments have been favourable and the British Columbia Department of Mines state that several mines should come into roduction in the future.

Gold mining in No. 5 the Eastern district has contributed in an important degree to the important in the listric employment situation. Production of gold for 1934 was better than any year since large scale production by the Consolidated Company ceased at Rossland. The gold mining industry of the district is now showing evidence of permanence with ncrea ed production when mi ling operations such as at the Yankee Girl (Ymir-Yankee Girl Gold Mines Ltas), Kootenay eale Gold Mines Ltd., and Queen (Sheep Creek Gold Mines Ltd.) ge, under av. Shipments were suspended from the first two mentioned properties and the oodenough (Ymir Consolidated Gold Mines Ltd.) pending consummation of milling plans. Expansion to say 60 or 70 tons a day may occur at the Second Relief Mill (Relief-Arlington Mines Ltd.). though this is dependent upon the results of exploration under way by the remor Go Mining Co. td. a substantially larger annual production from the Reno Gold Mines Ltc., now no longer nandicapped by power shortage, is assured. Increased output can also be expected from some of the properties entering the production stage such as the Gold Belt Mining Co., and Ymir-Dundee. Lode Gold development and exploration were conducted or numerous prospects in the Nelson Mining Division nd at points in the For St ele Lis . Long dorman properties in the area south of Nelson are being investigated and exploration resumed at former producers such as the Porto Rico and Fern.

In the Lardeau division mill construction was announced by the Meridian Mining Co. A satisfactory feature in the district is the provision of adequate and de endable power in the Nelso-Ymir-Salmo-Erie area through the newly constructed transmi sion lines of the West Kootenay Power and Light Co. Gold Mining activities in No. 6, the western mineral survey district, were widespread, at the Vidette mine a 35 ton milling plant was operating on an ore stated to average about 0.75 ounces of gold to the ton; gold production also came from the Grange Property hear Clinton where a 25 ton mill, more recently stepped up to 30 tons, was in operation for some months. A small production also came from the Taylor-Windfall mill (3 ton) in the Taseke Lake country. The Wayside property was equipped with a 35-50 ton milling plant of the amalgamation type and the Minto Gold Mines recently completed the installation of a 50 ton mill. In the Shoal Bay-Phillips Arm section the Hercules Consolidated Mining, Smelting and Power Corp., and the Shoal Bay Syndicate were active. In the main Bridge River camp the Principal Producers Pioneer and Bralorne increased their ore reserves substantially; particularly interesting have been the developments in the lowest level of the Pioneer mine and the present programme of shaft-sinking which is to go to the 3,100 foot level should result in important developments, total ore reserves were reported in 1934 at 432,000 tons averaging .95 os. per ton. In the latter part of May the Pioneer increased its milling rate to 400 tons per day.

In the Bralorne mine interesting and very promising sections have been opened up on the 6th, 7th, 8th, 9th and 11th levels. The new milling plant at the property was placed in operation and tonnage was gradually being raised to a production rate of approximately 400 tons per day. In 1935 it was stated that the west drift on the 11th level was in an excellent grade of ore, fully as good as that pened up on the 8th and 10th levels, and it was decided to deepen the main shaft another 200 feet and open up the 12th level. Indicated ore reserves as at December 31, 1933, were reported at 230,000 tons, averaging around .60 oz. of gold per ton. The company ratified an agreement whereby 26 claims being the southerly and eastern portion of the company's roperties would be acquired by a new company to be known as Bradian Mines Ltd. In December, 1934, it was announced that operations of this company were proceeding sati-factorily with both shafts completed to their objectives.

In the Bridge River camp, outside of the two producing mines and a few other properties, it may well be considered that most of the work being done is primarily of a prospecting nature. For more complete information relating to the gold mining industry in this province communicate with the British C lumbia Depar ment of Mines, Victoria, British Columbia.

<u>YUKON TERRITORIES</u> - The Lands, Northwest Territorics and Yukon Branch of the Department of the Interior, Ottawa report that one hundred and ninety-one quartz grants were issued in the Dawson District during the fiscal year. Many claims were staked for which grants are pending. The staking was done principally in the Carmacks area. At the close of the fiscal year in that area there were two hundred and seventyeight mineral claims in good standing.

The N. A. Timmins Corp. have taken options on four groups comprising about thirty-five claims in the Carmacks area. About thirty-five mile. of winter sled road was grubbed out connecting Mt. Free gold with the overland trail, and about seventy-five tone of equipment and supplies were hauled into the new camp by tractors. A Diesel engine and compressor were installed and work was started on the "La Forma' group. To date about 800 feet of tunnel have been driven and unofficial reports indicate the results are satisfactory. Prospecting by individual claim owners and several syndicates now working should prove the value of this district in the near future. For more complete information relating to mining in the Yukon Territory apply to the Lands, No hwest Territories and Yukon Branch, Department of the Interior, Ottawa.

THE	AURIFEROUS	QUARTZ	MINING	INDUSTRY
the second se	and the second s	and the other designation of the local division of the local divis	and the second s	the second is not in the second se

	1925 and alternate years to 1955-1954.							
	, No. of active oper- ators	No. of oper- ating plants or mines	Capital employed	Number of employ- ees	Salaries and Wages	Cost of fuel and electri- city	Net value of bullion, ore, concentrates or residues shipped from mines	
	1		\$		\$	\$	Ş	
1.925	65	65	77,574,976	5,524	8,961,434	1,497,197	25,021,837	
1925	52	52	84,964,062	7,052	11,931,948	1,836,050	35,035,361	
1927	72	76	118,381,468	8,022	12,935,719	2,222,085	37,452,995	
1929	80	85	135,166,105	8,660	14,258,733	2,579,481	37,275,986	
1931	68	69	109,933,164	9,636	16,467,165	2,700,326	49,144,578	
1933	214	216	158, 599, 931	12,823	20,536,012	3,330,137	69,151,535	
1934	408	416	214,068,359	17,762	27,156,887	4,249,296	83,761,440	

Principal Statistics of the Auriferous Quartz Mining Industry in Canada, 1923 and alternate years to 1933-1934.

- 36 -

Ores Mined and Milled, Crude Bullion Recovered and Crude Bullion and Concentrates Shipped in the Auriferous Quartz Mining Industry, 1933 and 1934.

Ton = 2,000 lb .

	Nova Scotia Saskatchewan			British		
	and		Ontario			
	Manitoba	Quebec	Untario	COLUMDIS	a vanaua	
Number of Producing Mines			28	40	87	
Ore MinedTons		360,041		4].8,814	6,528,854	
Ore Milled Tons		344,747	5,612,199	383,111	6,446,776	
Tailings retreated			000			
Concentrates Produced	7	11,428	1	18,812	30,248	
Bullion recovered by amal-						
gamationCrude ounces.	12,203	80,238	186,365	36,689	315,495	
Bullion recovered by cyani-	•					
dationCrude ounces.	37,942	5,564	2,523,309	128,124	2,694,939	
Bullion shipped Crude ounces.		86,468	2,711,059	164,813	3,012,878	
Content of bullion shipped -						
Gold	37,305	76.919	2,116,142	122.293	2.352.659	
Silver	6,070		404,744			
Value		0	43,897,662			
Exchange Premium		· ·	15,503,709	· ·		
Net value of ores, slags and	,,	000,010		_y		
residues sold	1,075	554.480	165,088	2.169.890	2.890.533	
			and and a second s			
Total Value of , all Shipments	1,067,028	2,802,049	59,566,459	291199888	69,101,000	-
1934						
Number of Producing Mines	15	10	42	81	148	
Ore Mined Tons	152,945	653,035		589,131	7,846,854	
Ore Milled Tons	135,111	621,984		427,347		
	Tablitt				27,235	
Tailings retreated Tons Concentrates Produced Tons	474	24 805	9,092 304	22 875	48,548	
Bullion recovered by amal-	717	~ + 9 0 <b>3</b> 0	2012	229010	20,040	
gamationCrude ounces	21,519	95.778	191,317	51,171	359,785	
Bullion recovered by cyani-	Non y Card	00,110	200 902 1			
dationCrude ounces	34,086	19,645	2,609,813	143,089	2,806,633	
Are here an e e o e o a o a a a a a a a a a a a a a				4		

-37--

Ores Mined and Milled, Crude Bullion Recovered and Crude Bullion and Concentrates Shipped in the Auriferous Quartz Mining Industry, 1933 and 1934 (concluded)

	Nova Scoti Saskatchew and Manitoba	Quebec	Ontario	British Columbia	Canada
19 3 4 (concluded)					
Bullion shipped Crude ounces	65,815	115,423	2,784,296	211,592	3,177,126
Content of bullion shipped -					
Gold Fine ounces	42,349	98,166	2,039,445	151,862	2,331,822
Silver Fine ounces	6,489	8,061	418,115	31,081	463,746
Value	876,064	2,032,084	42,362,320	3,153,879	48,424,347
Exchange premium	580,992	1,283,535	26,497,278	2,084,059	30,445,864
Net value of ores, slags and					
residues sold	17,180	1,307,820	140,585	3,425,644	4,891,229
Total Value of all Shipments \$	1,474,236	4,623,439	69,000,183	8,663,582	83,761,440

Gold Content of Bullion, Ores, Concentrates, Etc., Shipped and Ore Milled by Auriferous Quartz Mines In Canada, with Average Price of Gold in Canadian Funds, 1929-1934.

Year	Tonnage Milled	Gold Content fine oz.	Oz, of fine gold per ton	Average price of Gold
1929	4,252,994	1,771,526	.42	\$ 20,67
1930	4,306,869	1,884,791	.44	\$ 20,-67
1931	5,450,576	2,271,278	.42	\$ 21,55
1932	5,924,359	2,502,327	.42	\$ 23,47
1933	6,446,776	2,455,365	. 38	\$ 28,60
1934	7,475,278	2,490,513	.33	\$ 34.50

Purchases of Mining and Milling Equipment and General Supplies in 1934 by the Alluvial and Auriferous Quartz Mines of Canada.

(PRELIMINARY)

	Value f.o.b. plant
	\$
elting of all kinds, including elevator, conveyor, transmission,	
etc., and fasteners for same accompany a	83,759
olts, nuts, rivets, studs, washers, coach, set and machine screws, etc.	85,718
astings - unfinished iron and steel	102,818
nfinished brass castings; brass and copper rods and sheets, babbitt and	
non-ferrous metals of all kinds	29,854
ars and locomotives and mechanical parts for same	189,735
rack materials: - rails and fittings, switches, spikes, bolts, etc	198,539
xplosives: powder, fuse and detonators	2,741,587
ock drills and parts	600,758
rill and tool steels	373,48%
ipe and fittings, plumbing supplies and valves	655,415
ron and steel bars, sheets, plates, and all structural steel	491,928
ire rope and fittings	170,840
iamonds and bort for drilling	126,516
afety equipment and apparel - safety hats, boots, gloves, goggles,	
respirators, etc.; miners' lamps and accessories and lamp rentals	91,128
uel:- coal, coke, charcoal and wood	481,813

-38-

Purchases of Mining and Milling Equipment and General Supplies in 1934 by the Alluvial and Auriferous Quartz Mines of Canada (concluded)

.

.

.

.

and Auriferous Quartz Mines of Canada (concluded)	
(PRELIMINARY)	Value f.o.b. plant
	A A A A A A A A A A A A A A A A A A A
	420 404
Fuel oil, kerosene and gasoline	418,464
Lubricants: - oil, grease and waste	187,442
Lumber and timber of all kinds	1,500,496
Building materials: - cement, brick, tile, roofing and building paper,	
insulating material, building hardware, glass, putty, paints,	
varnishes and brushes, wood screws, nails, screw hooks and eyes,	
sand, lime, and miscellaneous	565,801
Electrical equipment and supplies :- motors, batteries, wire and	
cable, etc	947,924
Crushing, grinding and screening machinery and parts; ball and tube	
mill liners, roll shells, etc	628,978
Filter cloth, rotor covers and ore dressing blankets	75,211
Balls and rods for grinding	711,813
Machinery, mill, n.o.p., and parts	996,833
Machinery, mine, n.o.p. and parts :- steel shop equipment, hoists,	
mine pumps, etc.	872,119
Machinery, smelter, n.o.p. and parts	000
Machinery, miscellaneous, and parts: machine, blacksmith, carpenter	
shop and general surface equipment	419,122
Motor cars, trucks and accessories	121,596
Tools: - brooms, picks, shovels, hammers, handles, saws, wrenches,	
machinists' tools, etc.	176,621
Welding and cutting equipment and accessories oxygen, acetylene	
welding, rods, tips, etc	80,484
Rubber goods, suits, boots, hose and accessories, pump valves, launder	
linings, etc. (not including belts)	129,393
Flotation reagents	125,633
Cyanide and cyanide plant chemicals	769,143
Acids and chemicals, n.o.p	132,336
Refractories:- brick, cement, fireclay, etc	25,614
Smelter fluxes: - fluorspar, limestone, quartz, sand, etc	31,826
Hospital equipment and medical supplies	24,193
Stationery, office 'equipment and supplies, survey and drafting	
equipment and supplies	149,185
Miscellaneous materials, n.o.p. Includes all materials NOT OTHERWISE	
PROVIDED FOR in any other item	997,094
Power - electric	2,866,940
Freight (a) incoming - only amounts paid direct to Railway Company	1,274,966
(b) outgoing	105,645
Express (a) incoming - only amounts paid direct to Express Company	29,957
(b) outgoing	72,108
Insurance (a) Fire	287,370
(b) Sickness and accident	38,034
(c) Group	118,596
(d) Workmen's compensation	731,072
(e) Bullion	50,855
(f) Other	27,280
(T) OMTET \$5000000000000000000000000000000000000	219200
TOTAL	22.114.039
	and farming of the

#### THE COPPER-COLD-SILVER MINING INDUSTRY

The mining of copper-gold-silver ores in 1934 was confined to the provinces of Quebec, Manitoba, Saskatchewan and British Columbia. It is to be noted, however, that a considerable quantity of gold is recovered from copper-nickel ores mined in the Sudbury area of Ontario; statistics relating to this industry are contained in the bulletin "Nickel-Copper Mining and Smelting." A summarized review of the copper-gold mining industry in Canada, by provinces, follows:-

<u>QUEBEC</u> - At Eustis in the Eastern Townships, the Consolidated Copper and Sulphur Company operated its mine and mill throughout the entire year; 71,709 tons of ore were raised and 9,701 tons of copper concentrates and 46,626 tons of iron-pyrites concentrates produced. Concentrates of this company are exported to the United States.

In Boischatel township, Aldermac Mines Ltd., conducted mining operations at its property at Arntfield from March 1 to November 11. Considerable work was carried out underground and the mill was in operation from May 1st to November 11th; 33,604 tons of ore were raised and milled and 1,624 tons of copper concentrates and 7,312 tons of iron pyrite concentrates produced. The copper concentrates were shipped to both Canadian and United States smelters and the iron pyrites to a chemical plant.

At Rouyn, exploration at the Horne Mine by Noranda Mines, Ltd., was largely confined to the work of further outlining and developing the "lower H" ore body below the 2,475 foot level, and to the investigation on a number of levels of the area immediately west of No. 4 shaft, to determine the suitability for a location of a proposed new shaft.

The tonnages and average grade of ore shipped from the Horne mine to the smelter and concentrator in 1934 were as follows:-

	Gold	Copper	Gold per ton	Silver per ton
		%	OZ.	02.
Direct smelting sulphide ore	471,861	3.20	0.232	0.43
Concentrating sulphide ore	918,288	2.34	0.125	0.32
Silicious fluxing ore	386,872	0.31	0.134	0.13

The above total represents an increase of 15.2 per cent over that for the previous year.

During 1934 the smelter treated 1,050,684 tons of ore, concentrate and refinery slag (1933 -- 1,010,629 tons) and produced 70,607,764 pounds of anodes, the average analysis of which was 99.39% copper, 7.04 oz. gold per ton, and 15.66 oz. silver per ton. During 1934 the concentrator treated 920,363 tons of ore from the <sup>H</sup>orne Mine, the average assay of which was 2.34% copper, 0.125 oz. gold per ton and 0.32 oz. silver per ton, from which 181,938 tons of concentrates were produced and sent to the smelter. In April, 1934, the rated daily capacity of the concentrator was increased from 2,000 to 3,000 tons and following an extensive campaign of research a hundred ton experimental cyanide unit designed to extract additional gold from the pyrite residue of the retreated mill tailing was constructed and placed in operation in June, 1934. The results obtained were so satisfactory that it was decided to construct a separate 500 ton cyanide mill to treat the entire pyrite portion of the tailing and it was expected that this would be completed and ready for operation in April, 1935. From the information obtained in drifting, diamond drilling, inclined raising and other openings in the various ore bodies, there is now indicated above the 2,725 level the following tonnage of ore:-

	Tons	Copper	Gold per ton
		K	OZ.
Sulphide ore over 4% copper	6,826,000	7.25	0.166
Sulphide ore under 4% copper	20,497,000	1.04	0,191
Silicious fluxing ore	982,000	0.15	0.142

The above estimate means that 6,258,000 tons of new sulphide ore were developed or put in sight in 1934. This increase is made possible largely by the fact that the increased price of gold, together with decreased operating costs, permitted the inclusion of material that was formerly too low grade. At the present rate of mining sulphide ore, the resenve tonnage is sufficient to keep the plants operating for 18 years.

Encouraging ore discoveries were reported to have been made in 1934 by Opemiska Copper Mines Ltd. The number of high grade leases of copper-gold-silver ore was increased by four excellent new showings, one of which proved to be the best so far found. Its full limits have not yethbeen disclosed, but so far it is claimed to show close to 17% copper and about \$7.00 in gold and silver across seven feet for a length of 150 feet.

The property of Normetal Mining Corp. Ltd., located in Desmeloizes Tp., was under active development during the year, the shaft being completed to 950 feet and new levels opened up on the 675 and 800 foot horizons. The ore is heavy sulphide in character, the average tenor is 2% copper, 12.5% zinc, 3.9 oz. silver and .04 oz. gold. Development has proven sufficient tonnage to justify the installation of a mill of 500 tons daily capacity and consideration will be given to the installation of such a plant when metal prices justify. Other copper-gold-silver mines active during the year included those of Clericy Cons. Mines Ltd., Bagamac Rouyn Mines Ltd., Astoria Rouyn Mines Ltd., and Robb-Montbray Mines Ltd. The Waite-Amulet Mines were not re-opened in 1934 as the prices of copper and zinc were considered too low to make profitable operation possible.

MANITOBA AND SASKATCHEWAN - Production of copper-gold-silver ores in the provinces of Manitoba and Saskatchewan during 1934 came entirely from the Flin Flon Mine of the Hudson Bay Mining and Smelting Co. Ltd. This property is rather unique in that the interprovincial boundary between the provinces passes through the deposit and production by the company is divided between Manitoba and Saskatchewan according to the location of ore mined. The mine and mill were in continuous operation throughout the year, 1,477,341 tons of ore were raised, 1,463,716 tons milled and 921,388 tons of tailings cyanided. Copper concentrates produced totalled 250,615 tons and zinc concentrates 76,149 tons. Metal content of ore, concentrates, etc., sent to the copper smelter and zinc plant was as follows: gold, 107,509 oz.; silver, 1,593,953 oz.; copper 43,528,759 pounds and zinc 69,331,636 pounds. At the annual meeting in 1933, it was stated that the company had 12 to 13 years of ore ahead, without considering any new development.

The Sherritt-Gordon mine remained inactive in 1934; a report issued by the company in October stated that some sales of copper were made at prices better than those now prevailing and the shut-down expense at the property, although considerable, was being kept at the lowest possible point compatible with the proper care of such a valuable and extensive plant. The actual cost price of copper on hand is reported by the company at 6.2429 cents.

BRITISH COLUMBIA - The system of leasing at the Centre Star and other properties of the Consolidated Mining and Smelting Co. of Can. Ltd., was continued;

some sixty leases being in operation, with the employment of 200 to 225 men; shipments to Tadanac totalled 39,397 tons. In general the leasees were able to make wages, and the operations were of considerable benefit to the community. The Coast Copper property of the Consolidated Mining and Smelting Co. of Can., was not worked in 1934, the plant and equipment were, however, kept in condition by watchmen.

At Britannia Beach in the Vancouver mining division the mine and mill of the Britannia Mining and Smelting Co. Ltd., were operated continuously throughout the entire year, 786,412 tons of ore (wet) were raised and 759,697 tons of dry ore milled. Copper concentrates produced totalled 22,536 tons, zinc concentrates,5,662 tons, iron pyrites, 26,746 tons and copper precipitate 988 tons. The copper concentrates and the greater part of the iron pyrites production of this company went to United States metallurgical plants while the zinc concentrates were consigned to Japan.

In the Nass river mining division the Granby Consolidated Mining, Smelting and Power Co. Ltd., conducted continuous mining operations at the Bonanza and Hidden Creek mines. The mill of the company treating ores from both deposits was in operation throughout the year. Ore shipments from the Bonanza Mine totalled 133,476 tons from which were produced 8,584 tons of copper concentrates; Shipments of ore from the Hidden Creek mine amounted to 1,744,524 tons of which 1,742,324 tons were milled for the production of 112.047 tons of copper concentrates. Concentrates produced from ores of both mines were treated in the Anyox smelter of the company. The British Columbia Department of Mines in its Report on the Mineral Industry of the Province for 1934 refers to the Anyox operations as follows: "During 1934 the continued low copper price has adversely affected the Granby operations at Anyox and the bulk of the blister output has necessarily been stored. A generally lower tenor of ore has been met by a slight increase of tonnage to the mill, which towards the end of the year was treating about 5,200 tons of ore per day. About 1,100 men are employed at Anyox with a pay-roll of \$135,000 per month. In view of the discouraging low copper price and outlook for this metal: at a share holders' meeting held in December the directors were empowered to cease operations at any time in accordance with their discretion". The Allenby property of the company continued inactive in 1934, it has been reported that this deposit has a known life of about ten years with copper higher than 10 cents per pound.

				alternate	years to	1933-1934.		
		No.of	No. of		Number		0	Net value of
		active	operating	Capital	of	Salaries	Cost of	ores and con-
Year		opera-	plants or	employed	employ-	and	fuel and	centrates
		tors	mines		ees	wages	electricity	shipped by mines
				\$		\$	\$	<b>\$</b>
1923	20	14	14	19,108,072	1,790	3,004,292	334,696	4,361,486
1925	0 9	40	41	23,200,580	2,374	3,555,844	413,767	7,758,990
1927	-ce - C4	118	125	24,232,169	4,083	5,260,095	596,137	9,822,881
1929	0.0	144	152	52,546,697	5,243	8,498,755	1,035,133	21,859,907
1931	5 9	53	56	37,127,920	3,351	4,958,317	726,502	15,951,103
1933		28	29	40,228,626	2,841	3,938,778	404,625	7,703,570(a)
1934		21	23	39,892,387	3,169	4,869,801	542,670	8,265,071

PRINCIPAL STATISTICS OF THE COPPER-GOLD-SILVER MINING INDUSTRY IN CANADA, 1923 and

(a) The considerable decrease in the value of 1933 and 1934 shipments as compared with thos for previous years results largely from low copper prices and through companies reporting costs rather than estimates of market prices for metal contents. This practice of reporting costs is confined to some of the larger base metal mining companies which operate both mines and metallurgical plants. Decreases of this nature in the value of mine products are compensated for by increases in the non-ferrous smelting and refining industry and thereby do not affect the grand total representing the net value of Canadian mineral sales.

SHIPMENTS FROM COPPER-GOLD-SILVER MINES OF CANADA, 1933 and 1934.

SHIPMENTS FROM COPPEN				al metal co	ontent as def		i by	
	Quantity		Gold		ttlement assa Copper		r Zinc	
	Tons				Pounds		the second s	
1933								
9 mines shipped to Canadian plants -					3.8			
Ores Copper concen-	867,733	(a)914,642	223,494	<b>328,91</b> 8	39,561,914	•••	• • •	
trates					107,952,457			
Zinc concentrates . Iron pyrites con-	80,700	200,400		• • •			<b>55,938,</b> 867	
centrates 4 mines shipped to						• • •		
Foreign plants -								
Ore		1 104 146						
Copper concentrates Zinc concentrates .		1,104,146		-	14,654,498			
Iron pyrites con-								
centrates								
TOTAL1	,540,013	7,703,570	408,381	2,014,274	162,168,869	28,178	65,313,542	
1934 8 mines shipped to								
Canadian plants -								
Ores ¢Copper conecn-					33,173,070		•••	
trates					120,185,486			
Zinc concentrates Iron pyrites con-	76,149	451,563	5,417	144,559	1,324,297		69,331,636	
centrates	1,199	3,769		* * *		593		
3 mines shipped to Foreign plants -								
Ores Copper concen-								
trates	31.866	1.039.511	11.261	79.358	15,348,073			
Zinc conecntrates .		72,493						
Iron pyrites con- centrates	35,957	99.201	2,889		84,697	4,908		
TOTAL1	9010,04c	0,200,011	511,000	2,424,540	170,113,063	5,501	14,105,000	

/ Includes some cyanide precipitate.

(a) See foot note under preceding table.

# (SUMMARY)

Some notes, of an abridged nature, relating to gold mining in countries other than Canada are appended. It is hoped that these may prove of some interest or importance for comparative purposes.

#### UNION OF SOUTH AFRICA

Excerpts from the address of the President of the Transvaal Chamber of Mines, March 29, 1935.

Analysis of income and expenditure of producing mines; Witwatersrand and Heidelberg, 1932 - 1934:

	<u>1932</u>	<u>1934</u>	Increase(/) or Decrease(-) over 1932 per cent	
				per cont
Tonnage milled	34,906,450	39,722,850	4,816,400(/)	13.8(/)
Gold won - fine oz Yield per ton milled (dwts.)	11,378,064 6,481	10,304,923 5,147	1,073,141(-) 1,334(-)	<b>9.4(</b> -) 20.6(-)
Value of gold won (£) Working profit (£)	48,985,740 15,306,034	71,111,000 32,400,000 <sup>x</sup>	22,125,260(/) 17,093,966(/)	45.2(4) 111.7(4)
Total working costs (£)	33,526,059	38,593,213	5,067,154(/)	15.1(/)

<sup>^</sup> Preliminary

"The tonnage milled, the currency value of gold won, the working profit and the total working costs were all, in the past year, the highest on record. The advantages that would follow the ability to mine lower-grade ore were frequently emphasized long before South Africa suspended the gold standard, and in the last two years they have materialized to a remarkable degree.

The determining factor in the price of gold in the past year has been the monetary and commercial policy of the United States of America. By first raising its buying price for gold and then fixing it at \$35.00 to the ounce, the United States Treasury established itself as the final buyer of gold -- the price of gold, was therefore set by the value of the American dollar, because the American dollar was always exchangeable for gold at a fixed rate, and the value of the American dollar in terms of other currencies was always tending to appreciate. Now the price of gold which matters for us--and, I might also say, for the greater part of the world--is its price in sterling. This price has increased from 126s 5d per fine ounce at the beginning of 1934 to say 145s per fine ounce at the present time; and this increase is the direct result of the fixing of the dollar price of gold in February, 1934, and the subsequent strength of the dollar in the exchanges. Taxation of the mines remains up on an exceedingly high level, representations for a general reduction having been unsuccessful. It is true that the actual collections of last year were considerably less than budget anticipations. Although the average price of gold for 1934 was £6 18s Od per fine ounce compared with £6 4s 9d for 1933, total profits did not increase correspondingly, owing to the lowering-of-grade policy followed by the mines. In addition, the large appropriations from profits which were devoted to underground capital expenditure were allowed as a deduction for taxation purposes. The object of this allowance was to encourage the re-investment of profits in underground schemes calculated to enlarge the scale of operations and extend the life of the industry.

and this feature of the excess profits taxation was an undoubted incentive in connection with many important capital expenditure programmes undertaken by different mines. It has now been stipulated that the capital expenditure appropriated from profits that will be so allowable shall be restricted to £1,500,000 for the current year, which is probably not more than one-half the sum that would be admissable for deduction in absence of arbitrary limitation. It should, however, be explained that capital allowance, or the allowance for reduction in grade, is not designed to operate at the expense of Government taxation revenue. For taxation purposes, the Government regards the mines as a unit, and, having decided to take 50 per cent of the so-called excess profits of the industry considered as a whole, a formula has been devised to secure that net amount. Any allowances made are not intended to reduce the total taxation, they merely affect its distribution, so that to the extent one mine receives an allowance, another mine, or other mines, have their own texation liability increased correspondingly. Expansion on a large scale, of the gold mining industry, continued during the year. The producing mines substantially increased their tonnage output. Due to a further fall in the grade of ore milled, the total yield of gold showed a reduction. On the other hand, a vast amount of work is in progress that will enlarge the operating capacity of many existing mines and bring a number of new mines into the producing category

#### RUSSIA

According to the "American Bureau of Metal Statistics" the Russian-Siberian gold output in 1934 at 4,200,000 fine ounces represents 49.3 per cent increase over 1933 and established Russia as the world's second greatest producer of this precious metal.

Details relating to the operations of individual mines are not available and the following notes are from official publications used by the United States Chamber of Commerce:

"Eeyond Lake Baikal, on the River Unda, lies the rich Balei gold field, previously known, but developed only since the revolution. A large plant has now risen in the "Taiga" including an amalgamation plant with a Crowe-Merrill apparatus. A large new American plant for treatment of the poorer ores is under construction. Five years ago the population of this district consisted of a few gold prospectors living in sod huts. Now there are 5,000 workers at the plant and a total of 22,000 in the town.

The Aldan gold fields, discovered in 1923 in the midst of the "Taiga" have brought to this district a consistently gaining population; from 300 natives in 1923 the number of inhabitants has risen to about 40,000. The first road in this section, the Amur-Yakut highway, opened it to access from the Lena River and the railroad. In 1925 two old steam dredges were brought in, and gold recovery was started by all possible methods, washing sands, electrical recovery, dredging, and hydraulic mining. Prospectors no longer work alone, but in groups (artels) with special privileges as to food and taxes.

A geological expedition organized by efforts of local authorities at Irkutsk has completed its work, and will soon present its report. The expedition consisted of 470 members, forming 17 parties, which studied the western part of Eastern Siberia. As a result of their work over 150 deposits of gold, copper, iron and manganese ores, etc., were located.

The Mining Journal, London, states that one of the major questions in connection with the world's gold production today is the determination of the real

production of gold by the Soviet States. This uncertainty has been greatly increased by the fact that from the year 1927-1928 up to 1932 production statistics were entirely suspended. There can be no doubt that the Russian gold production has increased largely, but the magnitude of the claims made for it, unsupported by detailed statistics, have caused all these suggestions of percentage increases to be accepted with very great reserve. The great increase in production of the gold industry is due to the discovery of new gold deposits, an increase in the proved metal reserves in the old workings, and the medhanization of mining ..... Alongside of the state enterprises, the private gold prospectors have in recent years played a considerable part in the gold production. In the interest of a rapid increase in the Russian gold output which was evidently required by the great need since 1931 for means of paying foreign obligations, the party leaders and the Soviet Government issued a number of decrees, with the purpose of attracting the people to seek and recover gold in such deposits as it did not seem worth while for the Government itself to work.

# UNITED STATES

Gold production in the United States (including the Philippines and Puerto Rico) in 1934 exceeded in dollars the value of the peak quantity year, namely, 4,887,604 ounces at \$20,6718 per ounce, or \$101,036,000 in 1915. From January 1 to January 15, 1934, the Reconstruction Finance Corporation bought gold, both domestic and foreign, at a daily posted price which remained unchanged at \$34.06 per ounce. On January 15, the R. F. C. ceased dealing in the foreign gold market and the buying of domestic gold was turned over to the Treasury Department. From January 16 to January 31, the Treasury Department through the Federal Reserve Bank bought domestic gold at the unchanging price of \$34,45 an ounce. From February 1 to December 31 the United States Mint bought both domestic and foreign gold at the fixed price of \$35.00 an ounce, under the Gold Reserve Act of 1934, under which the President, on January 31, fixed the weight of the gold dollar at 15-5/21 grains nine-tenths fine and took title for the government of all the supplies of Americanowned monetary gold. Thus was born the 59.06/ cent dollar, arrived at by dividing \$20,6718 (the old statutory price of an ounce of gold) by \$35,00, The average weighted price paid for United States gold in 1934 is calculated at \$34.95, The average weighted price in 1933 was calculated at \$25,56.

The United States Bureau of Mines reports that the high gold price has, in some instances, saved whole communities from extinction, and in other instances, and for the same reason, revived dead or nearly dead gold districts. That is, the high gold price has lifted certain gold ores out of the sub-marginal (below profit) class into a small but certain profitmelass.

While the practical effect of the Gold Reserve Act of 1934 served to augment the nation's gold and silver reserves, other factors reduced the availability of gold from the complex ores; for example, within the thirteen western states and Alaska, 62,140,835 tons of copper ore in 1929 yielded 434,986 ounces of gold and 18,020,842 ounces of silver, as compared with 8,363,586 tons yielding 108,727 ounces of gold and 5,354,510 ounces of silver in 1933. The adoption of the N.R.A. code which went into effect on April 26, 1934, and resulted in fixing the copper price in the United States at 9 cents a pound, materially helped copper production in some of the states and contributed a slightly increase gold (and silver) output from copper ores as compared with 1933 results.

#### SOUTHERN RHODESIA

The Government Mining Engineer for Southern Rhodesia reports that in 1931 the outlook of the gold mining industry in that country was completely changed by the advent of the premium on gold, since that time the industry has steadily expanded to the unparalleled position of to-day. The premium has given a great impetus to prospecting, the re-opening of old mines previously unpayable and to the exploiting of large low-grade propositions.

The effect of the premium is best seen by the increase in the numbers of small workers whose number rose from 286 in 1930 to 1,107 in 1933 and to 1,350 in 1934. This rise is also noticeable in the medium sized mines which have increased from 36 in 1930 to 71 in 1933 and 83 in 1934. The number of large mines remain more or less constant but should increase in the next year or two.

#### TANGANYIKA

The output of gold in Tanganyika in 1934 was more than six times greater in weight and nine times greater in value than the total production of the metal in 1926. This expansion has mainly resulted from discoveries and production by small workers, but many companies are now examining and developing properties. The respective areas of gold fields, with known reefs or mines which are either producing gold or are being developed to prove their value are as follows: Lupa Goldfields, South West Mwanza, East Mwanza Goldfield, Musoma Goldfield and Selenke-Iramba Goldfield. The output of the Lupa field to the end of May, 1934, had been entirely alluvial gold, of which it had produced about 128,000 ounces, valued at about £659,000. The extensive reef sources are only beginning to be developed.

#### KENYA GOLDFIELDS

One of the features of 1934, according to the Mining Journal, London, was the throwing open to prospectors of No. 2 area. During the year notable progress was made in the development of the Western Kenya Goldfields. At Kimingini extensive development work was conducted and great progress made on the famous 35 mile concession by East African Concessions Ltd. Near Kakamega Town milling operations were conducted by the Rosterman Co. and Risks Ltd. Considerable developments have been made during the past year in the Lolgorien District. In Marigoli the Edzawa Ridge Ltd., have been milling ore for several months with satisfactory results.

#### SUDAN

Cyaniding operations were commenced in August, 1934, at the property of the Gabait Cold Mines situated about 150 miles north of Port Sudan on the Red Sea. The output from the mine from February 1, 1933, to January 1, 1934, was 5,751 tons, which yielded 3,621 oz. of gold. The ore milled from February 1, 1934 to January 31, 1935 was 7,517 tons from which 4,220 oz. of gold were obtained.

#### GOLD COAST

Dr. N. R. Junner, Director of the Gold Coast Geological Survey, states that producing mines now are making good profits, and developments in most of the mines during the past two or three years have been promising. The Bibiani mine, which produced more than £900,000 from shallow depths, has been re-opened and is again producing. The Cinnamon Bippo and Obuom mines, which yielded nearly £400,000 and £90,000 of gold, respectively, from depths of less than 250 feet and Fanti, Tamsu, Eduapriem and other dormant mines ha e also been re-opened. In addition intensive prospecting is going on in many parts of the country. Conditions to-day on the Gold Coast are vastly different from what they were twenty years ago. There are now 500 miles of railway and some 6,000 to 7,000 miles of good motor roads-health conditions and methods of mining and recovery of gold have greatly improved and mining costs considerably reduced.

It is interesting to note that the ore reserves of Ashanti Goldfields Corporation at September 30, 1934, were 584,818 tons of an average value of 24 dwts. per ton; it is hoped during 1935 to increase the monthly output of this company to 16,500 tons.

#### INDIA

At the present time, with the exception of a very small output from. scattered native workings the only gold produced in India comes from the famous Kolar Goldfield in the state of Mysore in Southern India. The auriferous quartz veins here are found in a narrow strip of encient hornblendic schists, surrounded by a complex of gneissic and granitic rocks. A feature of the Kolar field is the persistance in depth of the gold content of the quartz, and in some instances the workings have been taken down one and a half miles from the surface, but nevertheless, expecially under the favourable conditions which now prevail in the gold mining industry, there is every reason to enticipate, states the Mining Journal, London, that the mines will remain valuable producers of the metal for very many years to come.

### KOREA

During the past few years gold mining in Korea has been mainly confined to the areas controlled by the Oriental Consolidated Co. and by the Chosen Corporation Ltd. Recently the chief work of the Chosen concession has been carried out on the Great Nurupi, East Nurupi, Moo-Dong-sang and Sok-sa-Kol mines all in the Nurupi area, and the Yun-Ja-Kol and Moon Ji Ryong in the Kapam area. A 13,000 ton per month mill is in operation on the property. It is confidently anticipated that the Nurupi mine will continue to produce its present quota of gold for many years, the deepest workings of the Great Nurupi mine have reached a depth of 11,100 feet vertically and 17 levels have been driven. In the Sok-sa-Kol, Moo-Dong-Sang, Pak-Tal-Ko and Moo-Ka-Kal properties the Corporation. owns four young mines which are expected to prove valuable.

#### AUSTRALIA

In Western Australia mining activity was intensive on the Golden Mile at Kalgoorlie. The Lake View and Star Ltd., the leading company, is treating more than 50,000 tons monthly at a profit of more than £1 per ton. Development work on the numerous lodes at depth are reported as very satisfactory and to-day ore reserves exceed 2,400,000 tons assaying 8dwts. The Great Boulder Proprietary Ltd., erected a 12,000 ton per month treatment plant using fine grinding-flotation-roasting-cyanadation method. Ore reserves of this company are reported to exceed 500,000 tons. The Sons of Gwalia Ltd., at Lenora are remodelling its mill and at the Wiluna, three orebodies have been developed at depth from the main shaft. The mill at this property is treating 42,000 tons per month at a cost of less than 20s per ton and at a profit of 25s per ton.

In Victoria the Bendigo field has attracted the attention of English and American companies and a thorough search for payable Saddle reefs is now being carried out by Bendigo Mines Ltd. There are over 30 smaller companies operating in Bendigo, but only two are dividend payers at the moment. It is stated that the Victorian deep leads, representing the buried river channels carrying auriferous gravels will develop into important gold-producing areas within the near future. Queensland has only two important gold mines at the present time -Mount Morgan and Golden Plateau (Cracow). The re-opening of the famous Mount Morgan gold-copper mine is one of the bright spots of the revival. The plant has been enlarged to a capacity of 15,000 tons monthly. By the application of the Edquist process, recovery is reported to have been increased by 0.5 dwt. per ton and over 2,000,000 tons thus added to reserves which now exceed 7,000,000 tons.

In New South Wales the occidental mine at Cobar will be in production by the middle of 1935 and in Northern Australia the Golden Dyke Mine, at Shackle, has reached production, over 130,000 tons assaying 8 dwts. gold per ton have been proved to the 100 foot level.

The future of the gold mining industry in Australia is described as exceedingly bright. It has been stated that the output for the Commonwealth in 1935 will exceed 800,000 ounces and that the yield in 1936 should not be far short of 900,000 ounces and a year later 1,000,000 ounces. In Western Australia to-day over 12,000 men are reported directly employed in gold mining as compared with 5,000 in 1929.

#### NEW ZEALAND

Compared with the yields of the early days of gold mining, the industry has fallen away very considerably, but the annual export has never appreciably been below a value of half a million sterling, and since the recent depression, which caused a large number of men to turn to prospecting, the yields have increased. Ten years ago, for instance, the export figure was £551,000 whereas last year it was £1,320,000. Present values, necessarily have a great deal to do with the higher value of the yield, but greater quantities also were recovered lest year than a decade ago, the relative figures being - 1924, 133,631 ounces; 1934, 162,490 ounces. Encouragement has been given to unemployed men to prospect; during the year 1933 the Unemployment Board expended in this £198,000 in unemployment pay, subsidies, supervising and purchasing of mining equipment to assist gold prospecting. Up to March 31, 1934, approximately 10,000 ounces of gold (excluding gold obtained by subsidized companies and syndicates) was won by subsidized miners who would otherwise have swelled the ranks of the unemployed.

Reefing propositions are rapidly coming into favour and this means that more attention is being paid to the North Island. The Thames, Waihi and Coromandel fields are rapidly coming into prominence and a great revival has taken place in gold dredging in Central Otago.

#### BELGIAN CONGO

A statement by the Belgian Colonial Office gives the Congo gold production in 1934 at 11,620 kilos and estimates the gold reserves at 75,000 kilos. A steady increase in production is anticipated as a result of further prospecting and development and the increase in the number of gold mining undertakings which number 23.

#### CYPRUS

The Cyprus Mines Corporation actively worked the gold bearing lode at Skouriotissa with encouraging results; data pertaining to the production of "Devil's Mud" or auriferous andesite during the last six months of 1934 are as follows:-Underground development, footage 12,293, tennage mined 4,342, gold writes of othe exported 10,488 ounces; silver content of the exported 10,145 curves and gold content of precipitate exported 2,604 cunces.

-48-

Information utilized in the preparation of this bulletin as supplied by the various Canadian mining companies, Provincial and Federal Departments of Mines, American Bureau of Metal Statistics, Royal Canadian Mint, Canadian Trade Commissioners, Department of Finance, United States Bureau of Mines and Mint, the Technical Press and various other contributors, is hereby gratefully acknowledged.

#### DIRECTORY

# PRINCIPAL CANADIAN ALLUVIAL GOLD OPERATORS, 1934.

#### Name

Butterworth and MacKay Bros.

Cariboo Northern Development

Columbia Development Ltd. Compagnie Francais Des Mines

Consolidated Gold Alluvials

Consolidated Mining & Smelting

Eastman Red Gulch Placers Ltd.

Co., Ltd.

Clay, J. R.

Colpe, Chas. H.

d'Or du Canada

Co. of Canada, Ltd.

De Mers Placer Ltd.

Dredgement Syndicate

Eldorado Placers Ltd.

French Creek Hydraulic

Falconer, D. H.

Placers, Ltd.

Elieff, McDonald & McKay

of B.C. Ltd.

#### Head Office Address

# Location

Leech River

Omineca Mining Div.

Quesnel Mining Di

Atlin Mining Div.

Atlin Mining Div.

Atlin Mining Di

Atlin Mining Div.

Atlin Mining Div.

Fort Steel Mini

Lightning Creek

Div., Omineca Mining Div.

Shuttle Island

Cariboo Mining

Spruce Creek

Wigwam

QUEBEC - Cook and Lloyd Cold River Mining Co. Ltd, Unit Co. Ltd.	St. Simon les Mines 956 New Birks Bldg., Montreal 52 St. Peter St., Quebec	Gilbert River Comptýn Co. Beauce Co.
ALBERTA - McLeod River Mining Corp. Ltd.	200 Bay St., Toronto, Ont.	McLeod River
BRITISH COLUMBIA - Alberta Pacific Cons. Oils Ltd.	302 Toronto General Trusts Bldg.,	
Barkerville Gold Mines, Ltd. Barrington, S. C. Black Watch Mines Ltd.	Calgary, Alberta 708 - 525 Seymour St., Vancouver Wrangell, Alaska Nelson	Lillooet M.D. Barkerville Stikine Nelson Mining Div.
Boundary Creek Mining Co, Bride, Maurice Brown, H. P.	814 Metropolitan Bldg.,Vancouver Atlin Hixon	Greenwood Mining D. Atlin Mining Div. Barkerville
Buchanan & Cumming Bullion Placers Ltd.	Atlin 501 Vancouver Block, Vancouver	Atlin Mining Div. Quesnel Mining Div.

1056 Foul Bay Rd., Victoria 704 Bank of Toronto Bldg., Victoria Cedar Creek Hydraulic Mines Ltd. 323 Sayward Bldg., Victoria Sprice Creek, Atlin Atlin 410 King St., Kitchener, Ont, 19 rue d'Aurnale, Paris, France

1040 West Gerogia St., Vancouver

Trail

660 St. Catherine St.W., Montreal, P.Q. Tlell Barkerville 1044 Beach Ave., Vancouver Atlin Atlin

410 Lancaster Bldg., Calgary, Alberta

Cariboo Mining Div,

Atlin Mining Div.

Cariboo Mining Dir.

# PRINCIPAL CANADIAN ALLUVIAL GOLD OPERATORS, 1934 (continued)

BHTTISH COLUMELA (continued)509 Union Bldg., VictoriaAtlin Mining Div.Golden Strand Syndicate(N. H. Terry)MassettGraham Island(N. H. Terry)MassettGraham IslandBuyet Placers Ltd.1012 Royal Bank Bldg., VancouverBarkervilleHigh Run Placer Gold Mines Ltd.319 West Pender St., VancouverJessicaJacobson, RoyTrout LakeLardeau CreekJohnson, Nelson & UclandAtlinLardeau CreekKetch Hydraulic Co.Van WinkleDevil's CanyonLower Bridge River Placers Ltd.708 Yorkshire Bldg., VancouverLillooct Mining Div.Lowhee Mining Co. Ltd.U.S.A.CaribooLykegard, Carl E.AtlinSpruce CreekMatson & SchultzAtlinSpruce CreekMorse, McKechnie & BrettAtlinSpruce CreekMex, Edmund914 E. 15th Ave., VancouverClinton Mining Div.Mose SyndicateLikelyQuesnel Mining Div.Murphy, NathanAtlinO'Donnell RiverPine Creek Mining Co.501 - 1411-4th Ave.Bldg.,Seattle, Wash., U.S.A.Ruby Cold Mines Ltd.Sam Dang PlacerBarkervilleSilta and HagbergFinmoore-Stale-Cariboo Gold Placers Ltd.507 Stock Exchange Bldg., VancouverQuesnel Mining Div.Stale-Cariboo Gold Placers Ltd.507 Stock Exchange Bldg., VancouverQuesnel Mining Div.Sunberg, CarlMingdamSpruce CreekCariboo Mining Div.Stude-Cariboo Gold Placers Ltd.510 Check Exchange Bldg., VancouverQuesnel Mini
(N. H. Terry)MassettGraham IslandGuyet Placers Ltd.1012 Royal Bank Eldg., VancouverBarkervilleHigh Run Placer Gold Mines Ltd.319 West Pender St., VancouverJessicaHodges and MoronAtlinAtlinJacobson, RoyTrout LakeLardeau CreekJohnson, Nelson & UclandAtlinSpruce CreekLower Bridge River Placers Ltd.708 Yorkshire Bldg., VancouverLillooet Wining DivLowkee Mining Co. Ltd.U.S. A.CaribooLykegard, Carl E.AtlinSpruce CreekMatson & SchultzAtlinRuby CreekMorse, McKechnie & BrettAtlinSpruce CreekMorse, McKechnie & BrettAtlinSpruce CreekMorse, McKag & JohnsonAtlinSpruce CreekMurphy, NathanAtlinSpruce CreekMurphy, NathanAtlinFuby CreekPerret, FrancoisQuesnelLikelyPlacer Engineers Ltd.204 - 555 Georgia St.W., VancouverQuesnel Mining Div.Silde Cariboo Gold Placers Ltd.400 Grawille St., VancouverQuesnel Mining Div.Silde-Cariboo Gold Placers Ltd.1410 Hoge Bldg., Seattle, Wash., U.S.A.Spruce CreekSombrio Placer Mining Syndicate507 Stock Excharge Bldg., VancouverGuesnel Wining Div.Soudberg, Carl1410 Hoge Bldg., Seattle, Wash., U.S.A.Spruce CreekShakerville507 Stock Excharge Bldg., VancouverGuesnel Wining Div.Sombrio Placer Mining Syndicate507 Stock Excharge Bldg., VancouverGuesnel Wining Div.Soudb
Guyet Plecers Ltd.1012 Royal Bank Bldg., Vancouver Jessica AtlinBarkerville Jessica Jessica AtlinHigh Run Placer Gold Mines Ltd.S19 West Pender St., Vancouver AtlinJessica AtlinHacbson, Roy Johnson, Nelson & Ucland Ketch Hydraulic Co. Lower Bridge River Placers Ltd.Trout Lake AtlinLardeau Creek Spruce CreekLower Bridge River Placers Ltd.Van WinkleDevil's Canyon Lillooet Mining Div Lowhee Mining Co. Ltd.Devil's Canyon Lillooet Mining Div U.S.A.CaribooLykegard, Carl E. Matson & SchultzAtlin Norse, McKechnie & Brett Morse, McKechnie & Brett Morison, McKay & Johnson Perret, FrancoisAtlin Spruce Creek AtlinSpruce Creek Spruce Creek Mining Div Quesnel Mining Co.Morrison, McKay & Johnson Perret, FrancoisAtlin Quesnel Sold Hines Ltd.Sold - 535 Georgia St.W., Vancouver Quesnel Mining Div. Sold Mines Ltd.Gariboo Dist. Spruce Creek Mining Div. God Hines Ltd.Suddperg Stoldquist & Co. Solade Cariboo Gold Placers Ltd. Sudaberg, Carl Sundberg,
High Run Placer Gold Mines Ltd.319 West Pender St., Vancouver AtlinJessica AtlinHodges and Moron Jacobson, Nelson & Ucland Ketch Hydraulic Co.Trout Lake AtlinLardeau Creek Spruce CreekLower Bridge River Placers Ltd.708 Yorkshire Bldg., Vancouver 1008. MuskleLillooet Mining Div Down WinkleLownee Mining Co. Ltd.109. Must Bldg., Tacoma, Wash., U.S. A.CaribooLykegard, Carl E. Matson & SchultzAtlinSpruce Creek Ruby CreekMorse, McKechnie & Brett McKinnon, Chas. E. Mew, EdmundAtlinSpruce Creek Spruce CreekMorrison, McKay & Johnson Placer Engineers Ltd. Sold Mines Ltd.Atlin Spruce CreekCuesnel Mining Div. Queen City Wining Co.Nuby Gold Mines Ltd. Silde-Cariboo Gold Placers Ltd. Sundberg, Carl Trehouse Hydraulic Mining Co.Sol - 551 Ceorgia St.W., Vancouver BarkervilleCariboo Mining Div. Cariboo Dist.Sombrio Placer Mining Syndicate Sovereign Creek Gold Mines Ltd. Sundberg, Carl Trehouse Hydraulic Mining Co.Sol Spruce Creek AtlinSpruce Creek Sol Atlin O'Donnell River O'Donnell River O'Donnell River Cariboo Mining Div. Cariboo Dist.Cariboo Mining Div. Cariboo Dist.Sundberg, Carl Sundberg, CarlAtlin Cariboo Cold Placers Ltd.Spruce Creek Ming Div. Cariboo Mining
Hodges and MoronAtlinAtlinJacobson, RoyTrout LakeLardeau CreekJohnson, Nelson & UclandAtlinSpruce CreekKetch Hydraulic Co.Van WinkleDevil's CanyonLower Bridge River Placers Ltd.708 Yorkshire Bldg., VancouverLillooet Mining DivLower Gridge River PlacersU.S.A.CaribooLykegard, Carl E.AtlinSpruce CreekMatson & SchultzAtlinRuby CreekMorse, McKechnie & BrettAtlinSpruce CreekMcKinnon, Chas. E.AtlinSpruce CreekMew, Edmund914 E. 15th Ave., VancouverClinton Mining Div.Moose SyndicateLikelyQuesnelMurphy, NathanAtlinRuby CreekMurphy, NathanSoft - 555 Georgia St., VancouverQuesnel Mining Div.Placer Engineers Ltd.304 - 555 Georgia St., VancouverQuesnel Mining Div.Ruby Gold Mines Ltd.470 Granville St., VancouverQuesnel Mining Div.Sang Dang PlacerBarkervilleSpruce CreekSilte and HagbergFinmoore-Schudquist & Co.AtlinSpruce CreekSilte and HagbergFinmoore-Sombrio Placer Mining Syndicate507 Stock Exchange Bldg., VancouverYictoria Mining Div.Sonberio Placer Mining Syndicate507 Stock Exchange Bldg., VancouverGaesnel Wining Div.Sundberg, CarlWingdamBarkervilleCariboo Mining Div.Sundberg, CarlWingdamBarkervilleCaribo Mining Div.Sunberg, CarlWing
Jacobson, Roy Johnson, Nelson & Ucland Ketch Hydraulic Co. Lower Bridge River Placers Ltd.Trout Lake AtlinLardeau Creek Spruce CreekLower Bridge River Placers Ltd. Lowhee Mining Co. Ltd.Van WinkleDevil's Canyon Lillooet Mining Div U.S.A.Lykegard, Carl E. Matson & SchultzAtlinSpruce Creek U.S.A.Matson & Schultz Mew, EdmundAtlinSpruce Creek Matson, Chas. E. Mew, EdmundAtlinMorse, McKechnie & Brett McKinnon, Chas. E. McKinnon, McKay & Johnson Perret, FrancoisAtlinSpruce Creek Spruce CreekMurphy, Nathan Perret, Francois Queen City Wining Co. Sang Dang Placer Sang Dang Placer Sang Dang Placer Sand Lade-Cariboo Gold Placers Ltd. Sombrio Placer Mining Syndicate Sombrio Placer Mining SyndicateGariboo Hining Div. Caribo Mining Div. Sortee CreekSombrio Placer Mining Syndicate Sombrio Placer Mining Syndicate Sombrio Placer Mining SyndicateSort Sort Creek AtlinCariboo Mining Div. Quesnel Mining Div. Sort Caribo Mining Div. Sort Caribo Old Placers Ltd. Sort Sort Exchange Bldg., Vancouver Sort CreekCariboo Mining Div. Quesnel Wining Div. Sort Sock Exchange Bldg., Vancouver Victoria Wining Div. Sort Carek Gold Mines Ltd. Sort Sock Exchange Bldg., Vancouver Wingdam Mingdam MingdamBarkerville Barkerville Kathan AtlinBarkerville Cariboo Mining Div. Caribo Mining Div. Cari
Johnson, Nelson & UclandAtlinSpruce CreekKetch Hydraulic Co.Van WinkleDevil's CanyonLower Bridge River Placers Ltd.708 Yorkshire Bldg., VancouverLillooct Mining DivLowhee Mining Co. Ltd.109. Sust Bldg., Tacoma, Wash., U.S.A.CaribooLykegard, Carl E.AtlinRuby CreekMatson & SchultzAtlinSpruce CreekMorse, McKechnie & BrettAtlinSpruce CreekMcKinnon, Chas. E.AtlinSpruce CreekMew, Edmund914 E. 15th Ave., VancouverClinton Mining Div.Morses SyndicateLikelyQuesnel Mining Div.Murphy, NathanAtlinCubonell RiverPerret, FrancolsQuesnelFinlay RiverPine Creck Mining Co.S01 - 1411-4th Ave.Bldg., Seattle, Wash., U.S.A.Cariboo Dist.Sang Dang PlacerBarkervilleSpruce CreekSholquist & Co.AtlinSpruce CreekSombrio Placer Mining SyndicateFinnoore-Sombrio Placer Mining SyndicateS07 Stock Exchange Bldg., VancouverQuesnel Mining Div.Sundberg, CarlWingdamBarkervilleCariboo Dist.Sundberg, CarlWingdamBarkervilleCariboo Mining Div.Sundberg, CarlWingdamBarkervilleCariboo Mining Div.Cuesnel Mining SyndicateS07 Stock Exchange Bldg., VancouverQuesnel Mining Div.Sombrio Placer Mining SyndicateS07 Stock Exchange Bldg., VancouverQuesnel Mining Div.Sundberg, CarlWingdamBarkervilleCariboo Mining Div
Ketch Hydraulic Co.Van WinkleDevil's CanyonLower Bridge River Placers Ltd.708 Yorkshire Bldg., VancouverLillooet Wining DivLowhee Mining Co. Ltd.1109.Fust Bldg., Tacoma, Wash.,Ullooet Wining DivLykegard, Carl E.AtlinSpruce CreekMatson & SchultzAtlinRuby CreekMorse, McKechnie & BrettAtlinSpruce CreekMew, Edmund914 E. 15th Ave., VancouverClinton Mining Div.Moorsion, McKay & JohnsonAtlinRuby CreekMurphy, NathanAtlinO'Donnell RiverPerret, FrancolsQuesnelFinlay RiverPine Creek Mining Co.501 - 1411-4th Ave.Bldg.,Gariboo Mining Div.Queen City Wining Co.501 - 1411-4th Ave.Bldg.,Sattle, Wash., U.S.A.Ruby Gold Mines Ltd.470 Granville St., VancouverQuesnel Mining Div.Sondrigt & Co.AtlinSpruce CreekSkoldquist & Co.AtlinSpruce CreekSlade-Cariboo Gold Placers Ltd.612 Standard Bank Bldg., VancouverQuesnel Mining Div.Sombrio Placer Mining Syndicate507 Stock Exchange Bldg., VancouverGuesnel Wining Div.Sunberg, CarlWingdamBarkervilleCariboo Mining Div.Sunberg, CarlWingdamBarkerv
Lower Bridge River Placers Ltd.708 Yorkshire Bldg., VancouverLillooet Mining DivLowhee Mining Co. Ltd.109.Must Bldg., Tacoma, Wash.,U.S.A.CaribooLykegard, Carl E.AtlinSpruce CreekMatson & SchultzAtlinSpruce CreekMorse, McKechnie & BrettAtlinSpruce CreekMcKinnon, Chas. E.AtlinSpruce CreekMew, Edmund914 E. 15th Ave., VancouverClinton Mining Div.Moorse SyndicateLikelyQuesnel Mining Div.Morrison, McKay & JohnsonAtlinRuby CreekMurphy, NathanAtlinGuesnelPerret, FrancoisQuesnelFinlay RiverPine Creek Mining Co. Ltd.837 W. Hastings St., VancouverQuesnel Mining Div.Queen City Wining Co.501 - 1411-4th Ave.Bldg.,Cariboo Mining Div.Sang Dang PlacerSarkervilleSpruce CreekSkoldquist & Co.AtlinSpruce CreekShade-Cariboo Gold Placers Ltd.507 Stock Exchange Bldg., VancouverQuesnel Mining Div.Sombrio Placer Mining Syndicate507 Stock Exchange Bldg., VancouverSpruce CreekSombrio Placer Mining Syndicate507 Stock Exchange Bldg., VancouverGuesnel Mining Div.Sombrio Placer Mining Syndicate507 Stock Exchange Bldg., VancouverGuesnel Mining Div.Source Creek Gold Mines Ltd.612 Standard Bank Bldg., VancouverGuesnel Mining Div.Sundberg, CarlWingdamBarkervilleGariboo Mining Div.Sundberg, CarlKingdamBarkervilleGariboo Mining Div.
U.S.A.CaribooLykegard, Carl E.AtlinSpruce CreekMatson & SchultzAtlinRuby CreekMorse, McKechnie & BrettAtlinSpruce CreekMcKinnon, Chas. E.AtlinSpruce CreekMew, Edmund914 E. 15th Ave., VancouverClinton Mining Div.Moorse SyndicateLikelyQuesnel Mining Div.Morrison, McKay & JohnsonAtlinO'Donnell RiverMurphy, NathanAtlinO'Donnell RiverPerret, FrancoisQuesnelFinlay RiverPine Creck Mining Co. Ltd.837 W. Hastings St., VancouverQuesnel Mining Div.Queen City Wining Co.501 - 1411-4th Ave.Bldg., Seattle, Wash., U.S.A.Cariboo Mining Div.Ruby Gold Mines Ltd.470 Granville St., VancouverQuesnel Mining Div.Silte and HagbergFinmoore-Skoldquist & Co.AtlinSpruce CreekSombrio Placer Mining Syndicate507 Stock Exchange Bldg., VancouverQuesnel Mining Div.Sombrio Placer Mining Syndicate507 Stock Exchange Bldg., VancouverQuesnel Mining Div.Sombrio Placer Mining Syndicate612 Standard Bank Bldg., VancouverQuesnel Mining Div.Sundberg, CarlWingdamBarkervilleBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div.Sundberg, CarlKingdamAtlinRuby Creek
Lykegard, Carl E.AtlinSpruce CreekMatson & SchultzAtlinRuby CreekMorse, McKehnie & BrettAtlinSpruce CreekMcKinnon, Chas. E.AtlinSpruce CreekMew, Edmund914 E. 15th Ave., VancouverClinton Mining Div.Moorse, McKay & JohnsonAtlinRuby CreekMorrison, McKay & JohnsonAtlinRuby CreekMurphy, NathanAtlinRuby CreekPerret, FrancoisQuesnelO'Donnell RiverPine Creek Mining Co. Ltd.837 W. Hastings St., VancouverQuesnel Mining Div.Placer Engineers Ltd.304 - 535 Georgia St.W., VencouverQuesnel Mining Div.Queen City Wining Co.501 - 1411-4th Ave.Bldg.,Seattle, Wash., U.S.A.Cariboo Mining Div.Sang Dang PlacerBarkervilleSpruce CreekSilts and HagbergFinmoore-Stade-Cariboo Gold Placers Ltd.1410 Hoge Bldg., Seattle, Wash.,Spruce CreekSombrio Placer Mining Syndicate507 Stock Exchange Bldg., VancouverBarkervilleSovereign Creek Gold Mines Ltd.612 Standard Bank Bldg., VancouverBarkervilleSundberg, CarlWingdamBarkervilleCariboo Mining Div.Trehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div.Turnquist, EmilAtlinRuby Creek
Matson & SchultzAtlinRuby CreekMorse, McKechnie & BrettAtlinSpruce CreekMorse, McKechnie & BrettAtlinSpruce CreekMew, Edmund914 E. 15th Ave., VancouverClinton Mining Div.Moose SyndicateLikelyQuesnel Mining Div.Moorrison, McKay & JohnsonAtlinRuby CreekMurphy, NathanAtlinO'Donnell RiverPerret, FrancoisQuesnelFinlay RiverPine Creek Mining Co. Ltd.837 W. Hastings St., VancouverQuesnel Mining Div.Placer Engineers Ltd.304 - 535 Georgia St.W.,VancouverQuesnel Mining Div.Queen City Wining Co.501 - 1411-4th Ave.Bldg., Seattle, Wash., U.S.A.Cariboo Mining Div.Ruby Gold Mines Ltd.470 Granville St., VancouverQuesnel Mining Div.Silte and HagbergFinmoore-Stoldquist & Co.AtlinSpruce CreekSombrio Placer Mining Syndicate507 Stock Exchange Bldg.,VancouverSpruce CreekSombrio Placer Mining Syndicate507 Stock Exchange Bldg.,VancouverVictoria Mining Div.Sondberg, CarlWingdamBarkervilleBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div.Sundberg, CarlMingdamBarkervilleCariboo Mining Div.Turnquist, EmilAtlinRuby Creek
Morse, McKechnie & BrettAtlinSpruce CreekMcKinnon, Chas. E.AtlinSpruce CreekMew, Edmund914 E. 15th Ave., VancouverClinton Mining Div.Moorse SyndicateLikelyQuesnel Mining Div.Morrison, McKay & JohnsonAtlinRuby CreekMurphy, NathanAtlinO'Donnell RiverPerret, FrancoisQuesnelFinlay RiverPine Creek Mining Co. Ltd.837 W. Hastings St., VancouverQuesnel Mining Div.Placer Engineers Ltd.304 - 535 Georgia St.W.,VencouverQuesnel Mining Div.Queen City Wining Co.501 - 1411-4th Ave.Bldg., Seattle, Wash., U.S.A.Cariboo Mining Div.Ruby Gold Mines Ltd.470 Granville St., VancouverQuesnel Mining Div.Sang Dang PlacerFinmoore-Skoldquist & Co.AtlinSpruce CreekSlade-Caribqo Gold Placers Ltd.1410 Hoge Bldg.,Seattle, Wash., U.S.A.SarkervilleSombrio Placer Mining Syndicate507 Stock Exchange Bldg.,VancouverVictoria Mining Div.Sovereign Creek Gold Mines Ltd.507 Stock Exchange Bldg.,VancouverQuesnel Mining Div.Sundberg, CarlWingdamGarkervilleGariboo Mining Div.Trehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div.Turnquist, EmilAtlinKuhRuby Creek
McKinnon, Chas. E.AtlinSpruce CreekMew, Edmund914 E. 15th Ave., VancouverClinton Mining Div.Moose SyndicateLikelyQuesnel Mining Div.Morrison, McKay & JohnsonAtlinRuby CreekMurphy, NathanAtlinO'Donnell RiverPerret, FrancolsQuesnelFinlay RiverPine Creek Mining Co. Ltd.837 W. Hastings St., VancouverQuesnel Mining Div.Queen City Wining Co.501 - 1411-4th Ave.Bldg., Seattle, Wash., U.S.A.Cariboo Mining Div.Queen City Wining Co.501 - 1411-4th Ave.Bldg., Seattle, Wash., U.S.A.Cariboo Mining Div.Sang Dang PlacerBarkervilleCariboo Dist.Silte and HagbergFinmoore-Skoldquist & Co.AtlinSpruce CreekSombrio Placer Mining Syndicate507 Stock Exchange Bldg., VancouverBarkervilleSovereign Creek Gold Mines Ltd.612 Standard Bank Bldg., VancouverQuesnel Wining Div.Sundberg, CarlWingdamBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div.Turnquist, EmilAtlinRuby Creek
Mew, Edmund914 E. 15th Ave., VancouverClinton Mining Div.Moose SyndicateLikelyQuesnel Mining Div.Morrison, McKay & JohnsonAtlinRuby CreekMurphy, NathanAtlinO'Donnell RiverPerret, FrancoisQuesnelFinlay RiverPine Creck Mining Co. Ltd.837 W. Hastings St., VancouverQuesnel Mining Div.Placer Engineers Ltd.304 - 535 Georgia St.W., VancouverQuesnel Mining Div.Queen City Mining Co.501 - 1411-4th Ave.Bldg., Seattle, Wash., U.S.A.Cariboo Mining Div.Ruby Gold Mines Ltd.470 Granville St., VancouverQuesnel Mining Div.Silts and HagbergFinmoore-Skoldquist & Co.AtlinSpruce CreekStade-Cariboo Gold Placers Ltd.1410 Hoge Bldg., Seattle, Wash., U.S.A.BarkervilleSombrio Placer Mining Syndicate507 Stock Exchange Bldg., VancouverBarkervilleSonbrio Placer Mining Co.WingdamBarkervilleBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div.Turnquist, EmilAtlinRuby Creek
Moose SyndicateLikelyQuesnel Mining Div.Morrison, McKay & JohnsonAtlinRuby CreekMurphy, NathanAtlinO'Donnell RiverPerret, FrancoisQuesnelGuesnelPine Creek Mining Co. Ltd.837 W. Hastings St., VancouverQuesnel Mining Div.Placer Engineers Ltd.304 - 535 Georgia St.W.,VencouverQuesnel Mining Div.Queen City Wining Co.501 - 1411-4th Ave.Bldg., Seattle, Wash., U.S.A.Cariboo Mining Div.Ruby Gold Mines Ltd.470 Granville St., VancouverQuesnel Mining Div.Sang Dang PlacerBarkervilleCariboo Dist.Silts and HagbergFinmoore-Skoldquist & Co.AtlinSpruce CreekSlade-Cariboo Gold Placers Ltd.1410 Hoge Bldg.,Seattle, Wash., U.S.A.BarkervilleSombrio Placer Mining Syndicate507 Stock Exchange Bldg.,Vancouver WingdamBarkervilleSoundberg, CarlWingdamBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div.Turnquist, EmilAtlinRuby Creek
Morrison, McKay & JohnsonAtlinRuby CreekMurphy, NathanAtlinO'Donnell RiverPerret, FrancoisQuesnelFinlay RiverPine Creek Mining Co. Ltd.837 W. Hastings St., VancouverQuesnel Mining Div.Placer Engineers Ltd.304 - 535 Georgia St.W., VancouverQuesnel Mining Div.Queen City Wining Co.501 - 1411-4th Ave.Bldg., Seattle, Wash., U.S.A.Cariboo Mining Div.Ruby Gold Mines Ltd.470 Granville St., VancouverQuesnel Mining Div.Sang Dang PlacerBarkervilleCariboo Dist.Silts and HagbergFinmoore-Skoldquist & Co.AtlinSpruce CreekSlade-Caribqo Gold Placers Ltd.1410 Hoge Bldg., Seattle, Wash., U.S.A.BarkervilleSombrio Placer Mining Syndicate Sovereign Creek Gold Mines Ltd.507 Stock Exchange Bldg., Vancouver WingdamBarkervilleSundberg, Carl Trehouse Hydraulic Mining Co.WingdamBarkerville Cariboo Mining Div. Ruby Creek
Murphy, NathanAtlinO'Donnell RiverPerret, FrancoisQuesnelFinlay RiverPine Creck Mining Co. Ltd.837 W. Hastings St., VancouverQuesnel Mining Div.Placer Engineers Ltd.304 - 535 Georgia St.W., VencouverQuesnel Mining Div.Queen City Wining Co.501 - 1411-4th Ave.Bldg., Seattle, Wash., U.S.A.Cariboo Mining Div.Ruby Gold Mines Ltd.470 Granville St., VancouverQuesnel Mining Div.Sang Dang PlacerBarkervilleCariboo Dist.Silts and HagbergFinmoore-Skoldquist & Co.AtlinSpruce CreekSlade-Cariboo Gold Placers Ltd.1410 Hoge Bldg., Seattle, Wash., U.S.A.BarkervilleSombrio Placer Mining Syndicate507 Stock Exchange Bldg., VancouverQuesnel Mining Div.Souberg, CarlWingdamBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div.Turnquist, EmilAtlinRuby Creek
Perret, FrancoisQuesnelFinlay RiverPerret, FrancoisQuesnelSilte and HagbergSilte and HagbergSombrio Placer Mining SyndicateSovereign Creek Gold Mines Ltd.Sovereign Creek Gold Mines Ltd.Sovereign Creek Gold Mines Ltd.Sombrio Placer Mining SyndicateSovereign Creek Gold Mines Ltd.Sovereign Creek Gold Mines Ltd.BarkervilleSombrio Placer Mining SyndicateSovereign Creek Gold Mines Ltd.Sovereign Creek Gold Mines Ltd.BarkervilleSoudberg, CarlWingdamBarkervilleCariboo Mining Div.Sundberg, CarlWingdamBarkervilleCariboo Mining Div.Turnquist, EmilAtlinAtlinRuby Creek
Pine Creek Mining Co. Ltd.837 W. Hastings St., Vancouver Quesnel Mining Div.Quesnel Mining Div. Quesnel Mining Div.Placer Engineers Ltd. Queen City Mining Co.304 - 535 Georgia St.W., Vancouver Soll - 1411-4th Ave.Bldg., Seattle, Wash., U.S.A.Quesnel Mining Div. Quesnel Mining Div.Ruby Gold Mines Ltd. Sang Dang Placer Silta and Hagberg Skoldquist & Co. Slade-Cariboo Gold Placers Ltd.470 Granville St., Vancouver Barkerville Finmoore AtlinCariboo Mining Div. Quesnel Mining Div. Gariboo Dist.Sombrio Placer Mining Syndicate Sovereign Creek Gold Mines Ltd. Sundberg, Carl Trehouse Hydraulic Mining Co. Turnquist, Emil1410 Hoge Bldg., Seattle, Wash., U.S.A.Barkerville Sarkerville Finmoore Atlin
Placer Engineers Ltd.304 - 535 Georgia St.W.,VencouverQuesnel Mining Div.Queen City Mining Co.501 - 1411-4th Ave.Bldg., Seattle, Wash., U.S.A.Cariboo Mining Div.Ruby Gold Mines Ltd.470 Granville St., VancouverQuesnel Mining Div.Sang Dang PlacerBarkervilleCariboo Dist.Silta and HagbergFinmoore-Skoldquist & Co.AtlinSpruce CreekSlade-Cariboo Gold Placers Ltd.1410 Hoge Bldg.,Seattle, Wash., U.S.A.BarkervilleSombrio Placer Mining Syndicate507 Stock Exchange Bldg.,VancouverVictoria Mining Div. Quesnel Mining Div.Soudberg, CarlWingdamBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div. Ruby Creek
Queen City Wining Co.501 - 1411-4th Ave.Bldg., Seattle, Wash., U.S.A.Cariboo Mining Div.Ruby Gold Mines Ltd.470 Granville St., VancouverQuesnel Mining Div.Sang Dang PlacerBarkervilleCariboo Dist.Silta and HagbergFinmoore-Skoldquist & Co.AtlinSpruce CreekSlade-Cariboo Gold Placers Ltd.1410 Hoge Bldg.,Seattle, Wash., U.S.A.BarkervilleSombrio Placer Mining Syndicate507 Stock Exchange Bldg.,VancouverVictoria Mining Div.Sovereign Creek Gold Mines Ltd.612 Standard Bank Bldg.,VancouverQuesnel Wining Div.Sundberg, CarlWingdamBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div.Turnquist, EmilAtlinRuby Creek
Seattle, Wash., U.S.A.Cariboo Mining Div.Ruby Gold Mines Ltd.470 Granville St., VancouverQuesnel Mining Div.Sang Dang PlacerBarkervilleCariboo Dist.Silts and HagbergFinmoore-Skoldquist & Co.AtlinSpruce CreekSlade-Cariboo Gold Placers Ltd.1410 Hoge Bldg.,Seattle, Wash.,U.S.A.Sombrio Placer Mining Syndicate507 Stock Exchange Bldg.,VancouverVictoria Mining Div.Sovereign Creek Gold Mines Ltd.612 Standard Bank Bldg.,VancouverQuesnel Mining Div.Sundberg, CarlWingdamBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div.Turnquist, EmilAtlinRuby Creek
Ruby Gold Mines Ltd.470 Granville St., VancouverQuesnel Mining Div.Sang Dang PlacerBarkervilleCariboo Dist.Silte and HagbergFinmoore-Skoldquist & Co.AtlinSpruce CreekSlade-Cariboo Gold Placers Ltd.1410 Hoge Bldg.,Seattle, Wash., U.S.ASombrio Placer Mining Syndicate Sovereign Creek Gold Mines Ltd.507 Stock Exchange Bldg.,Vancouver WingdamWictoria Mining Div. Quesnel Mining Div. BarkervilleSundberg, Carl Turnquist, EmilWingdamBarkerville Cariboo Mining Div. Barkerville
Sang Dang PlacerBarkervilleCariboo Dist.Silta and HagbergFinmoore-Skoldquist & Co.AtlinSpruce CreekSlade-Caribqo Gold Placers Ltd.1410 Hoge Bldg.,Seattle, Wash., U.S.A.BarkervilleSombrio Placer Mining Syndicate507 Stock Exchange Bldg.,VancouverVictoria Mining Div.Sovereign Creek Gold Mines Ltd.612 Standard Bank Bldg.,VancouverQuesnel mining Div.Sundberg, CarlWingdamBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div.Turnquist, EmilAtlinRuby Creek
Silts and HagbergFinmooreSkoldquist & Co.AtlinSpruce CreekSlade-Caribqo Gold Placers Ltd.1410 Hoge Bldg.,Seattle, Wash., U.S.A.BarkervilleSombrio Placer Mining Syndicate507 Stock Exchange Bldg.,VancouverVictoria Mining DivSovereign Creek Gold Mines Ltd.612 Standard Bank Bldg.,VancouverQuesnel mining DivSundberg, CarlWingdamBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining DivTurnquist, EmilAtlinRuby Creek
Skoldquist & Co.AtlinSpruce CreekSlade-Cariboo Gold Placers Ltd.1410 Hoge Bldg.,Seattle, Wash., U.S.A.BarkervilleSombrio Placer Mining Syndicate Sovereign Creek Gold Mines Ltd.507 Stock Exchange Bldg.,Vancouver (L2 Standard Bank Bldg.,Vancouver)Victoria Mining Div Quesnel Mining Div BarkervilleSundberg, Carl Trehouse Hydraulic Mining Co. Turnquist, EmilWingdam AtlinBarkerville Cariboo Mining Div Barkerville
Slade-Cariboo Gold Placers Ltd.1410 Hoge Bldg.,Seattle, Wash., U.S.A.BarkervilleSombrio Placer Mining Syndicate Sovereign Creek Gold Mines Ltd.507 Stock Exchange Bldg.,Vancouver 612 Standard Bank Bldg.,Vancouver WingdamWindow Barkerville Cariboo Mining Div. Barkerville Cariboo Mining Div. BarkervilleTurnquist, EmilAtlinRuby Creek
U.S.A.BarkervilleSombrio Placer Mining Syndicate507 Stock Exchange Bldg.,VancouverVictoria Mining DivSovereign Creek Gold Mines Ltd.612 Standard Bank Bldg.,VancouverQuesnel mining DivSundberg, CarlWingdamBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining DivTurnquist, EmilAtlinRuby Creek
Sombrio Placer Mining Syndicate507 Stock Exchange Bldg., VancouverVictoria Mining DivSovereign Creek Gold Mines Ltd.507 Stock Exchange Bldg., VancouverQuesnel Mining DivSundberg, CarlWingdamBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining DivTurnquist, EmilAtlinRuby Creek
Sovereign Creek Gold Mines Ltd.612 Standard Bank Bldg., VancouverQuesnel mining Div.Sundberg, CarlWingdamBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div.Turnquist, EmilAtlinRuby Creek
Sundberg, CarlWingdamBarkervilleTrehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div.Turnquist, EmilAtlinRuby Creek
Trehouse Hydraulic Mining Co.BarkervilleCariboo Mining Div.Turnquist, EmilAtlinRuby Creek
Turnquist, Emil Atlin Ruby Creek
Tyaughton Creek Gold Placers Ltd. 118 Vancouver Block, Vancouver Lillooet Div.
Walton, Lindal & Williams Atlin Spruce Creek .
Yates & Boe Hudson Hope Hudson Hope
Yeager, A. C. Lumberton Fort Steele Div.
Zahara, A. J. Rycroft, Alberta Hudson "ope .
YUKON Holbrook Dredging Co. Glacier 60 Mile Creek
Ostby, T. 1070 Haro St., Vancouver, B.C. Hunker Creek Yukon Consolidated Gold Corp.Ltd. 140 Wellington St., Ottawa,Ont. Dawson

-50-

# DIRECTORY

# PRINCIPAL OPERATORS(x) IN CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1934.

#### Head Office Address

#### Location

NOVA SCOTIA Associated Gold Mines of Nova Scotia Ltd. Banook Gold Mines Ltd. Beacon Gold Mines Ltd. /Bluenose Gold Syndicate Cons. Mining & Smelting Co. of Can. Ltd. Corwin Gold Mines Ltd. Guysboro Mines Ltd. Higgins and Lawlor

Name

Hogan, F. J. Kemptville Gold Mining Co. Lacey Gold Mining Co. Ltd. AMinerals Limited Montague Gold Mines Ltd. Aqueens Mines Ltd. Seal Harbour Gold Mines Ltd. Stuart, S. J. /Thompson, J. H. United Goldfields of Nova Scotia Ltd.

QUEBEC

Adanac Gold Mines Ltd. Amity Gold Mines Ltd.

Arcadian Rouyn Gold Mines Synd. Ltd. Arno Mines Ltd. Arntfield Gold Mines Ltd. Avocalon Mining Syndicate Ltd. +Basin Gold Mines Ltd. Beattie Gold Mines Ltd. ABeaufor Cold Mines Ltd. 4Bidlamaque Gold Mines Ltd. /Birrell Gold Mines Ltd. 4Blake River Gold Mines Ltd. /Blouin Lake Gold Mines Ltd. Bourbeau Lake Chibougamau Mines Ltd. Brownlee Mines Ltd. Bussieres Mining Co. Ltd. Calder Bousquet Gold Mines Ltd. Canadian Malartic Gold Mines Ltd. 25 King St. W., Toronto, Ont. Canadian Pandora Gold Mines Ltd. +Central Malartic Mines Ltd. /Chibougamau-Tiblemont Syndicate

+Coniagas Reduction Co. Ltd.

908 Transportation Bldg., Montreal, P.Q. Central Rawdon 1310 Councourse Bldg., Toronto, Ont. 706/100 Adelaide St. W., Toronto, Ont. 321 Federal Bldg., Toronto, Ont.

840 Dominion Sq. Bldg., Montreal, P.Q. Enfield 1220/25 King St. W., Toronto, Ont. Moose River Gold Mines

Mt. Uniacke Box 219 Yarmouth 35 Bedford Row, Halifax Roy Bldg., Halifax 706/100 Adelaide St. W., Toronto, Ont. 297 Agricola St., Halifax 57 Bloor St. W.,, Toronto, Ont. Isaac's Harbour Box 98. Oxford

Liverpool

601/330 Bay St., Toronto, Ont. 1302 Canada Permanent Bldg., Toronto, Ont. Commonwealth Bldg., King St. E., Toronto, Ont. 63 Sparks St., Ottawa, Ont. 303 Old Birks Bldg., Montreal, Que. 67 Yonge St., Toronto, Ont. 619/159 Craig St. W., Montreal 25 King St. W., Toronto, Ont. 1208 Edifice Aldred, Montreal 320 Bay St., Toronto, Ont. 300 Sterling Tower, Toronto, Ont. 317/132 St. James St., W., Montreal 136 Sparks St., Ottawa, Ont.

New Liskeard, Ont. Box 456, Noranda 221 Notre Dame St. W., Montreal 706/100 Adelaide St. W., Toronto, Ont. Box 700, New Liskeard, Ont. 350 Bay St., Toronto, Ont. 810 Federal Bldg., 85 Richmond St. W., Toronto, Ont. 320 Bay St., Toronto, Ont.

Lawrencetwon Molega Mill Village Goldboro Caribou Gold Mi es Oldham Goldenville Moose River Dist. Mt. Uniacke Kemptville Chester Basin various mines Dartmouth Mt. Uniacke Goldboro Guysboro Co. Moosehead

Brookfield Mings:

#### Rouyn

Bourlamaque To.

Kouyn Rouyn Arntfield Vauquelin Varsan Tp. Duparquet Tp. Pascalis Tp. Bourlamaque Tp. Duprat Tp. Cadillac Tp. Bourlamaque Tp.

Chibouganau Noranda Louvicourt Tp. Bousquet Tp. Fourniere Tp. Cadillac Tp. Malartic Tp.

Tiblemont Tp. Guillet Tp.

- 52 -

#### PRINCIPAL OPERATORS (x) IN CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1934.

#### Head Office Address Location Name QULBEC (continued) -Consolidated Chibougamau 276 St. James St. W., Montreal Chibougamau Goldfields Ltd. Consolidated M. & S. Co. of 840 Dominion Sq. Bldg., Montreal Canada Ltd. 320 Bay St., Toronto, Ont. Bourlamaque Tp +Contact Gold Mines Ltd. 4Cummings-Trudel Mining & Dev. 201 Victoria Bldg., Ottawa, Ont. Barraute Tp. Co. Ltd. fDel 110 Mining Co. Lta. 506/56 Sparks St., Ottawa, Ont. Destor Tp, 2408 Stanley St., Niagara Falls, Ont. Boischatel Tp. 4Derrington Mining Syndicate 357 Bay St., Toronto, Ont. 4Dorval-Siscoe Gold Mines Ltd. Varsan Tp. 25 King St. W., Toronto, Ont. N. W. Quebec /Dubuisson Mines Ltd. Duparquet Tp. /Duparquet Mining Co. Ltd. 204 Hospital St., Montreal Bourlamaque Tp. Fast Lamaque Gold Mines Ltd. 357 Bay St., Toronto, Ont. 913 Royal Bank Bldg., Montreal Fourniere Tp, FE st Malartic' Mines Ltd. Box 310, Noranda Angineers Exploration Co. Ltd. .... N. W. Quebec Box Ex, Kirkland Lake, Ont. /Erie Canadian Mines Ltd. *FExolorer* Syndicate c/o W. M. Goodwin, Ste Anne de Bellevue Rouyn Tp. 25 King St. W., Toronto, Ont. Rouyn Tp. Farrell Kouyn Mines Ltd. 2150 St. Jacques St., Montreal Pascalis Tp. +Fleming Mines Ltd. Fleming-Thompson Gold Mines Ltd. Box 308, Rouyn Puparquet Tp. Boischatel Tp. 941 Dominion Sq. Bldg., Montreal Francoeur Gold Mines Ltd. 4Galatea Gold Mines Ltd. 1305 Star Bldg., Toronto, Ont. Duparquet Tp. Destor Tp, Pascalis Tp, 200 Bay St., Toronto, Ont. /Gilbec Mines Ltd. Glenwood Mining Co. Ltd. Rouyn Tp. Rouyn 204 Royal Bank Bldg., Toronto, Ont. +Gold Bar Mines Ltd. Rouyn Sterling Tower, Toronto, Ont. Bousquet Tp. 4Golden Quebec Mines Ltd. 204 Royal Bank Bldg., Toronto Rouyn Tp. Granada Gold Mines Ltd. 1406 Concourse Bldg., Toronto, Ont. Dubuisson 1p. Green Stabell Mines Ltd. 132 St. Jacques W., Montreal Boischatel Tp. Halliwell Gold Mines Ltd. Harricana Amalgamated Gold Abitibi Co. 105 Mountain Hill, Quebec Mines Ltd. 357 Bay St., Toronto, Ont. Bourlamaque Tp. Herbin Lake Gold Synd. Ltd. /Joannes Mine Corp. 276 <sup>D</sup>t. James St., Montreal, Joannes Tp. 601/330 Bay St., Toronto, Ont. Jupiter Gold Syndicate Rouyn Tp. 244 Bay St., Toronto, Ont. Rouyn Tp. 4Keyroc Gold Mining Co. Ltd. Kindall Mines Ltd. 217 Univeristy Tower, Montreal Rouyn Tp. 357 Bay St., Toronto, Ont. Bourlamaque Tp. Kinghorn Sturgeon Mines Ltd. 811 Ottawa Electric Bldg., Ottawa, Ont. Louvicourt Tp /Kirkland Crest Gold Mining Synd. 701/407 McGill St., Montreal Guillett Tp. *4Lake Expanse Mines Ltd.* 941 Dominion Sq. Bldg., Montreal Boischatel Tp. ALake Fortune Gold Mines Ltd. La Mine D'Or Venus Cons. 51 Rue Colomb, Quebec Barraute Tp. 405 Concourse Bldg., 100 Adelaide St. W. -Leader Gold Mines Ltd. Toronto, Ont. Tiblemont Tp. Lamaque Gold Mines Ltd. Bourlamaque via Amos 701/407 McGill St., Montreal

703/357 Bay St., To nto, Ont.

Elmira, Ont.

Schumacher, Ont.

Box 689, Rouyn

/Lamaque Cold Wines Ltd. /Louvre Gold Mines Ltd. /Manley Quebec Gold Mines Ltd. /McDonald Gold Mines Ltd. /McIntyre Porcupine Mines Ltd. McWatters Gold Mines Ltd. Bourlamaque Tp. Louvicourt Tp. LaReine Tp. Duparquet Tp. Guillet Tp.. Kouyn Tp. - 53

PRINCIPAL OPERATORS IN CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1934. (con.)

Name

#### Head Office Address

#### Location

QUEBEC (concluded) AMaritime Cadillac Synd. /Murwood Gold Mines Ltd. Met-Mac Prospectors Ltd. AMidland Mining Corp. Ltd. /Mines Development Corp. Monarch Mines Ltd. Aliooshla Gold Mines Ltd. /Newroy Gold Mines Ltd. ANorlake Mining Corp. Normont Gold Mines Ltd. -Northern Aerial Canada Golds Ltd. Northern Chibogamau Mines Ltd. ANorthern Quebec Gold Fields & Exploration Co. Northern Quebec Gold Mines Ltd. +Nu Sigma Gold Syndicate Ltd. O'Brien Gold Mines Ltd. /O'Leary Malartic Mines Ltl. 40 Neill Thompson Mining Synd, /Pan Canadian Gold Mines Ltd. /Payore Cold Mines Ltd. Perron Gold Mines Ltd. Pontiac Rouyn Ltd. Fowell Rouyn Gold Mines Ltd. Prospectors Airways Ltd. +Quebec Eureka Gold Mines Ltd. Aquebec Gold Belt Mines Ltd. +Quebec Viking Gold Mines Ltd. FRaymond Tiblemont Synd. Flocdor Gold Mines Ltd. FRouyn Reward Coll Mires Ltd. /Seguin Rouyn Gold Mines Ltd.

/Senneterre Gold Syndicate /Shawkey Gold Mining Co. Ltd. ,Sigma Mines Ltd. Siscoe Gold Mines Ltd. /Sladen Malartic Mines Ltd. +South Tiblemont Mines Ltd. , /Stadacona Rouyn Mines Ltd.

/Scanley Siscoe Extension Gold Mines Ltd.

. /Sudbury Contact Mines Ltd ... -Sudbury Mines Ltd, Sullivan Cons. Mines Ltd. /Tavernier Gold Mining Synd. fiblemont Contact Mining Synd. 4Tiblemont Exyension Synd. FT blemont Island Mining Co. Ltd AUnited Gold Exploration Ltl. /Vicour Gold Mines Ltd AWest Shore Gold Mines Ltd. Awiltsey-Coglan Mines Ltd.

Moncton, N. B. 405 Councourse Bldg., Toronto, Ont. 701/407 McGill St., Montreal 231 Notre Dame W., Montreal 189 St. Jean St., Quebec 14 King St. E., Toronto, Ont. 25 King St. W., Toronto, Ont. 465 Bay St., Toronto, Ont Castle Bldg., Montreal 905 Transportation Bldg., Montreal Councourse Bldg., Toronto, Ont.

Three Rivers 341 Dominion Sq. Bldg., Montreal 320 Bay St., Toronto, Ont. Kewagama. Box 120, Noranda c/o E. B. Eddy Co., Hull 24 Milk St., Boston, Mass. \_ 357 Bay St., Toronto, Ont. Pascalis 706/100 Adelaide St. W., Toronto, Ont.Noranda 440 Confederation Life Bldg., Toronto, Ont. 80 King St. W., Toronto, Ont. 11 King St. "., Toronto, Ont. Box 190 Fort Erie, Ont. 305/330 Bay St., Toronto, Ont. 205 Brock Bldg., Toronto, Ont. Ussher Bldg , Toronto, Ont. 305/330 Bay St., Toronte, Ont. 507 Place d'Armes, Montreal 1007/465 Bay St., Toronto, Ont. 67 Yonge St., Toronto, Ont. Valdor 907 Dominion Sq, Bldg., Montreal 63 Sparks St., Ottawa, Ont. 1007/465 Bay St., Toronto, Ont. 159 Craig St. W., Montreal

231 St. James St W., Montreal 25 King St. w., Toronto, Ont. 11 Jordan St., Toronto, Ont 1207 Aldred Bldg., Montreal 11 King St. W., Toronto, Ont. 34 King St. E., Toronto, Ont. 811 Federal Bldg., Toronco, Ont Senn terre 276 St. James St. V., Montreal 80 King St. T., Toronto, Ont 816 Keefer Bldg., Montreal 25 King St. W., Toronto, Ont.

Cadillac Tp. Tiblemont Tp. Louvicourt Tp. Desmeloizes Tp. N. W. Quebec Dasserat Tp. Bousquet Tp. Louvicourt Tp. Rouyn Rouyn Tp. N. W. Quebec 460 St. Francois Xavier St., Montreal Chibougamau

> Bousquet Tp. Rouyn Bourlamaque Tp. Cadillac Tp. N. Vi. Quebec Joannes Tp.. Cadillac Tp. Bourlamaque Tp. Pascalis Tp.

Rouyn Tp. Rose Lake Tiblemont Tp. Bourlamaque Tp. Beauschatel Tp. Tiblemont Tp. Bourlamaque Tp. Joannes & Rouyn Tus Fou m Senneterre Dubuisson Tp. Bourlanaque lo. Dubuisson Tp. N. W. Quebec Tiblemont Tp. Rouyn

Varsan 1p. Bousquet Tp. Joannes Tp. Dubuisson Tp. Tavernier Tp. Tiblemont Tp. Tiblemont Tp. Tiblemont Tp Laverlochere Tp, Louvicourt Ip. Abitibi Co. Rouyn .p.

PRINCIPAL OPERATORS IN CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1934. (con.)

#### Head Office Address

# Location

ONTARIO

Name

Algold Mines Ltd. Algoma Summit Gold Mines Ltd. Alschbach Gold Mining Co. Ltd. Amalgamated Gold Fields Corp. Ltd. Anglo-Huronian Ltd. Ardeen Gold Mines Ltd. Ashley Gold Mining Corp. Ltd. /Bankfield Gold Mines Ltd. Barry-Hollinger Mines Ltd. Beatty-Waterloo Mines Ltd. Hey Mines Ltd. Bidgood Kirkland Gold Mines Ltd. /Bilmac Gold Mines Ltd. ABob Tough Gold Mines Ltd. Buffalo Ankerite Gold Mines Ltd. ACanadian Reserve Mines Ltd. /Canusa Gold Mines Ltd.

Casey Summit Gold Mines Ltd. (Centennial Gold Mines Ltd. Central Canada Mines Ltd. Central Patricia Gold Mines Ltd. Clark Gold Mines Ltd. 4Coulson Cons. Gold Mines Ltd. 4Concordia Gold Mining Co. Ltd. Coniaurum Mines Ltd. +Consolidated Mining.& Smelting Co. of Canada, Ltd. #Craig Gold Mines Ltd. /Darwin Gold Mines Ltd. Delnite Mines Ltd. /De Santis Gold Mining Co. Dikdik Exploration Co. Ltd. Dome Mines Ltd. /Dumond Mining & Exploration Co Ltd, Haileybury Duport Mining Co. Ltd. /Erie Canadian Mines Ltd. /Excello Mines Ltd. /Federated Mining Corp. Ltd. Foley Syndicate Four Nations Cons. Gold Mines, Ltd. Fox Lake Gold Mines, Inc. Gillies Lake Porcupine Gold Mines Ltd. /Glenora Gold Mines, Ltd. /Golden Gate Mining Co. Ltd. AGolden Summit Mines Ltd. fold Lange Mines Ltd. Halcrov Swayze Mines Ltd.

Har' Rock Gold Mines Ltd.

45 Richmond St. W., Toronto, 514 McKinnon Bldg., Toronto New Liskeard 1104 Northern Ontario Bldg., Toronto 80 King St. W., Toronto 132 St. James St. W., Montreal, Que. 602/350 Bay St., Toronto 1006 Concourse Bldg., Toronto 57 Bloor St. W., Toronto 16 Cedar St. E., Waterloo 1601 Sterling Tower, Toronto 32 Main St., Hamilton 364 Bay St., Toronto 21 Main St. E., Hamilton Box 1728, Buffalo, N. Y. 306 C. P. R. Bldg., Toronto 416 Penobscot Bldg., Detroit, Mich., U.S.A. 465 Bay St., Toronto Box 212, Blind River 232 Grain Exchange, Winnipeg, Man. 1001 Federal Bldg., Toronto, Ont. 388 St. James St., Montreal, P.Q. 1104 Northern Ontario Bldg., Toronto 276 St. James St. W., Montreal, P.Q. 25 King St. W., Toronto 840 Dominion Square Bldg., Montreal, P.Q. Box 179, Madoc 703 - 357 Bay St., Toronto Box EX, Kirkland Lake 242 Second Ave., Timmins 941 Dominion Square Bldg., Montreal, P.Q. Kinghorn 36 Toronto St., Toronto Utilities Bldg., Port Arthur Box EX, Kirkland Lake 159 Bay St., Toronto 11 King St. W., Toronto 57 Bloor St., Toronto 372 Bay St., Toronto 511 Liberty Bank Bldg., Buffalo, N.Y. 18 Toronto St., Toronto 1005 Federal Bldg., Toronto 59 Yonge St., Toronto 2374 Bloor St. W., Toronto

1604 Royal Bank Bldg., Toronto 1821 Canadian Bank of Commerce Bldg., Toronto 603 Royal Bank Bldg., Toronto

Goudreau Dist. Goudreau Dist. Grenfell Tp. Beatty Tp. Timmins Kashabowie Bannockburn To. Errington Tp. Boston Creek Beatty Tp. Eastern Ontario Kirkland Lake Shining Tree McKinnon Tp. South Porcupine Larder Lake

Porcupine Area Summit Lake Michipicoten Sapawe Patricia Dist. Dyment Matheson Porcupine Dist. Schumacher

Cordova Mines Hastings Co. Wawa Timmins Ogden Tp. South Porcupine Jellicoe Shoal Lake Kirkland Lake South Porcupine Tisdale Tp. Mine Centre Kenogami Lake Michipicoten

Timmins Kirkland Lake Swastika Sesekinika Schreiber

Halcrow Tp. Little Long Lac

#### -55-

#### PRINCIPAL OPERATORS IN CANADIAN AURIFFROUS QUARTZ MINING INDUSTRY, 1934 (con.)

Name Head Office Address Location ONTARIO - (con.) Hlarwood Lake Mines Ltd. 21 King St. E., Toronto Sudbury Dist. 503 - 357 Bay St .; Toronto Hislop Gold Mines Ltd. Hislop Tp. Timmins Timmins, Hollinger Cons. Gold Mines Ltd. Hislop Tp. Horseshoe Mines Ltd. 302 Royal Bank Bldg., Toronto Kenora Dist. I wey Gold Mines L.d. 717 Federal Bldg., Toronto Red Lake 112 Yonge St., Toronto Narrow Lake Alludson Patricia Gold Mines Ltd. 112 Dalhousie St., Brantford Long Lac Dist. AInterlac Gold Ltd. Alroquois Kirkland Mines Corp.Ltd. 537 Ellicott Sq., Buffalo, N.Y., U.S.A. Kirkland Lake J-M Cons. Gold Mines Ltd. 1116 Federal Bldg., Toronto Patricia Dist. Kenora Prospectors & Miners Ltd. Box 591, Kenora Shoal Lake Kirkland Lake /Kirkland Gold Belt Mines Ltd. 156 Yonge St., Toronto Kirkland Lake Gold Mining Co. Ltd. 930 Canadian Bank of Commerce, Bldg., Toronto Kirkland Lake -Koch Daneff Gold Mines Ltd. 1104 Bank of Hamilton Bldg., Toronto Jellicoe Lafayette Long Lac Gold Mines Ltd. 200 Bay St., Toronto Long Lac Dist. /Lake Caswell Mines Ltd. 1465 Yonge St., Toronto Shining Tree Dist. Lakeland Gold Ltd. 19 Sun Life Blag., Hamilton Maisonville To. Lake Shore Mines Ltd. Kirkland Lake Kirkland Lake Langmuir Longlac Gold Mines Ltd. 1005 Federal Bldg., Toronco Little Long Lac Area Lebel Oro Mines Ltd. 703 Northern Ontario Bldg., Toronto Long Lake fLee Gold Mines Ltd. 244 Bay St., Toronto Greenlaw Tp. Little Long Lac Gold Mines Ltd. 1331 Canadian Bank of Commerce Bldg., Toronto Geraldton Little Long Lac . Longlac Lagoon Gold Mines Ltd. 1005 Federal Bldg., Toronto Area Eby Tp. ALucky Kirkland Gold Mines Ltd. 215 - 159 Bay St., Toronto 4McCuaig Red Lake Gold Mines Ltd. 347 Bay St., Toronto Red Lake /McFarlane Long Lac Gold Mines Ltd.1112 - 85 Richmond St. W., Toronto Long Lac Dist. Box 12, Schumacher - McIntyre Porcupine Mines Ltd. Tisdale Tp 67 Yonge St., Toronto AMacjoe Sturgeon Gold Mines Ltd. Thunder Bay Dist. -McKenzie Red Lake Gold Mires Ltd. 507 National Bldg., Bay St., Toronto Red Lake McLaren-Porcupine Gold Mines Ltd. Box 507, South Porcupine Deloro Tp. AMacLeod-Cockshutt Gold Mines Ltd. 1001 Federal Bldg., Toronto Gerald on McMillan Gold Mines Ltd. Mongowin Tp. Sudbury Macassa Mines Ltd. 85 Richmond St. W., Toronto Kirkland Lake 919 - 159 Bay St., Toronto AMay-Spiers Gold Mines Ltd. Red Lake AMagnet Lake Gold Mines Ltd. 1005 Federal Bldg., Toronto Little Long Lac Area AMakwa Champagne Gold Mines Ltd. 502 McKinnon Bldg., Toronto Champagne To. Amanitoba & Eastern Mines Ltd. 1821 Canadian Bank of Commerce Bldg. Toronto Strathy Th. 1730 Rand Bldg., Buffalo, N.Y., U.S.A. South Porcupine Marbuan Gold Mines Ltd. 1302 Canadian Permanent Bldg., Toronto AMargo Mines Ltd. Matachewan Dist. Matachewan Dist. 2810 - 25 King St. W., Toronto Matachewan Cons. Mines Ltd. Wawa Minto Gold Mines Ltd. Wawa Lebel Tp. Haileybury Moffat Hall Mines Ltd. +Murray Algoma Mining Co. Ltd. 1105 - 45 Richmond St. W., Toronto Algoma Dist. Munro Tp. Munro Croesus Gold Mines Ltd. Haileybury 808 - 85 Richmond St. W., Toronto Porcupine Dist. /Naybob Gold Mines Ltd. /Northern Empire Mines Co. Ltd. Beardmore Empire 39 Bank of Toronto Bldg., London Boston Creek, ANorthern Securities Co.

Mongowin Tp.

-56-

# PRINCIPAL OPERATORS IN CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1934 (con.)

#### Name

# Head Office Address

#### Location

ONTARIO - (concluded) Northern Turnbull Gold Mines Ltd. Parkhill Gold Mines Ltd. Paymaster Cons. Mines Ltd. Famour Porcupine Mines Ltd. Flickle Crow Gold Mines Ltd. APLaunia Mining Syndicate Plymouth Gold Mining Co. Ltd. Horouping Peninsular Gold Mines Ltd. 80 King St. W., Toronto ARahill Red Lake Mining Co. Ltd. +Richersse Gold Mines Ltd. ARich Fork Gold Mines Ltd.

ARickard Raymore Gold Mines Ltd. St. Anthony Gold Mines Ltd. Saundary Syndicate /Scott Gold Mining Syndicate 4 S. B. Smith Mine Sol d'Or Gold Mine Ltd. /Soocana Mining Co. Ltd.

+South McKenzie Island Mines Ltd. Swayze Huycke Gold Mines Ltd. Sylvanite Gold Mines Ltd. /Tache Gold Syndicate Ltd. Falisman Gold Mines Ltd. /Tashota Goldfields Ltd. Teck-Hughes Gold Mines Ltd. Toburn Gold Mines Ltd. /Wawa Gold Fields Ltd.

*AWayne Sturgeon River Mining* Syndicate *Awendigo Mines Ltd.* AWells Long Lac Mines Ltd. West Side Long Lac Mines Ltd. Wright Hargreaves Mines Ltd.

Young-Davidson Mines Ltd.

#### MANITOBA -

/Bailor Gold Mines, Ltd /Black River Gold Mines , Brooks Godis. Lake Gold Mines Ltd. 801 Bk, of Hamilton Bldg.,

Central Manitoba Mines Ltd. #Clover Gold Mines Ltd. Cons. Goldfields of Manitoba Ltd. Foupland Gold Mines Ltd. liar: Gold Mines, Ltd. Horty-Four Mines, Lti. 4Gabrielle Mines, Ltd. /Garry God's Lake Mines, Ltd.

372 Bay St., Toronto Turnbull Tp. 1835 Beaver Hall Bldg., Montreal, P.Q. Wawa South Porcupine 221 Notre DameSt.W., Montreal, P.Q. Whitney Tp. 1406 Concourse Bldg., Toronto 6 Norton Ave., Toronto Goward 276 St. James St.W., Montreal, P.Q. Connaught 67 Yonge St., Toronto Red Lake 701 - 330 Bay St., Toronto Savant Lake 901 Star Bldg., Toronto Lennox and Addington 601 Concourse Bldg., Toronto Rickard Tp. 159 Bay St., Toronto Mine Centre 1405 - 302 Bay St., Toronto Red Lake Wawa Wawa Narrow Lake Narrow Lake 450 Queen St. E., Sault Ste. Marie, Ont. 1112 - 85 Richmond St.W., Toronto Red Lake 910 Sterling Tower, Toronto Box EX, Kirkland Lake Brandon, Man. Dyment 364 Bay St., Toronto Guibord Tp. 706 - 100 Adelaide St. W., Toronto Tashota Kirkland Lake 217 Bay St., Toronto 616 Canada Dement Bldg., Montreal, Wawa P.Q. 1821 Canadian Bank of Commerce Bldg., Toronto 601 Ussher Bldg., Toronto 171 Yonge St., Toronto Geraldton 372 Bay St., Toronto

Liberty Bank Bldg., Buffalo, N.Y., U.S.A. c-o Hollinger Mine, Timmins

505 Union Trust Bldg., Winnipeg 232 Curry Bldg., Winnipeg Toronto, Ont. Paris Bldg., Winnipeg 1207 McArthur Bldg., Winnipeg 941 Somerset Bldg., Winnipeg 67 Yonge St., Toronto, Ont. 67 Yonge St., Toronto, Ont. 237 Curry Bldg., Winnipeg, 903 MoArthur Bldg., Minnipeg 204 Royal Bk. Bldg., Toronto, Ont. S., Porcupine Patricia Dist. Rainy River Dist Sturgeon Lake Rainy River Dist.

Algoma Dist, Cunningham Tp. Kirkland Lake Kirkland Lake Kirkland Lake

Sturgeon River Kenora Dist, Thunder Bay Dist.

Kirkland Lake Matachewan

Beresford Lake Rice Lake

God s Lake Wadhope Beresford Lake Rice Lake Island Loke Gem Lake Rice Lake Bissett God's Lake

#### - 57 -

# PRINICPAL OPERATORS IN CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1934. (con.)

#### Head Office Address

#### Location

MANITOBA (concluded) -/God's Lake Gold Mines, Ltd. /Gunnar Gold Mines, Ltd /Highland Enterprise Mining Co. Ltd. 505 Huron & Erie Bldg., Winnipeg Island Lake Mines, Ltd. Howsey Island Gold Mines, Ltd. /Kiskoba Mining Co. Ltd. -Knee Lake Gold Mines, Ltd. /Laguna Gold Mines, Ltd. FLake Maron Gold Mines Ltd. /Little God's Lake Synd. Ltd. -Mandalay Gold Mines, Ltd. AManco Gold Mines, Ltd. /Maskwa Lake Gold Mines Ltd.

Name

/Midfield Gold Mines, Ltd. /Normandy Gold Mines, Ltd. Oro Grande Development Co. Ltd. foro Plata Mining Co. Ltd. Packsack Mines, Ltd. FRanger Gold Mines, Ltd. San Antonio Gold Mines Ltd. Scattergood Manitoba Gold, Ltd. /Scotia Gold Mines, Ltd. fomelter Gold Mines, Ltd.

/Stevenson Lake Gold Mines, Ltd. /Tinney Lake Gold Mines, Ltd. AVanson Manitoba Gold Mines, Ltd. /Wallace Lake Gold Mines, Ltd. /Wingold Mines, Ltd. *fWylie Dominion Gold Mines Ltd.* 

#### SASKATCHEWAN --

Cons. Mining & S. Co. of Can. Ltd. Flin Flon Gold Mining Synd. Ltd. /Great Bear Lake Mines, Ltd. /Wekach Lake Gold Mines, Ltd.

BRITISH COLUMBIA Alma N. Mining Co. Ashloo Gold Mining Synd. Atlin-Ruffner Mines Ltd. AB, C. Cariboo Gold Fields /Blue Jack Mines Ltd. Blue Hawk Gold Mines Synd. Bradian Mines Ltd., Bralorne Mines Ltd. Bunker Hill Gold Mines Itd. 4B. R. X. - Gold Mines Ltd. Buena Vista Mining Co., Ltd. ACamp McKinney Gold Hill Mining Co. Ltd.

395 Main St., Winnipeg 2001 Star Bldg., Toronto, Ont. 395 Main St., Winnipeg 395 Main St., Winnipeg Winnineg 395 Main St., Winnipeg 602-350 Bay St., Toronto, Ont. 1005 Federal Bldg., Toronto, Ont. 1116 Federal Bldg., Toronto, Ont. 205 Enderton Bldg. Winnipeg Lumsdon B'dg., Toronto, Ont. 701 Great West Permanent Bl g Winnipeg 504 Kensington Bldg., Winning 601 Union Trust Bldg., Winnipeg 1207 McArthur Bldg., Winnipeg 1005 Federal Bldg., Toron.o, Ont 395 Main St., Winnipeg 941 Somerset Bldg., Winnibeg 237 Curry Bldg., Winnipeg 201 Somerset Bldg., Winnipeg 290 Garry St., Winnipeg 1104 Bk. of Hamilton Bldg., Toronto, Ont. 395 Main St., Winnipeg 362 Main St., Winnipeg 610 McArthur Bldg., Winnipeg 403 Scott Block, Winnipeg 403 McIntyre Bldg., Winnipeg 2200 Sterling Tower, Toronto, Ont.

Trail, B. C. 601 Avenue Blk., Winnipeg, Man. 601 Ussher Bldg., Toronto, Ont. 290 Garry St., Winnipeg, Man.

511 Fidelity Bldg., Tacoma, Wash. 411 Bank of N, S. Bldg., Vancouver 1405 Trusts & Guarantee Bldg., Toronto Atlin Lake 1824 Marine Bldg., Vancouver 706 Metropolitan Bidg., Vancouver 2083 Byron St, Victoria 555 Burrard St., Vancouver 555 Burrard St , Vancouver Nelson 816 Hall Bldg., Vancouver Trail

703 Dominion Bank Bldg., Vancouver

God's Lake Beresford Lake Falcon Lake Island Lake God's Lake Herb Lake God's Lake Herb Lake Reed Lake God's Lake Beresford Lake Elbow Lake

Maskwa Lake Rice Lake Lice Lake Beresford Lake Reed Lake Rice Lake Rice Lake lice Lake Beresford Lake Beresford Lake

God's Lake Stevenson Lake Vadhope .ice Lake Rice Lake Bissett Lylie Station

Amisk Lake Douglas Lake Athabasca Lake Wekach Lake

Nelson Div. Squamish Moyie McGuire Kelowna Lillooet Dist Bralorne Nelson Lillooet Dist. Stewart

Yale Dist.

- 58 -

# PRINCIPAL OPERATORS IN CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1934. (con.)

#### Name

#### Head Office Address

Location

Caroni

BRITISH COLUMBIA - continued Caroni Gold Mines Ltd. *4*Canada Smelters Ltd. Cariboo Gold Quartz Mining Co. Ltd. 615 Bower Bldg., Vancouver Cariboo Yankee Belle Mining Co. Ltd. 425 Standard Bank Bldg., Vancouver Chilco Explorations Ltd. Clubine Comstock Gold Mines Ltd. Columario Cons. Gold Mines Ltd. 4Cons. Mining & S. Co. of Can. Ltd.

Danzig Mines Ltd. Dawson Cons. Gold Mines Ltd. Dentonia Mines Ltd. +Dictator Gold Mines Ltd. /Durango Gold Mines Ltd. Dynamo Mining & Milling Co. Ltd. Engineer Mine (R. Brook)

Euphrates Mining Co. Ltd. Fairview Amalgamated Gold Mines Ltd. 208 Pacific Bldg., Vancouver Foster Ledge Gold Mines Ltd. /Frances Gold Mines Ltd.

for Gold Mines Ltd. Gold Belt Mining Co. Ltd. Goldfinch Gold Mines Ltd. 4Gold Standard Mining Co. Ltd. Good Hope Mine Granby Cons. M. S. & P. Co. Ltd. +Grull-Wihksne Gold Mines Ltd. 4Gun Lake Gold Mines Ltd. Grandoro Mines Ltd. Grange Mines Ltd. Haida Gold Mines Ltd.

Hercules Cons. M. S. & P. Co. Ltd. Home Gold Mining Co. Ltd. /Ideal G ld & Nickel Mines Ltd. Imperial 'easing Synd. Island Mt. Mines Co. Ltd. I. X. L. Jeasors Ltd. Jenny Long Gold Mines /Kelowna Exploration Co. Ltd. Kennedy Lake Gold Mines Ltd. Kootenay Belle Gold Mines Ltd. Kootenay Nevada Mines Ltd. Lillooet Lake Mining Co. Ltd. Livingstone Mining Co. Inc. Lytton Gold Mines Ltd. Mak Siccar Gold Mines Ltd. AMartel Gold Mines Ltd. McArthur, W. E. Jr.

804 Standard Bank Bldg., Vancouver Sanca 918 Rogers Bldg., Vancouver Nelson 1010 Kent Bldg., Toronto, Ont. Trai

Nootka 716 Hall Bldg., Vancouver 200 Lancaster Bldg., Calgary Penticton 712 Standard Bank Bldg., Vancouver 1927 Marine Bldg., Vancouver Mining Corp. of Can., 350 Bay St., Toronto, Ont. Box 677, Nelson

816 Hall Bldg., Vancouver 2.0 Pemberton Bldg., Victoria

955 Thurlow St., Vancouver Box 544, Nelson 520 Pemberton Bldg., Victoria Penticton Box 1089, Nelson Hall Bldg., Vancouver 1007 Royal Bank Bldg.,, Vancouver 816 Hall Bldg., Vancouver Box 474, Penticton Burrard St., Vancouver 612 Standard Bank Bldg., Vancuver

618 Vancouver Block, Vancouver 614 Rogers Bldg., Vancouver 612 Vancouver Block, Vancouver Rock Creek 744 West Hastings St., Vancouver Rossland 547 Howe St., Vancouver Hedley 1214 Broad St., Victoria 470 Granville St., Vancouver 1012 Royal Bank Bldg., Vancouver North Bend Taghum 1110 E. 15th Ave., Vancouver 124 Pacific Bldg., Vancouver 607 Standard Bank Bldg., Vancouver Box 629, Greenwood

Box 180, Nelson

Sanca Wells Keithley Tatlayoco Lake Boulder Creek Usk Fish Lake Upper Salmon Val Nootka Sound Jessica Greenwood Edgewood Nelson Greenwood

Atlin Nelson Osoyoos Div. Cariboo Dist. Bridge River Kamloops Texada Island Salmo Camborne Fairview Dist. Nelson Granby Point Bridge River Dist Lillooet Dist. Osoyoos Div. Clinton Queen Charlotte Islands Nanaimo Dist. Jessica Yale Dist. Greenwood Cariboo Div. Rossland Nicola Div, Hedley Kennedy Lake Dist Salmo Nelson Fire Mountain Taghum Lytton Similkameen Ashcroft Div. Greenwood and Grand Forks Dive Trout Lake

- 59 -

#### PRINCIPAL OPFRATORS IN CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1934. (con.)

Name

BRITISH COLUMBIA - continued Ameridian Mining Co. Ltd. Midnight Syndicate Minto Gold Mines Ltd. /Mix Gold Mines Ltd. AMonashee Mines Synd. Ltd. Morning Star Gold Mines Ltd. Anational Gold Mines Ltd. Nicola Mines & Metals Ltd. Noble Five Mines Ltd. ANorthern Reef Gold Mines Ltd. O. K. Leasing Syndicate Oscarson Bros. +Osoyoos Mines Ltd. Pacific Eastern Gold Ltd. Pacific Golden West Syna. Patterson, T. F. Phillips Arm Cons. Mines Ltd. Pickering, B. A. Pioneer Gold Mines Ltd. Precambrian Gold Mines Premier Gold Mining Co. Ltd. Proserpine Gold Mines Ltd. Aquesnelle Quartz Mining Co. Ltd. ARadio Gold Mines Ltd. Reliance Gold Mines L. Relief-Arlington Mines Ltd. Reno Gold Mines Ltd. Robertson, H. W. -Saddle Mines Ltd.

Salmo-Malartic Ltd. Dtandard Gold Mines Ltd. Superior Gold Mines Ltd. /Sunloch Mines Ltd. Surf Point Mine (N. A. Timmins Corp.) Trites Gold Mining Co. Ltd. Turner, T. H. Twin Lakes Gold Mining Co. Ltd. Union Mine (J. F. McCarthy) Vancouver Island Gold Mines Ltd. Velvet Gold Mining Co. Victoria Fairview Mines Ltd. Vidette Gold Mines Ltd. Fiking Gold Mines Ltd. Walters, Williamson & Wanke Waterloo Gold Mines Ltd. Wayside Cons. Gold Mines Ltd. Alesko Exploration and

Development Co. Ltd.

# Head Office Address

Location

555 Howe St., Vancouver Lardeau Dist. Midnight Mine, Rossland Rossland Bridge River Lillooet Dist. 414/789 west Pender St., Vancouver Bridge River 312 Pacific Bldg., Vancouver Greenwood M.D. 840 West Hastings St., Vancouver 502 Pacific Bldg., Vancouver Oliver McGillivray Falls 210/602 Hastings St. W., Vancouver Stump Lake 420 Baker St., Nelson Sandon & Nelson 704 Bank of Toronto Bldg., Victoria Omineca M.D. Box 167, Rossland Rossland Erie Nelson M.D. 105a, 8th Ave. W., Calgary, Alta. Osoyoos Pacific Bldg., Vancouver Pioneer 34/553 Granville St., Vancouver Bridge River Refuge Bay Skeena Div. 475 Howe St., Vancouver Port Neville Box 857, Nelson West Kootenay 605 Rogers Bldg., Vancouver Lillooet Dist. Smith Tower, Seattle, Wash. Ewings Landing Royal Trust Bldg., Vancouver 502 Pacific Bldg., Vancouver 1000 Hall Bldg., Vancouver Portland Canal Barkerville Hixon 612 Vancouver Blk., Vancouver Omineca M.D. 1308 Northern Life Tower, Seattle, Wash. Bridge hiver Erie Nelson M.D. Yorkshire Bldg., Vancouver Salmo Box 1133, Nelson Nelson M.D. c/o Britannia M. & S. Co., Britannia Beach Quesnel M.D. 608/159 Bay St., Toronto, Ont. 716 Hall Bldg., Vancouver Nelson M.D. Dridge Wiver 614 Stock Exchange Bldg., Vancouver Greenwood Trail Jordan River

1010 Canada Cement Bldg., Montreal, Que. Porcher Island Taylor, J. E. (Republic)32 Fairfield Bldg., VancouverTaylor Windfall Gold Mining Co. Ltd.102 Pacific Bldg., VancouverTrites Gold Mining Co. Ltd.608 Pacific Bldg., Vancouver Greenwood linton M.D. Ymir Columbia Gardens Nelson M.D. Penticton Fairview Dist. Grand Forks Grand Forks 678 Howe St., Vancouver Alberni 1309, 7th Ave., Seattle, Wash. Rossland 823 M. Hastings St., Vancouver Oliver 312 Pacific Bldg., Vancouver 712 Standard Bank Bldg., Vancouver Savona Fairview Dist. Greenwood Greenwood M.D. Penticton Lightning Peak Wayside via Bridge River Lillooet Div.

816 Hell Bldg., Vancouver

Nelson M.D.

- 60 --

# PRINCIPAL OPERATORS IN CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1934. (concluded)

Name	Head Office Address	Location
BRITISH COLUMBIA - concluded Widdowson, E. W. Wilcox Mining Synd. Wilson Mining & Investment Co. Ltd. Vindpa s Gold Mining Co. Ltd. Ymir Cons. Gold Mines Itl Ymir Dundee Gold Mining Co. Ltd. Ymir Yankee Girl Gold Mines Ltd.	Nelson Box 205, Rossland 506 Pacific Bldg., Vancouver 744 Hastings St., Vancouver 716 Hall Bldg., Vancouver Box 246, Nelson Ymir	Ymir Ymir Smithers Chu Chua Ymir Ymir Nelson M.D.
NORTHWEST TERRITORIES - Burwash Yellow Knife Mines Ltd.	1112/85 Richmond St. W., Toronto, Ont	.Yellow Knife <sup>k</sup> iver
YUKON - Flimmins Corp., N. A.	1010 Canada Cement Bldg., Montreal, Que.	Carmacks

/ Active but not producing.

(x) In addition to the operators listed there were numerous active properties for which official returns were not received.

<u>NOTE</u> - Complex auriferous-sulphide ores that are mined essentially for their gold content are largely classified in this report under auriferous quartz. - 61 -

#### OPERATORS IN CANADIAN COPPER-GOLD-SILVER MINING INDUSTRY, 1934.

#### Location

QUEBEC -Arntfield 941 Dominion Sq. Bldg., Montreal Aldermac Mines Ltd. Storia Rouyn Mines Ltd, 74 St. Paul St., Quebec Rouyn +Bagamac Rouyn Mines Ltd. Haileybury, Ont. Rouyn Carlson Copper; Synd, Clericy Cons. Mines Ltd. New Liskeard, Ont, Dugay Tp. 74 Sparks St., Ottawa, Ont. Clericy Tp. Consolidated Copper & Sulphur Co. Eustis Eustis Cons, Mining & S. Co. of Can. Ltd. Dominion Sq. Bldg., Montreal Chibougamau Noranda Mines Ltd. 804 Royal Bank Bldg., Toronto, Ont. Rouyn 4Chibougamau 350 Bay St., Toronto, Ont. ANormetal Mining Corp. Ltd. Desmeloizes Tp. 25 King St. E., Toronto, Ont. Appemiska Copper Mines Ltd. Opemiska Lake 80 King St. W., Toronto, Ont. various claims Prospectors Airways Ltd. FRobb-Monthray Mines Ltd. 85 Richmond St. W., Toronto, Ont. Monthray Tp. /Syndicate Minier de Gaboury Gaboury Tp.

MANITOBA AND SASKATCHEWAN -Hudson Bay Mining & Smelting Co. Ltd.

Name

BRITISH COLUMBIAX-Britannia Mining & Smelting Co. Ltd. Britannia Beach Granby Cons. M. S. & P. Co. Ltd. Hall Bldg., Vancouver Flin Flon

Vancouver M.D. Anyox

X In addition to the companies listed there were numerous operators working under lesse on the LeRoy, Centre Star and other mines.

Woodstock, Ont.

/ Active but not producing.

3

Head Office Address

Guigues

