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CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

+++ *Industry and Merchandising Division* +++

MINING, METALLURGICAL & CHEMICAL SECTION

SUMMARY REVIEW
OF
THE GOLD MINING INDUSTRY
IN
CANADA



OTTAWA
1949

Price 50 cents

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THE GOLD MINING INDUSTRY IN CANADA, 1947

- Including: (a) The Alluvial Gold Mining Industry
 (b) The Auriferous Quartz Mining Industry
 (c) The Copper-Gold-Silver Mining Industry
 (d) Miscellaneous Data on Monetary Gold and World Gold Production, Markets, etc.

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 designated "The Auriferous Quartz Mining Industry" and in which industry 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 Canadian gold production.

During 1947 the production of gold in Canada amounted to 3,070,221 fine troy ounces valued at \$107,457,735, as compared with the production of 2,832,554 troy ounces worth \$104,096,359 in the preceding year. The employment situation showed some improvement and it was aided by the placement in the mines of many displaced persons who were brought from Europe. The Canadian dollar remained at par with the United States dollar, thus the price of gold remained at \$35.00 per ounce.

Ontario was the largest contributor to the gold production with 63.3 per cent; Quebec and British Columbia had 19.5 per cent and 8.1 per cent respectively. The balance of the year's output was made by Saskatchewan, Manitoba, Northwest Territories, Yukon, Nova Scotia and Alberta.

Gold yield according to type of deposit or nature of recovery included: in gold bullion produced at "gold mines", 84.4 per cent; in blister and anode copper, 9.41 per cent; in ores, mattes, slags, etc., exported, 4.3 per cent; in alluvial gold, 1.74 per cent; and in base bullion at lead smelters, 0.15 per cent.

The cumulative total production of gold in Canada from 1858 to 1947 was 100,897,256 troy ounces valued at \$2,999,766,065 in Canadian funds.

There was a decrease in the footage of diamond drilling done for exploration on auriferous quartz deposits. This amounted to 3,276,946 feet in 1947 as compared with 4,984,752 feet in 1946. Exploratory diamond drilling in copper-gold-silver deposits totalled 427,752 feet.

This report was prepared by A. R. Deir, Mining Statistician.

Table 1 - PRODUCTION OF NEW GOLD IN CANADA, BY PROVINCES AND SOURCES, 1946 and 1947
(Gold at \$20.671834 per fine ounce)

	1946		1947	
	Fine troy ounces	\$	Fine troy ounces	\$
Nova Scotia -				
In gold bullion	4,321	89,323	1,271	26,274
Estimated exchange equalization on gold produced	...	69,474	...	18,211
Total Value--Canadian Funds .....	...	158,797	...	44,485
Quebec -				
In gold bullion	410,642	8,488,723	465,177	9,616,062
In anode copper (b)	197,471	4,082,088	125,858	2,601,716
In ores, etc., exported	10,226	211,390	7,092	146,605
Total	618,339	12,782,201	598,127	12,364,383
Estimated exchange equalization on gold produced	...	9,941,757	...	8,570,062
Total Value--Canadian Funds .....	...	22,723,958	...	20,934,445
Ontario -				
Porcupine area--In gold bullion (c)	904,975	18,707,493	937,415	19,378,087
Kirkland Lake--In gold bullion (a)(c)	549,068	11,350,243	627,094	12,963,183
Other gold mines--In gold bullion (c)	291,371	6,023,173	331,260	6,847,752
In converter copper from nickel-copper ores	34,413	711,380	36,722	759,111
In ores, matte, etc., exported	33,506	692,630	12,328	254,843
Total	1,813,333	37,484,919	1,944,819	40,202,976
Estimated exchange equalization on gold produced	...	29,155,069	...	27,865,689
Total Value--Canadian Funds .....	...	66,639,988	...	68,068,665
Manitoba -				
In gold bullion	43,819	905,819	42,325	874,935
In blister copper	35,583	735,566	30,581	632,165
In ores, etc., exported .....	...	...	...	...
Total	79,402	1,641,385	72,906	1,507,100
Estimated exchange equalization on gold produced	...	1,276,639	...	1,044,610
Total Value--Canadian Funds .....	...	2,918,024	...	2,551,710
Saskatchewan -				
In alluvial gold	2	41	4	83
In gold bullion .....	...	...	...	...
In blister copper	112,099	2,317,292	93,743	1,937,840
Total	112,101	2,317,333	93,747	1,937,923
Estimated exchange equalization on gold produced	...	1,802,379	...	1,343,222
Total Value--Canadian Funds .....	...	4,119,712	...	3,281,145
Alberta -				
In alluvial gold	110	2,274	78	1,612
Estimated exchange equalization on gold produced	...	1,768	...	1,118
Total Value--Canadian Funds .....	...	4,042	...	2,730
British Columbia -				
In alluvial gold	15,530	321,033	5,732	118,491
In gold bullion	66,509	1,374,863	126,109	2,606,904
In base bullion	4,474	92,486	4,712	97,406
In ores, etc., exported	40,729	1,027,990	112,458	2,324,713
Total	136,242	2,816,372	249,011	5,147,514
Estimated exchange equalization on gold produced	...	2,190,521	...	3,567,871
Total Value--Canadian funds .....	...	5,006,893	...	8,715,385
Yukon -				
In alluvial gold	45,283	936,083	47,679	985,612
In ores exported	3	62	66	1,364
Total	45,286	936,145	47,745	986,976
Estimated exchange equalization on gold produced	...	728,115	...	684,099
Total Value--Canadian Funds .....	...	1,664,260	...	1,671,075

Table 1 - PRODUCTION OF NEW GOLD IN CANADA, BY PROVINCES AND SOURCES, 1946 and 1947 (Concluded)

	1946		1947	
	Fine troy ounces	\$	Fine troy ounces	\$
Northwest Territories -				
In ores, etc., shipped, and in placer .....	...	...	26	537
In gold bullion produced	23,420	484,134	62,491	1,291,804
Total	23,420	484,134	62,517	1,292,341
Estimated exchange equalization on gold produced .....	...	376,551	...	895,754
Total Value--Canadian Funds .....	...	860,685	...	2,188,095
TOTAL FOR CANADA	2,832,554	58,554,086	3,070,221	63,467,099
Total Estimated Exchange Equalization on Gold Produced .....	...	45,542,273	...	43,990,636
GRAND TOTAL VALUE, INCLUDING EXCHANGE .....	...	104,096,359	...	107,457,735

Note: The estimated average price of a troy ounce of fine gold in Canadian funds was \$36.75 in 1946 and \$35.00 in 1947.

- (a) Includes production of Larder Lake area.
 (b) Includes a considerable quantity of gold recovered from gold ores.
 (c) Includes certain quantities of gold contained in slags, ores, etc., shipped to Canadian and foreign smelters.

Table 2 - PRODUCTION OF GOLD FROM AURIFEROUS QUARTZ AND BASE METAL MINES, BY MONTHS, 1946 and 1947

Month	Gold production from base metal mines		Gold production from auriferous quartz mines and placer deposits	
	1946	1947	1946	1947
	(fine ounces)			
January	39,241	16,430	199,261	217,764
February	38,168	14,797	191,320	208,274
March	43,099	26,849	205,209	237,084
April	40,880	23,847	197,724	231,104
May	36,321	28,351	204,381	240,624
June	27,347	29,508	207,156	239,655
July	36,110	26,310	203,473	235,151
August	33,358	28,092	197,793	232,862
September	31,708	26,458	198,258	221,245
October	31,814	27,325	209,189	231,503
November	28,120	23,427	203,185	228,808
December	15,523	25,723	213,916	249,030
TOTAL	401,689	297,117	2,430,865	2,773,104

Table 3 - TOTAL (CUMULATIVE) RECORDED PRODUCTION IN CANADA OF SPECIFIED METALS TO DECEMBER 31, 1947

	Since	Unit of measure	Quantity	Value
				\$
Gold	1858	fine ounces	100,897,256	2,999,766,065
Silver	1887	fine ounces	918,910,952	520,145,024
Copper	1886	tons	5,508,478	1,334,677,191
Nickel	1889	tons	2,428,265	1,314,809,936
Lead	1887	tons	4,795,614	453,876,402
Zinc	1898	...	...	597,283,797
Cobalt	1904	tons	17,586	34,762,802

was 43,519 used for Placer gold 1947?

2773
54
2719

Table 4 - PRODUCTION OF GOLD AND SILVER IN CANADA BY PRINCIPAL MINES, 1947

Property and Province	Ore hoisted tons	Material sorted (discarded) tons	Ore treated tons	Gold produced fine oz.	Silver produced fine oz.	Mill capacity 24 hours tons	See foot- notes
Nova Scotia -							
Consolidated Mining & Smelting Co. of Canada Ltd.	1,664	...	1,664	844	83	40	(a)
Total Nova Scotia				1,271	97		(g)
Quebec -							
Belleterre Quebec Mines Limited	129,152	8,889	120,128	46,048	3,855	350	(c)
Canadian Malartic Gold Mines Limited	335,317	...	335,317	35,380	28,893	1,000	(c)
Consolidated Beattie Mines Limited ..	236,670	...	244,300	31,997	2,887	1,800	(c)
Consolidated Central Cadillac	45,717	907	45,577	5,722	905	400	(c)
East Malartic Mines Limited	240,438	...	240,438	33,335	8,658	1,500	(c)
Elder Mines Limited	60,803	...	...	8,695	...	...	(b)
Francoeur Gold Mines Limited	12,888	...	12,888	1,737	354	150	(c)
Lamaque Mining Co. Limited	209,495	...	209,495	50,855	8,540	1,200	(c)
Louvicourt Goldfield	78,367	...	79,834	7,982	2,080	400	(c)
Malartic Goldfields Ltd.	200,334	...	200,334	37,543	1,684	750	(c)
Mic Mac Mines Ltd.	40,584	...	40,917	8,109	2,474	600	(c)
New Marlon	22,365	705	21,378	4,055	774	175	(c)
O'Brien Gold Mines Limited	52,227	...	52,267	22,981	1,471	190	(a)(c)
Perron Gold Mines Limited	102,110	...	101,509	18,672	1,440	...	...
Powell Rouyn Gold Mines Limited	82,174	...	...	9,426	...	...	(b)
Senator-Rouyn Limited	108,861	...	108,861	15,504	1,546	300	(c)
Sigma Mines (Quebec) Limited	356,962	...	356,962	59,910	11,515	1,100	(c)
Siscoe Gold Mines Limited	71,262	...	71,262	21,556	2,405	270	(a)(c)
Sladen-Malartic Mines Limited	216,309	...	216,421	18,773	14,205	700	(c)
Stadacona Rouyn Mines Limited	134,070	...	134,070	23,906	5,795	500	(c)
Sullivan Consolidated	131,008	20,721	110,287	24,882	8,075	500	(c)
Total Principal Gold Mines				487,068	107,556		
Copper-gold-silver and other ores ...				111,059	2,026,633		
Total Quebec				598,127	2,134,189		
Ontario -							
Porcupine District							
Aumour Gold Mines Ltd.	172,489	...	172,489	58,211	4,667	300	(c)
Bonetal Gold Mines Ltd.	39,095	956	38,139	4,268	427	...	(d)
Broulan Porcupine Mines Ltd.	91,999	8,360	83,639	14,650	1,665	350	(c)
Buffalo Ankerite Gold Mines Ltd.	210,578	533	210,045	36,640	2,969	1,200	(c)
Coniaurum Mines Ltd.	116,220	...	116,220	27,987	5,296	500	(c)
Delnite Mines Ltd.	102,125	...	101,927	28,519	2,189	520	(c)
Dome Mines Ltd.	595,200	...	595,200	159,384	32,552	1,700	(a)(c)
Hallnor Mines Ltd.	122,272	...	112,272	41,985	3,055	400	(c)
Hollinger Cons. Gold Mines Ltd. (Timmins)	1,022,058	...	1,021,955	241,241	42,162	3,900	(c)
(Ross)	65,472	...	65,397	12,633	36,213	300	(c)
Hoyle Mining Co. Limited	107,406	2,907	104,499	10,614	...	...	(e)
McIntyre Porcupine Mines Ltd.	633,819	...	630,270	187,211	53,306	2,400	(c)
Pamour Porcupine Mines Ltd.	299,633	...	299,633	27,256	4,335	1,600	(c)

Table 4 - PRODUCTION OF GOLD AND SILVER IN CANADA BY PRINCIPAL MINES, 1947 (Continued)

Property and Province	Ore hoisted tons	Material sorted (discarded) tons	Ore treated tons	Gold produced fine oz.	Silver produced fine oz.	Mill capacity 24 hours tons	See foot- notes
<u>Ontario (Concluded)</u>							
<u>Porcupine District</u>							
Paymaster Cons. Mines Ltd.	118,623	...	138,085	33,186	11,385	600	(c)
Preston East Dome Mines Ltd.	226,345	...	225,812	52,032	6,350	800	(a)(c)
<u>Kirkland Lake District</u>							
Bidgood Kirkland Gold Mines Ltd.	30,799	...	30,669	11,760	1,950	125	(c)
Kirkland Golden Gate	6,288	...	6,228	1,209	263	125	(a)(c)
Kirkland Lake Gold Mining Co. Ltd. ..	91,171	...	91,171	46,042	3,323	400	(c)
Lake Shore Mines Ltd.	309,717	...	309,717	134,847	36,283	1,500	(c)
Macassa Mines Ltd.	97,507	...	97,507	39,319	7,036	400	(c)
Sylvanite Gold Mines Ltd.	151,146	...	151,140	41,231	9,792	600	(c)
The Teck-Hughes Gold Mines Ltd.	71,360	...	71,360	29,885	4,281	600	(c)
Toburn Gold Mines Ltd.	42,801	952	41,849	14,588	2,665	175	(c)
Upper Canada	109,556	...	109,556	34,479	11,494	325	(c)
Wright Hargreaves Mines Ltd.	183,059	...	183,059	85,576	17,593	1,200	(c)
<u>Larder Lake District</u>							
Chesterville Larder Lake Gold Mining Ltd.	295,408	...	295,408	34,109	1,782	900	(c)
Kerr-Addison Gold Mines Ltd.	779,753	...	780,153	150,039	7,732	1,800	(c)
Omega Gold Mines Ltd.	33,327	...	33,952	3,965	631	500	(c)
<u>Matachewan District</u>							
Hollinger Cons. Gold Mines Ltd. (Young-Davidson)	252,912	...	253,059	24,091	5,040	1,050	(c)
Matachewan Consolidated Mines Ltd. ..	250,504	...	250,504	28,084	11,833	1,000	(c)
<u>Thunder Bay District</u>							
Hard Rock Gold Mines Ltd.	131,828	33,010	98,818	19,280	420	450	(c)
Leitch Gold Mines Ltd.	37,782	9,327	30,417	24,216	850	90	(a)(c)
Little Long Lac Gold Mines Ltd.	93,584	15,368	78,216	21,263	1,840	300	(c)
MacLeod-Cockshutt Gold Mines Ltd. ...	276,176	68,916	207,260	43,327	869	650	(c)
Magnet Consolidated Mines Ltd.	22,224	...	22,224	8,654	996	150	(a)(c)
Maylac Gold Mines Ltd.	1,065	308	757	204	12	...	...
<u>Patricia District</u>							
Berens River Mines Ltd.	27,395	...	27,395	5,378	244,262	225	(f)
Central Patricia Gold Mines Ltd.	96,971	...	96,971	28,544	2,383	400	(c)
Cochonour Willans Gold Mines Ltd. ...	60,747	...	60,747	21,109	874	225	(a)(c)
Hasaga Gold Mines Ltd.	61,920	175	61,171	8,588	4,470	350	(a)(c)
Jason Mines Ltd.	18,532	...	18,532	5,700	562	125	(a)(c)
Madsen Red Lake Gold Mines Ltd.	142,136	...	142,136	32,293	7,754	400	(a)(c)
McKenzie Red Lake Gold Mines Ltd. ...	83,045	6,178	76,867	19,717	4,650	250	(c)
McMarnac Red Lake Gold Mines Ltd. ...	8,989	...	8,917	1,997	118	75	(a)(c)
Pickle Crow Gold Mines Ltd.	91,459	4,198	87,227	38,653	5,381	400	(a)(c)
Total Principal Gold Mines				1,893,964	603,710		
Nickel-copper and other mines				50,855	1,738,522		
Total Ontario				1,944,819	2,342,032		

Table 4 - PRODUCTION OF GOLD AND SILVER IN CANADA BY PRINCIPAL MINES, 1947 (Concluded)

Property and Province	Ore hoisted tons	Material sorted (discarded) tons	Ore treated tons	Gold produced fine oz.	Silver produced fine oz.	Mill capacity 24 hours tons	See foot- notes
Manitoba -							
San Antonio Gold Mines Ltd.	137,718	...	137,867	42,143	6,486	550	(a)(c)
Copper-gold-silver ores and other ..	...	...	...	30,763	417,879	...	
Total Manitoba				72,906	424,365		
Saskatchewan -							
Copper-gold-silver and alluvial ores	...	...	...	93,747	1,282,546	...	
Alberta -							
Placer gold .....	...	...	...	78	16	...	
British Columbia -							
Bralorne Mines Ltd.	136,838	3,791	133,047	61,912	16,531	500	(a)
Cariboo Gold Quartz Mining Co. Ltd.	88,623	...	88,623	20,126	1,710	375	(c)
Hedley Mascot Gold Mines Ltd.	29,151	...	29,151	10,736	1,995	225	(c)
Island Mountain Mines Co. Ltd.	41,197	...	41,197	17,721	2,252	150	(c)
Kelowna Exploration Co. Ltd.	102,597	...	102,597	36,589	2,379	300	(c)
Kenville Gold Mines Ltd.	4,404	1,518	2,886	245	89	125	(c)
Polaris-Taku Mining Co. Ltd.	92,039	...	92,039	22,714	...	280	(f)
Pioneer Gold Mines of B.C. Ltd.	44,696	3,392	41,304	19,332	3,560	400	(a)(c)
Privateer Mine Ltd.	23,244	9,043	14,201	11,509	5,648	90	(c)
Reno Gold Mines Ltd.	7,137	1,784	5,353	1,627	...	50	(f)
Sheep Creek Gold Mines Ltd.	29,821	...	29,821	8,246	2,355	150	(c)
Silbak Premier Mines Ltd.	59,343	...	59,343	12,232	67,917	500	(f)
Total Principal Gold Mines				222,989	104,206		
Placer gold .....	...	...	...	5,732	770	...	
Copper-gold and other ores .....	...	...	...	20,290	5,799,161	...	
Total British Columbia				249,011	5,903,367		
Yukon -							
Placers and other .....	...	...	...	47,745	372,051	...	
Northwest Territories -							
Negus Mines Ltd.	28,000	2,644	25,356	17,118	4,763	150	(a)(c)
Cons. Mining & Smelting Co. Ltd. ...	94,515	...	94,515	42,284	11,120	350	(a)(c)
Thompson-Lundmark	11,368	...	11,309	3,062	652	125	(c)
Total Northwest Territories				62,517	45,355		
TOTAL CANADA				3,070,221	12,504,018		

(a) Amalgamation process.

(b) Shipped to smelter.

(c) Cyanidation.

(d) Shipped to Broulan mill.

(e) Shipped to Pamour Porcupine.

(f) Flotation process, concentrates exported.

(g) Receipts at Royal Canadian Mint.

Table 5 - PRODUCTION OF NEW GOLD (*) BY PROVINCES AND TERRITORIES, 1938-1947

Year	Nova Scotia		Quebec		Ontario		Manitoba	
	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$
1938 ...	26,560	934,248	881,263	30,998,426	2,896,477	101,883,578	185,706	6,532,209
1939 ...	29,943	1,082,170	953,377	34,455,998	3,086,076	111,533,873	180,875	6,537,003
1940 ...	22,219	855,432	1,019,175	39,238,238	3,261,698	125,574,988	152,295	5,863,357
1941 ...	19,170	738,045	1,089,339	41,939,552	3,194,308	122,980,858	150,553	5,796,290
1942 ...	12,989	500,076	1,092,388	42,056,938	2,763,819	106,407,032	136,226	5,244,701
1943 ...	4,129	158,967	922,533	35,517,521	2,117,215	81,512,777	91,775	3,533,337
1944 ...	5,840	224,840	746,784	28,751,184	1,731,836	66,675,686	74,168	2,855,468
1945 ...	3,291	126,704	661,608	25,471,908	1,625,368	62,576,668	70,655	2,720,218
1946 ...	4,321	158,797	618,339	22,723,958	1,813,333	66,639,988	79,402	2,918,024
1947 ...	1,271	44,485	598,127	20,934,445	1,944,819	68,068,665	72,906	2,551,710
Year	Saskatchewan		British Columbia		Yukon		Northwest Territories	
	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$
1938 ...	50,021	1,759,489	605,617	21,302,578	72,368	2,545,544	6,800	239,190
1939 ...	77,120	2,787,194	626,970	22,659,323	87,745	3,171,192	51,914	1,876,224
1940 ...	102,925	3,962,613	617,011	23,754,924	80,458	3,097,633	55,159	2,123,621
1941 ...	138,015	5,313,578	608,203	23,415,816	70,959	2,731,922	74,417	2,865,054
1942 ...	178,871	6,886,533	474,339	18,262,052	83,246	3,204,971	99,394	3,826,669
1943 ...	174,090	6,702,465	241,346	9,291,821	41,160	1,584,660	59,032	2,272,732
1944 ...	122,782	4,727,107	196,857	7,578,994	23,818	916,993	20,775	799,838
1945 ...	108,568	4,179,868	186,854	7,193,879	31,721	1,221,258	8,655	333,210
1946 ...	112,101	4,119,712	136,242	5,006,893	45,286	1,664,260	23,420	860,685
1947 ...	93,747	3,281,145	249,011	8,715,385	47,745	1,671,075	62,517	2,188,095

(*) From all sources.

Table 6 - GOLD RECOVERED IN CANADA ACCORDING TO NATURE OF ORE, BY PROVINCES, 1943-1947

TABLE 6 - GOLD RESERVES IN CANADA ACCORDING TO NATURE OF ORE, BY PROVINCES, 1943-1944						
Year and Province	Placer gold	Auriferous quartz ores	Copper-gold- silver ores	Nickel- copper ores	Silver-lead and other ores	TOTAL
(Ounces)						
1943						
Nova Scotia .....	...	4,129	...	...	...	4,129
Quebec .....	...	625,429	284,112	...	12,992(*)	922,533
Ontario .....	...	2,061,376	1	55,776	62	2,117,215
Manitoba .....	...	62,254	29,521	...	...	91,775
Saskatchewan .....	...	4	174,086	...	...	174,090
Alberta	21	...	...	...	...	21
British Columbia	11,680	205,850	18,137	...	5,679	241,346
Northwest Territories	...	59,032	...	...	...	59,032
Yukon	41,157	...	...	...	3	41,160
TOTAL CANADA	52,858	3,018,074	505,857	55,776	18,736	3,651,301
1944						
Nova Scotia .....	...	5,840	...	...	...	5,840
Quebec .....	...	522,894	209,989	...	13,901(*)	746,784
Ontario .....	...	1,676,486	...	55,286	64	1,731,836
Manitoba .....	...	40,669	33,499	...	...	74,168
Saskatchewan	5	...	122,777	...	...	122,782
Alberta	51	...	...	...	...	51
British Columbia	9,402	169,132	14,852	...	3,471	196,857
Northwest Territories	...	20,775	...	...	...	20,775
Yukon	23,816	...	...	...	2	23,818
TOTAL CANADA	33,274	2,435,796	381,117	55,286	17,438	2,922,911

Table 6 - GOLD RECOVERED IN CANADA ACCORDING TO NATURE OF ORE, BY PROVINCES, 1943-1947 (Concluded)

Year and Province	Placer gold	Auriferous quartz ores	Copper-gold silver ores	Nickel- copper ores	Silver-lead and other ores	TOTAL
(Ounces)						
1945						
Nova Scotia .....	...	3,291	...	...	...	3,291
Quebec .....	...	434,784	212,146	...	14,678(*)	661,608
Ontario .....	...	1,532,715	44,544	48,109	...	1,625,368
Manitoba .....	...	38,326	32,329	...	...	70,655
Saskatchewan .....	...	...	108,568	...	...	108,568
Alberta	7	...	...	...	...	7
British Columbia	10,071	161,960	12,453	...	2,370	186,854
Northwest Territories	...	8,655	...	...	...	8,655
Yukon	31,721	...	...	...	...	31,721
TOTAL CANADA	41,799	2,179,731	410,040	48,109	17,048	2,696,727
1946						
Nova Scotia .....	...	4,321	...	...	...	4,321
Quebec .....	...	440,263	167,850	...	10,226(*)	618,339
Ontario .....	...	1,761,717	...	51,490	126	1,813,333
Manitoba .....	...	43,819	35,583	...	...	79,402
Saskatchewan	2	...	112,099	...	...	112,101
Alberta	110	...	...	...	...	110
British Columbia	15,530	108,944	7,287	...	4,481	136,242
Northwest Territories	...	23,420	...	...	...	23,420
Yukon	45,283	...	...	...	3	45,286
TOTAL CANADA	60,925	2,382,484	322,819	51,490	14,836	2,832,554
1947						
Nova Scotia .....	...	1,271	...	...	...	1,271
Quebec .....	...	488,547	102,488	...	7,092(*)	598,127
Ontario .....	...	1,901,096	...	43,672	51	1,944,819
Manitoba .....	...	42,325	30,581	...	...	72,906
Saskatchewan	4	...	93,743	...	...	93,747
Alberta	78	...	...	...	...	78
British Columbia	5,732	211,572	15,241	...	16,463	249,011
Northwest Territories	26	62,491	...	...	...	62,517
Yukon	47,679	...	...	...	66	47,745
TOTAL CANADA	53,519	2,707,302	242,053	43,672	23,675	3,070,221

(*) Contains a relatively small quantity of gold recovered from certain complex ores (lead, copper, etc.) which are difficult to classify.

Table 7 - CANADIAN GOLD PRODUCTION ACCORDING TO METHOD OF COMPUTATION AND RECOVERY, 1934-1947

Year	In alluvial gold %	In crude gold bullion produced at mines (a) %	In base bullion pro- duced at lead smelters %	In blister and anode copper produced (b) %	In ores, matte, slags, etc., exported %	TOTAL GOLD PRODUCED fine oz.
1934	2.0	78.7	1.1	13.4	4.8	2,972,074
1935	1.8	78.3	2.2	13.2	3.9	3,284,890
1936	2.2	77.4	1.6	13.8	5.0	3,748,028
1937	2.2	80.2	0.9	11.7	5.0	4,096,213
1938	2.5	80.8	0.9	11.2	4.5	4,725,117
1939	2.5	82.1	0.6	10.4	4.4	5,094,379
1940	2.1	82.7	0.6	10.0	4.6	5,311,145
1941	2.0	82.6	0.4	10.3	4.7	5,345,179
1942	2.3	80.8	0.2	12.1	4.6	4,841,306
1943	1.45	78.71	0.19	15.61	4.04	3,651,301
1944	1.14	78.98	0.12	15.41	4.35	2,922,911
1945	1.55	76.77	0.09	15.30	6.29	2,696,727
1946	2.15	80.91	0.16	13.48	3.30	2,832,554
1947	1.74	84.4	0.15	9.41	4.3	3,070,221

(a) Includes a relatively small quantity of gold contained in shipments of gold ores, slags, etc., to Canadian smelters. (b) Canadian blister copper is sometimes refined in the United States; also contains a relatively small quantity of gold recovered from auriferous quartz ores.

Table 8 - PRODUCTION OF GOLD IN CANADA, BY MONTHS (*), 1945-1947

Month	1945	1946	1947	Month	1945	1946	1947
	(fine ounces)				(fine ounces)		
January	237,210	238,502	234,194	July	213,815	239,583	261,461
February	215,993	229,488	223,071	August	215,386	231,151	260,954
March	232,610	248,308	263,933	September ...	215,157	229,966	247,703
April	227,575	238,604	254,951	October	233,487	241,003	258,828
May	221,288	240,702	268,975	November	224,542	231,305	252,235
June	215,802	234,503	269,163	December	243,862	229,439	274,753

(*) Compiled from monthly reports received from principal operators and the totals were adjusted to agree with the 12 months' total as compiled from final annual reports; production includes recoveries from all types of ore.

Table 9 - GOLD PRODUCTION OF THE WORLD (a) - (In Fine Ounces) - 1941, 1944 and 1947 (Taken from American Bureau of Metal Statistics)

Country	1941	1944	1947
North America -			
United States	5,980,746	1,001,865	2,320,531
Canada	5,345,179	2,922,911	3,069,476
Mexico	799,956	508,870	464,728
Newfoundland	21,194	18,329	14,600
Total North America	12,147,075	4,451,975	5,869,335
Central America and West Indies	330,000	275,000	250,000
South America -			
Brazil	235,343	178,300	134,000
Chile	263,827	203,749	168,900
Colombia	656,019	553,530	383,000
Ecuador	83,375	84,234	55,000
Peru	285,171	175,180	200,000
Guiana - British	36,046	18,986	30,000
Dutch	12,563	5,722	5,000
French	34,272	19,194	20,000
Venezuela	99,090	59,064	20,000
Other South America	36,000	25,000	20,000
Total South America	1,741,706	1,322,959	1,035,000
Europe	500,000	400,000	450,000
Oceania -			
New South Wales	88,091	62,610	50,082
Queensland	109,064	51,223	71,956
Victoria	149,769	54,086	84,709
Western Australia	1,109,313	466,265	703,886
Tasmania	19,908	16,653	15,051
New Guinea	235,000	...	58,000
New Zealand	174,656	142,287	110,000
Fiji	118,681	40,443	75,000
Other Oceania (c)	20,547	6,030	11,872
Asia -			
British India	285,945	188,200	175,000
Philippines	(e)	(e)	60,000
Saudi Arabia	28,123	8,683	50,000

Table 9 - GOLD PRODUCTION OF THE WORLD (a) - (In Fine Ounces) - 1941, 1944 and 1947 (Taken From American Bureau of Metal Statistics) - Concluded

Country	1941	1944	1947
Africa -			
Belgian Congo	559,185	364,195	308,000
French Equatorial Africa	88,590	74,104	63,100
Kenya	72,148	42,273	30,000
Madagascar	10,995	9,388	5,000
Rhodesia	793,843	593,038	522,966
British West Africa (b)	933,463	544,582	560,000
Tanganyika	141,550	55,148	47,300
Transvaal, Cape Colony and Natal	14,386,361	12,277,228	11,197,638
TOTALS FOR WORLD (d)	34,044,013	21,086,370	21,804,795

(a) In compiling this table, free use has been made of the reports of the United States Director of the Mint.

(b) Comprising Gold Coast, Sierra Leone and Nigeria.

(c) Includes Papua.

(d) Outside of Russia, Japan and Asiatic countries, except British India. Unknown production of U.S.S.R., Japan and other countries in Asia have been omitted. In 1941 these omissions accounted for about 6,700,000 ounces, and for subsequent years probably decreased to about 3,500,000 ounces. This will enable anyone to continue an estimational line of figures if it be desired to do so.

(e) Included in United States production.

Table 10 - GOLD PRODUCTION FOR THE WORLD SINCE THE DISCOVERY OF AMERICA

Year	Russia (a)	Transvaal since the commencement of fields(i)	United States (f) (a)	Canada since the recording of production in 1858	World since the discovery of America (a)
(fine ounces)					
1493-1600 .....	...	...	...	...	24,266,820
1601-1700 .....	...	...	...	...	29,330,445
1701-1800 .....	...	...	...	...	61,088,215
1801-1840 .....	...	...	...	...	20,488,552
1841-1850 .....	...	...	1,187,170(c)	...	17,605,018
1851-1860 .....	...	...	...	220,039	64,482,933
1861-1870 .....	...	...	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
1907 .....	...	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	(g)	9,107,512	4,520,719	611,885	22,605,068
1913	1,583,677	8,798,336	4,299,784	802,973	22,556,347
1914	1,733,914	8,394,322	4,572,976	773,178	21,652,883
1915	1,382,450	9,093,902	4,887,604	918,056	22,846,608
1916	1,089,885	9,296,618	4,479,057	930,492	22,032,542
1917	871,265	9,018,084	4,051,440	738,831	20,346,043
1918	554,558	8,418,292	3,320,784	699,681	18,588,127
1919	173,610	8,331,294	2,918,628	766,764	17,339,679
1920	73,945	8,158,226	2,476,166	765,007	16,146,830
1921	65,907	8,128,681	2,422,006	926,329	15,997,692
1922	191,614	7,009,767	2,363,075	1,263,364	15,496,859
1923	305,425	9,148,771	2,502,632	1,233,341	17,845,349
1924	546,550	9,574,918	2,528,900	1,525,382	18,619,481
1925	632,390	9,597,573	2,411,987	1,735,735	18,673,178
1926	760,605	9,954,782	2,335,042	1,754,228	19,117,568
1927	688,492	10,122,459	2,197,125	1,852,785	19,058,736
1928	385,800	10,354,157	2,233,251	1,890,592	18,885,849

Table 10 - GOLD PRODUCTION FOR THE WORLD SINCE THE DISCOVERY OF AMERICA (Concluded)

Year	Russia (a)	Transvaal since the commencement of fields(i)	United States (f) (a) (fine ounces)	Canada since the recording of production in 1858	World since the discovery of America (a)
1929	707,300	10,412,326	2,208,386	1,928,308	19,207,452
1930	1,501,083	10,716,349	2,285,603	2,102,068	20,903,736
1931	1,655,725	10,877,708	2,395,878	2,693,892	22,284,290
1932	1,938,000	11,557,858	2,449,032	3,044,387	24,098,676
1933	2,700,000	11,012,340	2,556,246	2,949,309	25,400,295
1934	3,858,000	10,479,194	3,091,183	2,972,074	27,372,374
1935	4,784,030	10,773,041	3,609,283	3,284,890	29,999,245
1936	6,500,000(h)	11,335,092	4,357,394	3,748,028	32,930,554
1937	5,900,000(h)	11,734,553	4,804,540	4,096,213	35,118,298
1938	5,800,000(h)	12,161,375	5,089,811	4,725,117	37,703,334
1939	5,000,000(h)	12,821,061	5,611,171	5,094,379	39,534,430
1940	4,000,000(h)	14,037,741	6,003,105(j)	5,311,145	41,067,101
1941	(b)	14,386,361	5,976,419(l)	5,345,179	40,332,204(k)
1942	(b)	14,120,617	3,741,806(n)	4,841,306	36,000,000(m)(k)
1943	(b)	12,800,021	1,394,522(q)	3,651,301	(o)
1944	(b)	12,277,228	1,002,238	2,922,911	(o)
1945	(b)	12,213,545	915,403(p)	2,696,727	(o)
1946	(b)	11,927,165	1,462,354	2,832,554	(o)
1947	(b)	11,197,638	2,320,531	3,070,221	(o)

(a) Supplied by United States Mint.

(b) Not available.

(c) 1792-1847.

(d) 1848-1872.

(e) 1873-1880.

(f) Including Philippine Islands production received in United States. Data represent receipts at United States Mint's refineries assay offices.

(g) Data not available for preceding years. A revision by the United States Mint of estimated Russian gold production for the years 1913 to 1934 was made from United States consular reports, based principally on Soviet publications. While available data are quite indefinite and, in many instances, contradictory, it is believed that this revision more nearly represents actual production than data heretofore used. Figures for Russian production since 1937 supplied by American Bureau of Metal Statistics.

(h) Subject to revision. American Bureau of Metal Statistics.

(i) Annual Report - Department of Mines, Union of South Africa. 1941 to 1944 figures, Transvaal Chamber of Mines.

(j) Includes 1,140,126 fine ounces received from Philippines.

(k) Includes conjectural data for Russia.

(l) Includes 1,144,332 fine ounces from Philippine Islands.

(m) The Mining Journal, London - subject to revision.

(n) Includes 158,726 ounces received from Philippine Islands.

(o) Omitted due to incomplete data.

(p) American Bureau of Metal Statistics - preliminary.

(q) Includes 13,764 ounces received from Philippine Islands.

Table 11 - AVERAGE COMMERCIAL RATIO OF SILVER TO GOLD FOR EACH SPECIFIED YEAR SINCE 1700
(Supplied by United States Mint)

Year	Year	Year
1700	14.81	1910
1750	14.55	1915
1800	15.68	1920
1850	15.70	1925
1875	16.64	1930
1880	18.05	1932
1885	19.41	1933
1890	19.75	1934
1895	31.60	1935
1900	33.33	1936
1905	33.87	1937
		1938
		1939
		1940
		1941
		1942
		1943
		1944
		1945
		1946

Table 12 - ESTIMATED AVERAGE MONTHLY VALUE OF AN OUNCE OF FINE GOLD, EXPRESSED IN CANADIAN FUNDS, 1933-1947

Month	1933	1934	1935	1936	1937	1938	1939	(1940) (1945)	1946	1947
(Dollars)										
January	23.64	33.05	34.95	35.06	35.01	34.99	35.30	38.50	38.50	35.00
February	24.74	35.29	35.05	35.18	35.01	35.00	35.19	38.50	38.50	35.00
March	24.78	35.08	35.40	35.11	34.98	35.05	35.13	38.50	38.50	35.00
April	25.33	34.93	35.18	35.13	34.95	35.15	35.15	38.50	38.50	35.00
May	27.75	34.94	34.95	35.00	34.94	35.22	35.13	38.50	38.50	35.00
June	28.24	34.73	35.05	35.09	35.02	35.36	35.07	38.50	38.50	35.00
July	30.58	34.59	35.08	34.91	35.05	35.24	35.06	38.50	35.35	35.00
August	30.09	34.19	35.09	35.00	35.00	35.12	35.01	38.50	35.00	35.00
September	31.79	34.18	35.28	34.99	35.00	35.12	37.21	38.50	35.00	35.00
October	31.48	34.27	35.49	34.99	34.99	35.32	38.43	38.50	35.00	35.00
November	32.68	34.16	35.37	34.95	34.98	35.25	38.50	38.50	35.00	35.00
December	32.14	34.57	35.33	34.98	34.93	35.28	38.50	38.50	35.00	35.00
YEARLY AVERAGE	28.60	34.50	35.19	35.03	34.99	35.17	36.14	38.50	36.75	35.00

Note: Procedure regarding the marketing of gold by the Department of Finance, Ottawa, is noted elsewhere in this report. At December 31, 1944 the price paid by the United States Treasury for gold purchased by the Mints continued at \$35 per troy ounce of fine gold, less $\frac{1}{4}$ of 1 per cent. Actual payment by the United States Treasury for gold in imported and domestic ore or concentrate was at 99.75 per cent of the price quoted by the Treasury which, at the close of 1944, was equal to \$34.9125 per ounce. The United States Senate Banking and Currency Committee, on March 14, 1945, rejected a proposal to increase the price of gold from \$35 an ounce to \$56. The Committee voted to reduce to 25 per cent the gold reserve requirements against Federal Reserve Bank deposits and notes.

Table 13 - PRECIOUS METALS CONSUMED BY THE JEWELLERY AND SILVERWARE INDUSTRY IN CANADA, 1945 and 1946

Material	Cost at Works	
	1945	1946
Fine gold	\$ 4,467,387	\$ 5,318,697
Gold alloys	775,026	856,206
Fine silver	2,449,548	4,317,761
Silver alloys	1,344,939	1,947,151
Platinum	360,655	696,405
Old gold, jewellers' findings, waste and scrap for refining	1,228,148	1,335,776
Gold-filled wire and stock	395,526	379,308
Precious and semi-precious stones	1,459,821	2,412,085

Table 14 - MONETARY STOCK OF PRINCIPAL COUNTRIES AT END OF 1946 (Report of U.S. Mint)
Gold and Silver Converted to United States Money (000's omitted)

Country	Name of unit	Average exchange rate December 1946 New York	Gold Stock	Monetary silver stock
United States	dollar	1.000	20,528,979	3,412,870
Canada	dollar	1.000	536,038	60,333
Mexico	peso	0.2058	180,615	96,732
British Honduras	dollar	1.000	...	202
Costa Rica	colon	0.1770	2,015	...
Dominican Republic	dollar	1.000	2,000	1,150
El Salvador	colon	0.4000	24,243	1,220
Guatemala	quetzal	1.000	28,734	2,502
Nicaragua	cordoba	0.2000	4,391	301
Bolivia	boliviano	0.0236	21,986	52
Brazil	cruzeiro	0.0541	354,328	...
Chile	peso	0.0516	64,706	...
Colombia	peso	0.5714	145,380	10,294
Ecuador	sucre	0.0665	21,455	...
Paraguay	guarani	0.3205	1,870	...
Peru	sol	0.1538	24,035	3,537
Uruguay	peso	0.6583	199,583	11,961
Venezuela	bolivar	0.2985	226,711	38,898

Table 14 - MONETARY STOCK OF PRINCIPAL COUNTRIES AT END OF 1946 (Report of U.S. Mint)
Gold and Silver Converted to United States Money (000's omitted) - Concluded

Country	Name of unit	Average exchange rate December 1946 New York	Gold Stock	Monetary silver stock
Austria	schilling	...	14	...
Belgium	franc	0.0228	734,590	...
Denmark	krone	0.2087	37,354	...
Eire	pound	4.0294	15,919	10,009
Finland	markka	...	76	...
France	franc	0.0084	796,064	...
Greece	drachma	...	...	...
Hungary	forint	...	24,195	...
Netherlands	florin	0.3779	264,255	139,714
Roumania	leu	...	...	...
Spain	peseta	0.0913	110,830	47,069
Sweden	krona	0.2782	380,899	48,278
Ceylon	rupee	0.3015	...	...
Iraq	dinar	4.0294	...	4,391
Japan	yen	...	...	...
Korea	won	...	...	...
Palestine and Transjordan	pound	4.0294	...	7,295
Algeria	franc	0.0084	1,805	...
Ethiopia.....	dollar	0.4015	...	5,626
Portuguese East Africa	escudo	0.0400	5,016	939
Portuguese West Africa	angolar	0.0400	...	...
Rhodesia	pound	4.0294	15	9,690
Union of South Africa	pound	4.0050	941,109	31,064
Fiji	pound	3.6301	...	930
New Zealand	pound	3.2236	23,087	12,862

TREND IN EMPLOYMENT, 1947

Mining

The employment afforded larger mining operators was at a slightly higher level in 1947 than in 1946. The annual index also exceeded those indicated in 1945 and 1944, but was otherwise the lowest since 1938. At 158.1, the latest figure was 1.9 per cent above that of 155.2 a year earlier. As in 1946, there were considerable losses in 1947 due to disputes in the mining division, those in the latter year taking place mainly in the coal fields.

As compared with 1946, there was a rise of 10.8 per cent in the index number of payrolls, bringing the figure for 1947 to the highest in the record. The average weekly earnings of persons employed by 641 leading mine operators stood at \$43.03, as compared with \$39.21 in 1946, \$38.60 in 1945, \$38.05 in 1944, \$36.09 in 1943, and \$34.81 in 1942; the comparable 1939 figure was \$28.68. During 1947, the earnings of the wage-earners for whom monthly statistics of man-hours were furnished averaged 98 cents, as compared with 87.3 cents in 1946, and 85 cents in 1945.

Coal Mining - Largely as a result of prolonged labour-management disputes in 1947, employment in coal mining showed a falling-off, the index number declining from 94.8 in the preceding year to 78.0 in the 12 months under review. The index of payrolls showed a reduction of 12.7 per cent from 1946, accompanying the loss of 17.7 per cent in that of employment. The per capita weekly earnings, however, were higher, at \$41.61, as compared with \$39.03 in 1946, \$38.19 in 1945, \$36.95 in 1944, \$33.18 in 1943 and \$31.09 in 1942. In 1939, the weekly figure was \$22.16.

The average hourly rate indicated in 1947 was 110.4 cents, as compared with 95.9 cents and 93.8 cents in 1946 and 1945, respectively. The average hours of work fell from 40.2 in both 1945 and 1946, to 36.9 in the year under review, when as already indicated, the situation was seriously affected by strikes. The man-days of work lost in coal mining as a result of industrial disputes totalled 1,314,334, as compared with 43,854 in 1946, and 183,102 in 1945.

Metallic Ores - The volume of employment in the larger metal mining industries during 1947 was greater than in preceding years since 1943, while the index number of payrolls was higher than in any earlier period for which data are available. The weekly salaries and wages of the employees reported averaged \$46.25. As compared with 1946, there were advances of 11.2 per cent and 23.2 per cent in the index numbers of employment and payrolls, respectively, while the per capita figure showed an increase of 11.1 per cent over that of \$41.63 in 1946. The previous annual average weekly earnings were: 1945, \$41.02; 1944, \$40.68; 1943, \$39.70, and 1942, \$38.60. The comparable figure in 1939 was \$33.46. The weekly hours worked by the wage-earners for whom data on man-hours were available in 1947 averaged 44.4, as compared with 45.1 and 45.8 in 1946 and 1945, respectively. The latest hourly rate was 99.4 cents, as compared with 87.4 cents in 1946 and 85 cents a year earlier.

Non-metallic Minerals other than Coal - Further improvement was indicated during the period under review in the extraction of miscellaneous non-metallic minerals, associated with continued activity in construction work. The 1947 index of employment was 215.4, a figure of 17.2 per cent higher than the 1946 index, previously the maximum. In the 12 months, the index of payrolls rose by 23.5 per cent, also to the highest point on record. The salaries and wages disbursed by the 165 reporting employers represented a weekly average of \$36.88 per person in recorded employment. In 1946, 1945, 1944, 1943 and 1942, the per capita figures were \$32.77, \$32.64, \$32.34, \$30.84 and \$28.51, respectively. The comparable figure in 1939 was \$24.17.

LEGISLATION AND TAXATION

(from the Annual Review by the Bureau of Mines, Ottawa)

The Minister of Finance on March 4, 1947, announced certain tax concessions applicable to gold mines, defining gold mines as those mines where the value of output was to the extent of 70 per cent or more from gold. These concessions are briefly as follows:

1. The depletion allowance for gold mines was increased from 33 1/3 per cent to 40 per cent of the net profits. This allowance was made applicable as from January 1, 1947.

Where the depletion allowances on gold mines as calculated on the percentage-of-net-profits basis amounted to less than \$4.00 per ounce of gold produced in fiscal periods ending after June 30, 1946, it was provided that the depletion allowance would be at the rate of \$4.00 per ounce of gold produced, and that the amount so calculated would be recognized as an expense for all purposes of the Income War Tax Act.

2. In the case of new gold mines exempt for three years from income taxation under Section 4(x), Income War Tax Act, provision was made that depreciation shall not require to be written off during the period of exemption, but may, during or following that period, be written off at a rate not exceeding 25 per cent per year. Provision was also made that pre-production expenses shall not be required to be written off during the exempt period, but shall be written off in the four years following such exempt period at a rate not exceeding 25 per cent per year.

On December 11, 1947, the Minister of Finance announced that a proposal would be placed before Parliament whereby the Government, through the Department of Mines and Resources, would undertake to make payments to gold mines to assist in defraying part of the increased costs of production on production after December 1, 1947, for a term of three years. This payment would be determined by taking half of the amount by which the mine's cost of gold production per fine ounce exceeds \$18.00 and applying this to the amount by which production in the assistance year exceeds two-thirds of the production in the base year, that is, the twelve months ended June 30, 1947. In the case of new mines, the payment as described above would be made on the entire production in the first year, and in the two succeeding years, on the amount by which current production exceeds two-thirds of the first year's production. This assistance would apply in the case of gold produced after December 1, 1947.

Recurring rumours persisted in Canada, the United Kingdom, and the United States to the effect that the United States Treasury was considering changing its price or bid for an ounce of gold. These were emphatically denied by the Treasury Department who pointed out that the Bretton Woods Agreement makes it impossible for the United States or any other member nation to alter its currency in terms of gold without consultation with, and consent of, the International Monetary Fund.

All the gold produced in Canada must be sold to the Royal Canadian Mint on the basis of \$35.00 an ounce, and all the gold produced in the United States must be sold to the Treasury at the fixed price.

United States smelters and refiners of gold obtained from foreign concentrates were permitted for a time to re-export such gold in the free market. According to market authorities, American smelters obtained the equivalent of \$39.00 to \$42.00 an ounce from the gold derived from the refining of concentrates of gold mines in British Columbia. However, amendments to the gold regulations issued under the Gold Reserve Act of 1934 were adopted at the request of the International Monetary Fund, and came into effect on November 24, 1947. The amended regulations permit the export of gold refined from imported gold-bearing ores or concentrates only when the refiners in the United States do not participate in the sale of the refined gold. Foreign gold in ores or concentrates may be imported into the United States for refining and refined gold re-exported where ownership remains with the foreign producer.

THE ALLUVIAL GOLD MINING INDUSTRY, 1947

By far the major portion of alluvial gold was produced in the Yukon and British Columbia; relatively small quantities were obtained in Alberta and the Northwest Territories.

In 1947 there were 53,519 troy ounces of fine gold recovered from crude gold obtained in Canadian alluvial deposits. This is a decreased production of 11 per cent from the preceding year. Reviewing the past twenty years, it is noted that the peak of production of placer gold occurred in 1939, and lowest annual output was in 1944.

No placer gold mining operations were reported for 1946 from the eastern provinces, including Quebec and Ontario.

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

British Columbia - It has been found impractical to obtain complete reports for each individual placer mining operation in British Columbia inasmuch as a considerable quantity of the crude placer gold is recovered annually by prospectors of no fixed abode who, in many instances, market their recoveries through local merchants and banks. Recoveries in 1947 were made chiefly from deposits located in the Atlin and Cariboo districts.

Yukon - About 90 per cent of the placer gold recovered in Canada during 1947 was found in the creeks of the Yukon.

Table 15 - SUMMARY STATISTICS OF ALLUVIAL GOLD MINING IN CANADA, 1946 and 1947

	1946			1947		
	British Columbia	Yukon	Alberta and Saskat- chewan(a)	British Columbia	Yukon	Alberta, Saskatchewan and Northwest Territories(a)
Number of firms and individual operators (d)	29	3	...	41	5	...
Number of employees	94	246	...	64	394	...
Salaries and wages paid \$	206,293	906,691	...	141,979	1,542,470	...
Electricity generated for own use .....k.w.h.	...	22,401,700	...	25,000	28,330,800	...
Electricity generated for sale .....	...	6,366,700	...	...	5,934,500	...
Crude gold recovered: crude ounces (c)	11,812	50,243	136	4,675	47,679	108
Quantity of material handled: cu.yd.	428,603	5,917,740	...	...	7,054,753	...
Length of ditches .. Miles (b)	23	48	...	15	48	...
Total gross value of alluvial products \$	367,122	1,474,231	4,079	200,620	1,668,765	3,780
Fuel and electricity used (purchased) \$	18,411	65,795	...	15,525	124,073	...
Process supplies used \$	26,879	19,991	...	59,981	18,900	...
Cost of freight and express on dust, nuggets, bullion, etc. shipped (c) \$	2,012	8,733	...	817	17,988	...
Cost of smelter, refinery and mint treatment on material shipped (c) \$	2,745	11,377	...	199	598	...
Total net value of alluvial products \$	317,075	1,368,335	4,079	124,100	1,507,206	3,780

(a) Represents receipts of fine gold at Dominion Assay Office, Vancouver, B.C. or Royal Canadian Mint, Ottawa. (b) Includes flume in use. (c) Information not completely available. (d) In addition to the number shown in the table, there were numerous small operators from whom returns were not obtainable.

Table 16 - ALLUVIAL GOLD RECOVERED AND QUANTITY OF MATERIAL HANDLED (b), 1928-1947

Year	British Columbia				Yukon				Average value gold per fine ounce
	Material handled	Gold	Ounces	Value	Material handled	Gold	Ounces	Value	
	(c)	recovered	per	per	(c)	recovered	per	per	
	cu.yd.	fine oz.	cu.yd.	cu.yd.	cu.yd.	fine oz.	fine oz.	cu.yd.	
1928 ...	1,188,667	6,739	0.0057	0.1178	5,097,182	34,116	0.0067	0.1385	20.67
1929 ...	1,336,390	5,158	0.0039	0.0806	4,500,000	35,678	0.0079	0.1633	20.67
1930 ...	224,339	7,164	0.0319	0.6593	3,559,642	35,160	0.0099	0.2046	20.67
1931 ...	1,587,271	13,741	0.0086	0.1853	4,914,638	44,061	0.0090	0.1939	21.55
1932 ...	1,053,677	16,320	0.0155	0.3637	6,051,256	40,373	0.0067	0.1572	23.47
1933 ...	1,326,721	19,142	0.0144	0.4118	5,605,522	39,174	0.0070	0.2002	28.60
1934 ...	2,034,522	20,145	0.0099	0.3415	6,315,070	38,703	0.0061	0.2104	34.50
1935 ...	1,855,937	24,744	0.0133	0.4680	5,442,861	35,705	0.0066	0.2322	35.19
1936 ...	1,083,934	34,711	0.0166	0.5815	8,067,159	50,192	0.0062	0.2172	35.03
1937 ...	3,472,025	43,322	0.0125	0.4373	8,298,514	46,679	0.0056	0.1959	34.99
1938 ...	4,138,746	46,207	0.0112	0.3939	8,870,628	71,303	0.0080	0.2813	35.17
1939 ...	4,779,407	39,797	0.0083	0.2999	11,152,198	85,572	0.0077	0.2782	36.14
1940 ...	6,680,457	32,128	0.0048	0.1848	11,551,170	79,905	0.0069	0.2656	38.50
1941 ...	4,587,103	35,020	0.0076	0.2926	8,792,220	70,847	0.0081	0.3119	38.50
1942 ...	1,884,887	26,323	0.0139	0.5352	11,875,833	83,198(a)	0.0070	0.2695	38.50
1943 ...	754,202	11,680	0.0156	0.6006	8,028,117	41,157(a)	0.0051	0.1964	38.50
1944 ...	531,737	9,402	0.0177	0.6815	4,687,174	23,816(a)	0.0050	0.1956	38.50
1945 ...	263,527	10,071	0.0382	1.4707	2,981,599	31,721(a)	0.0106	0.4081	38.50
1946 ...	428,603	15,530	0.0362	1.3303	5,917,740	45,283(a)	0.0076	0.2793	36.75
1947 ...	478,667	5,732	0.0120	0.4191	7,054,753	47,679(a)	0.0067	0.2365	35.00

(a) Fine gold received at Royal Canadian Mint (Vancouver Assay Office); previous year's figures represent estimated fine gold in crude gold recovered.

(b) In addition, relatively small amounts of alluvial gold have been recovered in Quebec, Saskatchewan and Alberta but complete data are not available; also, data relating to material handled, particularly those pertaining to small operations, are not complete and necessitate estimates in order to obtain totals.

(c) Data partly conjectural and include some overburden and barren material.

Table 17 - FUEL AND ELECTRICITY USED BY THE ALLUVIAL GOLD MINING INDUSTRY DURING 1947

Kind	Unit of Measure	Quantity	Cost at Plant
\$			
Bituminous coal -			
From Canadian mines	short ton	14	1,314
Gasoline	Imp.gal.	56,797	32,488
Kerosene or coal oil	Imp.gal.	741	590
Fuel oil and diesel oil	Imp.gal.	185,554	78,275
Wood (cords of 128 cubic feet of piled wood)	cord	1,594	26,881
Other fuel .....	...	...	48
TOTAL .....	...	...	139,596
Electricity generated - (a) For own use	K.W.H.	28,355,800	...
(b) For sale	K.W.H.	5,934,500	29,212

Table 18 - POWER EQUIPMENT INSTALLATION, 1947

Description	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power	Number of units	Total horse power
Steam engines .....	...	...	...	...
Steam turbines .....	...	...	...	...
Diesel engines	14	1,515	5	185
Gasoline, gas and oil engines, other than Diesel engines	17	357	7	79
Hydraulic turbines or water wheels	6	15,650	2	50
TOTAL	37	17,522	14	314
Electric motors operated by power generated by the establishment	86	3,840	264	1,670
Stationary power boilers .....	...	...	...	...
Motor-generator sets	8	234	...	...

THE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA

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 the 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 very considerable proportion. The second great source of gold in Canada has been the Western or Cordilleran section, comprising British Columbia and Yukon Territory--the gold production from this section includes relatively large quantities obtained from alluvial deposits. The third principal area in which gold deposits occur is the Acadian region of Eastern Canada, the metal occurring principally in Nova Scotia where it has been mined since 1862.

Lode gold deposits, like most metalliferous ore deposits, are very closely linked in origin and place with geological formations of certain ages and types. In broad outline these relationships are known and easily understood, but because geological information is very incomplete for Canada--less than a fifth of Canada has been studied in any adequate manner--it is not yet possible to indicate the location of more than a part of the ground that is favourable for the occurrence of metallic ore deposits.

Geological explorations extending far beyond ground that has been geologically mapped provide general information and permits the delineation of broad features relating to ore deposition. In mapped areas much more detailed information of like type is available. Knowledge of the relationship between geology and ore deposition is of the greatest importance because it guides the search for new deposits.

Canada is divisible broadly into four large regions, each having its own characteristic stratigraphy and structure. These are from west to east: (1) the Cordilleran region embracing most of British Columbia and Yukon, (2) the Plains region forming a broad belt east of the Cordillera, (3) the Canadian Shield extending east to the St. Lawrence and (4) the Appalachian region embracing southeastern Quebec and the Maritime Provinces. A description of these regions, by George Hanson, Ph.D., Chief Geologist of the Geological Survey, Ottawa, appeared in the Dominion Bureau of Statistics' Gold Mining Report for 1943.

In 1947 there were 517 active auriferous quartz mines compared with 684 in 1946. The number of producing properties totalled 104 during the year under review, as against 88 in the preceding year.

The gross value of output of the entire auriferous quartz mining industry, including the value of all recoverable metals, gold, silver, etc., totalled \$96,126,278 in 1947 compared with \$88,422,683 in 1946. The major producing provinces were Ontario with \$66,962,574, Quebec with \$17,264,111, and British Columbia with \$8,184,566.

Employees in the lode gold mining industry totalled 22,906 compared with 21,973 in 1946. Salaries and wages paid amounted to \$54,612,474 as against \$47,211,062 in the preceding year. Fuel and electricity consumed in 1947 totalled \$7,129,659 and the cost of explosives, drill steel and other process supplies used amounted to \$17,850,966. The Canadian gold mining companies paid \$5,253,591 in taxes and spent \$4,184,309 in prospecting and preliminary exploration of new areas or deposits.

Table 19 - PRINCIPAL STATISTICS OF THE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA, 1946 and 1947

	Number of active opera- tors	No. of operat- ing plants or mines (b)	Number of em- ployees	Salaries and wages	Cost of fuel and electrici- ty	Cost of process supplies used (a)	Amount of freight, etc. paid on ship- ments of ore, slag, etc.	Smelter and refinery treatment costs	Gross value of bullion ore, concen- trates or residues shipped from mines (c)	Net value of bullion, ore, concentrates or residues shipped from mines (c)
				\$	\$	\$	\$	\$	\$	\$
1946										
Nova Scotia.	4	4	72	106,018	24,943	27,082	274	938	151,538	98,301
Quebec	405	405	5,409	11,774,895	1,826,256	2,893,785	63,507	341,786	16,363,386	11,238,052
Ontario	166	167	14,050	29,864,349	3,669,993	9,503,694	121,664	586,350	65,297,233	51,415,532
Manitoba ...	16	16	419	897,713	150,072	199,919	3,457	15,368	1,609,198	1,240,382
Saskatchewan	2	2	3	1,440	...	...	...	...	...	...
British Columbia..	45	46	1,532	3,290,245	392,070	1,573,076	109,021	161,820	4,176,664	1,940,677
Northwest Territories	46	46	488	1,276,402	196,542	204,348	7,884	6,682	824,664	409,208
Yukon .....	...	...	...	...	...	...	...	...	...	...
CANADA ...	684	686	21,973	47,211,062(d)	6,259,876	14,401,904	305,807	1,112,944	88,422,683	66,342,152
1947										
Nova Scotia.	3	3	14	21,261	3,883	100	1,597	1,031	29,990	23,379
Quebec	258	258	4,855	11,413,084	1,906,315	3,385,331	72,985	197,354	17,264,111	11,702,126
Ontario	153	154	14,574	34,478,742	4,019,260	11,706,846	103,372	439,498	66,962,574	50,693,598
Manitoba ...	22	22	601	1,497,783	218,931	277,124	3,676	12,034	1,486,035	974,270
Saskatchewan	...	...	...	...	...	...	...	...	...	...
British Columbia..	40	40	2,020	4,720,450	540,792	2,054,829	276,217	281,518	8,184,566	5,031,210
Northwest Territories	39	39	830	2,441,859	435,393	361,995	11,722	16,699	2,199,002	1,373,193
Yukon	1	1	12	39,295	5,085	64,741	...	...	...	-69,826
CANADA ...	516	517	22,906	54,612,474	7,129,659	17,850,966	469,569	948,134	96,126,278	69,727,950

(a) Explosives, chemicals, etc.

(b) Producing mines: 1946--88; 1947--104.

(c) Value of bullion produced plus value of ore, concentrates, etc., shipped.

(d) Includes in salaries \$7,243,424 for 1946 and \$7,606,569 for 1947.

Table 20 - PRINCIPAL STATISTICS RELATING TO PRODUCERS ONLY IN THE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA, 1947

Province	Number of producing plants or mines	Number of employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies used (a)	Value of freight paid on shipments of ore, slag, etc.	Smelter and refinery treatment costs (b)	Gross value of bullion, ore, concentrates or residues shipped from mines (c)	Net value of bullion, ore, concentrates or residues shipped from mines (c)
			\$	\$	\$	\$	\$	\$	\$
Nova Scotia	3	14	21,261	3,883	100	1,597	1,031	29,990	23,379
Quebec	24	3,915	9,209,201	1,567,172	2,873,910	72,985	197,354	17,264,111	12,552,690
Ontario	51	13,749	32,427,581	3,781,387	11,391,833	103,372	439,498	66,962,574	51,246,484
Manitoba	3	219	526,719	113,894	164,756	3,676	12,034	1,486,035	1,191,675
Saskatchewan .....	...	...	...	...	...	...	...	...	...
British Columbia	19	1,889	4,406,005	518,511	1,936,317	276,217	281,518	8,184,566	5,172,003
Northwest Territories	4	443	1,291,225	236,754	210,806	11,722	16,699	2,199,002	1,723,021
Yukon .....	...	...	...	...	...	...	...	...	...
TOTAL CANADA, 1947..	104	20,229	47,881,992	6,221,601	16,577,722	469,569	948,134	96,126,278	71,909,252
Total Canada 1946 ...	88	18,790	40,353,652	5,596,595	13,560,586	305,807	1,112,944	88,422,683	67,846,751
Total Canada 1945 ...	83	16,382	34,556,530	5,159,813	10,953,744	348,852	1,391,138	85,819,315	67,965,768
Total Canada 1944 ...	85	16,657	36,153,991	5,850,906	11,119,240	373,074	1,586,095	94,263,416	75,334,101
Total Canada 1943 ...	135	18,933	40,485,008	6,385,147	12,762,116	453,720	1,620,898	116,833,847	95,611,966
Total Canada 1942 ...	184	25,814	54,033,613	7,570,656	17,880,267	741,329	2,346,264	160,564,783	132,026,267
Total Canada 1941 ...	255	31,850	61,063,035	8,336,180	20,721,498	916,323	2,678,508	179,103,182	146,450,673

(a) Explosives, etc.

(b) Includes handling charges.

(c) Value of bullion produced plus value of ore, concentrates, etc., shipped.

Table 21 - ORES MINED AND MILLED, CRUDE BULLION RECOVERED AND CRUDE BULLION AND CONCENTRATES SHIPPED IN THE AURIFEROUS QUARTZ MINING INDUSTRY, 1947

		Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories and Yukon	CANADA
Number of producing mines		3	24	51	3	19	4	104
Ore mined	ton	1,724	2,873,818	7,823,580	138,588	661,248	153,883	11,632,841
Material discarded (sorted) ...	ton	50	31,222	151,388	418	19,528	2,644	205,250
Ore milled (ground, etc.)	ton	1,674	2,707,950	7,676,178	138,188	641,440	131,180	11,296,610
Tailings re-treated	ton	...	...	1,376	...	...	...	1,372
Gold content of ores, slags, residues and concentrates shipped -								
To foreign smelters	fine oz.	...	...	5,378	...	97,174	...	102,552
To Canadian smelters	fine oz.	108	24,076	1,613	...	478	...	26,275
Bullion bars shipped -								
Gold content	fine oz.	748	483,951	1,784,192	42,325	126,303	59,402	2,496,921
Silver content	fine oz.	30	109,391	435,037	6,486	25,392	15,883	592,219
Bullion produced by amalgama- tion	crude oz.	805	14,054	226,992	5,388	65,009	16,350	328,598
Bullion produced by cyanidation	crude oz.	...	590,279	2,145,871	55,895	162,507	65,159	3,019,711
Total Bullion Produced	crude oz.	805	604,333	2,372,863	61,283	227,516	81,509	3,348,309
Content of bullion bars pro- duced: Gold	fine oz.	748	465,147	1,893,575	42,325	126,303	62,491	2,590,589
Silver	fine oz.	30	103,974	340,765	6,486	25,392	16,535	493,182
Gold value (standard)	\$	15,454	9,615,442	39,143,788	874,943	2,620,884	1,291,809	53,562,320
Silver value	\$	22	74,861	235,505	4,647	18,204	11,829	345,068
Exchange premium on bullion bars produced	\$	10,696	6,664,703	27,131,805	606,445	1,799,540	895,364	37,108,553
Value of ores, concentrates, slags and residues sold (shipped)	\$	3,818	909,105	451,476	...	3,745,938	...	5,110,337
Total Gross Value of Production	\$	29,990	17,264,111	66,962,574	1,486,035	8,184,566	2,199,002	96,126,278
Value of fuel, electricity and process supplies used, also freight on shipments, market- ing, smelter and refinery charges	\$	6,611	5,561,985	16,268,976	511,765	3,153,356	895,635	26,398,328
Net Value of Production ...	\$	23,379	11,702,126	50,693,598	974,270	5,031,210	1,303,367	69,727,950

Table 22 - ORES, CONCENTRATES, SLAGS, etc., SHIPPED TO SMELTERS FROM CANADIAN GOLD MINES, 1931-1947

Year	To Canadian Plants						To Foreign Plants					
	O r e s		Concentrates		Slags, residues, precipitates		O r e s		Concentrates		Slags, residues, precipitates	
	Tons	Gold	Tons	Gold	Tons	Gold	Tons	Gold	Tons	Gold	Tons	Gold
		content fine oz.		content fine oz.		content fine oz.		content fine oz.		content fine oz.		content fine oz.
1931	51,579	21,756	3,120	16,805	12	1,505	24,244	11,870	20,271	48,743	47	1,306
1932	36,397	17,943	191	952	26	1,416	36,736	15,810	16,925	52,508	30	869
1933	30,096	14,882	490	1,349	55	6,279	3,292	2,203	29,111	76,601	34	1,392
1934	48,106	29,688	2,490	10,440	203	1,487	1,419	1,936	43,053	114,476	27	599
1935	18,239	7,008	7,045	35,958	58	6,231	1,242	2,840	46,050	90,167	25	11,310
1936	4,705	6,567	7,865	34,654	64	3,609	1,864	3,421	65,660	137,273	25	16,903
1937	37,126	9,649	6,981	21,865	130	2,060	2,516	8,108	62,987	163,781	74	912
1938	172,377	36,008	8,404	25,552	37	420	4,445	8,443	40,828	142,513	1,281	23,101
1939	271,666	47,114	7,747	24,184	797	4,507	3,853	8,930	39,530	112,126	235	26,631
1940	201,941	34,315	4,485	13,532	158	3,761	7,453	8,107	44,570	125,704	103	47,160
1941	202,943	38,380	1,628	7,492	369	4,444	7,453	11,222	43,855	122,619	115	56,183
1942	280,978	38,492	2,555	7,307	137	2,831	1,356	1,020	40,428	126,931	68	55,999
1943	268,334	36,429	4,490	12,335	311	2,069	...	...	20,615	59,949	40	34,704
1944	205,379	26,535	4,835	11,900	143	1,858	...	...	20,755	54,233	73	35,955
1945	177,099	26,834	5,474	13,903	647	1,832	109	185	19,596	49,193	47	44,559
1946	146,075	19,532	5,155	10,646	314	2,359	...	...	11,969	49,164	25	9,650
1947	146,469	19,001	2,538	5,313	296	1,961	...	...	25,765	67,929	32	34,572

Table 25 - SHIPMENTS FROM AURIFEROUS QUARTZ MINES, 1944-1947

	Quantity tons	Gold oz.	Silver oz.	Copper lb.	Lead lb.	Zinc lb.	Other lb.
1944							
To Canadian Smelters -							
Gold ore	205,379	26,535	1,611	...	10,123	5,712	...
Gold concentrates	4,835	11,900	4,671	887,304	...	...	...
Slags, precipitates, residues	143	1,858	4,644	5,261	...	...	...
To Foreign Smelters -							
Gold concentrates	19,312	54,189	126,788	264,034	3,189,245	...	...
Slags, precipitates, residues	73	35,955	301,410	...	...	...	...
Tungsten ore	32	...	...	...	...	...	(a)7,515
Lead concentrates	547	44	42,498	...	705,067	...	...
Zinc concentrates	896	...	...	...	...	1,021,685	...
Arsenical concentrates .....	...	...	...	...	...	...	(b)808
TOTAL	231,217	130,481	481,622	1,156,599	3,904,435	1,027,397	...
1945							
To Canadian Smelters -							
Gold ore	177,099	26,834	608	...	5,596	16,676	...
Gold concentrates	5,474	13,903	5,948	975,598	...	...	...
Slags, precipitates, residues	647	1,832	1,577	862	...	...	...
Arsenical material	366	...	...	...	...	...	(b)366
To Foreign Smelters -							
Gold ore	109	185	54	1,518	...	...	...
Gold concentrates	18,510	49,094	94,979	239,943	2,697,977	...	...
Lead concentrates	752	99	56,083	...	668,762	...	...
Slags, precipitates, etc. ...	47	44,559	629,561	...	...	...	...
Arsenical material	604	...	...	...	...	...	(b)604
TOTAL	203,842	136,506	788,810	1,217,921	3,372,335	254,475	...
1946							
To Canadian Smelters -							
Gold ore	146,075	19,532	1,625	...	14,504	13,791	...
Gold concentrates	5,155	10,646	5,154	894,661	...	...	...
Slags, precipitates, residues	314	2,359	3,824	1,400	...	...	...
Arsenical material	282	...	...	...	...	...	(b)210
To Foreign Smelters -							
Gold concentrates	11,334	49,038	45,584	52,022	1,232,906	...	...
Slags, precipitates, etc. ...	25	9,650	448,920	...	...	...	...
Lead concentrates	587	126	58,946	...	699,244	...	...
Zinc concentrates	48	...	...	...	...	42,628	...
TOTAL	163,820	91,351	564,053	948,083	1,946,654	56,419	...
1947							
To Canadian Smelters -							
Gold ore	146,469	19,001	1,284	...	12,082	13,423	...
Gold concentrates	2,538	5,313	3,286	375,094	1,694	368	...
Slags, precipitates, residues	296	1,961	23,165	5,001	...	...	...
To Foreign Smelters -							
Gold concentrates	25,765	67,929	77,979	124,952	2,314,469	...	...
Slags, precipitates, etc. ...	32	34,572	223,592	...	...	...	...
Lead concentrates	258	51	23,261	...	297,647	...	...
Arsenical material	415	...	...	...	...	...	(b)337
TOTAL	175,773	128,827	353,567	505,047	2,625,892	13,791	...

(a) Pounds of tungsten oxide.

(b) Tons of arsenious oxide.

Table 24 - FUEL AND ELECTRICITY USED BY ENTIRE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA, BY PROVINCES, 1947

TABLE 24 - FUEL AND ELECTRICITY CONSUMED BY MINING INDUSTRIES IN CANADA, BY PROVINCE, 1951									
Kind	Unit of measure	Nova Scotia		Quebec		Ontario		Manitoba	
		Quantity	Cost at plant \$	Quantity	Cost at plant \$	Quantity	Cost at plant \$	Quantity	Cost at plant \$
<hr/>									
Bituminous coal -									
(a) From Canadian mines	short ton	40	482	979	11,521	269	4,170	441	11,370
(b) Imported	short ton	...	...	22,564	290,021	39,261	494,541	...	...
Anthracite coal -									
(a) From United States	short ton	...	...	1,989	28,229	1,167	19,800	...	...
(b) Other	short ton	...	...	416	5,356	...	...	...	...
Coke (for fuel only)	short ton	...	...	466	6,483	147	2,179	...	...
Gasoline	Imp. gal.	490	138	134,548	46,629	276,058	104,362	40,297	17,387
Kerosene or coal oil	Imp. gal.	...	...	2,862	761	12,269	3,342	549	188
Fuel oil and diesel oil	Imp. gal.	200	23	766,667	148,177	835,498	182,187	138,532	31,126
Wood (cords of 128 cu.ft.) ...	cord	...	...	13,813	114,389	18,882	150,952	2,426	24,510
Charcoal	lb.	...	...	...	...	5,000	165	...	...
Other fuel .....	...	...	...	...	342	...	...	...	...
Electricity purchased for power and lighting	K.W.H.	266,200	3,240	182,614,375	1,254,407	578,440,107	3,035,834	13,971,676	119,162
Electricity purchased for other purposes	K.W.H.	...	...	...	...	16,969,079	21,728	10,135,500	15,188
TOTAL .....	...	...	3,883	...	1,906,315	...	4,019,260	...	218,931
Electricity generated for own use	K.W.H.	...	...	10,365,650	...	6,961,154	...	77,500	...
Electricity generated for sale	K.W.H.	...	...	...	...	...	...	...	...
<hr/>									
		British Columbia		Yukon		Northwest Territories		C A N A D A	
Bituminous coal -									
(a) From Canadian mines	short ton	1,853	36,284	...	...	1	140	3,593	63,967
(b) Imported	short ton	102	1,787	...	...	...	...	61,927	786,349
Lignite coal	short ton	1,192	14,079	...	...	...	...	1,192	14,079
Anthracite coal -									
(a) From United States	short ton	8	390	...	...	...	...	3,164	48,419
(b) Other	short ton	23	681	...	...	...	...	439	6,037
Coke (for fuel only)	short ton	2	39	...	...	...	...	615	8,701
Gasoline	Imp. gal.	51,043	18,382	560	254	45,854	25,579	548,850	212,731
Kerosene or coal oil	Imp. gal.	179,872	25,592	...	...	189	133	195,741	30,016
Fuel oil and diesel oil	Imp. gal.	1,432,606	235,753	10,107	2,939	1,017,060	267,191	4,200,670	867,396
Wood (cords of 128 cu.ft.) ...	cord	2,409	18,755	190	1,892	4,346	58,144	42,066	368,642
Charcoal	lb.	...	...	...	...	730	374	5,730	539
Other fuel .....	...	...	124	...	...	...	...	...	466
Electricity purchased for power and lighting	K.W.H.	23,483,408	186,807	...	...	5,669,060	83,832	804,444,846	4,683,282
Electricity purchased for other purposes	K.W.H.	404,800	2,119	...	...	...	...	27,509,379	39,035
TOTAL .....	...	...	540,792	...	5,085	...	435,393	...	7,129,659
Electricity generated for own use	K.W.H.	22,641,108	...	...	...	15,320,168	...	55,365,580	...
Electricity generated for sale	K.W.H.	373,217	15,092	7,356,765	35,591	7,729,982	50,483

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Table 25 - POWER EQUIPMENT (Including Stand-by or Emergency Equipment) 1947 (Active Mines Only)

Description	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power	Number of units	Total horse power
Steam engines	9	1,046	10	572
Steam turbines	1	40	1	90
Diesel engines	99	17,729	49	7,976
Gasoline, gas and oil engines, other than Diesel engines	81	3,591	101	7,822
Hydraulic turbines or water wheels	17	15,482	1	780
Electric motors (except motor-generator sets) - (a) Operated by purchased power	9,878	270,473	1,447	34,330
TOTAL	10,085	308,361	1,609	51,570
(b) Operated by above primary units	793	15,625	253	6,380
Stationary boilers	187	14,765	51	3,190
Motor-generator sets	495	15,960	33	1,114

Table 26 - CERTAIN DATA RELATING TO THE PRODUCTION OF GOLD BY THE ENTIRE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA, 1929-1947 (Averages)

Year	Ounces of gold pro- duced per wage-earner year	Cost of fuel and electricity per ounce of gold produced	Cost of wages per ounce of gold produced	Cost of ex- plosives and other process supplies used per ounce of gold produced	Cost of freight and smelter refin- ery treatment on ores and bullion shipped per ounce of gold produced	Taxes per ounce gold produced	Total of speci- fied costs
	Ounces	\$	\$	\$	\$	\$	\$
1929 ...	218	1.46	7.18				...
1930 ...	237	1.25	6.63		Information		...
1931 (a)	250	1.19	6.50				...
1932 ...	255	1.21	6.31		not		...
1933 (b)	207	1.36	7.45				...
1934 (c)	154	1.71	9.64		available		...
1935 ...	146	1.89	10.48	4.38			16.75
1936 ...	137	1.98	11.32	4.46			17.76
1937 ...	132	2.10	12.18	4.65	0.33(d)		19.26
1938 ...	150	1.85	10.95	4.53	0.56		17.89
1939 ...	157	1.81	10.69	4.45	0.67		17.62
1940 ...	161	1.76	10.48	4.49	0.69		17.42
1941 ...	155	1.82	11.56	4.53	0.77		18.68
1942 ...	176	1.84	11.47	4.34	0.75		18.40
1943 ...	176.7	2.12	11.47	4.24	0.69	4.89	23.41
1944 ...	159	2.43	12.81	4.60	0.81	4.15	24.80
1945 ...	140	2.45	14.08	5.09	0.74	3.74	26.10
1946 ...	122	2.63	16.77	6.05	0.59	3.08	29.12
1947 ...	132	2.62	17.28	6.56	0.52	1.93	26.29

(a) Equalization exchange premiums paid by the Dominion Government to gold miners (Great Britain goes off gold standard).

(b) United States goes off gold standard.

(c) United States gold dollar reduced in weight from 25.8 to 15 5/21 grains, 0.9 fine.

(d) Not including Mint charges and marketing prior to 1938.

Note: The data contained in the foregoing table have been compiled from reports received from both producing and non-producing (exploring and developing) operators in the auriferous quartz mining industry. This fact should be noted if the information is to be construed or employed as possible criteria for technological or other statistical study. The trends revealed are not to be interpreted as entirely reflecting "Cause and effect" in the operation of producing mines only, but rather as indices of change in the industry as a whole. For data relating to producers only, see Table 27.

Table 27 - CERTAIN DATA (AVERAGES) RELATING TO THE TOTAL PRODUCTION OF GOLD BY PRODUCERS ONLY IN THE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA, 1931, 1939-1947

Year	Ounces of gold produced per wage-earner year	Cost of fuel and electricity per ounce of gold produced	Cost of wages per ounce of gold produced	Cost of explosives and other process supplies used per ounce of gold produced	Cost of freight and smelter refinery treatment on ores and bullion shipped per ounce of gold produced	Taxes per ounce of gold produced	Total of specified costs
	Ounces	\$	\$	\$	\$	\$	\$
1931 ...	256	1.19	6.38	(*)	(*)	(*)	...
1939 ...	164	1.76	10.25	4.33	0.67	(*)	17.01
1940 ...	165	1.72	10.20	4.41	0.69	(*)	17.02
1941 ...	158	1.79	11.37	4.46	0.77	(*)	18.39
1942 ...	177	1.83	11.41	4.33	0.75	(*)	18.32
1943 ...	177	2.12	11.42	4.23	0.69	4.89	23.35
1944 ...	163	2.41	12.59	4.57	0.81	4.12	24.50
1945 ...	151	2.34	13.17	4.97	0.74	3.68	24.90
1946 ...	141	2.35	14.38	5.69	0.59	2.99	26.00
1947 ...	148	2.29	15.20	6.10	0.52	1.86	25.97

(*) Data not available.

Table 28 - PRINCIPAL STATISTICS RELATIVE TO ALL ONTARIO GOLD MINES, BY AREAS (a), 1945-1947

Camp or District	Number of producers	Ore treated (b) Tons	Total gold recovered Fine oz.	Average ounces per ton recovered	Employees No.	Salaries and wages paid \$	Cost of fuel, electricity and process supplies \$
1945							
Porcupine	14	3,585,003	830,909	.23	6,307	13,163,072	5,168,124
Kirkland Lake	10	983,724	369,992	.32	2,400	5,073,479	2,292,892
Larder Lake	3	688,205	109,354	.16	663	1,350,314	850,454
Matachewan	2	367,917	35,088	.09	244	499,223	413,975
Sudbury	1	...	4	...	72	160,025	75,670
Algoma	1	...	36	...	10	14,335	185
Thunder Bay	5	128,543	49,829	.39	615	1,295,052	663,625
Rainy River and Kenora	2	75	29	.39	21	52,448	4,910
Patricia	8	524,044	138,752	.26	1,199	2,551,222	1,265,146
Eastern Ontario .....	...	...	...	...	4	3,451	150
TOTAL	46	6,277,511	1,533,993	.24	11,535	24,162,621	10,715,151
1946							
Porcupine	15	3,955,153	904,797	.23	7,362	15,343,070	6,210,283
Kirkland Lake	9	1,077,790	403,589	.37	2,806	5,950,431	2,620,709
Larder Lake	3	862,078	145,329	.17	879	1,848,871	1,086,520
Matachewan	2	431,509	42,702	.10	290	606,115	494,898
Sudbury .....	...	...	...	...	85	172,459	15,546
Algoma .....	...	...	...	...	...	...	...
Thunder Bay	6	384,521	106,509	.28	934	1,981,239	1,057,250
Rainy River and Kenora	...	...	...	...	37	68,850	2,365
Patricia	8	555,745	158,122	.28	1,659	3,893,536	1,686,116
TOTAL	43	7,266,796	1,761,048	.24	14,050	29,864,349	13,173,687
1947							
Porcupine	17	3,926,588	937,415	.24	7,248	16,899,928	7,879,487
Kirkland Lake	10	1,092,316	438,933	.40	2,846	6,716,696	2,802,693
Larder Lake	4	1,109,513	188,158	.17	1,077	2,415,848	1,230,009
Matachewan	3)	503,563	52,175	.10	315	682,677	537,192
Sudbury	3)	25,743	4,731	.18	239	562,611	157,989
Thunder Bay	7	437,692	116,944	.27	1,056	2,574,359	1,174,518
Rainy River and Kenora	1	800	231	.29	75	133,385	36,182
Patricia	9	579,963	161,979	.28	1,718	4,495,238	1,928,036
TOTAL	51	7,676,178	1,900,566	.25	14,574	34,478,742	15,726,106

(a) Includes data for all active properties.

(b) Does not include low grade discarded by sorting, but includes crude ore milled and smelted.

Table 29 - ORES MINED AND TREATED BY AURIFEROUS QUARTZ MINING INDUSTRY FOR YEARS SPECIFIED

Year	Ore hoisted	Ore milled (c)	Crude ore shipped to smelters (d)	Low-grade sorted out	Tailings re-treated	Gold recovered as bullion (b)	Gold in crude ore shipped	Gold in concentrates, slag, etc. shipped
	Tons	Tons	Tons	Tons	Tons	fine oz.	fine oz.	fine oz.
1930 ...	4,472,803	4,306,869	123,037	(a)	37,095	1,782,556	45,342	56,893
1935 ...	8,832,901	8,888,129	19,481	(a)	57,798	2,492,145	9,848	143,666
1936 ...	10,694,208	10,504,181	6,569	(a)	33,814	2,903,063	9,988	192,439
1937 ...	12,388,489	11,880,323	39,642	457,622	97,710	3,283,795	17,757	188,618
1938 ...	14,749,649	14,158,555	176,822	528,696	64,926	3,810,642	44,451	191,586
1939 ...	17,105,744	16,150,173	275,519	660,578	18,426	4,160,352	56,044	167,448
1940 ...	18,986,306	18,083,439	209,394	757,538	180,311	4,386,673	42,422	190,157
1941 ...	20,051,736	19,026,273	210,396	936,003	480,289	4,405,986	49,602	190,738
1942 ...	17,722,866	16,820,442	282,334	658,439	5,176	3,898,999	39,512	193,068
1943 ...	12,853,610	12,206,518	268,334	361,522	29,716	2,869,635	36,429	109,055
1944 ...	10,790,495	10,330,899	205,379	234,820	18,233	2,300,090	26,535	103,946
1945 ...	9,780,555	9,437,796	177,208	136,328	...	2,068,910	27,019	109,487
1946 ...	10,712,615	10,306,720	146,075	229,237	...	2,289,647	19,532	71,819
1947 ...	11,632,841	11,296,610	175,773	205,250	1,376	2,590,589	19,001	109,816

(a) Not available.

(b) Content of bullion shipped 1930-1935; 1936-1947 content of bullion produced.

(c) + (d) = total crude ore treated.

Table 30 - GOLD AND SILVER CONTENT OF BULLION PRODUCED AND OF ORES, CONCENTRATES, etc., SHIPPED, WITH AVERAGE GRADE OF ORE SHIPPED AND ORE MILLED AT AURIFEROUS QUARTZ MINES IN CANADA, WITH AVERAGE PRICE OF GOLD AND SILVER IN CANADIAN FUNDS, 1930-1947

Year	Tonnage treated (c)	Gold content (b)	Silver content (b) (d)	Ounces of fine gold per ton	Ounces of fine silver per ton	Average price of gold \$ per oz.	Average price of silver \$ per oz.
		fine oz.	fine oz.				
1930	4,429,906	1,884,791	4,784,549	.43	1.08	20.67	0.381
1931	5,526,379	2,271,278	2,725,751	.41	.49	21.55	0.298
1932	5,997,492	2,502,327	2,085,133	.42	.35	23.47	0.317
1933	6,480,164	2,455,365	1,643,793	.38	.25	28.60	0.378
1934	7,524,803	2,490,513	1,399,282	.33	.19	34.50	0.475
1935	8,907,610	2,645,659	1,439,672	.30	.16	35.19	0.648
1936	10,510,750	3,095,427	1,928,854	.29	.18	35.03	0.451
1937	11,919,965(a)	3,490,170	1,912,286	.29	.16	34.99	0.449
1938	14,335,377(a)	4,046,679	1,928,175	.28	.13	35.17	0.435
1939	16,425,692(a)	4,383,844	2,119,708	.27	.13	36.14	0.405
1940	18,292,833(a)	4,619,252	2,729,998	.25	.15	38.50	0.382
1941	19,236,669(a)	4,646,326	2,773,460	.24	.14	38.50	0.383
1942	17,102,776(a)	4,131,579	2,186,369	.24	.13	38.50	0.422
1943	12,474,852(a)	3,015,119	1,399,778	.24	.11	38.50	0.452
1944	10,536,278(a)	2,430,571	906,788	.23	.09	38.50	0.430
1945	9,615,004(a)	2,205,416	1,205,147	.23	.13	38.50	0.47
1946	10,452,775(a)	2,380,998	1,025,619	.23	.10	36.75	0.836
1947	11,443,079(a)	2,719,416	845,749	.24	.07	35.00	0.72

(a) Material discarded by sorting not included.

(b) Relatively small quantity of gold and silver contained in concentrates, slags, etc., shipped and in cyanide solution in circuit may have originated in ores treated during the previous year; from 1937 represents metal content of total bullion produced plus metal in ores or concentrates shipped to smelters.

(c) Does not include tailings re-treated, but includes ore milled plus crude ore shipped to smelters.

(d) The relatively high proportion of silver produced in 1930 and 1931 resulted chiefly from increased shipments of high silver content gold ores from the Premier and Prosperity mines in British Columbia; these mines are classified as being auriferous quartz. Prices are reported in Canadian funds.

Table 31 - MILLING CAPACITY OF OPERATING CANADIAN GOLD MINES, 1938-1947 (Tons of 2,000 pounds per 24 hours)

Year	Nova Scotia	Quebec	Ontario	Manitoba	Saskat- chewan	British Columbia	Northwest Territories
1938	542	8,217	30,097	875	1,000	4,590	...
1939	562	9,580	33,324	865	1,000	4,417	...
1940	450	11,215	35,030	690	1,200	4,255	275
1941	319	12,654	37,416	990	1,355	4,510	510
1942	247	14,330	36,135	903	1,202	4,303	710
1943	280	13,304	32,555	753	2	2,845	510
1944	180	13,059	30,710	550	...	2,650	66
1945	187	12,600	30,457	550	...	2,740	417
1946	172	12,035	30,370	550	...	3,052	417
1947	50	13,010	29,430	550	...	3,235	467

Table 32 - SPECIFIED COSTS PER TON OF ORE MILLED AT CERTAIN OF THE PRINCIPAL AURIFEROUS QUARTZ MINES IN CANADA, 1947

Name of Mine	Develop- ment and explora- tion (a)	Mining	Milling	General (b)	Total before depreca- tion and taxes	Depre- ciation	Taxes	TOTAL COSTS
(Dollars)								
<u>Quebec -</u>								
Belleterre Quebec Mines Ltd. ..	1.139	5.087	1.404	0.300	7.930	1.229	1.061	10.220
Canadian Malartic Gold Mines Ltd.	0.52	1.45	0.70	0.52	3.19	0.14	0.09	3.42
Consolidated Beattie Mines Ltd.	0.440	3.197	1.719	0.976	6.332	0.391	...	6.723
Consolidated Central Cadillac..	0.629	4.220	1.303	0.322	6.47	...	0.04	6.51
Elder Mines Ltd.	0.750	2.142	...	1.979	4.871	0.473	...	5.344
East Malartic Mines Ltd.	0.487	2.448	0.758	0.679	4.372	0.979	0.128	5.479
Francoeur Gold Mines Ltd.	0.03	2.86	1.32	1.45	5.66	...	...	5.66
Lamaque Mining Co. Ltd.	0.96	3.10	1.05	0.19	5.30	0.18	0.79	6.27
Mic Mac Mines Ltd. ....	...	...	...	...	3.286	...	...	...
O'Brien Gold Mines Ltd.	1.21	6.58	2.23	3.56	13.58	0.99	0.36	14.93
Perron Gold Mines Ltd.	0.736	2.608	1.190	1.056	5.590	0.248	0.030	5.868
Powell Rouyn Gold Mines Ltd. ..	1.22	2.29	...	1.27	4.78	1.12	0.01	5.91
Senator-Rouyn Gold Mines Ltd. .	0.36	1.91	0.92	1.15	4.34	1.18	0.03	5.55
Sigma Mines (Quebec) Ltd.	0.445	2.518	0.727	0.454	4.144	0.310	0.315	4.769
Siscoe Gold Mines Ltd.	1.136	3.755	1.353	1.478	7.722	0.399	...	8.121
Sladen Malartic Mines Ltd.	0.23	1.73	0.81	0.34	3.11	0.18	0.08	3.32
Stadacona Mines (1944) Ltd. ...	0.97	2.28	0.88	0.90	5.03	...	0.45	5.48
<u>Ontario -</u>								
<u>Porcupine District</u>								
Aunor Gold Mines Ltd.	0.97	4.73	1.10	0.86	7.66	0.66	0.86	9.18
Bonetal Gold Mines Ltd.	0.62	2.01	1.42	0.71	4.76	...	...	...
Broulan Porcupine Mines Ltd. ..	0.27	3.02	0.86	1.12	5.27	...	...	...
Coniaurum Mines Ltd.	2.19	3.11	1.16	1.04	7.50	...	...	...
Hollinger Cons. Gold Mines -								
Timmins	1.165	4.062	0.838	1.140	7.205	0.280	0.132	7.617
Ross	1.988	2.876	2.345	1.115	8.324	0.950	0.049	9.323
McIntyre Porcupine Mines Ltd. .	0.565	5.350	1.056	0.265	7.236	0.176	0.835	8.247
Pamour Porcupine Mines Ltd. ...	0.74	1.44	0.73	0.35	3.26	0.13	...	3.39
Paymaster Consolidated Mines Ltd.	1.15	3.86	1.59	0.76	7.36	0.28	0.06	7.70
Preston East Dome Mines Ltd. ..	1.98	3.72	0.80	0.26	6.76	0.28	0.05	7.09
<u>Kirkland Lake District</u>								
Bidgood Kirkland Gold Mines Ltd.	4.59	5.69	2.10	1.79	14.17	0.25	0.03	14.45
Kirkland Golden Gate	1.10	3.48	2.94	2.09	9.61	0.52	...	10.13
Lake Shore Mines Ltd.	1.747	5.617	1.887	0.411	9.662	0.148	1.397	11.207
Macassa Mines Ltd.	1.456	5.365	1.323	1.780	9.924	0.675	0.371	10.970
Teck-Hughes Gold Mines Ltd.,The	2.95	5.85	1.80	2.35	12.93	...	0.18	13.11
Upper Canada Mines Ltd.	2.87	3.95	1.06	0.37	8.25	0.77	0.40	9.42
Wright-Hargreaves Mines Ltd. ..	(c)	6.278	1.635	1.882	9.795	0.297	1.849	11.941

Table 32 - SPECIFIED COSTS PER TON OF ORE MILLED AT CERTAIN OF THE PRINCIPAL AURIFEROUS QUARTZ MINES IN CANADA, 1947 - (Concluded)

Name of Mine	Develop- ment and explora- tion (a)	Mining	Milling	General (b)	Total before deprecia- tion and taxes	Depre- ciation	Taxes	TOTAL COSTS
(Dollars)								
<u>Ontario (concluded) -</u>								
<u>Larder Lake District</u>								
Chesterville Mines Ltd.	0.44	1.69	0.71	0.45	3.29	0.28	...	3.57
Kerr-Addison Gold Mines Ltd. ..	0.619	1.527	0.685	0.452	3.283	0.303	0.800	4.386
Omega Gold Mines Ltd.	0.118	2.760	1.691	0.203	4.772	0.130	...	4.902
<u>Matachewan District</u>								
Hollinger (Young-Davidson) Mines	0.194	1.036	0.836	0.395	2.461	0.027	0.052	2.540
Matachewan Cons. Mines Ltd. ...	0.238	1.401	0.756	0.519	2.916	...	...	...
<u>Thunder Bay District</u>								
Witch Gold Mines Ltd.	3.52	9.48	3.12	0.26	16.38	2.22	...	18.60
Little Long Lac Gold Mines Ltd.	0.43	5.74	2.10	1.90	10.17	0.16	0.02	10.35
Magnet Consolidated Mines Ltd.	6.85	8.43	2.55	0.57	18.40	...	...	...
MacLeod-Cockshutt Gold Mines Ltd.	0.895	3.620	1.520	1.030	7.065	1.171	...	8.236
<u>Patricia District</u>								
Cochenour Willans Gold Mines Ltd.	1.866	4.365	2.593	1.437	10.261	1.067	...	11.328
Hasaga Gold Mines Ltd.	2.561	3.846	1.440	1.444	9.291	1.795	...	11.086
Madsen Red Lake Gold Mines Ltd.	1.064	2.168	1.035	0.972	5.239	0.636	0.012	5.887
McKenzie Red Lake Gold Mines Ltd.	1.96	3.95	1.37	1.41	8.69	0.24	...	8.93
McMarnac Red Lake Gold Mines Ltd.	1.35	4.76	2.22	2.21	10.54	...	...	...
Pickle Crow Gold Mines Ltd. ...	1.55	5.21	1.56	1.52	9.84	1.69	0.01	11.54
<u>British Columbia -</u>								
Bralorne Mines Ltd.	1.28	5.17	0.97	3.19	10.61	...	0.90	11.51
Cariboo Gold Quartz Mining Co.	1.43	7.04	1.90	0.47	10.84	...	0.11	10.95
Hedley-Mascot Gold Mines Ltd. .	2.39	3.71	2.90	5.09	14.09	...	0.12	14.21
Island Mountain Mines Co. Ltd.	3.10	5.51	2.61	0.19	11.41	...	0.78	12.19
Kelowna Exploration Co. Ltd. ..	0.47	3.07	2.34	4.89	10.77	...	0.71	11.48
Kenville Gold Mines Ltd.	1.94	5.50	2.87	2.55	12.86	...	...	12.86
Polaris-Taku Mining Co. Ltd. ..	1.22	3.82	1.72	2.06	8.82	...	0.01	8.83
Pioneer Gold Mines of B.C. Ltd.	(c)	16.15	4.65	8.60	29.40	...	0.16	29.56
Privateer Mine Ltd.	4.14	11.77	4.72	3.51	24.14	...	0.25	24.39
Beno Gold Mines Ltd.	3.99	6.28	4.31	4.79	19.37	...	0.59	19.96
Sheep Creek Gold Mines Ltd. ...	2.36	4.56	2.33	1.14	10.39	...	0.13	10.52
Silbak Premier Mines Ltd.	2.685	3.571	1.877	7.685	15.818	...	0.130	15.948

(a) Exclusive of outside exploration.

(b) Marketing, head office, etc. (exclusive of taxes).

(c) Included in mining.

Table 33 - EMPLOYEES AND SALARIES AND WAGES PAID BY ENTIRE AURIFEROUS QUARTZ MINING INDUSTRY(*), 1933-1947

Year	Wage- earners	Salaried employees	Total employees		Wages paid	Average per capita wages paid	Salaries paid	Total salaries and wages
	No.	No.	No.		\$	\$	\$	\$
1933 ...	11,880	943	12,823		18,303,504	1,541	2,232,508	20,536,012
1934 ...	16,139	1,623	17,762		24,017,667	1,488	3,139,220	27,156,887
1935 ...	18,121	1,713	19,834		27,717,164	1,529	3,806,743	31,523,907
1936 ...	22,662	2,435	25,097		35,049,354	1,547	4,777,388	39,826,742
1937 ...	26,440	2,700	29,140		42,505,613	1,608	5,713,705	48,219,318
1938 ...	26,938	2,709	29,647		44,302,484	1,645	6,159,608	50,462,092
1939 ...	27,959	2,663	30,622		46,836,845	1,675	6,369,380	53,206,225
1940 ...	28,747	2,658	31,405		48,410,841	1,684	6,794,255	55,205,096
1941 ...	29,820	2,731	32,551		54,735,716	1,836	7,415,094	62,150,810
1942 ...	23,517	2,513	26,030		47,409,542	2,016	6,979,330	54,388,872
1943 ...	17,061	1,977	19,038		34,576,891	2,027	6,088,392	40,665,283
1944 ...	15,260	1,966	17,226		31,151,908	2,041	5,871,597	37,023,505
	<u>Workmen</u>	<u>Adminis- trative</u>	<u>Male</u>	<u>Female</u>				
1945 ...	15,807	2,581	17,995	393	31,051,187	1,964	6,488,334	37,690,177
1946 ...	19,501	2,472	21,631	342	39,967,638	2,050	7,243,424	47,211,062
1947 ...	20,647	2,257	22,557	349	47,005,905	2,277	7,606,569	54,612,474

(*) Including any bonus paid.

Table 34 - SALARIES AND WAGES PAID, FUEL AND ELECTRICITY USED AND PROCESS SUPPLIES CONSUMED BY THE AURIFEROUS QUARTZ MINING INDUSTRY, BY PROVINCES, 1933-1947

Year	Nova Scotia		Quebec		Ontario		Manitoba	
	Produc- ing	Non- producing	Producing	Non- producing	Producing	Non- producing	Producing	Non- producing
	(dollars)							
1933 ...	17,612	28,090	1,544,880	744,382	18,128,149	590,012	588,125	154,194
1934 ...	206,729	32,940	2,007,574	1,418,330	20,763,904	1,419,484	826,625	512,586
1935 ...	408,422	57,353	4,165,141	1,754,595	30,809,094	1,866,010	1,659,407	312,556
1936 ...	779,767	40,304	6,448,220	2,317,382	35,829,753	3,789,527	1,896,053	217,017
1937 ...	815,398	43,912	8,956,849	3,104,728	41,230,811	5,897,085	2,043,151	121,042
1938 ...	808,872	8,834	11,396,444	1,396,019	46,899,149	2,473,232	1,914,962	15,627
1939 ...	829,631	4,681	12,604,061	940,207	52,470,713	1,321,013	1,621,765	190,753
1940 ...	596,592	158	14,090,722	770,280	54,745,840	895,822	1,642,103	2,558
1941 ...	457,305	9,342	16,256,086	978,161	59,620,822	599,527	1,796,321	...
1942 ...	225,276	6,104	17,160,699	159,376	50,881,444	175,528	1,557,240	...
1943 ...	162,920	...	14,892,857	159,840	38,831,504	8,681	958,737	...
1944 ...	157,802	2,548	13,323,443	523,566	35,312,042	322,219	595,795	...
1945 ...	171,000	2,648	11,701,727	1,595,917	34,041,088	836,664	630,069	119,657
1946 ...	158,043	...	12,140,663	4,354,273	41,086,811	1,951,225	770,486	477,218
1947 ...	25,244	...	13,650,283	3,054,447	47,600,801	2,604,047	805,369	1,188,469
	<u>Saskatchewan</u>		<u>British Columbia</u>		<u>Northwest Territories and Yukon</u>		<u>C A N A D A</u>	
1933 ...	...	...	1,736,556	334,149	...	...	22,015,322	1,850,827
1934 ...	...	8,367	3,398,918	810,726	...	...	27,203,750	4,202,433
1935 ...	...	94,162	6,312,731	678,467	...	...	43,354,795	4,763,143
1936 ...	118,651	79,963	7,287,019	863,104	...	42,766	52,359,463	7,350,063
1937 ...	62,429	391,097	7,836,968	970,666	...	321,305	60,945,606	10,849,835
1938 ...	...	519,791	9,526,363	338,303	531,534	442,035	71,077,324	5,193,841
1939 ...	490,633	4,291	8,963,013	425,451	614,912	162,551	77,594,728	3,048,947
1940 ...	602,534	...	9,094,704	218,225	1,114,420	329,643	81,886,915	2,216,686
1941 ...	726,468	...	9,613,778	152,619	1,649,933	19,966	90,120,713	1,559,615
1942 ...	413,441	...	7,031,550	101,616	2,214,886	...	79,484,536	442,624
1943 ...	80	...	3,771,871	26,010	1,014,302	...	59,632,271	194,531
1944 ...	...	38,060	3,372,009	61,892	363,046	20,946	53,124,137	969,231
1945 ...	...	40,471	3,819,667	213,254	306,536	713,742	50,670,087	3,522,353
1946 ...	...	1,440	4,395,085	860,306	959,745	717,547	59,510,833	8,362,009
1947 ...	...	...	6,860,833	455,238	1,738,785	1,609,583	70,681,315	8,911,784

Table 35 - WAGE-EARNERS, BY MONTHS, IN THE ENTIRE AURIFEROUS QUARTZ MINING INDUSTRY, 1943-1947

Month	1943	1944	1945	1946	1947
January	19,332	15,796	15,222	19,083	20,656
February	19,160	16,001	15,137	19,577	20,850
March	18,822	16,014	14,887	19,837	20,959
April	18,123	15,634	14,573	20,036	20,768
May	17,421	15,314	14,624	20,182	20,816
June	17,138	15,172	14,873	20,175	20,937
July	16,743	15,134	15,082	19,480	20,947
August	16,173	14,837	15,249	19,125	20,267
September	15,687	14,501	15,746	18,623	19,611
October	15,241	14,486	16,988	18,946	19,778
November	15,479	14,786	18,110	19,093	20,458
December	14,976	14,595	18,170	18,990	20,672

Table 36 - WORKMEN IN PRODUCING LODE GOLD MINES IN CANADA, BY PROVINCES, 1946 and 1947

Month	Quebec		Ontario		British Columbia		Other districts and provinces		C A N A D A	
	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947
January	3,471	3,696	12,040	12,927	1,584	1,451	402	588	17,497	18,662
February	3,514	3,741	12,187	12,991	1,622	1,457	419	609	17,742	18,798
March	3,491	3,716	12,288	12,917	1,630	1,512	392	575	17,801	18,720
April	3,451	3,536	12,322	12,897	1,579	1,493	394	581	17,746	18,507
May	3,284	3,551	12,310	12,810	1,528	1,615	407	547	17,529	18,523
June	3,170	3,320	12,306	12,864	1,370	1,684	412	523	17,258	18,391
July	3,156	3,352	12,260	12,759	341	1,731	495	516	16,252	18,358
August	3,100	3,296	11,835	12,223	363	1,732	537	536	15,835	17,787
September	2,987	3,237	11,675	11,802	324	1,790	534	443	15,520	17,272
October	3,083	3,228	11,983	11,872	303	1,954	499	467	15,868	17,521
November	3,139	3,506	12,171	12,216	368	2,113	541	485	16,219	18,320
December	3,029	3,665	12,044	12,469	988	2,139	518	490	16,579	18,763

Table 37 - CLASSIFICATION OF WAGE-EARNERS EMPLOYED IN ENTIRE AURIFEROUS QUARTZ MINING INDUSTRY, 1946 and 1947

Province	1 9 4 6					1 9 4 7				
	Mine			Mill		Mine			Mill	
	Surface		Under-ground	Male		Surface		Under-ground	Male	
	Male	Female				Male	Female			
Nova Scotia	16	1	45	6	...	7	...	6	1	
Quebec	1,847	46	2,472	305	1	1,462	35	2,483	307	
Ontario	3,661	65	8,052	1,018	...	3,914	75	8,290	1,007	
Manitoba	206	9	120	15	...	325	10	164	15	
Saskatchewan	3	...	...	...	...	...	...	...	...
British Columbia	424	25	657	112	...	569	49	1,022	197	
Northwest Territories	276	8	99	15	...	411	16	221	52	
Yukon .....	...	...	...	...	...	4	...	5	...
CANADA	6,430	154	11,495	1,471	1	6,692	185	12,191	1,579	

Table 38 - COST OF PROSPECTING CONDUCTED BY CANADIAN AURIFEROUS QUARTZ MINING COMPANIES, 1946 and 1947

Province pros- pecting was conducted in (a)	By Nova Scotia and Quebec companies (b)	By Ontario companies (b)	By Manitoba companies (b)	By Saskat- chewan companies (b)	By British Columbia companies (b)	By Yukon and Northwest Territories companies	TOTAL
(Dollars)							
1946							
Nova Scotia	329	...	...	...	...	...	329
New Brunswick ..	...	...	...	...	...	...	...
Quebec	2,467,116	123,575	2,028	...	700	22,926	2,616,345
Ontario	407,757	1,539,964	11,902	...	6,663	70,286	2,036,572
Manitoba	41,474	35,229	117,773	...	10,800	33,905	299,181
Saskatchewan ...	...	...	...	2,501	500	16,346	19,347
British Columbia	30,264	102,597	...	...	387,309	41,820	561,990
Northwest Terri- tories	1,803	61,176	...	1,901	...	737,882	802,762
Yukon .....	...	31,754	...	...	13,312	35,517	80,583
TOTAL CANADA..	2,948,743	1,894,295	191,703	4,402	419,284	958,682	6,417,109
1947							
Nova Scotia	169	842	...	...	...	...	1,011
New Brunswick ..	...	...	...	...	...	...	...
Quebec	1,104,930	140,867	...	...	9,668	9,752	1,265,217
Ontario	98,313	1,066,083	34,482	...	13,429	30,114	1,242,421
Manitoba	10,374	47,373	332,882	...	26,344	8,176	425,149
Saskatchewan ...	...	...	...	...	...	...	...
British Columbia	103,529	136,424	...	...	332,116	988	573,057
Northwest Terri- tories	8,565	10,859	...	...	...	...	574,205
Yukon	27,302	71,070	...	...	4,877	554,781	103,249
TOTAL CANADA..	1,353,182	1,473,518	367,364	...	386,434	603,811	4,184,309

(a) Prospecting includes the search for new mineral deposits on the surface, and preliminary exploration.

(b) Province in which the companies' principal operations are conducted.

Table 39 - DRILLING COMPLETED ON AURIFEROUS QUARTZ DEPOSITS IN 1946 and 1947

	Footage Drilled (a)	
	1946	1947
Diamond drilling for exploration (testing) -		
By companies with their own equipment and personnel	571,794	755,121
By contractors	4,412,958	2,521,825
Other drilling -		
Diamond drilling for breaking rock or ore -		
By companies with their own equipment and personnel	161,363	209,599
By contractors	466,153	293,965
Drilling by percussion and other machines (b)	18,156,746	24,354,775

(a) Subject to revision as drilling was not reported by some new companies.

(b) This is not complete as some companies do not compile these data.

The value of diamonds in all forms (bits, etc.) purchased by gold mining companies in 1947 totalled \$337,187.

Table 40 - SPECIFIED TAXES PAID BY ACTIVE CANADIAN AURIFEROUS QUARTZ MINES IN 1946 and 1947, BY PROVINCES
(*)

Nature of Tax	Nova Scotia	Quebec	Ontario	Mani- toba	British Columbia	Northwest Terri- tories	CANADA
(Dollars)							
<u>1946</u>							
Dominion Income Tax, includ- ing tax on non-operating revenue .....	...	455,622	1,950,134	70,600	96,040	...	2,572,396
Dominion Excess Profits Tax.	...	374,580	3,160,085	94,998	11,264	...	3,640,927
Provincial Taxes	559	278,177	569,862	1,074	82,059	5,737	735,508
Municipal taxes	596	151,340	212,366	66	2,925	18,596	385,669
TOTAL	955	1,259,719	5,692,447	166,738	192,288	22,353	7,334,500
<u>1947</u>							
Dominion Income Tax, includ- ing tax on non-operating revenue .....	...	257,389	2,254,793	132,443	168,359	...	2,812,964
Dominion Excess Profits Tax.	...	116,757	816,582	29,732	...	...	963,071
Provincial Taxes	799	214,627	701,619	940	106,859	2,532	1,027,356
Municipal taxes	269	180,301	242,514	37	17,441	9,638	450,200
TOTAL	1,068	769,074	4,015,508	163,152	292,619	12,170	5,253,591

(*) Does not include complete data relating to taxes that may have been paid by dormant firms.

Table 41 - CERTAIN SPECIFIED EXPENDITURES MADE BY AURIFEROUS QUARTZ MINING COMPANIES, 1944-1947

Province and Year	Workmen's compensa- tion	Silicosis assessment	Unemploy- ment insurance	Aggregate cost of all sup- plies purchased	Aggregate cost of plant and equipment purchased	Cost of build- ings, machinery and equipment erected or installed
(Dollars)						
Nova Scotia -						
1944	4,511	...	955	30,108	5,290	...
1945	4,309	...	1,191	21,732	6,204	200
1946	5,044	...	1,187	43,109	6,855	3,664
1947	773	...	148	...	...	...
Quebec -						
1944	268,668	604	54,237	4,486,519	484,699	514,139
1945	333,339	446	52,076	4,873,803	840,504	1,166,339
1946	577,507	574	60,671	7,127,669	2,195,574	4,373,899
1947	519,160	377	60,193	6,956,376	2,589,318	2,977,861
Ontario -						
1944	629,785	295,269	154,672	11,639,621	571,010	378,286
1945	645,268	288,470	142,803	12,172,411	702,336	1,171,712
1946	856,306	329,442	175,822	18,785,560	2,312,524	4,086,869
1947	974,440	381,626	169,056	19,987,340	3,599,256	6,023,438
Manitoba -						
1944	12,492	3,123	2,074	225,705	12,844	20,931
1945	15,743	3,487	2,972	296,102	40,792	45,927
1946	27,429	6,291	4,275	783,824	1,060,318	403,590
1947	50,590	11,902	6,352	1,665,327	1,671,166	2,800,511
Saskatchewan -						
1944	379	...	197	8,820	20,000	25,660
1945	587	...	284	2,160	16,596	11,237
1946	44	...	34	...	674	...
1947 .....	...	...	...	...	...	...
British Columbia -						
1944	114,866	71,630	13,852	1,230,811	30,289	32,415
1945	118,157	93,523	15,325	1,266,627	171,105	315,528
1946	129,471	106,968	15,448	1,965,146	708,065	661,426
1947	200,873	179,349	28,667	2,625,108	634,439	847,746

Table 41 - CERTAIN SPECIFIED EXPENDITURES MADE BY AURIFEROUS QUARTZ MINING COMPANIES, 1944-1947 (Concluded)

Province and Year	Workmen's compensa- tion	Silicosis assessment	Unemploy- ment insurance	Aggregate cost of all sup- plies purchased	Aggregate cost of plant and equipment purchased	Cost of build- ings, machinery and equipment erected or installed
(Dollars)						
Northwest Territories -						
1944	6,191	...	850	178,195	18,532	8,852
1945	16,854	43	3,679	611,511	164,474	344,443
1946	36,692	257	6,661	1,398,783	235,517	666,492
1947	37,991	200	5,140	2,236,264	897,153	1,364,263
Yukon -						
1945	1,014	690	16	2,822	...	...
1946 .....	...	...	...	...	...	...
1947	1,318	...	123	69,826	45,012	116,279
TOTAL CANADA -						
1944	1,036,892	370,626	226,817	17,799,777	1,142,664	980,283
1945	1,135,291	386,659	218,346	19,247,168	1,942,011	5,055,386
1946	1,630,493	443,532	264,098	30,104,091	6,517,527	10,195,940
1947	1,785,145	573,454	269,679	33,540,241	9,436,344	14,130,098

THE COPPER-GOLD-SILVER MINING INDUSTRY, 1947

The mining of "copper-gold-silver" ores in Canada during 1947 was confined to the provinces of Quebec, Ontario, Manitoba, Saskatchewan and British Columbia. It is to be noted that in addition to the copper recovered from ores of this type there is a very large quantity of the metal obtained in the smelting and refining of the copper-nickel ores mined in the Sudbury area of Ontario; important quantities of gold and silver are also being extracted from these copper-nickel ores. General statistics relating to labour, etc., in the nickel-copper industry are not included in this report.

Mining operations conducted on Canadian copper-gold-silver deposits (sulphides) during 1947 were reported by 31 firms of which there were 10 producers. The gross value of crude ore, concentrates, etc., shipped in 1947 from the mines and mills to the smelters was estimated at \$70,298,693, the cost of fuel, purchased electricity, process supplies, freight and treatment totalled \$18,125,109, and the net value of shipments was computed at \$52,173,584. Employees totalled 5,220 compared with 4,958 in 1946 and 4,658 in 1945.

The gross value of ores shipped by firms which both mine and smelt their own ores is sometimes not reported. This necessitates considerable estimating in determining gross and net values for mine shipments. However, possible abnormal evaluations resulting from this are largely compensated for in determining the value added at the smelters and refineries. This added value is credited to the non-ferrous smelting and refining industry and is also included in the total net value of production of the entire Canadian mining industry. This fact should be noted in making any statistical study of the annual production values shown for shipments from copper-gold-silver mines.

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

Quebec

Noranda Mines Limited — "Horne Mine: A total of 1,220 feet of drilling was done in preparation for mining but no exploratory drifting was undertaken due to the shortage of miners. However, exploration by diamond drilling was increased considerably over that done in recent years. During the latter part of the year the principal objective of surface diamond drilling was the exploration of the area along the Horne Creek fault which extends for nearly three miles across the Noranda property. Only a small portion of this area has been explored so far and the investigation of it will be continued during 1948.

"Ore shipments: The tonnage and grade of ore delivered from the Horne Mine to the smelter and concentrator from March 1 to December 31, 1947, was as follows:

	Tons	Copper %	Gold per ton oz.	Silver per ton oz.
Direct smelting ore	317,748	2.98	0.178	0.471
Concentrating ore	196,258	2.63	0.169	0.434
Silicious fluxing ore	2,698	0.39	0.130	0.230
Total	516,704			

"Production was interrupted for 14 weeks between November 22, 1946 to February 28, 1947 as a result of a strike called by the International Union of Mine, Mill and Smelter Workers (C.I.O.). Although the strike ended on February 9, it took some time to get the men back to work and the hoisting of ore was not resumed until February 21. The operation of the concentrator was not resumed until April 10, and it had to be operated at greatly reduced tonnage during the rest of the year due to the scarcity of miners."

Normetal Mining Corporation Ltd.—"Mining: The following is a summary of underground operations:

Ore broken -	
Stoping	173,334 tons
Stope preparation	30,223 tons
Development	5,027 tons
Total	208,584 tons
Rock broken in development	15,205 tons
Timber placed	2,894,000 f.b.m.
Backfill placed:	
Rock	13,733 tons
Sand	45,947 tons
Total	59,680 tons

Development footage	In ore	In waste	Total
Drifts and crosscuts -			
linear feet	633	1,609	2,242
Raises linear feet	285	1,108	1,393
Total Linear Feet	918	2,717	3,635
Slashing cubic feet	1,808	30,252	32,060
Diamond drilling feet			3,025

"Copper concentrate was smelted at Noranda. All zinc concentrate was shipped to the United States."

Queмонт Mining Corporation, Ltd.—"Your Directors feel very gratified with the developments and progress made at the property. There have been few cases in the history of mining in Canada where a new mine has been able to commence production with the ore reserves which the Queмонт now has. The present estimated reserve of 9,431,000 tons indicates a life, after allowing for dilution, of at least 14 years at 2,000 tons a day, and the possibilities for finding more ore are considered to be exceptionally good.

"It will be noted that a large amount of work was accomplished during the year, chiefly in the form of shaft sinking, preparing the mine for production at 2,000 tons per day, construction of the new mining plant and the ordering of equipment and steel for the 2,000-ton concentrator and cyanide plant."

Waite Amulet Mines, Ltd. - "In spite of a lower tonnage milled in 1947 compared with 1946, copper production from the two properties increased approximately 17%; however, zinc production was reduced to one-half. Ore reserves of Amulet Dufault Mines, Ltd. were reduced by the tonnage milled during

the year, while ore reserves of the Waite Amulet orebodies were increased by 61,991 tons before deducting the 103,491 tons extracted during the year. On January 26th, 1948 operations at the Waite mine ceased and mining was resumed at the "C" orebody. Later in the year it was planned to resume operations at the "F" orebody. Exploration work will be continued this year, particularly in the areas west of the "F" orebody and southwest of the "A" orebodies."

Manitoba and Saskatchewan

Hudson Bay Mining & Smelting Co. Ltd. - "A more plentiful supply of mine labour during the latter part of the year permitted increasing underground development work, which was subject to curtailment during the war years.

"There were 1,855,035 tons of ore milled during the year, of which 66 per cent was hoisted through the south main shaft and 34 per cent through the north main shaft. The tonnage of ore milled was slightly higher than in 1946. Slab zinc production was the second highest for any year to date, while cadmium production was the highest since 1943. Total blister copper produced was somewhat lower than in 1946, but the production from the Company's own products smelted was only exceeded in the years 1943 and 1944. Gold and silver production was lower than in 1946."

Sherritt-Gordon Mines Ltd. - "The net earnings for the year reached the all-time high total of \$1,249,807.90. This was largely due to liquidation of our inventory of copper in process at the high prices prevailing during the latter half of the year. The smelting and refining processes result in a three months' lag between the time the copper is shipped from the mine in the form of concentrate and the time that it is available for sale as refined copper. For this reason we had a full twelve months sales even though the mine was shut down by a strike period of slightly over three months. This three months' inventory of copper in process had to be built up again, after the mine resumed operations, before we had any copper available for sale."

British Columbia

Britannia Mining & Smelting Co. Ltd. - "Production was not interrupted during the year. The available supply of labor, while encouraging in the early months, became critical during the summer and as a result, underground stope development was below normal and did not balance ore extraction. In the second half of the year it became necessary to reduce the milling rate, and in December the quantity of ore being processed was approximately 15% below that milled in some earlier months. Effective as of October 21st a new contract was signed with the local union under which wages were increased 10¢ an hour and other benefits were granted. Subsequently there was a considerable influx of men, most of whom, however, were without previous mining experience. The turnover has been high and efficiency below normal standards. Stope and underground development is now being caught up as rapidly as possible and gradually, as this work becomes effective, the tonnage produced will be increased to a more satisfactory level.

"During the year a considerable amount of pyrite concentrate was sold from the stock pile at a favorable price. All other products were sold currently as produced."

Granby Consolidated Mining, Smelting and Power Co. Ltd. - "During the year 1,333,474 tons of ore containing slightly less than 1.0% of copper were treated. In addition to the copper the production included 5,141 ounces of gold and 149,497 ounces of silver."

Note: The preceding quotations were extracted from the annual reports of the firms named.

Table 42 - PRINCIPAL STATISTICS (a) OF THE COPPER-GOLD-SILVER MINING INDUSTRY IN CANADA FOR SPECIFIED YEARS

Year	No. of active opera- tors (b)	No. of operating plants or mines (b)	Capital employed (b) \$	Number of em- ployees (b)	Salaries and wages (b) \$	Cost of fuel and electricity (b) \$	Value of ores and concen- trates shipped by mines \$
1938	37	39	65,416,729	5,577	8,921,465	1,100,284	28,795,492
1939	28	30	58,867,620	6,083	9,920,591	1,223,523	26,182,577
1940	25	26	60,446,948	6,115	10,777,827	1,297,454	25,804,419
1941	21	22	81,521,902	5,866	10,695,023	1,264,567	30,220,331
1942	26	28	84,776,243	5,646	11,097,412	1,338,737	33,688,642
1943	20	22	94,750,186	5,748	11,806,827	1,426,710	43,840,679
1944	23	26	(c)	5,175	10,710,071	1,402,243	38,198,039
1945	38	41	(c)	4,658	9,663,612	1,175,916	38,165,269
1946	42	44	(c)	4,958	10,244,487	1,152,925	37,433,982
1947	31	32	(c)	5,220	13,149,093	1,361,890	52,173,584

(a) Data relating to idle mines and smelters not included.

(b) Not including data relating to any Rossland properties leased by Consolidated Mining and Smelting Co. of Canada, Ltd.

(c) Not reported.

Note: The cost of fuel, purchased electricity and process supplies was deducted; however, values are less freight and estimated treatment charges. Also, value of ores and concentrates shipped from mines to smelters operated by the same companies are often of a nominal or conjectural nature.

Table 43 - SHIPMENTS FROM COPPER-GOLD-SILVER MINES OF CANADA, 1946 and 1947

	Quantity tons	Value \$	Total Metal Content as Determined by Settlement Assay (c)				
			Gold	Silver	Copper	Sulphur	Zinc
			fine oz.	fine oz.	pounds	tons	pounds
<u>1946</u>							
<u>8 mines shipped to Canadian plants (a) -</u>							
Ores	409,586	5,045,788	83,920	168,485	14,266,861	...	...
Copper concentrates	623,152	31,000,561	214,252	2,615,150	166,971,148	...	...
Zinc concentrates	158,538	9,107,497	7,184	201,686	1,477,494	...	145,034,100
Iron pyrites concentrates..	154,323	298,027	...	...	...	73,953	...
Slags, residues, bullion and gold precipitates	358	1,215,129	27,678	198,750	272,959	...	...
<u>7 mines shipped to foreign plants -</u>							
Ores .....	...	...	...	...	...	...	...
Copper concentrates	34,892	3,212,765	7,287	104,647	17,443,833	...	...
Zinc concentrates	61,587	4,268,237	...	...	...	...	63,746,167
Iron pyrites concentrates..	47,612	104,307	...	...	...	22,585	...
Precipitates	302	52,238	...	...	338,656	...	...
TOTAL	1,490,350	54,304,549	340,321	3,288,718	200,770,951	96,538	208,780,267
Value of process supplies etc. (b) .....	...	16,870,567	...	...	...	...	...
Net Value .....	...	37,433,982	...	...	...	...	...

Table 43 - SHIPMENTS FROM COPPER-GOLD-SILVER MINES OF CANADA, 1946 and 1947 (Concluded)

Table 45 - Shipments from Canadian Gold-Silver Mines of Canada, 1946 and 1947 (continued)							
	Quantity tons	Value \$	Total Metal Content as Determined by Settlement Assay (c)				
			Gold	Silver	Copper	Sulphur	Zinc
			fine oz.	fine oz.	pounds	tons	pounds
<u>1947</u>							
9 mines shipped to Canadian plants (a) -							
Ores	348,382	7,249,636	59,304	187,981	26,006,346	...	...
Copper concentrates	591,723	38,335,817	156,875	2,311,980	165,940,219	...	4,267,104
Zinc concentrates	141,232	11,518,874	6,737	188,548	10,612(d)	...	127,932,850
Iron pyrites concentrates..	34,759	79,463	...	...	...	15,928	...
Slags, residues, gold pre- cipitates and bullion	330	845,107	18,869	179,197	276,372	...	...
7 mines shipped to foreign plants -							
Ores	164	2,638	3	214	14,476	...	...
Copper concentrates	79,203	8,811,273	15,160	227,184	37,525,152	...	(d) 366,234
Zinc concentrates	39,883	2,955,750	...	...	...	...	41,459,863
Iron pyrites concentrates..	95,798	270,488	...	...	...	44,635	...
Precipitates	950	229,647	...	...	1,066,747	...	...
TOTAL	1,332,424	70,298,693	256,948	3,095,104	230,829,312	60,563	173,659,817
Value of process supplies, etc. (b) .....	...	18,125,109	...	...	...	...	...
Net Value .....	...	52,173,584	...	...	...	...	...

(a) Certain mines, sometimes operated in Rossland area by several leasees, are usually treated, statistically, as one mine.

(b) Includes freight on ore shipments, smelter charges and purchased electricity.

(c) In addition, cadmium, tellurium and selenium are recovered from these ores.

(d) Lead (pounds).

Table 44 - CONTENT OF ORES, CONCENTRATES, ETC., SHIPPED FROM COPPER-GOLD-SILVER MINES, 1942-1945

		C o n t e n t					
		Tons	Gold fine oz.	Silver fine oz.	Copper pounds	Zinc pounds	Sulphur tons
<u>To Canadian Smelters</u>							
1942 -	Copper ore	760,973	146,412	318,805	28,927,383	...	...
	Copper concentrates	816,793	342,995	4,700,629	234,276,699	...	...
	Zinc concentrates	172,519	11,424	293,259	1,409,389	159,543,348	...
	Pyrite	69,014	...	...	...	...	32,580
	Slag, precipitates, etc.	193	35,146	227,776	129,659	...	...
1943 -	Copper ore	772,641	148,995	373,215	38,948,373	...	...
	Copper concentrates	820,759	320,512	4,502,041	230,639,502	...	...
	Zinc concentrates	181,032	12,397	310,210	1,656,227	167,005,660	...
	Pyrite	65,395	...	...	...	...	32,116
	Slag, precipitates, etc.	198	36,749	240,302	151,001	...	...
1944 -	Copper ore	530,579	79,516	508,091	35,392,376	...	...
	Copper concentrates	757,837	253,193	3,061,569	204,189,160	...	...
	Zinc concentrates	149,522	8,318	227,036	1,508,641	137,386,498	...
	Pyrite	68,064	...	...	...	...	33,178
	Slag, precipitates, etc.	366	34,625	193,697	266,486	...	...
1945 -	Copper ore	518,902	74,200	593,058	41,044,522	...	...
	Copper concentrates	646,079	229,695	2,378,694	172,606,419	...	...
	Zinc concentrates	140,826	5,812	161,511	1,476,682	105,771,054	...
	Pyrite	71,067	...	...	...	...	35,002
	Slag, precipitates, etc.	325	30,094	182,636	12,382	...	...

Table 44 - CONTENT OF ORES, CONCENTRATES, ETC., SHIPPED FROM COPPER-GOLD-SILVER MINES, 1942-1945
(Concluded)

		(continued)					
		Tons	Gold	Silver	C o n t e n t		
			fine oz.	fine oz.	Copper	Zinc	Sulphur
					pounds	pounds	tons
<u>To Foreign Smelters</u>							
1942 - Copper ore .....	...	...	...	...	...	...	...
Copper concentrates and precipitates	101,752	19,892	283,596	50,619,295	...	...	...
Zinc concentrates	92,135	...	...	...	94,931,818	...	...
Pyrite	310,479	...	...	...	...	...	150,199
1943 - Copper ore .....	...	...	...	...	...	...	...
Copper concentrates and precipitates	94,714	20,410	299,753	45,227,248	...	...	...
Zinc concentrates	131,418	85	3,797	...	134,809,240	...	...
Pyrite	219,181	...	...	...	...	...	107,339
1944 - Copper ore .....	...	...	...	...	...	...	...
Copper concentrates	84,920	18,194	306,198	39,940,660	943,067(*)	...	...
Zinc concentrates	125,465	421	11,575	...	128,873,442	...	...
Pyrite	182,007	...	...	...	...	...	88,595
Slag, precipitates, etc.	570	3	69	705,277	...	...	...
1945 - Copper ore .....	...	...	...	...	...	...	...
Copper concentrates	52,742	14,267	174,272	25,967,476	1,511,353(*)	...	...
Zinc concentrates	91,845	554	14,705	...	94,831,659	...	...
Pyrite	156,667	...	...	...	...	...	75,201
Precipitates	698	...	...	963,905	...	...	...

(*) Lead.

Table 45 - DETAILS OF FUEL AND ELECTRICITY USED IN THE COPPER-GOLD-SILVER MINING INDUSTRY, 1946 and 1947

Kind	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Cost at plant \$	Quantity	Cost at plant \$
Bituminous coal -					
(a) From Canadian mines	short ton	7,249	68,791	8,005	82,135
(b) Imported	short ton	1,941	27,887	1,698	22,609
Sub-bituminous (Alberta)	short ton	...	...	12,757	83,100
Anthracite coal—from United States..	short ton	82	1,577	117	2,276
Lignite coal	short ton	45,288	176,148	61,643	292,613
Coke (for fuel only)	short ton	91	1,537	59	970
Gasoline	Imp.gal.	98,876	33,974	158,133	57,994
Kerosene or coal oil	Imp.gal.	7,196	1,971	10,573	3,033
Fuel oil and diesel oil	Imp.gal.	820,897	115,428	1,387,825	191,520
Wood (cords of 128 cu.ft. of piled wood)	cord	3,777	15,671	1,247	8,530
Other fuel	pound	3,600	82	...	696
Electricity purchased, including service charges	K.W.H.	264,970,106	709,856	252,360,554	616,414
Total .....	...	...	1,152,925	...	1,361,890
Electricity generated for own use ...	K.W.H.	57,484,069	...	92,469,115	...
Electricity generated for sale	K.W.H.	785,157	12,219	943,713	14,298
Process supplies consumed (explosives, etc.) .....	...	...	4,022,508	...	4,663,138
GRAND TOTAL VALUE OF FUEL AND PROCESS SUPPLIES CONSUMED .....	...	...	5,175,433	...	6,035,028

Table 46 - SPECIFIED DATA RELATING TO THE COPPER-GOLD-SILVER MINING INDUSTRY, 1943-1947 (a)

Year	Producing Mines						Non-producing Mines			
	Electricity purchased	Total cost of purchased fuel and power used	Hydraulic turbines used	Process supplies used	Freight on ore, etc., shipped	Smelter treatment charges	Electricity purchased	Total cost of purchased fuel and power used	Hydraulic turbines used	Process supplies used
	k.w.h.	\$	h.p.	\$	\$	\$ (b)	k.w.h.	\$	h.p.	\$
1933 ...	68,188,303	387,512	9,300	(c)	(c)	(c)	453,000	17,513	609	(c)
1934 ...	90,097,659	526,941	9,300	(c)	(c)	(c)	1,108,500	15,729	...	(c)
1935 ...	91,828,181	520,724	9,300	2,892,443	(c)	(c)	1,108,500	13,428	...	6,689
1936 ...	71,134,263	441,132	9,300	3,127,527	(c)	(c)	2,253,803	54,711	...	28,698
1937 ...	199,045,597	871,002	9,300	4,808,504	344,818	9,735,199	...	30,086	...	43,341
1938 ...	214,930,438	1,049,525	9,300	4,746,850	960,791	13,639,953	5,501,100	50,959	609	96,833
1939 ...	247,180,650	1,203,878	8,900	5,539,545	1,582,350	16,587,402	2,119,520	19,645	1,250	46,071
1940 ...	270,601,445	1,297,454	8,900	5,812,178	882,653	17,378,092	...	...	...	...
1941 ...	251,488,789	1,264,533	10,520	5,504,530	1,873,728	25,964,492	...	34	...	1,425
1942 ...	259,238,497	1,333,969	8,900	5,682,271	1,932,958	26,483,998	108,000	4,768	...	21,184
1943 ...	269,523,279	1,413,989	8,900	5,493,875	1,353,139	21,409,079	...	12,721	...	12,840
1944 ...	282,411,942	1,401,935	8,900	5,170,105	720,920	16,898,032	...	308	...	476
1945 ...	243,557,533	1,154,097	8,900	4,870,144	1,240,533	13,800,559	443,000	21,819	...	...
1946 ...	260,558,741	1,094,763	8,900	3,917,754	939,213	10,755,921	4,411,365	58,182	...	104,774
1947 ...	244,608,803	1,280,824	8,900	4,471,350	1,079,677	11,020,404	7,751,751	81,066	...	191,808

(a) Not including smelters or refineries.

(b) Partly conjectural.

(c) Not available.

Table 47 - SPECIFIED DATA RELATING TO THE COPPER-GOLD-SILVER MINING INDUSTRY, 1933-1947(x)

Year	Wage- earners	Wages paid	Average per capita wages paid	Salaried employees	Salaries paid	Total salaries and wages
	No.	\$	\$ (*)	No.	\$	\$
Producing Mines						
1933	2,590	3,550,417	1,371	123	275,650	3,826,067
1934	2,878	4,357,517	1,514	168	413,127	4,770,644
1935	2,946	4,144,095	1,407	207	473,988	4,618,083
1936	3,328	4,608,774	1,385	308	708,200	5,316,974
1937	4,618	7,019,595	1,520	436	1,058,082	8,077,677
1938	5,051	7,694,141	1,523	418	1,075,014	8,769,155
1939	5,401	8,498,360	1,573	470	1,126,561	9,624,921
1940	5,605	9,434,060	1,683	479	1,313,509	10,747,569
1941	5,324	9,249,863	1,737	524	1,428,993	10,678,856
1942	4,945	9,442,054	1,909	608	1,524,584	10,966,638
1943	5,042	9,931,712	1,970	629	1,764,200	11,695,912
1944	4,539	8,927,879	1,967	602	1,721,494	10,649,373
1945	3,936	7,788,083	1,966	583	1,608,225	9,396,308
1946	4,105	7,865,062	1,916	531	1,656,938	9,522,000
1947	4,560	11,054,766	1,988	660	2,094,327	13,149,093
Non-producing mines						
1933	92	81,998	...	36	30,713	112,711
1934	87	65,485	...	36	33,672	99,157
1935	248	367,685	...	29	54,428	422,113
1936	84	119,084	...	18	37,267	156,351
1937	84	126,155	...	26	36,782	162,937
1938	93	129,246	...	15	23,064	152,310
1939	186	256,999	...	26	36,671	295,670
1940	18	18,746	...	13	11,512	30,258
1941	12	10,449	...	6	5,718	16,167
1942	71	107,532	...	22	23,242	130,774
1943	51	79,818	...	26	31,097	110,915
1944	14	20,348	...	20	40,350	60,698
1945	97	180,861	...	42	86,443	267,304
1946	278	601,289	...	44	121,198	722,487
1947	388	951,269	...	55	176,595	1,127,864

(x) Not including smelters or refineries.

(*) Including any bonus paid.

Table 48 - CLASSIFICATION OF WORKMEN EMPLOYED IN THE COPPER-GOLD-SILVER MINING INDUSTRY, BY PROVINCES, 1945-1947

	Surface		Underground	Mill		TOTAL	
	Male	Female	Male	Male	Female	Male	Female
Total Canada 1945	1,314	85	1,919	653	62	3,887	147
Total Canada 1946	1,779	61	1,909	608	26	4,296	87
1947							
Quebec	568	6	846	179	10	1,593	16
Ontario	3	...	...	...	...	3	...
Manitoba	253	22	285	57	...	595	22
Saskatchewan	537	8	506	150	...	1,193	8
British Columbia	252	24	485	360	9	1,097	33
TOTAL CANADA	1,613	60	2,122	746	19	4,481	79

Table 49 - POWER EQUIPMENT (Including stand-by or emergency equipment) IN THE COPPER-GOLD-SILVER MINING INDUSTRY IN CANADA, 1947

Description	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power	Number of units	Total horse power
Steam engines .....	...	...	...	...
Steam turbines	1	1,341	3	1,000
Diesel engines	15	4,192	3	710
Gasoline, gas and oil engines, other than Diesel engines	3	285	2	245
Hydraulic turbines or water wheels	6	8,900	...	...
Electric motors (except motor-generator sets) -				
(a) Operated by purchased power	2,760	95,769	289	10,178
Total	2,785	110,487	297	12,133
(b) Operated by power generated by above primary units	604	18,294	50	14,845
Stationary boilers	27	4,217	4	951
Motor-generator sets	115	36,128	7	188

Table 50 - TAXES PAID BY THE COPPER-GOLD-SILVER MINING INDUSTRY IN CALENDAR YEARS 1946 and 1947

	1946	1947
	\$	\$
Dominion income tax, including tax on non-operating revenue	3,219,764	5,118,456
Dominion excess profits tax	4,967,843	3,607,674
Provincial tax	1,788,132	2,276,528
Municipal tax	264,911	490,600
GRAND TOTAL TAXES PAID	10,240,650	11,493,258

Table 51 - SPECIFIED EXPENDITURES BY THE COPPER-GOLD-SILVER MINING INDUSTRY, 1945-1947

	1945	1946	1947
	\$	\$	\$
Workmen's compensation	412,603	495,645	576,387
Silicosis assessment	96,004	91,062	134,213
Unemployment insurance	66,238	67,076	68,216
Aggregate cost of all supplies purchased	8,314,676	8,710,123	8,704,411
Aggregate cost of plant and equipment purchased ..	434,764	1,174,342	1,508,447
Cost of buildings, machinery and equipment erected or installed during year	424,066	1,845,259	1,953,974

Table 52 - COST OF PROSPECTING CONDUCTED BY THE COPPER-GOLD-SILVER MINING INDUSTRY, BY PROVINCES, 1946 and 1947

Conducted in -	1946	1947	Conducted in -	1946	1947
	\$	\$		\$	\$
Nova Scotia .....	...	...	Saskatchewan	8,257	...
New Brunswick .....	...	...	British Columbia	41,946	10,887
Quebec	319,395	205,492	Yukon .....	...	28,883
Ontario	55,134	38,485	Northwest Territories	40	...
Manitoba	465,078	67,812	TOTAL	889,850	351,559

Table 53 - ORES MINED, MILLED, AND CONCENTRATES PRODUCED BY THE COPPER-GOLD-SILVER MINING INDUSTRY, 1933-1947

Year	Ore mined tons	Ore milled tons	Copper concentrates produced (d) tons	Zinc concentrates produced tons	Iron pyrites concentrates produced tons	Net value of all estimated mine and mill shipments (c) \$
1933	5,448,690	4,521,301	521,399	88,645	59,354	7,707,270(a)
1934	6,065,692	5,127,189	587,045	81,811	80,684	8,265,071(a)
1935	5,650,665	4,693,387	614,942	96,466	66,700	16,676,447(a)
1936	5,052,222	4,091,570	503,650	101,303	105,669	19,271,965(a)
1937	6,749,809	5,802,031	630,664	116,698	201,494	30,655,784(b)
1938	7,929,434	6,961,188	756,065	123,887	173,444	34,739,439(b)
1939	8,474,855	7,760,725	828,963	105,842	161,238	32,991,716(b)
1940	8,931,291	8,325,979	930,622	126,346	172,500	34,914,051(b)
1941	9,263,071	8,402,656	974,250	187,622	309,050	36,990,853(b)
1942	8,575,626	7,816,813	858,580	264,739	219,874	40,730,834(b)
1943	8,251,579	7,482,831	914,360	315,670	292,007	50,774,104(b)
1944	7,395,608	6,873,542	870,726	276,737	257,423	44,770,863(b)
1945	5,914,580	5,441,121	730,724	229,980	228,618	44,258,780(b)
1946	5,009,490	4,606,503	661,554	219,985	201,873	42,609,415(b)
1947	5,462,233	5,140,376	662,088	185,630	178,263	58,198,612(b)

(a) Value f.o.b. mine and presumed gross value less freight and treatment charges which were not reported separately by operators prior to 1937.

(b) Gross value reported by operators less only freight and treatment costs deducted by Dominion Bureau of Statistics.

(c) Includes the value of any cyanide precipitate shipped from mills to smelters.

(d) Exclusive of copper precipitate 1943-1947.

Table 54 - CANADIAN SILVER PRODUCTION ACCORDING TO NATURE OF ORES, BY PROVINCES, 1947

Province	Crude placer gold	Auriferous quartz ores	Copper-gold-silver ores	Nickel-copper ores	Silver-lead-zinc ores	Silver-cobalt and other ores	TOTAL
				(ounces)			
Nova Scotia .....	...	97	...	...	...	...	97
Quebec .....	...	107,871	858,927	...	1,167,391	...	2,134,189
Ontario .....	...	582,310	...	1,434,652	23,261	301,809	2,342,032
Manitoba .....	...	6,486	417,879	...	...	...	424,365
Saskatchewan ...	...	...	1,282,546	...	...	...	1,282,546
Alberta	16	...	...	...	...	...	16
British Columbia	770	38,525	307,198	...	5,556,874	...	5,903,367
Northwest Territories ..	6	16,535	...	...	...	28,814	45,355
Yukon	9,699	...	...	...	362,352	...	372,051
CANADA	10,481	751,824	2,866,550	1,434,652	7,109,878	330,623	12,504,018

Table 55 - CANADIAN COPPER PRODUCTION (RECOVERABLE) ACCORDING TO NATURE OF ORE AND BY PROVINCES, 1944-1947

Province and Year	From copper-gold-silver ores	From nickel-copper ores	From gold and other ores	TOTAL
				(Pounds)
1944 - Quebec	107,150,904	...	904,268	108,055,172
Ontario	4,508,996	280,790,592	7,690	285,307,278
Manitoba	43,878,639	...	...	43,878,639
Saskatchewan	73,514,499	...	...	73,514,499
British Columbia	35,997,974	...	304,654	36,302,628
Northwest Territories	...	...	11,902	11,902
TOTAL CANADA	265,051,012	280,790,592	1,228,514	547,070,118

Table 55 - CANADIAN COPPER PRODUCTION (RECOVERABLE) ACCORDING TO NATURE OF ORE AND BY PROVINCES, 1944-1947
(Concluded)

Province and Year	(concluded)			T O T A L
	From copper- gold-silver ores	From nickel- copper ores	From gold and other ores	
	(pounds)			
1945 - Quebec	101,940,882	...	744,187	102,685,069
Ontario .....	...	239,450,083	792	239,450,875
Manitoba	41,126,155	...	...	41,126,155
Saskatchewan	65,900,701	...	...	65,900,701
British Columbia	25,613,355	...	137,897	25,751,252
TOTAL CANADA	234,581,093	239,450,083	882,876	474,914,052
1946 - Quebec	68,939,908	...	857,789	69,797,697
Ontario .....	...	179,421,176	3,463	179,424,639
Manitoba	38,501,047	...	...	38,501,047
Saskatchewan	62,712,954	...	...	62,712,954
British Columbia	17,430,549	...	69,989	17,500,538
TOTAL CANADA	187,584,458	179,421,176	931,241	367,936,875
1947 - Quebec	84,770,146	...	351,282	85,121,428
Ontario .....	...	227,860,515	7,098	227,867,613
Manitoba	30,631,788	...	...	30,631,788
Saskatchewan	66,301,926	...	...	66,301,926
British Columbia	41,766,876	...	33,482	41,800,358
TOTAL CANADA	223,470,716	227,860,515	391,862	451,723,093

Table 56 - PRODUCTION OF REFINED COPPER(*) IN CANADA, 1933-1947

Year	Short tons	Year	Short tons
1933	112,245	1941	278,224
1934	149,261	1942	268,447
1935	173,290	1943	251,495
1936	191,595	1944	256,244
1937	215,080	1945	237,457
1938	227,240	1946	204,016
1939	251,684	1947	202,427
1940	261,878		

(*) In all forms and from all sources, including scrap.

Table 57 - DRILLING COMPLETED ON COPPER-GOLD-SILVER DEPOSITS IN CANADA, 1946 and 1947

	Footage Drilled	
	1946	1947
Diamond drilling for exploration (testing only) -		
By mining companies with their own personnel and equipment..	71,786	102,549
By diamond drilling contractors	381,898	325,403
Other diamond drilling -		
Blast hole diamond drilling		
By mining companies with their own personnel and equipment	700,436	706,848
By diamond drilling contractors .....	...	...
Drilling by percussion or other machines (*)	2,829,740	3,715,406

(*) Not complete as these data are not recorded by some operators.

Table 58 - ORE RESERVES OF SPECIFIED COPPER-GOLD-SILVER MINING COMPANIES (*)

	Tons	Copper Per cent	Zinc Per cent	Gold Ounces per ton	Silver Ounces per ton
<u>Noranda Mines Ltd., January 1, 1948 -</u>					
Indicated above the 2,975 foot level:					
Sulphide ore over 4 per cent copper	4,800,000	7.15	...	0.160	...
Sulphide ore under 4 per cent copper	14,480,000	0.66	...	0.195	...
Silicious fluxing ore	838,125	0.11	...	0.108	...
Capacity of mill: 24 hours	3,000	...	...	...	...
<u>Waite Amulet Mines Ltd., December 31, 1947 -</u>					
Waite mine	3,500	5.0	1.0	0.035	0.45
Other Waite Amulet ore bodies:					
"F" orebody	30,000	3.2	9.9	0.01	1.01
"C" shaft orebodies	24,000	2.0	9.07	0.02	4.0
Amulet Dufault - Lower "A" orebody	1,584,066	5.8	4.0	0.045	1.5
Upper "A" orebody	123,220	2.0	6.5	0.07	1.6
Capacity of mill: 24 hours	1,800	...	...	...	...
<u>Normetal Mining Corp. Ltd., December 31, 1947 -</u>					
No. 2 orebody	1,680,800	3.78	7.01	...	...
No. 3 orebody	79,200	.80	20.81	...	...
Capacity of mill: 24 hours	750	...	...	...	...
<u>Sherritt Gordon Mines Ltd., December 31, 1946 -</u>					
West orebody	1,008,000	2.60	1.99	0.021	0.65
Capacity of mill: 24 hours	750	...	...	...	...
<u>Hudson Bay Mining & Smelting Co. Ltd., January 1, 1948 -</u>					
Ore reserves	22,700,000	3.0	4.3	0.084	1.20
Capacity of mill: 24 hours	6,000	...	...	...	...
<u>Granby Cons. Mining, Smelting & Power Co. Ltd., 1947</u>					
Ore reserves	9,042,000	1.25	...	...	...
Capacity of mill: 24 hours	(x)	...	...	...	...
<u>Britannia Mining & Smelting Co. Ltd. -</u>					
Capacity of mill: 24 hours	6,000	...	...	...	...

(*) Subject to revision.

(x) Not reported.

Table 59 - SELENIUM AND TELLURIUM COMMERCIALY RECOVERED FROM CANADIAN ORES, 1938-1947

Year	From Copper-Gold-Silver Ores		From Nickel-Copper Ores		T O T A L	
	Selenium	Tellurium	Selenium	Tellurium	Selenium	Tellurium
	(pounds)					
1938	304,352	48,237	54,577	...	358,929	48,237
1939	23,841	2,940	126,930	...	150,771	2,940
1940	43,510	...	136,350	3,491	179,860	3,491
1941	264,432	...	142,498	11,453	406,930	11,453
1942	419,369	1,584	76,000	9,500	495,369	11,086
1943	292,013	...	82,000	8,600	374,013	8,600
1944	233,592	761	65,000	9,900	298,592	10,661
1945	211,187	484	168,000	...	379,187	484
1946	251,261	1,648	270,606	14,200	521,867	15,848
1947	354,684	3,025	146,406	6,189	501,090	9,194

Table 60 - CANADIAN ZINC PRODUCTION (RECOVERABLE) ACCORDING TO NATURE OF ORE AND BY PROVINCES, 1944-1947

Year and Province	Recovered from Copper-Gold-Silver Ores	Recovered from Silver-Lead-Zinc and Other Ores (pounds)	TOTAL
1944 - Quebec	78,069,636	59,308,803	137,378,439
Ontario .....	...	2,429,176	2,429,176
Manitoba	45,822,278	...	45,822,278
Saskatchewan	87,130,087	...	87,130,087
British Columbia ...	1,953,077	276,110,296	278,063,373
CANADA	212,975,078	337,848,275	550,823,353
1945 - Quebec	64,798,734	47,110,831	111,909,565
Ontario .....	...	237,799	237,799
Manitoba	34,860,754	...	34,860,754
Saskatchewan	75,413,851	...	75,413,851
British Columbia ...	...	294,791,635	294,791,635
CANADA	175,073,339	342,140,265	517,213,604
1946 - Quebec	49,881,428	39,768,701	89,650,129
Ontario .....	...	42,628	42,628
Manitoba	35,580,537	...	35,580,537
Saskatchewan	71,077,110	...	71,077,110
British Columbia ...	...	274,269,956	274,269,956
CANADA	156,539,075	314,081,285	470,620,360
1947 - Quebec	35,078,583	34,384,342	69,462,925
Ontario .....	...	...	...
Manitoba	27,753,131	...	27,753,131
Saskatchewan	65,503,602	...	65,503,602
British Columbia ...	4,164,033	248,842,135	253,006,168
CANADA	132,499,349	283,226,477	415,725,826

Table 61 - REFINED ZINC PRODUCED IN CANADA, 1935-1947

Year	Short tons	Year	Short tons
1935	149,523	1942	215,795
1936	151,103	1943	206,510
1937	158,542	1944	168,518
1938	171,932	1945	182,267
1939	175,641	1946	185,683
1940	185,722	1947	178,264
1941	213,608		

Table 62 - CADMIUM RECOVERED FROM CANADIAN ORES, 1938-1947

Year	From Copper-Gold- Silver Ores	From Silver-Lead- Zinc Ores (pounds)	TOTAL
1938	188,796	510,342	699,138
1939	140,438	799,253	939,691
1940	129,336	778,791	908,127
1941	169,917	1,081,374	1,251,291
1942	176,550	972,413	1,148,963
1943	187,938	598,673	786,611
1944	140,560	386,410	526,970
1945	135,632	510,432	646,064
1946	166,333	636,315	802,648
1947	172,896	545,638	718,534

Table 63 - AVERAGE ANNUAL METAL PRICES, IN CANADIAN DOLLARS, 1930-1947

Year	Gold	Silver	Copper	Lead	Zinc
	Troy oz.	Troy oz.	Pound (Dollars)	Pound (*)	Pound (*)
1930	20.67	0.381	0.130 (x)	0.039	0.036
1931	21.55	0.298	0.0837 (x)	0.027	0.025
1932	23.47	0.317	0.0638	0.021	0.024
1933	28.60	0.378	0.0745	0.024	0.032
1934	34.50	0.475	0.0742	0.024	0.030
1935	35.19	0.648	0.0780	0.031	0.031
1936	35.03	0.451	0.0948	0.039	0.033
1937	34.99	0.449	0.131	0.051	0.0490
1938	35.17	0.435	0.0997	0.034	0.031
1939	36.14	0.405	0.101 (*)	0.032	0.031
1940	38.50	0.382	0.101	0.034	0.034
1941	38.50	0.3826	0.101	0.034	0.034
1942	38.50	0.4216	0.101	0.034	0.034
1943	38.50	0.4525	0.117	0.037	0.040
1944	38.50	0.43	0.12	0.045	0.043
1945	38.50	0.47	0.1255	0.05	0.0644
1946	36.75	0.836	0.128	0.067	0.078
1947	35.00	0.72	0.2039	0.1367	0.1123

(x) Based on New York; 1932-1947 based on London and calculated Canadian prices.

(*) Based on London; prices controlled and adjusted by Government since 1939 and subject to final revision.

ROYAL CANADIAN MINT

The Ottawa Mint, established as a branch of the Royal Mint under the (Imperial) Coinage Act, 1870, and opened up 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 Bank of Canada in the form of bars, the rest being sold in convenient form to manufacturers.

The domestic gold currency of Canada, as at present authorized by the Currency Act, consists of \$20, \$10, \$5 and \$2½ gold pieces, 900 millesimal fineness (only \$10 and \$5 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 2/3, 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, or 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 metal, $3\frac{1}{2}$ cents the ounce.
 Over 10 per cent but not over 15 per cent base metal, $4\frac{1}{4}$ 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.

A handling charge at the rate of 20 cents the ounce fine, to cover costs of realization in a market outside Canada, shall be made on all newly-mined 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 charges under this paragraph are in addition to the Mint charges payable under Clause 5 of the Mint Regulations and are effective on and after July 27, 1946.

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 of 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 the 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, under Clause 4 of the Regulations, for silver in excess of one per centum of the weight of deposits received in any week, shall average for that week of the official New York daily quotation for fine silver, from Monday to Friday, inclusive, converted into Canadian funds at the average of the Foreign Exchange Control Board's buying rate for United States funds. This Instruction shall become effective for the week commencing Monday, December 9, 1946.

Coinage

There was a decrease of \$583,700 in the amount of coin issued during 1947 as compared with the previous year. A detailed statement of the issues by denominations for the years 1946 and 1947 is set out below:

Denomination -	Coin issued in	
	1946	1947
	\$	\$
Silver coin: 1 dollar	91,000.00	67,000.00
50 cents	400,000.00	278,000.00
25 cents	556,000.00	397,000.00
10 cents	654,000.00	444,000.00
Total Silver	1,701,000.00	1,186,000.00
Nickel coin: 5 cents	291,500.00	391,000.00
Bronze coin: 1 cent	528,500.00	360,300.00
TOTAL	2,521,000.00	1,937,300.00
Representing	Number of Pieces	
	68,335,000	50,501,000

Distribution of the coin issued to the various agencies of the Bank of Canada was as follows:

	Silver				Nickel	Bronze
	Dollar	50 cents	25 cents	10 cents		
	\$	\$	\$	\$	\$	\$
Calgary .....	...	4,000	4,000	36,000	31,000	25,200
Charlottetown .....	...	...	...	...	1,000	...
Halifax	2,000	...	2,000	2,000	6,000	6,500
Montreal	14,000	2,000	52,000	50,000	65,000	97,000
Ottawa	9,000	2,000	79,000	38,000	22,500	10,900
Regina .....	...	36,000	24,000	28,000	37,000	23,500
Saint John .....	...	2,000	32,000	16,000	16,000	10,500
Toronto	36,000	162,000	134,000	226,000	110,500	139,700
Vancouver .....	...	70,000	...	34,000	58,000	18,000
Winnipeg	6,000	...	70,000	14,000	44,000	29,000
	67,000	278,000	397,000	444,000	391,000	360,300

Worn and mutilated coin withdrawn from circulation -

	Withdrawn	Net Increase in Circulation
	\$	\$
Silver coin	80,563.50	1,105,436.50
Nickel coin--5 cents (mutilated only) ...	986.40	390,013.60
Tombac coin--5 cents	286,797.70	...
Steel coin--5 cents	201.45	...
Bronze coin	2,519.55	357,780.45

Gold Bullion

Four thousand and thirty-three deposits of gold bullion were received at the Mint during the year from Canadian Mining Companies, the Dominion of Canada Assay Office, Vancouver, and sundry persons. The gross weight of the deposits amounted to 3,559,497 ounces, containing, by assay, 2,868,469 ounces fine gold and 411,269 ounces fine silver. The receipts show an increase as compared with the year 1946 of 457 in the number of deposits, gross weight 288,251 ounces, gold content 216,224 ounces fine and fine silver 39,034 ounces.

The net amount paid by cheque to depositors was \$97,467,163.78. In addition, 12,558.323 ounces of fine gold with a statutory value of \$259,603.97 was also issued in payment of gold deposits.

Postage collected for the Postmaster General on deposits shipped by mail, postage collect, amounted to \$17,810.37.

Details of the origin of the bullion deposited at Vancouver and Ottawa are shown in the following table.

Source	Gross Weight	Fine Gold (ounces)	Fine Silver
From Canadian Mines and Refineries -			
Ontario	2,247,383.904	1,828,959.546	243,677.74
Quebec	885,385.675	719,195.467	105,723.34
British Columbia	164,422.215	128,370.155	25,383.65
Manitoba	84,487.575	65,525.044	6,605.53
Yukon	59,740.325	47,680.003	9,699.04
Nova Scotia	1,286.800	1,163.282	44.40
Northwest Territories	83,870.090	60,508.658	16,143.13
Alberta and Saskatchewan	119.870	81.447	16.92
Total from Mines and Refineries..	3,526,696.454	2,851,483.602	407,293.75
From Jewellery and Scrap	34,333.849	17,265.341	4,405.29
GRAND TOTAL	3,561,030.303	2,868,748.943	411,699.04

A detail of the fine gold issued in the form of trade bars to the Bank of Canada, and granulated, sweep and medals to sundry persons is shown hereunder -

	Ounces Fine
6,811 Trade bars to Bank of Canada	2,724,800.999
Depositors	12,558.323
Sales to Manufacturers	113,834.606
Proof Plate	0.500
Medals	16.433
Sweep	7,873.357
	<u>2,859,084.218</u>

This total shows an increase of 193,119.455 ounces fine as compared with the year 1946.

Summary of Transactions in Gold Bullion of the Ottawa Branch of the Royal Mint from its opening on the 2nd January, 1908, to its disestablishment on the 30th November, 1931, and of the Royal Canadian Mint from the 1st December, 1931, to the 31st December, 1947

Year	Gold Received		Gold Issued		
	Gross Weight	Value (Statutory)	Coin	Bullion	Statutory Value
	Ounces	Gold Only			Coin and Bullion
		\$	\$	Ounces fine	\$
1908 to 1936	53,910,494.021	910,817,142.05	7,923,878.73	43,634,524.862	909,929,577.75
1937	4,959,970.893	81,311,693.73	...	3,937,910.698	81,403,837.11
1938	5,601,260.642	90,920,063.13	...	4,308,067.369	89,055,654.13
1939	6,181,336.290	100,656,105.55	...	4,834,214.285	99,932,075.82
1940	6,295,218.554	103,169,970.38	30.00	5,026,792.728	103,913,055.43
1941	6,444,056.215	105,273,560.67	...	5,134,347.805	106,136,385.78
1942	5,761,045.973	95,338,135.90	...	4,611,892.227	95,336,270.79
1943	4,456,437.559	74,769,168.35	...	3,645,739.964	75,364,131.92
1944	3,537,734.636	59,163,794.79	...	2,829,755.000	58,496,226.17
1945	3,102,991.020	51,750,218.87	...	2,499,163.674	51,662,297.22
1946	3,271,246.445	54,826,765.59	...	2,665,964.763	55,110,381.61
1947	3,559,496.703	59,296,515.31	...	2,859,084.218	59,102,514.80
	<u>107,081,288.951</u>	<u>1,787,293,134.32</u>	<u>7,923,908.73</u>	<u>85,987,457.593</u>	<u>1,785,442,388.53</u>

BUREAU OF MINES, OTTAWA, EQUIPPED TO SERVE CANADA'S GOLD INDUSTRY
(Bureau of Mines, Ottawa, Canada)

The anticipated expansion in the industry is of special interest to the Bureau of Mines in Ottawa, for if past experience can be used as a guide, the facilities of its Ore Dressing and Extractive Metallurgy Laboratories will be used to work out treatment processes for most of the milling plants that come into operation. Prior to 1941, by far the greater part of the work in the Laboratories was on gold ores from mining areas throughout the Dominion. Gold production had been increasing steadily and for several years in succession the annual value of gold output exceeded that of all the other metals. From 20 to 30 milling plants were entering production each year, and even though additions had been made to its facilities, the Bureau found it difficult at times to handle the many requests for test work on gold ores. To an increasing extent the ores received were refractory, containing either arsenopyrite or pyrite, and frequently such ores require roasting to liberate the gold. Even then the gold recovery is often in the neighbourhood of 90 per cent, compared with recoveries of 95 per cent or higher in the case of ores free of arsenic and pyrite.

Ores from several of the gold prospects which have been receiving active exploratory attention are known to be refractory to a varying degree and thus the experience gained by the Bureau in working out treatment methods for these types of ores will be of particular advantage. For its work on gold and other metallic ores, the Bureau has all the necessary equipment for small and large-scale tests, and the layout allows for flexibility in the devising of flow sheets. For large-scale work the equipment includes a sampling plant with a capacity of four tons an hour; two large grinding units with classifiers; three batteries of flotation machines; small ball mill units for use in grinding middlings; a gravity concentrative section with a full deck Wilfley table and three tables of quarter deck size; a pair of jigs; magnetic concentrating equipment, comprising various types of high and low intensity separators; a sink-and-float pilot plant; a precipitating unit; and a small cyanide plant with four agitators and thickeners and drum type filter and accessories. Fully equipped laboratories are also maintained for assay, chemical microscopic and spectroscopic analyses.

Samples of ores from a few hundred pounds to 50 tons or more are accepted for investigative work, and a staff of engineers undertakes the development of the most economic method of treatment, and prepare a report detailing the results that may be anticipated and a flow sheet by which such results may be attained. The samples originate from prospectors; prospecting and mining syndicates; the mining companies that develop the properties to a stage where a milling plant is erected; consulting engineers; contractors who design and erect the plants; and operating companies who may be experiencing difficulties in their extraction methods, or who are endeavouring to improve their methods of treatment.

Conditions governing the shipment and acceptance of samples of ores, minerals and metallurgical products for examination and test are as given below.

The application should state the exact location of the property from which the sample was taken and the nature of the test work desired.

Samples should be representative of the grade and character of the ore that it is proposed to treat. According to the nature and scale of the tests desired, the size of the sample should be within the following ranges:

1. For examination and identification of the mineral constituents only--from a few pounds up to 100 pounds.
2. For examination and preliminary tests--100 pounds to 1,000 pounds.
3. For examination, preliminary tests, and for small-scale continuous tests--2 to 5 tons.
4. For large-scale continuous tests on tonnage check basis--5 tons to carload lots.

All samples under two tons in weight must be bagged and properly tagged. Two tons or over may be shipped in bulk if desired.

All transportation charges must be paid by the shipper. These charges must be prepaid, except on shipments from points where there is no Agent, in which case the Bureau of Mines will pay and will bill the shipper for the amount. No examination or test work will be made until reimbursement of such payment is made.

In addition to the transportation charges, the shipper of bulk or tonnage samples intended for analysis only must pay a fee based on the size of the bulk sample and on the elements determined. This fee is payable in advance of submittal of the report of the analysis.

Information regarding the results of any work undertaken in the Laboratories, whether contained in a report or in related correspondence shall not be used as publicity or advertising matter for the sale of shares in any promotion.

Shipments should be addressed to "The Ore Dressing and Extractive Metallurgy Laboratories, Bureau of Mines, 552 Booth Street, Ottawa, Canada".

Co-operation of the shipper's representative and consulting engineers in doing the test work is welcomed, and in this connection it may be noted that the facilities of the Laboratories have been used at various times by several mining companies in working out some particular problem or process, using their own staff, with the guidance of the Bureau's engineers.

Although research and investigative work in ore dressing and extractive metallurgy has been left mainly with the Dominion Government, the provinces of British Columbia, Ontario, Quebec and Nova Scotia have separately established less pretentious laboratories that have been of noticeable assistance to the mineral industries in the respective provinces. The other provinces, where mining is on a smaller scale, have no special laboratory facilities for such work, except in some respects through provincial assistance to university laboratories.

In British Columbia, the Metals and Minerals Division of the British Columbia Industrial and Scientific Research Council is carrying on the work of the British Columbia War Metals Research Board which ceased to function at the close of 1944. Its laboratory is housed in the Mining Building of the University of British Columbia and will be available to render useful service within the Province to the mineral industry.

In Ontario, the Ontario Research Foundation in Toronto does a very limited amount of ore dressing work, but does considerable work on other metallurgical problems. The Foundation is almost self-sustaining by means of service charges from industry. The Ontario Department of Mines provides an assay and mineral identification service to prospectors free of charge or at nominal cost.

The Province of Quebec provides a service through its Department of Mines to prospectors by maintaining well-equipped chemical, assay, spectrographic, and mineralogical laboratories. The Province

has supplied certain universities with ore dressing and metallurgical equipment. For instance, the Laval University Laboratories have been equipped with modern testing facilities.

In Nova Scotia, the Provincial Government has provided the Nova Scotia Technical College with small-scale equipment for test work in ore dressing.

The Bureau of Mines in Ottawa co-operates fully with all the provinces by supplying any information desired and by supplying the provincial departments concerned copies of all reports on investigations on ores originating in the respective provinces.

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D I R E C T O R Y

ACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1947

Name	Head or Executive Office Address	Location
Nova Scotia -		
Consolidated Mining & Smelting Co. of Canada Ltd. K-V Mines A. J. Smith	215 St. James St. W., Montreal, Quebec Gorham St., Liverpool East Chezzeticook	Caribou Mines Mill Village Lake Catcha Dist.
Quebec -		
Abenakis Mines Limited	Room 305, 350 Bay St., Toronto, Ontario	Beauchastel Tp.
Abitibi Mining Corporation	Room 318, 132 St. James St., Montreal	Landrienne Tp.
Abitibi Ventures Limited	249 Ouest rue St. Jacques, Montreal	Val d'Or
Acara Rouyn Mines Ltd.	Suite 1008, 330 Bay St., Toronto, Ontario	Joannes Tp.
Alcan Yellowknife Gold Mines Ltd.	Room 1003, 67 Yonge St., Toronto, Ontario	Bourlamaque Tp.
Aldu Mines Ltd.	c/o Joseph Newman, 4 Albert St., Toronto, Ontario	Clericy Tp.
Alger Gold Mines Ltd.	Room 403, 357 Bay St., Toronto, Ontario	Cadillac Tp.
Amalgamated Chibougamou Gold Mines Ltd.	Room 301, 215 St. James St. W., Montreal	Roy Tp.
Amlartic Gold Mines Limited	Suite 1008, 330 Bay St., Toronto, Ontario	Vassan Tp.
Andar Gold Mines Ltd.	Suite 1008, 330 Bay St., Toronto, Ontario	Joannes Tp.
Anglo Rouyn Mines Ltd.	Suite 706, 100 Adelaide St., Toronto, Ontario	Rouyn Tp.
Angus Mines Ltd.	7000 Jeanne Mance St., Montreal	Cadillac
Ansley Gold Mines Ltd.	Suite 1008, 330 Bay St., Toronto, Ontario	Pershing Tp.
Arntfield Mining Corp. Ltd.	Arntfield	Beauchastel Tp.
Astoria Quebec Mines Ltd.	402 Temple Bldg., Toronto, Ontario	Rouyn Tp.
Auf Der Maur Corporation	M.O. Desalles, Co. Charlevoix	Charlevoix Co.
Aukeko Gold Mines Limited	Suite 1008, 330 Bay St., Toronto, Ontario	Rouyn Tp.
Aumaque Gold Mines Limited	Suite 301, 100 Adelaide St. W., Toronto, Ontario	Bourlamaque Tp.
Aubelle Mines Ltd.	Suite 301, 100 Adelaide St. W., Toronto, Ontario	Belleterre
Bachelor Lake Gold Mines Ltd.	Room 209, 330 Bay St., Toronto, Ontario	Bachelor Lake
Bargold Mines Ltd.	25 Kennedy Park Road, Toronto, Ontario	Barraute Tp.
Bar-Lan Gold Mines Ltd.	Room 301, 215 St. James St. W., Montreal	Barraute Tp.
Barmont Mines Ltd.	Room 726, 276 St. Jacques St. Ouest, Montreal	Barraute Tp.
Bassique Mines Ltd.	Room 1010, 100 Adelaide St. W., Toronto, Ontario	Destor Tp.
Barrentier Gold Mines Ltd.	510 Concourse Bldg., Toronto, Ontario	Carpentier Tp.
Batch River Gold Mines Ltd.	Room 209, 330 Bay St., Toronto, Ontario	Lesueur Tp.
Batege Mines Ltd.	726 Insurance Exchange Bldg., Montreal	Landrienne and Barraute Tps.
Beacon Mining Company Limited	Bourlamaque	Louvicoourt Tp.
Beau Rand Gold Mines Ltd.	Room 714, 320 Bay St., Toronto, Ontario	Beauchastel Tp.
Bell Manitou Gold Mine Ltd.	Noranda	Vauquelin Tp.
Belleterre Quebec Mines Ltd.	Belleterre	Belleterre
Bevcourt Gold Mines Ltd.	1700 Royal Bank Bldg., 360 St. James St. W., Montreal	Louvicoourt
Bordulac Mines Ltd.	Room 502, 21 King St. E., Toronto, Ontario	Dasserat Tp.
Buffadison Gold Mines Ltd.	603 Royal Bank Bldg., 2-8 King St. E., Toronto, Ontario	Louvicoourt Tp.

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1947
(Continued)

Name	Head or Executive Office Address	Location
Quebec (Continued) -		
Bellevue Gold Mines Ltd.	Room 1003, 100 Adelaide St. W., Toronto, Ontario	Freville Tp.
Big Game Mines Ltd.	100 Adelaide St. W., Room 706, Toronto, Ontario	Barraute Tp.
Bluenose Pershing Mines Ltd.	Suite 1008, 330 Bay St., Toronto, Ontario	Haig Tp.
Bobjo Mines Ltd.	Room 1405, 302 Bay St., Toronto, Ontario	Duplessis Tp.
Bourcier Kuntz Minerals Exploration Part.	Box 391, Malartic	Duplessis Tp.
Boycon Pershing Gold Mines Limited	Room 209, 330 Bay St., Toronto, Ontario	Vauquelin Tp.
Cache d'Or Gold Mines, Limited	Val d'Or	Bourlamaque Tp.
Calder-Bousquet Holdings Ltd.	100 Adelaide St. W., Room 706, Toronto, Ontario	Bousquet Tp.
Canadian Malartic Gold Mines Ltd.	Suite 2810, 25 King St. W., Toronto, Ontario	Malartic Tp.
Candid Quebec Mines Ltd.	Room 403, 350 Bay St., Toronto, Ontario	Clericy Tp.
Caron Malartic Gold Mines Ltd.	261 St. James St. W., Room 40, Montreal	Fourniere Tp.
Centremaque Gold Mines Ltd.	Room 605, 407 McGill St., Montreal	Bourlamaque Tp.
Celta Development & Mining Co. Ltd.	465 St. John St., Montreal	Malartic Tp.
Central Duparquet Mines Ltd.	Duparquet	Duparquet
Central Mining Corp.	465 St. John St., Montreal	Bourlamaque Tp.
Cerberian Mineral Explorers Limited	73 Adelaide St. W., Toronto, Ontario	Joannes and Urban Tps.
Cheskirk Mines Ltd.	Room 301, 100 Adelaide St., Toronto, Ontario	Rouyn Tp.
Chimo Gold Mines Ltd.	Room 16A, 24 King St. W., Toronto, Ontario	Vauquelin Tp.
Citralam Malartic Mines Ltd.	45 Richmond St. W., Toronto, Ontario	Malartic Tp.
Claremont Mines Ltd.	276, 726 St. James St. W., Montreal	Clericy Tp.
Cluny Gold Mines Ltd.	Suite 506, 357 Bay St., Toronto, Ontario	Belleterre Tp.
Colcourt Mines Ltd.	1700 Royal Bank Bldg., 360 St. James St. W., Montreal	Bourlamaque Tp.
Comana & Co.	465 St. John St., Montreal	Chibougamau Tp.
Consolidated Beattie Mines Ltd.	Duparquet	Duparquet
Consolidated Central Cadillac Mines Ltd.	717 Transportation Bldg., Montreal	Cadillac Tp.
Cortez Explorations Limited	112 Yonge St., Toronto, Ontario	Cadillac Tp.
Courageous Gold Mines Ltd.	45 Richmond St. W., Toronto, Ontario	Louvicourt Tp.
Courtown Gold Mines Co. Ltd.	Room 101, 355 St. James St. W., Montreal	Courville Tp.
Courville Mines Ltd.	Room 17, 24 King St. W., Toronto, Ontario	Courville Tp.
Crangold Mines Ltd.	Room 501, 67 Yonge St., Toronto, Ontario	Senneville Tp.
Croinor Pershing Mines Ltd.	Senneterre	Senneterre Tp.
Cross Fault Gold Mines Ltd.	45 Richmond St. W., Toronto, Ontario	Clericy Tp.
Cuvier Mines Ltd.	Room 301, 215 St. James St. W., Montreal	Urban Tp.
Daljo Gold Mines Ltd.	Suite 1, 26 Adelaide St. W., Toronto, Ontario	Dalquier Tp.
D'Aragon Mines Ltd.	Suite 1323, 67 Yonge St., Toronto, Ontario	Bourlamaque Tp.
De Clercq Mining Limited	St. Joseph de Beauce	Beauce Co.
Destorada Mines Ltd.	26 Adelaide St. W., Toronto, Ontario	Destor Tp.
Destorbelle Mines Ltd.	Suite 1010, 100 Adelaide St. W., Toronto, Ontario	Aigusbelle Tp.
Dome Exploration Co. (Quebec) Ltd.	Bourlamaque	Lesueur and Louvicourt Tps.
Donalda Mines Ltd.	625 Burnside St., Montreal	Rouyn Tp.
Donmaque Gold Mines Ltd.	953 Woodbine Ave., Toronto, Ontario	Bourlamaque Tp.
Don-X Mines Ltd.	1085 Beaver Hall Hill, Montreal	Dufresnoy Tp.
Dorvue Gold Mines Ltd.	501, 67 Yonge St., Toronto, Ontario	Duverny Tp.
Dubuisson Gold Fields Ltd.	355 St. James St. West, Montreal	Dubuisson Tp.
Duquesne Mining Co. Ltd.	112 Yonge St., Toronto, Ontario	Destor
Duvay Gold Mines Ltd.	Suite 501-2, 67 Yonge St., Toronto, Ontario	Duverny Tp.
East Malartic Mines Ltd.	355 St. James St. W., Montreal	Fourniere Tp.
Elder Mines Ltd.	Room 602, 11 King St. W., Toronto, Ontario	Noranda
Eldona Gold Mines Ltd.	402 Temple Bldg., Toronto, Ontario	Rouyn Tp.
El Sol Gold Mines Ltd.	Suite 301, 100 Adelaide St. W., Toronto, Ontario	Bourlamaque Tp.
Elcor Gold Mines Ltd.	Suite 1008, 330 Bay St., Toronto, Ontario	Rouyn and Joannes Tps.
Emens, W. H., Mining Corporation Ltd.	Box 100, Cannington, Ontario	Figuary Tp.
Email Oil Mining Ltd.	28½ Adelaide St. E., Toronto, Ontario	Ducos Tp.

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1947
(Continued)

Name	Head or Executive Office Address	Location
<u>Quebec (Continued) -</u>		
Fayolle, Antoine	Cassier Postal 1229, Rouyn	Dasserat Tp.
Flobec Gold Mines Ltd.	Room 810, 372 Bay St., Toronto, Ontario	Ouillet Tp.
Formaque Gold Mines Ltd.	5225 De Gaspé Ave., Montreal	Bourlamaque Tp.
Found Lake Gold Mines Ltd.	67 Yonge St., Toronto, Ontario	Senneterre Tp.
Francoeur Gold Mines Ltd.	941 Dominion Square Bldg., Montreal	Arntfield
Frebert Snow Lake Mines Ltd.	Suite 1024, 85 Richmond St. W., Toronto, Ontario	Barraute Tp.
Freeport Exploration Company	122 East 42nd Street, New York, N.Y.	Abitibi
Gaymont Mines Ltd.	307 Central Bldg., Toronto, Ontario	Dufresnoy Tp.
Goyette, A. E.	4295 rue St. Hubert, Montreal	Rouyn Tp.
Goldvue Mines Ltd.	Suite 1024, 85 Richmond St. W., Toronto, Ontario	Duvernay Tp.
Garden Mines Ltd.	Suite 1008, 330 Bay St., Toronto, Ontario	Pershing Tp.
Glencona Mining Company Limited	Room 311, 132 St. James St. W., Montreal	Rouyn Tp.
Goldora Mines Ltd.	717 Transportation Bldg., 132 St. James St. W., Montreal	
Golconda Mines Ltd.	276 St. James St. W., Montreal	Bourlamaque Tp.
		Duparquet and Destor Tps.
Golden Cache Mines Ltd.	Suite 1008, 330 Bay St., Toronto, Ontario	Rouyn Tp.
Grancour Gold Mines Ltd.	23 Melinda St., Toronto, Ontario	Vauquelin Tp.
Grand Chibougamau Mines Ltd.	Room 706, 100 Adelaide St. W., Toronto, Ontario	Chibougamau Tp.
Guffy Mines Ltd.	1085 Beaver Hall Hill, Montreal	Dufresnoy Tp.
Harricana Gold Mine Inc.	Room 209, 330 Bay St., Toronto, Ont.	Bourlamaque and Dubuisson Tps.
		Hebecourt Tp.
Hebecourt Gold Mines Ltd.	Room 1008, 132 rue St. Jacques, Montreal	Clericy Tp.
Herbert Mining Co. Ltd.	603 Royal Bank Bldg., Toronto, Ontario	Jeannes Tp.
Heva Gold Mines Ltd.	Suite 301, 100 Adelaide St. W., Toronto, Ontario	Lesueur Tp.
Hewfran Gold Mines Ltd.	Room 620, 12 Richmond St. E., Toronto, Ontario	Beauchastel Tp.
Horne Fault Mines Ltd.	Duparquet	Joannes Tp.
Hosco Gold Mines Ltd.	Suite 504, 357 Bay St., Toronto, Ontario	Ligneris Tp.
Hostee Mines Ltd.	Room 1504, 80 Richmond St. W., Toronto, Ontario	Malartic Tp.
Hugh Malartic Mines Limited	45 Richmond St. W., Toronto, Ontario	Vauquelin Tp.
Insmill Mines Ltd.	355 St. James St. W., Montreal	
Jocor Mines Ltd.	1700 Royal Bank Bldg., 360 St. James St. W., Montreal	Louvicourt Tp.
Joliet-Quebec Mines Ltd.	Room 2810, 25 King St. W., Toronto, Ontario	Rouyn Tp.
Kayrand Mining & Development Co. Ltd.		
Kekelac Gold Mines Ltd.	Room 301, 215 St. James St. W., Montreal	Louvicourt Tp.
Kenda Pershing Mines Ltd.	74 King St. E., Toronto, Ontario	Beauchastel Tp.
Keneco Explorations Ltd.	Senneterre	Senneterre Tp.
Kilroy Gold Mines Ltd.	244 Bay St., Toronto, Ontario	Blondeau Tp.
Klondyke Destor Gold Mines Ltd.	Room 16A, 24 King St. E., Toronto, Ontario	Vauquelin Tp.
Lake Wasa Mining Corp.	402 Temple Bldg., Toronto, Ontario	Destor Tp.
Lamaque Mining Co. Ltd.	Arntfield	Arntfield
Lapaska Mines Ltd.	Bourlamaque	Bourlamaque Tp.
Lake Opawica Mines Ltd.	Suite 1010, 100 Adelaide St. W., Toronto	Louvicourt Tp.
La Pause Gold Mining Corp.	516 Canada Cement Bldg., Montreal	Bachelor Lake
Lavalie Mines Ltd.	708 Notre Dame St. W., Montreal	La Pause Tp.
Lencourt Gold Mines Ltd.	Room 17, 24 King St. W., Toronto, Ontario	Bourlamaque Tp.
	1700 Royal Bank Bldg., 360 St. James St. W., Montreal	
Lake Surprise Mines Ltd.	184 Bay St., Toronto, Ontario	Louvicourt Tp.
Leric Mines Ltd.	c/o Joseph Newman, 4 Albert St., Toronto, Ontario	Chibougamau Tp.
Ligneris Goldfields Limited	301 Concourse Bldg., 100 Adelaide St. W., Toronto, Ontario	Clericy Tp.
Louvicourt Goldfield Corporation	1604 edifice Aldred, Montreal	Ligneris Tp.
Lynalda Gold Mines Ltd.	Suite 402, Temple Bldg., Toronto, Ontario	Louvicourt Tp.
Macho River Gold Mines Ltd.	Room 209, 330 Bay St., Toronto, Ontario	Rouyn Tp.
Malartic Gold Fields Ltd.	355 St. James St. W., Montreal	Urban Tp.
		Dubuisson and Fourniere Tps.
Malartic Lakeshore Gold Mines Ltd.	132 St. James St. W., Montreal	Malartic Tp.
Malbar Goldfields Ltd.	19 Melinda St., Toronto, Ontario	Barraute Tp.
Mic-Mac Mines Ltd.	Suite 301, 100 Adelaide St., Toronto, Ontario	Bousquet Tp.

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1947
(Continued)

Name	Head or Executive Office Address	Location
Quebec (Continued) -		
Mainbreak Gold Mines Ltd.	Room 209, 330 Bay St., Toronto, Ontario	Dasserat Tp.
Manterre Gold Mines Ltd.	Room 1701, 80 Richmond St. W., Toronto, Ontario	Belleterre Tp.
Marbenor Malartic Mines Ltd.	710 Excelsior Life Bldg., Toronto, Ontario	Fourniere Tp.
Matico Mines Ltd.	112 Yonge St., Toronto, Ontario	Barraute Tp.
Monpas Mines Ltd.	5225 Avenue De Gaspe, Montreal	Duverny Tp.
McWatters Gold Mines Limited	Drawer 988, Haileybury, Ontario	Rouyn Tp.
Mining Corporation of Canada Limited	Suite 602, 350 Bay St., Toronto, Ontario	Vauquelin Tp.
Mogador Mines Ltd.	Room 726, 276 St. Jacques St. W., Montreal	Friedmont
Montserat Gold Mines Ltd.	Suite 1008, 330 Bay St., Toronto, Ontario	Montbray Tp.
Mozart Gold Mines Ltd.	Suite 307, 45 Richmond St. W., Toronto, Ontario	Carpentier Tp.
Mylamaque Mines Ltd.	40 Adelaide St. W., Toronto, Ontario	Bourlamaque Tp.
New Marlon Gold Mines Ltd.	Room 17, 24 King St. W., Toronto, Ontario	Rouyn Tp.
Newport Gold Mines Ltd.	Suite 1024, 85 Richmond St. W., Toronto, Ontario	Duverny Tp.
New Rouyn Merger Mines Ltd.	603-4 Royal Bank Bldg., 2-8 King St. E., Toronto, Ontario	Rouyn Tp.
Norterre Mines Ltd.	907, 80 Richmond St. W., Toronto, Ontario	Guillet Tp.
Norbenite Malartic Mines Ltd.	Suite 1008, 330 Bay St., Toronto, Ontario	Vassan and Malartic Tps.
Norcourt Gold Mines Ltd.	1700 Royal Bank Bldg., 360 St. James St. W., Montreal	Louvicourt Tp.
New Louvre Mines Ltd.	1700 Royal Bank Bldg., 360 St. James St. W., Montreal	Louvicourt Tp.
Noryn Mines Ltd.	Room 4, 45 Main St., Hull	Rouyn Tp.
O'Brien Gold Mines Ltd.	Kewagama	Cadillac Tp.
Old Mill Gold Mines Ltd.	Room 603, 11 King St. W., Toronto, Ontario	Rouyn Tp.
Oneonta Pershing Mines Ltd.	Room 907, 80 Richmond St. W., Toronto, Ontario	Vauquelin Tp.
Orenada Gold Mines Ltd.	Room 209, 330 Bay St., Toronto, Ontario	Bourlamaque Tp.
Orimar Gold Mines Ltd.	Room 604, 132 St. James St. W., Montreal	Courville Tp.
Osisko Lake Mines Ltd.	Room 2810, 25 King St. W., Toronto, Ontario	Rouyn Tp.
Packard Pershing Mines Ltd.	Room 301, 215 St. James St. W., Montreal	Pershing Tp.
Pandora Cadillac Gold Mines Ltd.	New Liskeard, Ontario	Cadillac Tp.
Paquin Gold Mines Ltd.	Belleterre	Belleterre Tp.
Paramaque Mine Ltd.	710 Excelsior Life Bldg., Toronto, Ontario	Bourlamaque Tp.
Paramount Mining & Developing Syndicate Ltd.	5225 Avenue De Gaspe, Montreal	Landrienne Tp.
Pasco Mining Corp. Ltd.	5225 Avenue De Gaspe, Montreal	Pascalis Tp.
Pasgil Mines Ltd.	Room 3100, 25 King St. W., Toronto, Ontario	Pascalis Tp.
Perron Gold Mines Ltd.	Perron	Perron
Pitt Gold Mining Co. Ltd.	710 Star Bldg., Toronto, Ontario	Duparquet Tp.
Powell Rouyn Gold Mines Ltd.	Box 200, Noranda	Noranda
Prahova Mines Ltd.	Room 726, 276 St. Jacques Ouest, Montreal	Barraute Tp.
Premier Chibougamau Mines Ltd.	1700 Royal Bank Bldg., 360 St. James St. W., Montreal	Scott, Barlow and McKenzie Tps.
Quebec Explorers Ltd.	Room 422, 132 St. Jacques St. W., Montreal	Dufresnoy Tp.
Quebec Gold Rocks Exploration Ltd.	Suite 308, 477 St. Francois-Xavier, Montreal	Launay
Quebec Smelting and Refining Corp.	Room 301, 215 St. James St. W., Montreal	Urban Tp.
Quejo Mines Ltd.	710 Excelsior Life Bldg., Toronto, Ontario	Rouyn Tp.
Quesabe Mines Ltd.	Room 512, 310 Bay St., Toronto, Ontario	Duprat Tp.
Realore Gold Mines Ltd.	Suite 1008, 330 Bay St., Toronto, Ontario	Tiblemont Tp.
Resenor Gold Mines Ltd.	c/o Reid, Allen, Bunter & Campbell, 38 King St. W. Toronto, Ontario	Senneville and Pascalis Tps.
Rolland Mines Ltd.	Room 1323, 67 Yonge St., Toronto, Ontario	Val D'Or
Rouzone Mining Corp. Ltd.	Room 805, 45 Richmond St. W., Toronto, Ontario	Beauchastel Tp.
Regcourt Gold Mines Ltd.	1700 Royal Bank Bldg., 360 St. James St. W., Montreal	Vauquelin Tp.
Roybar Chibougamau Mines Ltd.	Room 1207, 67 Yonge St., Toronto, Ontario	Chibougamau Tp.
Russian Kid Mining Co. Ltd.	Room 1010, 100 Adelaide St. W., Toronto, Ontario	Vauquelin Tp.
Saguenay Mining & Smelting Co. Ltd.	De Salles, Charlevoix	De Salles Tp.
Scott Chibougamau Mines Ltd.	Room 301, 215 St. James St. W., Montreal	Scott and McKenzie Tps.
Seguin Consolidated Mines Ltd.	c/o Arthur Seguin, Rouyn	Bachelor Lake

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1947
(Continued)

Name	Head or Executive Office Address	Location
<u>Quebec (Concluded) -</u>		
St. Francis Mining Co. Ltd.	603 Royal Bank Bldg., Toronto, Ontario	Vassan
Senator-Rouyn Ltd.	Room 4, 45A Main St., Hull	Rouyn Tp.
Shawkey (1945) Mines Ltd.	1501 Star Bldg., 80 King St. W., Toronto, Ontario	Dubuisson Tp.
Sigma Mines (Quebec) Ltd.	Bourlamaque	Bourlamaque Tp.
Siscoe Gold Mines Ltd.	907 Dominion Square Bldg., Montreal	Dubuisson Tp.
Sladen-Malartic Mines Ltd.	56 Sparks St., Ottawa, Ontario	Malartic Tp.
Soma Duvernay Gold Mines Ltd.	709 Immeuble Transportation, 132 ouest St. Jacques, Montreal	Duvernay Tp.
South Centremaque Gold Mines Ltd.	Room 605, 407 McGill St., Montreal	Bourlamaque Tp.
South Dufault Mines Ltd.	Room 1405, 302 Bay St., Toronto, Ontario	Rouyn Tp.
Stadacona Mines (1944) Ltd.	Room 24, 377 St. James St. W., Montreal	Rouyn Tp.
Stormont Gold Mines Ltd.	Suite 1024, 85 Richmond St. W., Toronto, Ontario	Joannes Tp.
Sudbury Contact Mines (1937) Ltd.	Suite 1010, 100 Adelaide St. W., Toronto, Ontario	Bousquet Tp.
Sullivan Consolidated Mines Ltd.	1604 Aldred Bldg., Montreal	Dubuisson Tp.
Tatara Gold Mines Ltd.	111 Mountain Hill, Quebec	Carpentier Tp.
Thurbois Mines Ltd.	Room 201, 29 Park St. W., Windsor, Ontario	Destor Tp.
Titanic Mine Holdings Ltd.	Room 301, 215 St. James St. W., Montreal	Senneville Tp.
Trans-Duvernay Gold Mines Ltd.	612 Notre Dame St. W., Montreal	Duvernay Tp.
Tromac Mines Ltd.	1085 Beaver Hall Hill, Montreal	Dufresnoy Tp.
U. K. Exploration Co. Ltd.	Room 406, 15 King St. W., Toronto, Ontario	Lesueur Tp.
Valdona Mines Ltd.	Room 301, 100 Adelaide St. W., Toronto, Ontario	Louvicoourt Tp.
Val d'Or Mineral Holdings Ltd.	25 King St. W., Toronto, Ontario	Bourlamaque Tp.
Vauze Dufault Mines Ltd.	1112 Star Bldg., Toronto, Ontario	Dufresnoy and Duprat Tps.
Ventures Claims (Quebec) Ltd.	Room 2810, 25 King St. W., Toronto, Ontario	Vaughn Tp.
Vinray Malartic Mines Ltd.	45 Richmond St. W., Toronto, Ontario	Malartic Tp.
Villbona Gold Mines Ltd.	710 Excelsior Life Bldg., Toronto, Ontario	Villebon Tp.
Wakeko Mines Ltd.	Room 1207, 67 Yonge St., Toronto, Ontario	Beauchastel Tp.
Wakita Quebec Gold Mines Ltd.	Room 312, 9 Richmond St. E., Toronto, Ontario	Dufresnoy Tp.
Wendell Gold Mines Ltd.	Room 410, 231 St. James St. W., Montreal	Duvernay and Landrienne Tps.
West Malartic Extension Mines Ltd.	7000 Jeanne-Mance St., Montreal	Cadillac Tp.
Western Quebec Mines Co. Ltd.	465 St. John St., Montreal	Vassan Tp.
Wilfred Gold Mines Ltd.	Room 307, 45 Richmond St. W., Toronto, Ontario	Carpentier Tp.
Wingait Gold Mines Ltd.	Room 907, 80 Richmond St. W., Toronto, Ontario	Beauchastel Tp.
<u>Ontario -</u>		
<u>Porcupine District</u>		
Aquarius Porcupine Gold Mines Ltd.	Room 706, 100 Adelaide St. W., Toronto	Macklem Tp.
Aunor Gold Mines Ltd.	1600 Royal Bank Bldg., Toronto	Timmins
Bobs Lake Gold Mines Ltd.	Room 1116, 85 Richmond St. W., Toronto	Whitney Tp.
Bonetal Gold Mines Ltd.	1705 Sterling Tower Bldg., 372 Bay St., Toronto	Pamour
Broulan Porcupine Mines Ltd.	1705 Sterling Tower Bldg., 372 Bay St., Toronto	Whitney Tp.
Buffalo Ankerite Gold Mines Ltd.	P.O. Box 533, South Porcupine	Deloro Tp.
Central Porcupine Mines Ltd.	Room 3100, 25 King St. W., Toronto	Porcupine
Clavos Porcupine Mines Ltd.	Suite 1024, 85 Richmond St. W., Toronto	German Tp.
Coniaurum Mines Ltd.	25 King St. W., Toronto	Tisdale Tp.
Cunigold Mines Ltd.	57 Queen St. W., Toronto	Mann Tp.
Dale Gold Mines Ltd.	Room 504, 357 Bay St., Toronto	Harker Tp.
Delnite Mines Ltd.	P.O. Box 590, Timmins	Deloro Tp.
Dome Mines Ltd.	South Porcupine	Tisdale Tp.
Dunmar Mines Ltd.	P.O. Box 999, Haileybury	
Garrison Harbour Gold Mines Ltd.	Room 710, 36 Toronto St., Toronto	Garrison Harbour Tp..
Garthack Mining Co. Ltd.	Room 1502, Sterling Tower Bldg., 372 Bay St., Toronto	Garrison Tp.
Golden Arrow Mines Ltd.	Room 428, 67 Yonge St., Toronto	Hislop Tp.
Goldhawk Porcupine Mines Ltd.	Suite 1107, 67 Yonge St., Toronto	Macklem Tp.
Gui-Por Gold Mines Ltd.	Suite 706, 100 Adelaide St. W., Toronto	Guibord Tp.

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1947
(Continued)

Name	Head or Executive Office Address	Location
<u>Ontario (Continued) -</u>		
<u>Porcupine District</u> (Concluded)		
Hallnor Mines Ltd.	1600 Royal Bank Bldg., Toronto	Whitney Tp.
Hollinger Consolidated Gold Mines Ltd.	Timmins	Hislop Tp.
Hoyle Mining Co. Ltd.	Room 2810, 25 King St. W., Toronto	Pamour Tp.
Kelwren Gold Mines Ltd.	Room 2810, 25 King St. W., Toronto	Hislop Tp.
Marchaud Mines Ltd.	P.O. Box 999, Haileybury	Michaud Tp.
McIntyre Porcupine Mines Ltd.	Schumacher	Schumacher
McLaren-Porcupine Gold Mines Ltd.	110 Bruce Ave., South Porcupine	Deloro Tp.
Midcamp Mines Ltd.	1600 Royal Bank Bldg., Toronto	Tisdale Tp.
Morgan Creek Mines Ltd.	P.O. Box 999, Haileybury	Guibord Tp.
Naybob (1945) Gold Mines Ltd.	85 Richmond St. W., Toronto	Timmins
Pamour Porcupine Mines Ltd.	Pamour	Whitney Tp.
Paymaster Consolidated Mines Ltd.	Box 508, South Porcupine	Deloro and Tisdale Tps.
Porcupine Penninsular Gold Mines Ltd.		
Porcupine Reef Gold Mines Ltd.	12th floor, Star Bldg., 80 King St. W., Toronto	Nighthawk Lake
Preston East Dome Mines Ltd.	1705 Sterling Tower, 372 Bay St., Toronto	Pamour
Riczone Mines Ltd.	Box 545, South Porcupine	South Porcupine
	Room 1412, 55 York St., Toronto	Rickard Tp.
<u>Kirkland Lake District</u>		
Bidgood Kirkland Gold Mines Ltd.	Suite 504, 357 Bay St., Toronto	Label Tp.
Big Game Mines Ltd.	Room 706, 100 Adelaide St. W., Toronto	German
Darmac Gold Mines Ltd.	156 Yonge St., Toronto	Label Tp.
Hudson-Rand Gold Mines Ltd.	New Liskeard	Kirkland Lake
Kirkland Golden Gate Mines Ltd.	Room 411, 371 Bay St., Toronto	Swastika
Kirkland Lake Gold Mining Co. Ltd.	1314 Metropolitan Bldg., 44 Victoria St., Toronto	Teck Tp.
Lake Shore Mines Ltd.	Kirkland Lake	Kirkland Lake
Macassa Mines Ltd.	Room 1001, 85 Richmond St. W., Toronto	Kirkland Lake
Merrex Ltd.	Box 64, Swastika	
Northland Mines (1940) Ltd.	Suite 32, 171 Yonge St., Toronto	
Queenston Gold Mines Ltd.	1101 Federal Bldg., Toronto	Gauthier Tp.
Sylvanite Gold Mines Ltd.	Box 670, Kirkland Lake	Teck Tp.
Teck-Hughes Gold Mines Ltd., The	14 Finkle St., Woodstock	Kirkland Lake
Toburn Gold Mines Ltd.	1809 Royal Bank Bldg., Toronto	Kirkland Lake
Upper Canada Mines Ltd.	1101 Federal Bldg., Toronto	Gauthier Tp.
Wadasa Gold Mines Ltd.	62 Government Road W., Kirkland Lake	Gauthier Tp.
Wright-Hargreaves Mines Ltd.	Fort Erie	Kirkland Lake
<u>Larder Lake District</u>		
Amalgamated Larder Mines Ltd.	80 King St. W., Toronto	Larder Lake
Armistice Gold Mines Ltd.	Room 706, 100 Adelaide St. W., Toronto	McGarry Tp.
Cathroy Larder Mines Ltd.	171 Yonge St., Toronto	McElroy Tp.
Chesterville Mines Ltd.	330 Bay St., Toronto	McGarry Tp.
Kerr-Addison Gold Mines Ltd.	80 King St. W., Toronto	McGarry Tp.
Laguerre Gold Mines Ltd.	80 King St. W., Toronto	Larder Lake
Larder "U" Island Mines Ltd.	Room 209, 330 Bay St., Toronto	McGarry Tp.
Mary Ann Mines Ltd.	Room 401, 100 Adelaide St. W., Toronto	Larder Lake
Omega Gold Mines Ltd.	80 King St. W., Toronto	McVittie Tp.
White-Karry Gold Mines Ltd.	Suite 5, 184 N. Victoria St., Sarnia	Black Tp.
Winchester Larder Mines Ltd.	1101 Federal Bldg., 85 Richmond St. W., Toronto	Larder Lake
<u>Matachewan District</u>		
Matachewan Consolidated Mines Ltd.	25 King St. W., Toronto	Powell Tp.
Hollinger Consolidated Gold Mines Ltd.	Timmins	Powell Tp.
Renabie Mines Ltd.	Room 1001, 85 Richmond St. W., Toronto	Rennie Tp.

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1947
(Continued)

Name	Head or Executive Office Address	Location
<u>Ontario (Continued) -</u>		
<u>Sudbury District</u>		
Aladdin-Groundhog Mines Ltd.	203 Central Bldg., 45 Richmond St. W., Toronto	Keith Tp.
Dulama Gold Mines Ltd.	Room 209, 330 Bay St., Toronto	Leeson Tp.
Erndale Mines Ltd.	Suite 702, 21 Dundas Square, Toronto	
Groundhog Gold Mines Ltd.	Room 423, 67 Yonge St., Toronto	Horwood Tp.
Hoodoo Lake Mines Ltd.	Room 504, 357 Bay St., Toronto	Joburke
Hatstone Gold Mines Ltd.	40 Adelaide St. W., Toronto	Greenlaw Tp.
Jerome Gold Mines Ltd.	Suite 602, 350 Bay St., Toronto	Osway Tp.
Joburke Gold Mines Ltd.	Room 504, 357 Bay St., Toronto	Joburke
Kalbrook Mining Co. Ltd.	Room 1405, 302 Bay St., Toronto	Penhorwood Tp.
Lochabie Mines Ltd.	184 Bay St., Toronto	Missanabie Area
Orofino Mines Ltd.	Room 1221, 67 Yonge St., Toronto	Horwood Tp.
Palomar Gold Mines Ltd.	Room 504, 357 Bay St., Toronto	Joburke
Purdy Mica Mines Ltd.	184 Bay St., Toronto	Groundhog River
Strathmore Mines Ltd.	57 Queen St. W., Toronto	Chester Tp.
Yeo Lake Mining Co. Ltd.	112 Durham St. S., Sudbury	Yeo Tp.
<u>Thunder Bay District</u>		
American Metal Co. of Canada Ltd.	68 Yonge St., Toronto	
Andowan Mines Ltd.	Kashabowie	Kashabowie
Charles Long Lac Gold Mines Ltd.	Suite 1104, 67 Yonge St., Toronto	Errington Tp.
Gold Island Porcupine Mines Ltd.	Suite 1006, 159 Bay St., Toronto	Garrison Tp.
Green Lake Gold Mines Ltd.	Room 504, 357 Bay St., Toronto	Geraldton
Hard Rock Gold Mines Ltd.	Geraldton	Ashmore Tp.
Lake Superior Mining Corp. Ltd.	Room 1201, 45 Richmond St. W., Toronto	
Leitch Gold Mines Ltd.	Beardmore	Summers Tp.
Little Long Lac Gold Mines Ltd.	3100, 25 King St. W., Toronto	Errington Tp.
MacLeod-Cockshutt Gold Mines Ltd.	357 Bay St., Toronto	Geraldton
Magnet Consolidated Mines Ltd.	515 Jarvis St., Toronto	Geraldton
Maylac Gold Mines Ltd.	Room 504, 357 Bay St., Toronto	Geraldton
McWilliams Beardmore Mines Ltd.	60 Front St. W., Toronto	Ilybster Tp.
Mosher Long Lac Gold Mines Ltd.	Room 714, 320 Bay St., Toronto	Long Lac
Nulac Gold Mines Ltd.	195 Pendrith St., Toronto	
Pardners Mines Ltd.	Room 1609, 80 King St. W., Toronto	Kowkash
Quillette Mines Ltd.	Room 1109, 330 Bay St., Toronto	Sturgeon Lake
Talmora Long Lac Gold Mines Ltd.	Room 205, 217 Bay St., Toronto	Errington Tp.
Undersill Gold Mining Company Ltd.	Room 1721, 25 King St. W., Toronto	Beardmore
<u>Kenora District</u>		
Dogpaw Gold Mines Ltd.	4 Colborne St., Toronto	
Kenwest Mines Ltd.	Room 27, 10 Adelaide St. E., Toronto	Goldrock
Kerwall Gold Mines Ltd.	Suite 1, 26-28 Adelaide St. W., Toronto	Ball Tp.
Lake Bearskin Mining Syndicate Ltd.	606 Public Utilities Bldg., Port Arthur	Irwin Tp.
Longrose Gold Mines Ltd.	Room 710, 36 Toronto St., Toronto	Eva Tp.
Van Houten Gold Mines Ltd.	171 Yonge St., Toronto	Dymont
Winora Gold Mines Ltd.	Room 504, 357 Bay St., Toronto	Lingman Lake
<u>Patricia District</u>		
Advance Red Lake Gold Mines Ltd.	347 Bay St., Toronto	Red Lake
Berens River Mines Ltd.	Favourable Lake	Favourable Lake
Blanchard Gold Mines Ltd.	Room 318, 371 Bay St., Toronto	Todd Tp.
Brewis Red Lake Mines Ltd.	40 Adelaide St. W., Toronto	Balmer Tp.
Buffalo Red Lake Mines Ltd.	Room 1701, 392 Bay St., Toronto	Heyson Tp.
Campbell Red Lake Mines Ltd.	Balmertown	Balmer Tp.
Central Patricia Gold Mines Ltd.	Central Patricia	Central Patricia
Cochonour Willans Gold Mines Ltd.	801 Dominion Bank Bldg., Toronto	Dome Tp.
Clicker Red Lake Mines Ltd.	40 Adelaide St. W., Toronto	Balmer Tp.
Clinger Gold Mines Ltd.	67 Yonge St., Room 1003, Toronto	Echo Tp.

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1947
(Continued)

Name	Head or Executive Office Address	Location
<u>Ontario (Concluded) -</u>		
<u>Patricia District</u> (Concluded)		
Craibbe-Fletcher Gold Mines Ltd.	Suite 1, 26-28 Adelaide St. W., Toronto	Dome Tp.
Delta Red Lake Mines Ltd.	40 Adelaide St. W., Toronto	Balmer Tp.
Dickenson Red Lake Mines Ltd.	40 Adelaide St. W., Toronto	Balmer Tp.
Dorion Red Lake Mines Ltd.	40 Adelaide St. W., Toronto	Balmer Tp.
Fry Red Lake Mines Ltd.	288 Roncesvalles Ave., Toronto	
Hasaga Gold Mines Ltd.	25 King St. W., Toronto	Dome Tp.
Headway Red Lake Gold Mines Ltd.	Room 812, 67 Yonge St., Toronto	
Jason Mines Ltd.	67 Yonge St., Toronto	Heyson Tp.
Kenalex Red Lake Mines Ltd.	184 Bay St., Toronto	Fairlie Tp.
Lake Rowan (1945) Mines Ltd.	40 Adelaide St. W., Toronto	Todd Tp.
Lassie Red Lake Gold Mines Ltd.	620 Confederation Life Bldg., Toronto	Balmer Tp.
Latonic Red Lake Gold Mines Ltd.	Room 805, 45 Richmond St. W., Toronto	Dome Tp.
Lingman Lake Gold Mines Ltd.	Room 712, 80 King St. W., Toronto	Lingman Lake
Lingside Gold Mines Ltd.	Room 712, 80 King St. W., Toronto	Lingman Lake
Lunward Gold Mines Ltd.	Suite 205, 217 Bay St., Toronto	Echo Tp.
Luxor Red Lake Mines Ltd.	Room 708, 357 Bay St., Toronto	Patricia
MacFie Red Lake Mines Ltd.	40 Adelaide St. W., Toronto	Balmer Tp.
Madsen Red Lake Gold Mines Ltd.	67 Yonge St., Toronto	Heyson Tp.
McFinlay Red Lake Gold Mines Ltd.	100 Adelaide St. W., Toronto	Bateman Tp.
McKenzie Red Lake Gold Mines Ltd.	19 Richmond St. W., Toronto	Dome Tp.
McLarmac Red Lake Gold Mines Ltd.	402 Premier Trust Bldg., Toronto	Dome Tp.
Miles (Red Lake) Mines Ltd.	Room 318-371 Bay St., Toronto	Ball Tp.
Norpick Gold Mines Ltd.	Suite 1024, 85 Richmond St. W., Toronto	Patricia
Orlack Red Lake Mines Ltd.	357 Bay St., Toronto	Red Lake
Pickle Crow Gold Mines Ltd.	Pickle Crow	Pickle Crow
Redcon Gold Mines Ltd.	40 Adelaide St. W., Toronto	Balmer Tp.
Red Crest Gold Mines Ltd.	New Liskeard	Todd Tp.
Rodney Gold Mines Ltd.	Suite 602, 350 Bay St., Toronto	
Russet Red Lake Gold Mines Ltd.	Room 318, 371 Bay St., Toronto	Baird Tp.
Slate Bay Gold Mines Ltd.	Room 318, 371 Bay St., Toronto	McDonough Tp.
Starratt-Olsen Gold Mines Ltd.	Suite 930, 25 King St. W., Toronto	Baird Tp.
Windward Gold Mines Ltd.	Suite 205, 217 Bay St., Toronto	Echo Tp.
<u>Manitoba -</u>		
Central Manitoba Mines Ltd.	274 Fort St., Winnipeg	Rice Lake
Century Mining Corp. Ltd.	57 St. James St. W., Montreal, Quebec	Elbow Lake
Forty Four Mines Ltd.	237 Curry Bldg., Winnipeg	Bissett
Gold Pan Mines (1945) Ltd.	818 Somerset Bldg., Winnipeg	Rice Lake
God's Lake Gold Mines Ltd.	395 Main St., Winnipeg	God's Lake
Herb Lake Mining & Exploration Ltd.	23 Scott St., Toronto, Ontario	Herb Lake
Herblet Hudson Mines Ltd.	1414 Pigott Bldg., Hamilton, Ontario	Herb Lake
Howe Sound Exploration Co. Ltd.	Snow Lake	Snow Lake
Jack Knife Gold Mines Ltd.	Suite 1008, 330 Bay St., Toronto, Ontario	Rice Lake
Middle-Ground Mining Co. Ltd.	c/o F. C. Buckland, 184 Bay St., Toronto, Ontario	Reed Lake
Northern Canada Mines Ltd.	44 Victoria St., Toronto, Ontario	Snow Lake
Ogama-Rockland Gold Mines Ltd.	1501 Star Bldg., 80 King St. W., Toronto, Ontario	Long Lake
Partner Mines Company	Cranberry Portage	
Roxy Gold Mines Ltd.	395 Main St., Winnipeg	Rice Lake
Sangold Mines Ltd.	45 Richmond St. W., Toronto, Ontario	Rice Lake
San Antonio Gold Mines Ltd.	237 Curry Bldg., Winnipeg	Bissett
Sannorm Mines Ltd.	Room 710, 36 Toronto St., Toronto, Ontario	Rice Lake
Snow Lake Gold Mines Ltd.	Room 501, 67 Yonge St., Toronto, Ontario	Herb Lake
Sno-Squall Mines Ltd.	Box 779, 64 Main St., Flin Flon	Herb Lake
The Jeep Gold Mine Ltd.	237 Curry Bldg., Winnipeg	Bissett
Wakusko Consolidated Ltd.	395 Main St., Winnipeg	Herb Lake

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1947
(Continued)

Name	Head or Executive Office Address	Location
British Columbia -		
Alpine Gold Ltd.	Box 83, Nelson	Nelson
Bralorne Mines Ltd.	555 Burrard St., Vancouver	Bralorne
Bristol Mines (1946) Ltd.	572 Howe St., Vancouver	Lillooet
B.R.X. (1935) Consolidated Mines Ltd.	Room 617, 475 Howe St., Vancouver	Shalath
Buccaneer Mine (Lease)	Tofino	Alberni
Canadian Belle Mining Co.	514 Columbia Bldg., Spokane, Washington, U.S.A.	Nelson
Canusa Cariboo Gold Mines Ltd.	1000 Hall Bldg., 789 W. Pender St., Vancouver	Cariboo
Canyon Cariboo Gold Mines Ltd.	1015, 789 W. Pender St., Vancouver	Cariboo
Conquest Mines Ltd.	320, 119 W. Pender St., Vancouver	Alberni
Cariboo Gold Quartz Mining Co. Ltd.	1007 Royal Bank Bldg., 675 W. Hastings St., Vancouver	Cariboo
Dentonia Mines Ltd.	572 Howe St., Vancouver	Greenwood
Dumac Mines Ltd.	615 W. Pender St., Vancouver	Silverton
Gem Gold Mines Ltd.	1604 Royal Bank Bldg., Vancouver	Nanaimo
Gold Belt Mining Co. Ltd.	Sheep Creek	Nelson
Gold Drop Mines Ltd.	Stewart	Marmot River
Goldway Peak Mines Ltd.	844 W. Hastings St., Vancouver	Omineca
Hedley Amalgamated Gold Mines Ltd.	535 Homer St., Vancouver	Hedley
Hedley Mascot Gold Mines Ltd.	908 Royal Bank Bldg., Vancouver	Osoyoos
International Mining Corp. (Canada) Ltd.	85 Richmond St. W., Toronto, Ontario	Nelson
Island Mountain Mines Co. Ltd.	Wells	Cariboo
Kelowna Exploration Co. Ltd.	Hedley	Osoyoos
Kenville E. Gold Mines Ltd.	Suite 1216-17, 360 St. James St. W., Montreal, Quebec	Nelson
Kootenay Belle Gold Mines Ltd.	916 Stock Exchange Bldg., Vancouver	Nelson
Leitch Gold Mines Ltd.	67 Yonge St., Toronto, Ontario	Unuk River
Lepsack, Lefevre & Waller	Salmo	Nelson
McArthur, W. E., & Son	Box 629, Greenwood	Greenwood
Morris Summit Gold Mines Ltd.	510 Stock Exchange Bldg., Vancouver	Salmon River
Patmore Gold Mines	355 Burrard St., Vancouver	Kyuquat
Pioneer Gold Mines of B.C. Ltd.	711 Yorkshire Bldg., Vancouver	Lillooet
Polaris-Taku Mining Co. Ltd.	Telsequah	Atlin
Privateer Mine Ltd.	475 Howe St., Vancouver	Zeballos
Reno Gold Mines Ltd.	208 Yorkshire Bldg., Vancouver	Sheep Creek
Sheep Creek Gold Mines Ltd.	616 Stock Exchange Bldg., Vancouver	Nelson
Silbak Premier Mines Ltd.	911 Birks Bldg., Vancouver	Portland Canal
E. E. Small and J. E. Small Union Lease	Grand Forks	Greenwood
Surf Inlet Consolidated Gold Mines Ltd.	510 Stock Exchange Bldg., Vancouver	Skeena
Northwest Territories -		
Akaiitcho Yellowknife Gold Mines Ltd.	Room 2810, 25 King St. W., Toronto, Ontario	Yellowknife
Alean Yellowknife Gold Mines Ltd.	67 Yonge St., Toronto, Ontario	Yellowknife
Algood Gold Mines Ltd.	Room 712, 320 Bay St., Toronto, Ontario	Regan Lake Area
Andrew Yellowknife Mines Ltd.	Suite 706, 100 Adelaide St. W., Toronto, Ontario	Yellowknife
Athona Mines (1937) Ltd.	Suite 32, 171 Yonge St., Toronto, Ontario	Yellowknife
Atlas Yellowknife Mines Ltd.	Suite 1008, 330 Bay St., Toronto, Ontario	Yellowknife
Bear Exploration & Radium Ltd.	Room 207, 7 Adelaide St., Toronto, Ontario	Yellowknife
Beulah Yellowknife Mines Ltd.	Suite 1008, 330 Bay St., Toronto, Ontario	Yellowknife
Cardinal Yellowknife Mines Ltd.	Room 501, 67 Yonge St., Toronto, Ontario	Yellowknife
Consolidated Mining & Smelting Company of Canada Ltd.	Trail, British Columbia	Yellowknife
Discovery Yellowknife Mines Ltd.	171 Yonge St., Toronto, Ontario	Yellowknife
Durex Mines Ltd.	1003 Central Bldg., Toronto, Ontario	Yellowknife
Frederick Mining & Development Ltd.	Suite 706, 100 Adelaide St. W., Toronto, Ontario	Yellowknife
Giant Yellowknife Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Yellowknife
Lexindin Gold Mines Ltd.	Room 1207, 67 Yonge St., Toronto, Ontario	Indin Lake

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1947
(Concluded)

Name	Head or Executive Office Address	Location
<u>Northwest Territories (Concluded) -</u>		
Lynx Yellowknife Gold Mines Ltd.	Room 3100, 25 King St. W., Toronto, Ontario	Yellowknife
Negus Mines Ltd.	410 Royal Bank Bldg., Toronto, Ontario	Yellowknife
Neptune Gold Mines Ltd.	Room 207, 7 Adelaide St. E., Toronto, Ontario	Yellowknife
Newnorth Gold Mines Ltd.	1006 Concourse Bldg., Toronto, Ontario	Courageous Lake
North Inca Gold Mines Ltd.	170 Bay St., Room 101, Toronto, Ontario	Indin Lake
Payne Yellowknife Gold Mines Ltd.	66 King St. W., Toronto, Ontario	Yellowknife
Philmcre Yellowknife Mine Ltd.	36 Toronto St., Toronto, Ontario	Yellowknife
Quest Yellowknife Mines Ltd.	Suite 1024, 85 Richmond St. W., Toronto, Ontario	Yellowknife
Ranney Gold Mines Ltd.	25 King St., Toronto, Ontario	Yellowknife
Slemon Yellowknife Mines Ltd.	Suite 706, 100 Adelaide St. W., Toronto, Ontario	Yellowknife
Snowden Yellowknife Mines Ltd.	371 Bay St., Toronto, Ontario	Indin Lake
Sovereign Yellowknife Mines Ltd.	Room 1403, 302 Bay St., Toronto, Ontario	Johnston Lake
Spinet Gold Mines Ltd.	Room 101, 170 Bay St., Toronto, Ontario	Indin Lake
Sunset Yellowknife Mines Ltd.	Room 501, 67 Yonge St., Toronto, Ontario	Yellowknife
Thompson-Lundmark Gold Mines Ltd.	Room 803, 66 King St. W., Toronto, Ontario	Yellowknife
Transcontinental Resources Ltd.	Room 3100, 25 King St. W., Toronto, Ontario	Yellowknife
Vista Yellowknife Mines Ltd.	67 Yonge St., Toronto, Ontario	Yellowknife
Viking Yellowknife Gold Mines Ltd.	Suite 32, 171 Yonge St., Toronto, Ontario	Yellowknife
Zolata Yellowknife Mines Ltd.	Room 1403, 302 Bay St., Toronto, Ontario	Yellowknife

PRINCIPAL CANADIAN ALLUVIAL GOLD OPERATORS, 1947

Name	Head or Executive Office Address	Location
<u>British Columbia -</u>		
Andersen, M. A.	Wells	Cariboo
Atkinson Dredging Co. Ltd.	Princeton	Similkameen
Atlin Ventures Ltd.	816 Pender St. W., Vancouver	Atlin
Big Jim Gold Mines Ltd.	1006 Holden Bldg., 16 East Hastings St., Vancouver	Tulameen
Biggs, Leroy	Van Winkle	Cariboo
Bindschadler, Carl	Wells	Cariboo
Bride, Maurice	Spruce Creek, Atlin	Atlin
Bridge River Placers	Lillooet	Lillooet
Brister, J. V., Co.	Atlin	Atlin
Cariboo Keithley Gold Placers Ltd.	812 Standard Bldg., Vancouver	Quesnel
Carbillet, Andre	Likely	Quesnel
Chimney Creek-Fraser Placer Mines Ltd.	Suite 408, 45 Richmond St. W., Toronto, Ontario	Quesnel
Columbia Development Ltd.	410 King St. W., Kitchener, Ontario	Atlin
Consolidated Mining & Smelting Company of Canada Ltd.	Trail	Manson Creek
Ekstrom, August	Celista	Scotch Creek
Ennerdole Placers	Van Winkle P.O., Stanley	Cariboo
Falconer, D. K.	Spruce Creek, Atlin	Atlin
Fisher, Norman S., and Partners	Atlin	Atlin
Fry, Thomas	Quesnel and Rouchon Creek	Cariboo
Gunn, J. J.	Wells	Cariboo
Hall, Ralph	Manson Creek	Manson Creek
Hugh, R., and J. A. Reddick	Princeton	Similkameen
Holm, A., and T. M. Petersen	Barkerville	Cariboo
Ivanic, Steve & Partners	Atlin	Spruce Creek
Lowhee Mining Co. Ltd.	505 Tacoma Bldg., Tacoma, Washington, U.S.A.	Cariboo
Loper & Son	Germansen Landing	Omineca
Matic, Frank	Atlin	Spruce Creek

Principal Canadian Alluvial Gold Operators, 1947
(Concluded)

Name	Head or Executive Office Address	Location
<u>British Columbia (Concluded) -</u>		
McDonald, John M. and Alex. Munro Moccasin Mines Ltd.	Atlin 5261 Stockton Blvd., Sacramento, California, U.S.A.	Spruce Creek
Nelson, Carl	Manson Creek	Omineca
Noland, John W.	Atlin	Spruce Creek
Northern Resources Ltd.	475 Howe St., Vancouver	Atlin
Paquette, Adelard Joseph	310 Winthrop St., Westminster	Similkameen
Prpich, Tom	Atlin	Atlin
Rask, Eric	Wells	Cariboo
Richmond Hill Mining Co. Ltd.	504 Stock Exchange Bldg., Vancouver	Quesnel
Sunde, John, E. Magnuson, H. Carter and F. Ohman	Atlin	Ruby Creek
Swift River Dredging Co. Ltd.	Box 845, Quesnel	Cariboo
Tait, Mrs. Winnifred	1451 Balfour Ave., Vancouver	Omineca
Woods, Mrs. Emma	R.R. 7, New Westminster	Omineca
<u>Yukon -</u>		
Burwash Mining Co. Ltd.	Whitehorse	Burwash Creek
Clear Creek Placers Ltd.	Dawson	Clear Creek
Coleroy Yukon Mines Ltd.	Suite 1008, 330 Bay St., Toronto, Ontario	Dawson
Yukon Explorations Ltd.	675 West Hastings St., Vancouver, British Columbia	Big Gold Creek
Yukon Consolidated Gold Corp. Ltd.	1919 Marine Bldg., Vancouver, British Columbia	Various

OPERATORS IN CANADIAN COPPER-GOLD-SILVER MINING INDUSTRY, 1947

Name	Head or Executive Office Address	Location
<u>Quebec -</u>		
Continental Copper Mines Ltd.	Room 1323, 67 Yonge St., Toronto, Ontario	Dufresnoy Tp.
Despina Gold Mines Ltd.	79 Wall St., New York, N.Y., U.S.A.	Royn
East Sullivan Mines Ltd.	1604 Aldred Bldg., Montreal	Bourlamaque Tp.
Gaspe Copper Mines Ltd.	Noranda	Holland Tp.
Gaw Copper Mines Ltd.	c/o H. G. Donley, 38 King St. W., Toronto, Ontario	Beauchastel Tp.
Insco Mines Ltd.	355 St. James St., Montreal	Dufresnoy Tp.
Lake Dufault Mines Ltd.	Duparquet	Dufresnoy Tp.
Noranda Exploration Co. Ltd.	Noranda	Holland Tp.
Noranda Mines Ltd.	1600 Royal Bank Bldg., Toronto, Ontario	Noranda
Norbec Copper Mines Ltd.	Room 2810, 25 King St. W., Toronto, Ontario	Dufresnoy Tp.
Normetal Mining Corp. Ltd.	Suite 602, 350 Bay St., Toronto, Ontario	Desmeloiges Tp.
Opemiska Copper Mines Ltd.	Duparquet	Levy Tp.
Paramount Mining Corp. Ltd.	5225 Avenue de Gaspé, Montreal	Dalquier
Quebec Manitou Mines Ltd.	78 Sparks St., Ottawa, Ontario	Abitibi
Rainville Copper Mines Ltd.	Room 2810, 25 King St. W., Toronto, Ontario	Lowicourt Tp.
Roland Gold & Copper Mines Ltd.	Room 812, 3rd Avenue, Val d'Cr	Abitibi
Touton Mining & Exploration Co.	c/o Joseph Hurtubise, 500 Place d'Armes, Montreal	Fabre Tp.
Quemont Mining Corp. Ltd.	Suite 602, 350 Bay St., Toronto, Ontario	Royn Tp.
Waite Amulet Mines Ltd.	Noranda	Dufresnoy Tp.
<u>Ontario -</u>		
Bi-Ore Mines Ltd.	199 Bay St., Toronto	Iron Bridge
Chavigny Gold Mines Ltd.	477 St. Francois-Xavier, Montreal, Quebec	Otto Tp.
Ryan Lake Mines Ltd.	Drawer 102, Matachewan	Powell Tp.

Operators in Canadian Copper-Gold-Silver Mining Industry, 1947
(Concluded)

Name	Head or Executive Office Address	Location
<u>Manitoba -</u>		
Cuprus Mines Ltd.	500 Royal Bank Bldg., Winnipeg	Flin Flon
Hudson Bay Mining & Smelting Co. Ltd.	500 Royal Bank Bldg., Winnipeg	Flin Flon
Sherritt-Gordon Mines Ltd.	Room 2918, 25 King St. W., Toronto, Ontario	Sherridon
Thompson Mines Ltd.	Box 647, Flin Flon	Flin Flon
<u>Saskatchewan -</u>		
Hudson Bay Mining & Smelting Co. Ltd.	500 Royal Bank Bldg., Winnipeg, Manitoba	Flin Flon
<u>British Columbia -</u>		
Britannia Mining & Smelting Co. Ltd.	Britannia Beach	Britannia Beach
Granby Consolidated Mining, Smelting and Power Co. Ltd.	675 West Hastings St., Vancouver	Similkameen
Guichon Mine Ltd.	124 Pacific Bldg., 744 West Hastings St., Vancouver	Yale
Quatsino Copper Gold Mines Ltd.	572 Howe St., Vancouver	Greenwood

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