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CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

+ + + *Census of Industry* + + +

MINING, METALLURGICAL & CHEMICAL STATISTICS

**SUMMARY REVIEW
OF
THE GOLD MINING INDUSTRY
IN
CANADA
1946**



**OTTAWA
1948**

Price 50 cents

Dominion Statistician:
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THE GOLD MINING INDUSTRY IN CANADA, 1946

- 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.

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Production of fine gold in Canada during 1946 amounted to 2,832,554 troy ounces valued at \$104,096,359, showing an increase from the production of 2,692,727 troy ounces worth \$103,823,990 in 1945. The employment situation showed only slight improvement which might account for the increase in quantity of gold, but in July, 1946 the Canadian dollar was brought to parity with the United States dollar, thus lowering the price of gold from \$38.50 to \$35.00 per ounce. This price change had an adverse effect on the gold mining industry. Increased costs and limited supply of mining equipment retarded the development of many mines.

Ontario was the largest contributor to the gold production with 64 per cent, Quebec and British Columbia had 21.8 per cent and 4.8 per cent, respectively. The balance of the year's output was made by Saskatchewan, Manitoba, Yukon, Northwest Territories, Nova Scotia and Alberta, in that order.

Gold yield according to the type of deposit or nature of recovery included: in crude gold bullion produced at "gold mines", 80.91 per cent; in blister and anode copper, 13.48 per cent; in ores, matte, slags, etc. exported, 3.30 per cent; in alluvial gold, 2.15 per cent; and in base bullion at lead smelters, 0.16 per cent.

The cumulative total production of gold in Canada from 1858 to 1946 is 97,827,035 fine ounces valued at \$2,892,308,330 in Canadian funds.

The lifting of restrictions allowed development of ground previously explored by diamond drilling. The footage drilled on auriferous quartz deposits was 4,984,752, which was more than in the preceding year. During the latter part of the year diamond drilling activity declined very rapidly.

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

Table 1 - PRODUCTION OF NEW GOLD IN CANADA, BY PROVINCES AND SOURCES, 1945 and 1946
(Gold at \$20.671834 per fine ounce)

	1945		1946	
	Fine troy ounces	\$	Fine troy ounces	\$
Nova Scotia -				
In gold bullion	3,291	68,031	4,321	89,323
Estimated exchange equalization on gold produced .....	...	58,673	...	69,474
Total Value - Canadian Funds .....	...	126,704	...	158,797
Quebec -				
In gold bullion	419,673	8,675,411	410,642	8,488,723
In anode copper (b)	225,443	4,660,320	197,471	4,082,088
In ores, etc., exported	16,492	340,920	10,226	211,390
Total	661,608	13,676,651	618,339	12,782,201
Estimated exchange equalization on gold produced .....	...	11,795,257	...	9,941,757
Total Value - Canadian Funds .....	...	25,471,908	...	22,723,958
Ontario -				
(c) Porcupine area - In gold bullion	830,909	17,176,413	904,975	18,707,493
(c) Kirkland Lake - In gold bullion (a)	479,346	9,908,961	549,068	11,350,243
(c) Other gold mines - In gold bullion	223,744	4,625,199	291,371	6,023,173
In converter copper from nickel-copper ores	44,544	920,806	34,413	711,380
In ores, matte, etc., exported	46,825	967,958	33,506	692,630
Total	1,625,368	33,599,337	1,813,333	37,484,919
Estimated exchange equalization on gold produced .....	...	28,977,331	...	29,155,069
Total Value - Canadian Funds .....	...	62,576,668	...	66,639,988
Manitoba -				
In gold bullion	38,326	792,268	43,819	905,819
In blister copper	32,329	668,300	35,583	735,566
In ores, etc., exported .....	...	...	...	...
Total	70,655	1,460,568	79,402	1,641,385
Estimated exchange equalization on gold produced .....	...	1,259,650	...	1,276,639
Total Value - Canadian Funds .....	...	2,720,218	...	2,918,024
Saskatchewan -				
In alluvial gold .....	...	...	2	41
In gold bullion .....	...	...	...	...
In blister copper	108,568	2,244,300	112,099	2,317,292
Total	108,568	2,244,300	112,101	2,317,333
Estimated exchange equalization on gold produced .....	...	1,935,568	...	1,802,379
Total Value - Canadian Funds .....	...	4,179,868	...	4,119,712
Alberta -				
In alluvial gold	7	145	110	2,274
Estimated exchange equalization on gold produced .....	...	124	...	1,768
Total Value - Canadian Funds .....	...	269	...	4,042
British Columbia -				
In alluvial gold	10,071	208,186	15,530	321,033
In gold bullion	88,261	1,824,517	66,509	1,374,863
In base bullion	2,323	48,021	4,474	92,486
In ores, etc., exported	86,199	1,781,891	49,729	1,027,990
Total	186,854	3,862,615	136,242	2,816,372
Estimated exchange equalization on gold produced .....	...	3,331,264	...	2,190,521
Total Value - Canadian Funds .....	...	7,193,879	...	5,006,893

Table 1 - PRODUCTION OF NEW GOLD IN CANADA, BY PROVINCES AND SOURCES, 1945 and 1946 (Concluded)

	1945		1946	
	Fine troy ounces	\$	Fine troy ounces	\$
Yukon -				
In alluvial gold	31,721	655,731	45,283	936,083
In ores exported .....	...	...	3	62
Total	31,721	655,731	45,286	936,145
Estimated exchange equalization on gold produced	...	565,527	...	728,115
Total Value - Canadian Funds .....	...	1,221,258	...	1,664,260
Northwest Territories -				
In ores, etc., shipped .....	...	...	...	...
In gold bullion produced	8,655	178,915	23,420	484,134
Total	8,655	178,915	23,420	484,134
Estimated exchange equalization on gold produced	...	154,303	...	376,551
Total Value - Canadian Funds .....	...	333,218	...	860,685
TOTAL FOR CANADA	2,696,727	55,746,293	2,832,554	58,554,086
Total Estimated Exchange Equalization on Gold Produced .....	...	48,077,697	...	45,542,273
GRAND TOTAL VALUE, INCLUDING EXCHANGE .....	...	103,823,990	...	104,096,359

Note: The estimated average price of a troy ounce of fine gold in Canadian funds was \$38.50 in 1945 and \$36.75 in 1946.

(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	17,306	199,261	216,831
February	38,168	15,586	191,320	207,431
March	43,099	28,281	205,209	235,588
April	40,880	25,119	197,724	229,770
May	36,321	29,863	204,381	239,047
June	27,347	31,080	207,156	238,018
July	36,110	27,713	203,473	233,684
August	33,358	29,590	197,793	231,301
September	31,708	27,869	198,258	219,774
October	31,814	28,782	209,189	229,983
November	28,120	24,676	203,185	227,498
December	15,523		213,916	
TOTAL	401,689		2,430,865	

(*) 1947 data are not adjusted to final totals for year.

Table 3 - TOTAL (CUMULATIVE) RECORDED PRODUCTION IN CANADA OF SPECIFIED METALS TO DECEMBER 31, 1946

	Since	Unit of measure	Quantity	Value
				\$
Gold	1858	fine ounces	97,827,035	2,892,308,330
Silver	1887	fine ounces	906,406,934	511,142,131
Copper	1886	pounds	10,565,231,970	1,243,135,303
Nickel	1889	pounds	4,619,278,412	1,244,159,172
Lead	1887	pounds	9,267,891,835	409,676,278
Zinc	1898	...	...	350,597,787
Cobalt	1904	pounds	34,600,409	33,887,158

Table 4 - PRODUCTION OF GOLD AND SILVER IN CANADA BY PRINCIPAL MINES, 1946

Property and Provinces	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.	9,601	...	9,601	3,289	115	40	(a)
Queens Mines Limited	5,399	...	5,399	840	22	120	(a)
Total Nova Scotia				4,321			(g)
Quebec -							
Bellevue Quebec Mines Limited ..	140,589	17,722	122,867	40,102	4,665	350	(c)
Canadian Malartic Gold Mines Limited	317,026	...	317,026	34,664	30,558	1,000	(c)
Consolidated Beattie Mines Limited	74,045	...	107,421	8,929	812	1,800	(c)
East Malartic Mines Limited	307,461	...	307,461	43,623	11,916	1,500	(c)
Elder Mines Limited	23,401	...	...	601	...	...	(b)
Francoeur Gold Mines Limited	73,427	...	19,820	9,988	447	...	(b)
Lamaque Mining Co. Limited	145,315	...	145,315	36,687	6,436	1,200	(c)
Malartic Gold Fields Limited	208,354	...	208,354	37,845	1,293	750	(c)
Mic-Mac Mines Limited	174,652	...	174,784	24,731	5,937	650	(a)
O'Brien Gold Mines Limited	51,167	...	51,050	22,681	1,430	190	(a)(c)
Perron Gold Mines Limited	117,081	3,195	113,740	19,607	1,654	400	(c)
Powell Rouyn Gold Mines Limited ..	87,809	...	...	10,246	...	450	(b)
Senator-Rouyn Limited	95,596	...	92,759	12,877	1,136	300	(c)
Sigma Mines (Quebec) Limited	299,236	...	299,236	49,674	9,744	1,100	(c)
Siscoe Gold Mines Limited	157,791	...	157,791	22,799	2,308	270	(a)(c)
Sladen-Malartic Mines Limited	181,701	...	181,557	16,274	11,555	700	(c)
Stadacona Rouyn Mines Limited	123,877	...	123,877	21,721	4,416	500	(c)
Sullivan Consolidated	139,995	19,056	120,939	26,706	6,958	500	(c)
West Malartic Mines Limited	3,274	...	3,274	482	34	300	(c)
Total Principal Gold Mines				440,237	101,299		
Copper-gold-silver and other ores.				178,102			
Total Quebec				618,339			
Ontario -							
Porcupine District							
Aunor Gold Mines Ltd.	167,705	...	167,705	56,712	4,499	300	(c)
Bonetal Gold Mines Ltd.	29,019	2,321	26,698	4,674	467	...	(d)
Broulan Porcupine Mines Ltd.	84,931	9,140	75,791	15,850	1,538	350	(c)
Buffalo Ankerite Gold Mines Ltd. .	234,379	...	234,379	37,873	3,355	1,300	(c)
Coniaurum Mines Ltd.	114,385	...	114,385	28,114	5,837	500	(c)
Delnite Mines Ltd.	92,600	...	92,731	17,171	1,426	520	(c)
Dome Mines Ltd.	573,400	...	573,400	147,649	34,543	1,700	(c)
Hallnor Mines Ltd.	112,357	...	112,357	52,519	3,954	400	(c)
Hollinger Cons. Gold Mines Ltd. (Timmins)	1,045,601	...	1,048,646	250,075	48,140	3,900	(c)
Hollinger Cons. Gold Mines Ltd. (Ross)	70,236	...	70,309	12,981	39,171	300	(c)
Hoyle Mining Co. Limited	72,779	4,827	67,952	5,382	...	...	(e)
McIntyre Porcupine Mines Ltd.	614,138	...	613,200	168,587	34,398	2,400	(c)
Pamour Porcupine Mines Ltd.	386,686	...	386,686	35,447	6,032	1,600	(c)
Paymaster Cons. Mines Ltd.	151,432	...	140,015	31,158	9,677	600	(c)
Preston East Dome Mines Ltd.	231,259	...	230,899	40,604	4,952	1,000	(a)(c)
Kirkland Lake District							
Bidgood Kirkland Gold Mines Ltd. .	27,634	...	27,634	7,381	2,311	125	(c)
Kirkland Lake Gold Mining Co. Ltd.	91,443	...	91,443	29,876	3,404	400	(c)
Lake Shore Mines Ltd.	310,968	...	310,968	128,094	35,073	2,300	(c)
Macassa Mines Ltd.	87,393	...	87,393	35,931	7,071	400	(c)
Sylvanite	154,765	...	154,562	45,740	8,942	600	(c)
The Teck-Hughes Gold Mines Ltd. ..	91,302	...	91,302	29,831	3,572	600	(c)
Toburn Gold Mines Ltd.	40,753	...	40,753	13,071	4,040	175	(c)
Upper Canada	99,431	...	99,431	28,521	11,145	300	(c)
Wright Hargreaves Mines Ltd.	174,314	...	174,314	85,143	16,742	1,200	(c)

Table 4 - PRODUCTION OF GOLD AND SILVER IN CANADA BY PRINCIPAL MINES, 1946 (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>Larder Lake District</u>							
Chesterville Larder Lake Gold Mining Ltd.	225,458	...	225,458	28,078	1,481	700	(c)
Kerr-Addison Gold Mines Ltd.	531,815	...	531,695	105,483	5,975	2,100	(c)
Omega Gold Mines Ltd.	104,925	...	104,925	11,768	1,515	500	(c)
<u>Matachewan District</u>							
Hollinger Cons. Gold Mines Ltd. (Young-Davidson)	207,444	...	208,619	18,533	4,110	1,050	(c)
Matachewan Consolidated Mines Ltd.	223,090	...	222,890	24,169	9,663	1,000	(c)
<u>Thunder Bay District</u>							
Hard Rock Gold Mines Ltd.	144,378	41,612	102,766	19,581	293	450	(c)
Leitch Gold Mines Ltd.	34,585	4,879	28,692	24,319	759	90	(a)(c)
Little Long Lac Gold Mines Ltd. ..	77,664	9,814	67,850	19,702	1,665	300	(a)(c)
MacLeod-Cockshutt Gold Mines Ltd.	224,631	66,197	158,434	32,870	723	650	(c)
Magnet Consolidated Mines Ltd. ...	26,018	...	26,018	9,448	985	150	(a)(c)
Maylac Gold Mines Ltd.	989	228	761	588	34	...	
<u>Patricia District</u>							
Berens River Mines Ltd.	41,925	...	41,925	9,776	507,866	225	(f)
Central Patricia Gold Mines Ltd. .	97,808	...	97,808	32,622	3,195	400	(c)
Cochonour Willans Gold Mines Ltd.	61,526	...	59,570	21,898	623	250	(a)(c)
Hasaga Gold Mines Ltd.	106,132	23,958	82,427	7,973	3,295	350	(c)
Jason Mines Ltd.	11,549	1,437	9,956	2,221	264	135	(a)(c)
Madsen Red Lake Gold Mines Ltd. ..	121,649	...	121,649	29,751	6,741	400	(a)(c)
McKenzie Red Lake Gold Mines Ltd.	79,660	10,459	69,201	16,217	6,297	250	(c)
Pickle Crow Gold Mines Ltd.	73,990	880	73,209	37,664	4,944	400	(a)(c)
Total Principal Gold Mines				1,761,045	850,717		
Nickel-copper and other mines				52,288			
Total Ontario				1,813,333			
<u>Manitoba -</u>							
San Antonio Gold Mines Ltd.	150,335	...	149,875	43,819	6,621	550	(a)(c)
Copper-gold-silver ores				35,583			
Total Manitoba				79,402			
<u>Saskatchewan -</u>							
Copper-gold-silver and alluvial ores				112,101			
<u>Alberta -</u>							
Placer gold				110			
<u>British Columbia -</u>							
Bralorne Mines Ltd.	69,526	4,992	64,534	31,432	8,552	500	(a)
Cariboo Gold Quartz Mining Co. Ltd.	45,224	...	45,224	14,092	1,179	350	(c)
Hedley Mascot Gold Mines Ltd.	32,448	...	32,448	9,050	2,263	225	(c)
Island Mountain Mines Co. Ltd. ...	20,807	...	20,807	9,298	1,249	150	(c)
Kelowna Exploration Co. Ltd.	46,494	...	46,494	18,491	908	275	(c)
Polaris-Taku Mining Co. Ltd.	25,724	...	25,724	3,276	143	300	(f)
Pioneer Gold Mines of B.C. Ltd. ..	13,706	1,161	12,175	5,896	1,008	400	(a)(c)
Privateer Mine Ltd.	7,045	3,384	3,661	1,801	893	90	(c)
Reno Gold Mines Ltd.	3,843	1,185	2,658	872	612	50	(a)(f)
Sheep Creek Gold Mines Ltd.	18,208	...	18,208	5,678	1,457	150	(c)
Silbak Premier Mines Ltd.	34,804	...	34,804	8,163	38,066	500	(f)
Total Principal Gold Mines				108,049	56,330		
Placer gold				15,530			
Copper-gold and other ores				12,663			
Total British Columbia				136,242			

Table 4 - PRODUCTION OF GOLD AND SILVER IN CANADA BY PRINCIPAL MINES, 1946 (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
<u>Yukon -</u>							
Placers .....	...	...	...	45,286	9,416	...	(a)
<u>Northwest Territories -</u>							
Negus Mines Ltd.	27,287	2,790	24,419	15,772(g)	4,061(g)	65	(a)(c)
Cons. Mining & Smelting Co. Ltd.	19,918	...	19,918	7,648	2,051	350	(a)(c)
Total Northwest Territories ...				23,420			
TOTAL CANADA				2,832,554			

- (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, 1937-1946

Year	Nova Scotia		Quebec		Ontario		Manitoba	
	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$
1937 ...	19,918	696,931	711,480	24,894,685	2,587,095	90,522,454	157,949	5,526,636
1938 ...	26,560	934,248	881,263	30,998,426	2,896,477	101,883,578	185,706	6,532,200
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
TOTAL ..	148,380	5,476,210	8,696,286	326,048,408	25,076,925	936,307,902	1,279,604	47,527,243

Year	Saskatchewan		British Columbia		Yukon		Northwest Territories	
	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$
1937 ...	65,886	2,305,351	505,857	17,699,936	47,982	1,678,890	...	...
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	333,218
1946 ...	112,101	4,119,712	136,242	5,006,893	45,286	1,664,260	23,420	860,685
TOTAL ..	1,130,379	42,743,910	4,199,296	156,166,216	584,743	21,817,323	399,566	14,897,231

(*) From all sources.

Table 6 - GOLD RECOVERED IN CANADA ACCORDING TO NATURE OF ORE, BY PROVINCES, 1942-1946

Year and Province	Placer gold	Auriferous quartz ores (x)	Copper-gold- silver ores	Nickel- copper ores	Silver-lead and other ores	Total
(Ounces)						
1942						
Nova Scotia .....	...	12,989	...	...	...	12,989
Quebec .....	...	811,714	280,580	...	94	1,092,388
Ontario .....	...	2,692,828	...	70,861	130	2,763,819
Manitoba .....	...	85,193	51,033	...	...	136,226
Saskatchewan	9	15,141	163,721	...	...	178,871
Alberta	34	...	...	...	...	34
British Columbia	26,323	418,048	19,892	...	10,076	474,339
Northwest Territories..	...	99,394	...	...	...	99,394
Yukon	83,198	...	...	...	48	83,246
Total Canada	109,564	4,135,307	515,226	70,861	10,348	4,841,306
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
1945						
Nova Scotia .....	...	3,291	...	...	...	3,291
Quebec .....	...	434,784	212,146	...	14,678(*)	661,608
Ontario .....	...	1,532,715	44,544	48,109	...	1,625,369
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	7,297	...	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

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

(x) Includes production of Golden Manitou mine which was classified prior to 1943 as auriferous quartz.

Table 7 - CANADIAN GOLD PRODUCTION ACCORDING TO METHOD OF COMPUTATION AND RECOVERY, 1932-1946

Year	In alluvial gold %	In crude gold bullion produced at mines (a) %	In base bullion produced at lead smelters %	In blister and anode copper produced (b) %	In ores, matte, slags, etc. exported %	Total gold produced fine oz.
1932	1.8	79.3	1.0	15.1	2.8	3,044,387
1933	2.0	79.8	0.7	14.2	3.3	2,949,309
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

(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 (*), 1944-1946 (Fine ounces)

Month	1944	1945	1946	Month	1944	1945	1946
January	258,607	237,210	238,502	July	236,362	213,815	239,583
February	257,613	215,993	229,488	August	237,617	215,386	231,151
March	267,485	232,610	248,308	September ...	237,151	215,157	229,966
April	245,577	227,575	238,604	October	230,749	233,487	241,003
May	257,647	221,288	240,702	November	223,806	224,542	231,305
June	240,673	215,802	234,503	December	229,624	243,862	229,439

(*) 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 - PRECIOUS METALS CONSUMED BY THE JEWELLERY AND SILVERWARE INDUSTRY IN CANADA, 1944 and 1945

Material	Cost at Works	
	1944	1945
	\$	\$
Fine gold	3,665,017	4,467,387
Gold alloys	826,199	775,026
Fine silver	1,749,154	2,449,548
Silver alloys	1,014,775	1,344,939
Platinum	150,966	360,655
Old gold, jewellers' findings, waste and scrap for refining	1,379,536	1,228,148
Gold-filled wire and stock	349,871	395,526
Precious and semi-precious stones	1,252,769	1,459,821

Table 10 - GOLD PRODUCTION OF THE WORLD (a) - (In Fine Ounces) - 1940, 1943 and 1946 (Taken From American Bureau of Metal Statistics)

Country	1940	1943	1946
North America -			
United States	5,919,928	1,365,223	1,625,431
Canada	5,311,145	3,651,301	2,828,404
Mexico	883,096	634,752	417,950
Newfoundland	22,000	18,735	15,751
Total North America	12,136,169	5,670,011	4,887,536
Central America and West Indies	287,296	302,300	250,000
South America -			
Brazil	264,311	191,300	170,000
Chile	335,424	173,745	230,517
Colombia	631,926	565,501	437,176
Ecuador	71,217	90,691	72,500
Peru	281,248	199,638	173,000
Guiana - British	35,746	19,470	25,000
Dutch	15,921	5,795	6,000
French	32,568	20,608	21,000
Venezuela	146,800	62,802	50,000
Other South America	30,000	30,000	20,000
Total South America	1,845,161	1,359,550	1,205,193
Europe	600,000	450,000	450,000
Oceania -			
New South Wales	89,839	63,779	31,000
Queensland	126,831	62,838	50,000
Victoria	163,662	56,511	86,993
Western Australia	1,191,481	546,470	616,962
Tasmania	19,171	17,245	15,400
New Guinea	294,795	...	...
New Zealand	185,665	149,150	102,000
Fiji	111,300	64,420	72,000
Other Oceania (c)	46,538	4,436	5,000
Asia - British India	289,357	252,353	131,000
Africa -			
Belgian Congo	554,652	443,481	320,000
French West Africa	73,576	80,296	76,000
Kenya	77,243	45,118	40,000
Madagascar	11,574	9,163	7,000
Rhodesia	842,266	657,387	544,848
British West Africa (b)	939,223	586,013	595,000
Tanganyika	142,074	69,741	48,300
Transvaal, Cape Colony and Natal	14,037,741	12,800,021	11,917,914
TOTALS FOR WORLD (d)	34,065,614	23,690,283	21,452,141

(a) In compiling this table, free use has been made of the reports of the United States Director of the Mint. Production of the Philippine Islands is included with the United States in this table.

(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 1940-41 these omissions accounted for about 6,700,000 ounces, and for subsequent years probably decreased to about 5,500,000 ounces. This will enable anyone to continue an estimational line of figures if it be desired to do so.

Table 11 - GOLD PRODUCTION FOR THE WORLD SINCE THE DISCOVERY OF AMERICA

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)
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	9,954,762	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
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	2,828,404	(o)

(a) Supplied by United States Mint.

(b) Not available.

(c) 1792-1847.

(d) 1848-1872.

Note: Footnotes concluded on Page 11.

Footnotes to Table 11 Concluded.

- (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 12 - ESTIMATED AVERAGE MONTHLY VALUE OF AN OUNCE OF FINE GOLD, EXPRESSED IN CANADIAN FUNDS, 1932-1946

Month	1932	1933	1934	1935	1936	1937	1938	1939	(1940) (1945)	1946
	(Dollars)									
January	24.24	23.64	33.05	34.95	35.06	35.01	34.99	35.30	38.50	38.50
February	23.67	24.74	35.29	35.05	35.18	35.01	35.00	35.19	38.50	38.50
March	23.11	24.78	35.08	35.40	35.11	34.98	35.05	35.13	38.50	38.50
April	22.98	25.33	34.93	35.18	35.13	34.95	35.15	35.15	38.50	38.50
May	23.38	27.75	34.94	34.95	35.00	34.94	35.22	35.13	38.50	38.50
June	23.83	28.24	34.73	35.05	35.09	35.02	35.36	35.07	38.50	38.50
July	23.73	30.58	34.59	35.08	34.91	35.05	35.24	35.06	38.50	35.35
August	23.61	30.09	34.19	35.09	35.00	35.00	35.12	35.01	38.50	35.00
September	22.88	31.79	34.18	35.28	34.99	35.00	35.12	37.21	38.50	35.00
October	22.65	31.48	34.27	35.49	34.99	34.99	35.32	38.43	38.50	35.00
November	23.73	32.68	34.16	35.37	34.95	34.98	35.25	38.50	38.50	35.00
December	23.85	32.14	34.57	35.33	34.98	34.93	35.28	38.50	38.50	35.00
YEARLY AVERAGE	23.47	28.60	34.50	35.19	35.03	34.99	35.17	36.14	38.50	36.75

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

(Supplied by United States Mint)					
Year		Year		Year	
1700	14.81	1905	33.87	1936	77.09
1750	14.55	1910	38.22	1937	77.44
1800	15.68	1915	40.48	1938	80.39
1850	15.70	1920	20.28	1939	88.84
1875	16.64	1925	29.78	1940	99.76
1880	18.05	1930	53.74	1941	99.73
1885	19.41	1932	73.29	1942	90.57
1890	19.75	1933	59.06	1943	77.67
1895	31.60	1934	72.49	1944	77.67
1900	33.33	1935	54.19	1945	67.00
				1946	40.83

Table 15 - 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
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	...	7,293
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, 1946

Mining

The volume of employment generally indicated in mining was greater by 5.7 per cent in 1946 than in 1945; fractionally higher than in 1944. The latest index was, nevertheless, lower than in 1943 and earlier years of the war. The 1946 annual index in mining stood at 155.2 as compared with 146.9 in the preceding 12 months. Industrial disputes again seriously affected the situation during 1946, there being large losses due to this factor among workers in the metallic ores division during a lengthy period.

Statistics were tabulated from 535 mine operators whose working forces averaged 73,164. In 1945, data were supplied by 502 mines with a staff of 69,173 persons. The weekly salaries and wages disbursed by the co-operating mining companies and branches during 1946 averaged \$2,869,465; this was greater by 7.4 per cent than the payrolls reported in the preceding year. The average earnings were \$39.21 as compared

with \$38.60 in 1945, \$38.05 in 1944, \$36.09 in 1943 and \$34.81 in 1942. The latest per capita figure was higher by \$6.73, or 20.7 per cent, than the general average earnings in the nine leading industries, being exceeded only by the mean of \$40.07 in transportation, in which the employees are also predominately male.

Coal Mining - There was a rather small increase in employment in coal mining during 1946, according to returns from 142 employers with a staff of 26,138 persons, as compared with 25,551 reported in 1945. The latest annual index number, at 94.8, was 2.3 per cent higher than in the preceding 12 months. The accompanying increase in the index of weekly payrolls amounted to 7.1 per cent; the reported salaries and wages averaged \$1,020,346 in the year under review, when the per capita weekly earnings stood at \$39.03. This was the highest in the record. The means in earlier years of the record were as follows: 1945, \$38.19; 1944, \$36.95; 1943, \$33.18 and 1942, \$31.09.

During 1946, the time lost in coal mining as a result of industrial disputes amounted to 43,854 man-days, as compared with 183,102 in 1945.

Metallic Ores - In spite of prolonged strikes in the metal mining industries in British Columbia and Quebec, and continued shortages of labour in certain areas, employment in the extraction of metallic ores reached a higher level during 1946 than in 1945. A combined working force of 34,655 persons was employed during the year under review by the 255 reporting operators; in 1945, the 231 firms furnishing data had had an average of 32,302 employees. The latest index was 269.9, being higher by 7.2 per cent than that of 251.7 a year earlier. The accompanying increase in the index of payrolls was 8.7 per cent. The indicated disbursements in weekly salaries and wages averaged \$1,443,125. The per capita figure was \$41.63, rising from \$41.02 per week in 1945. The previous annual averages were: 1944, \$40.68; 1943, \$39.70, and 1942, \$38.60.

During the 12 months under review, the hours worked per week in the 141 establishments furnishing information on man-hours averaged 45.1, as compared with 45.8 in 1945, when the hourly rate was 85 cents, as compared with 87.4 cents in 1946. The employees working these hours averaged 29,636; the difference as compared with the staff of 34,655 workers mentioned in the preceding paragraph was made up of salaried personnel and wage-earners paid other than by the hour.

Non-metallic Minerals Other Than Coal - The trend continued upward during 1946 in the extraction of miscellaneous non-metallic minerals. An average of 12,371 men and women was employed by the 138 co-operating employers; in the year before, 130 operators had reporting 11,320 employees. The latest annual index of employment stood at 183.8, exceeding the 1945 figure by 8.6 per cent. In the same comparison, the index of payrolls advanced by 7.9 per cent. The weekly salaries and wages disbursed averaged \$405,994, or \$32.77 per person in recorded employment. In 1945, 1944, 1943 and 1942, the per capita figures were \$32.64, \$32.34, \$30.84 and \$28.51, respectively. Greater activity in construction work resulted in a higher level of employment in most branches of this industry in the year under review.

THE ALLUVIAL GOLD MINING INDUSTRY, 1946

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

In 1945 there were 60,925 troy ounces of fine gold recovered from crude gold obtained in Canadian alluvial deposits. This is an increased production of 46 per cent over 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 1945 were made chiefly from deposits located in the Atlin and Cariboo districts.

Table 16 - SUMMARY STATISTICS OF ALLUVIAL GOLD MINING IN CANADA, 1945 and 1946

	1945			1946		
	British Columbia	Yukon	Alberta and Saskatchewan	British Columbia	Yukon	Alberta and Saskatchewan
						(a)
Number of firms and individual operators (d)	33	5	...	29	3	...
Number of employees	69	165	...	94	246	...
Salaries and wages paid \$	119,714	572,969	...	206,293	906,691	...
Electricity generated for own use k.w.h.	260,000	11,630,900	...	...	22,401,700	...
Electricity generated for sale .....	...	5,955,900	...	...	6,366,700	...
Crude gold recovered: crude oz.	12,589	38,000	110	11,912	50,243	136
Quantity of material handled - cu.yd.	263,527	2,981,599	...	428,603	5,917,740	...
Length of ditches .. Miles (b)	54	48	...	23	48	...
Total gross value of alluvial products \$	398,591	1,224,210	3,952	367,122	1,474,231	4,079
Fuel and electricity used (purchased) \$	7,948	33,556	...	18,411	65,795	...
Process supplies used \$	8,260	19,742	...	26,879	19,991	...
Cost of freight and express on dust, nuggets, bullion, etc. shipped (c) \$	1,289	5,259	...	2,012	8,733	...
Cost of smelter, refinery and mint treatment on material shipped (c) \$	2,507	2,187	...	2,745	11,377	...
Total net value of alluvial products \$	378,587	1,163,466	3,952	317,075	1,368,335	4,079

(a) Represents receipts of crude 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 17 - ALLUVIAL GOLD RECOVERED AND QUANTITY OF MATERIAL HANDLED (b), 1926-1946

Year	British Columbia				Yukon				Average value gold per fine ounce
	Material handled (c)	Gold recovered	Ounces per cu.yd.	Value per cu.yd.	Material handled (c)	Gold recovered	Ounces per cu.yd.	Value per cu.yd.	
	cu.yd.	fine oz.	fine oz.	\$	cu.yd.	fine oz.	fine oz.	\$	
1926 ...	1,237,090	16,730	0.0135	0.279	2,501,200	25,344	0.0101	0.208	20.67
1927 ...	2,470,552	7,353	0.0029	0.0599	2,421,489	30,778	0.0127	0.262	20.67
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	35,673	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

Note: For Footnotes see Page 15.

Footnotes to Table 17 -

- (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 18 - FUEL AND ELECTRICITY USED BY THE ALLUVIAL GOLD MINING INDUSTRY DURING 1946

Kind	Unit of measure	Quantity	Cost at Plant
<hr/>			
Bituminous coal -			
From Canadian mines	short ton	11	1,056
Coke (for fuel only)	short ton	2	200
Gasoline	Imp.gal.	40,545	21,879
Kerosene or coal oil	Imp.gal.	16,971	4,667
Fuel oil and diesel oil	Imp.gal.	80,507	31,257
Wood (cords of 128 cubic feet of piled wood)	cord	1,925	25,112
Other fuel .....	...	...	35
<hr/>			
TOTAL .....	...	...	84,206
<hr/>			
Electricity generated - (a) For own use	K.W.H.	22,401,700	...
(b) For sale	K.W.H.	6,366,700	27,726

Table 19 - POWER EQUIPMENT INSTALLATION, 1946

Description	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power	Number of units	Total horse power
Steam engines .....	...	...	1	15
Steam turbines .....	...	...	...	...
Diesel engines	7	773	5	163
Gasoline, gas and oil engines, other than Diesel engines	12	215	6	67
Hydraulic turbines or water wheels	6	15,685	2	50
<hr/>				
TOTAL	25	16,673	14	295
<hr/>				
Electric motors operated by power generated by the establishment	94	3,906	264	1,670
<hr/>				
Stationary power boilers .....	...	...	1	15
<hr/>				
Motor-generator sets	9	249	1	8

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 1946 there were 684 active auriferous quartz mines compared with 716 in 1945. The number of producing properties totalled 88 during the year under review, as against 83 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 \$88,422,683 in 1946 compared with \$85,819,315 in 1945. The major producing provinces were Ontario with \$65,297,233, Quebec with \$16,363,386, and British Columbia with \$4,176,664.

Employees in the lode gold mining industry totalled 21,973 compared with 18,388 in 1945. Salaries and wages paid amounted to \$47,211,062 against \$37,690,177 in the preceding year. Fuel and electricity consumed by the industry in 1946 totalled \$6,259,876, and the cost of explosives, drill steel and other process supplies used amounted to \$14,401,904. The Canadian gold mining companies paid \$7,334,500 in taxes and spent \$6,417,109 in prospecting and preliminary exploration of new areas or deposits.

Table 20 - PRINCIPAL STATISTICS OF THE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA, 1945 and 1946

	(b)					(a)	Amount of	Smelter	Gross value	Net value of
	Number	No. of	Number	Salaries	Cost of	Cost of	freight,	and	of bullion,	bullion, ore,
	of	operat-	of em-	and	fuel and	process	etc. paid	refinery	ore, concen-	concentrates
	active	ing	ployees	wages	electricity	supplies	on ship-	treatment	trates or	or residues
	opera-	plants				used	ments of	costs	residues	or residues
	tors	or					ore, slag,		shipped from	shipped from
		mines					etc.		mines (c)	mines (c)
				\$	\$	\$	\$	\$	\$	\$
1945										
Nova Scotia.	4	4	78	114,054	27,164	32,430	161	1,251	116,549	55,543
Quebec	367	368	4,672	9,191,570	1,523,310	2,582,764	57,793	472,994	17,974,078	13,337,217
Ontario	229	230	11,535	24,162,621	3,228,662	7,486,469	100,910	627,930	59,649,319	48,205,348
Manitoba ...	11	11	264	513,498	107,546	128,682	3,834	16,496	1,479,140	1,222,582
Saskatchewan	2	2	20	34,910	5,561	...	...	...	...	-5,561
British Columbia..	36	38	1,476	2,857,211	388,076	787,634	185,467	268,969	6,266,155	4,636,009
Northwest Territories	62	62	337	802,487	120,680	83,285	687	3,498	334,074	125,924
Yukon	1	1	6	13,826	...	...	...	...	...	...
CANADA ...	712	716	18,388	37,690,177(d)	5,400,999	11,101,264	348,852	1,391,138	85,819,315	67,577,062
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

(a) Explosives, chemicals, etc.

(b) Producing mines: 1945--83; 1946--88.

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

(d) Includes in salaries \$6,488,334 for 1945 and \$7,243,424 for 1946.

Table 21 - PRINCIPAL STATISTICS RELATING TO PRODUCERS ONLY IN THE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA, 1946

Province	Number of pro- ducing plants or mines	Number of em- ployees	Salaries and wages	Cost of fuel and elec- tricity	(a) Cost of process supplies used	Value of freight paid on shipments of ore, slag, etc.	(b) 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)
			\$	\$	\$	\$	\$	\$	\$
Nova Scotia	4	72	106,018	24,943	27,082	274	938	151,538	98,301
Quebec	20	3,690	8,069,259	1,458,317	2,613,087	63,507	341,786	16,363,386	11,886,689
Ontario	43	13,289	28,296,801	3,527,419	9,262,591	121,664	586,350	65,297,233	51,799,209
Manitoba	1	234	495,790	115,178	159,518	3,457	15,368	1,609,198	1,315,677
Saskatchewan .....	...	...	...	...	...	...	...	...	...
British Columbia	17	1,251	2,726,361	345,154	1,323,570	109,021	161,820	4,176,664	2,237,099
Northwest Territories	3	254	659,423	125,584	174,738	7,884	6,682	824,664	509,776
Yukon .....	...	...	...	...	...	...	...	...	...
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
Total Canada 1940 ...	278	30,353	53,560,938	7,935,193	20,390,784	691,649	2,486,587	178,794,078	147,289,865

(a) Explosives, etc.

(b) Includes handling charges.

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

Table 22 - ORES MINED AND MILLED, CRUDE BULLION RECOVERED AND CRUDE BULLION AND CONCENTRATES SHIPPED IN THE AURIFEROUS QUARTZ MINING INDUSTRY, 1946

		Nova Scotia	Quebec	Ontario	Manitoba	Saskat- chewan	British Columbia	Northwest Terri- tories	CANADA
Number of producing mines		4	20	43	1	...	17	3	88
Ore mined	ton	15,094	2,721,822	7,457,567	150,335	...	320,592	47,205	10,712,615
Material discarded (sorted) ...	ton	...	39,973	175,752	...	...	10,722	2,790	229,237
Ore milled (ground, etc.)	ton	15,094	2,547,296	7,266,796	149,875	...	283,322	44,337	10,306,720
Tailings re-treated	ton	...	...	...	...	...	...	...	...
Gold content of ores, slags, residues and concentrates shipped -									
To foreign smelters	fine oz.	...	...	16,429	...	...	42,385	...	58,814
To Canadian smelters	fine oz.	...	29,622	1,930	...	...	985	...	32,537
Bullion bars shipped -									
Gold content	fine oz.	4,155	390,232	1,660,843	43,819	...	65,987	22,673	2,187,709
Silver content	fine oz.	137	90,102	236,407	6,621	...	12,587	6,112	351,966
Bullion produced by amalgama- tion	crude oz.	4,442	32,063	205,999	4,544	...	38,573	5,643	291,264
Bullion produced by cyanidation	crude oz.	...	516,279	2,027,778	57,792	...	42,951	28,802	2,673,602
Total Bullion Produced	crude oz.	4,442	548,342	2,232,777	62,336	...	81,524	34,445	2,964,866
Content of bullion bars pro- duced:									
Gold	fine oz.	4,155	410,616	1,742,689	43,819	...	65,987	22,381	2,289,647
Silver	fine oz.	137	95,938	340,273	6,621	...	12,587	6,010	461,566
Gold value (standard)	\$	85,892	8,488,186	36,024,596	905,822	...	1,364,072	462,646	47,331,214
Silver value	\$	116	80,252	340,273	5,572	...	10,529	5,155	396,092
Exchange premium on bullion bars produced	\$	65,530	6,601,952	27,820,128	697,804	...	1,060,950	356,863	36,603,227
Value of ores, concentrates, slags and residues sold (shipped) .....	\$	...	1,192,996	1,158,041	...	...	1,731,113	...	3,992,150
Total Gross Value of Production	\$	151,538	16,363,386	65,297,233	1,609,198	...	4,176,664	824,664	88,422,683
Value of fuel, electricity and process supplies used, also freight on shipments, market- ing, smelter and refinery charges	\$	53,237	5,125,334	13,881,701	368,816	...	2,235,987	415,456	22,080,531
Net Value of Production	\$	98,301	11,238,052	51,415,532	1,240,382	...	1,940,677	409,208	66,342,152

Table 23 - ORES, CONCENTRATES, SLAGS, etc., SHIPPED TO SMELTERS FROM CANADIAN GOLD MINES, 1930-1946

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.
1930	52,540	22,910	1,187	9,665	2	117	70,497	22,432	18,276	46,102	53	1,009
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
GRAND TOTAL	2,205,580	434,042	74,142	258,539	3,463	46,785	166,479	106,527	584,479	1,572,083	2,302	368,242

Gold

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Table 24 - FUEL AND ELECTRICITY USED BY ENTIRE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA, BY PROVINCES, 1946

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
			\$		\$		\$		\$
Bituminous coal -									
(a) From Canadian mines	short ton	186	1,918	2,299	29,303	3,361	41,619	91	1,911
(b) Imported	short ton	...	...	18,163	232,588	32,971	390,786	...	...
Anthracite coal -									
(a) From United States	short ton	...	...	1,450	20,374	1,114	18,074	...	...
(b) Other	short ton	...	...	120	1,872	178	2,287	...	...
Coke (for fuel only)	short ton	...	...	111	2,142	65	1,053	...	...
Gasoline	Imp.gal.	2,347	793	177,874	62,327	262,604	99,776	24,684	10,300
Kerosene or coal oil	Imp.gal.	215	43	74,762	11,362	13,337	3,808	381	116
Fuel oil and diesel oil	Imp.gal.	2,225	256	677,798	100,871	757,869	129,641	110,568	24,201
Wood (cords of 128 cu.ft. piled wood)	cord	...	...	16,719	120,204	17,888	131,940	1,014	7,607
Other fuel .....	...	...	...	...	693	...	253	...	...
Electricity purchased for power and lighting (including service charges)	K.W.H.	1,560,030	21,933	164,476,048	1,244,365	538,059,141	2,834,318	23,931,000	105,937
Electricity purchased for other purposes (including service charges)	K.W.H.	...	...	9,160	155	16,367,320	16,438	...	...
Total .....	...	...	24,943	...	1,826,256	...	3,669,993	...	150,072
Electricity generated for own use	K.W.H.	...	...	10,863,246	...	7,040,260	...	28,270	...
Electricity generated for sale	K.W.H.	...	...	...	...	88,500	812	...	...
		Saskatchewan		British Columbia		Northwest Territories		C A N A D A	
Bituminous coal -									
(a) From Canadian mines	short ton	...	...	1,673	25,922	6	507	7,616	101,180
(b) Imported	short ton	...	...	13	342	...	...	51,147	623,716
Anthracite coal -									
(a) From United States	short ton	...	...	12	658	...	...	2,576	39,106
(b) Other	short ton	...	...	...	...	...	...	298	4,159
Coke (for fuel only)	short ton	...	...	2	31	...	...	178	3,226
Gasoline	Imp.gal.	...	...	45,369	16,128	28,859	14,271	541,737	203,595
Kerosene or coal oil	Imp.gal.	...	...	2,061	522	147	75	90,903	15,926
Fuel oil and diesel oil	Imp.gal.	...	...	1,136,598	164,296	405,600	84,854	3,090,658	504,119
Wood (cords of 128 cu.ft. piled wood)	cord	...	...	3,289	24,862	3,691	48,410	42,601	333,023
Other fuel .....	...	...	...	...	7,774	...	374	...	9,094
Electricity purchased for power and lighting (including service charges)	K.W.H.	...	...	18,224,568	151,535	3,358,284	48,051	749,609,071	4,406,139
Electricity purchased for other purposes (including service charges)	K.W.H.	...	...	...	...	...	...	16,376,480	16,593
Total .....	...	...	...	...	392,070	...	196,542	...	6,259,876
Electricity generated for own use	K.W.H.	...	...	15,931,413	...	14,511,578	...	...	...
Electricity generated for sale	K.W.H.	...	...	319,120	...	4,196,139	34,323	...	...

Table 25 - POWER EQUIPMENT (Including Stand-by or Emergency Equipment) 1946 (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	13	667	12	992
Steam turbines	3	132	2	90
Diesel engines	82	15,645	46	7,832
Gasoline, gas and oil engines, other than Diesel engines	92	4,815	106	6,976
Hydraulic turbines or water wheels	17	14,177	1	780
Electric motors (except motor-generator sets) -				
(a) Operated by purchased power	9,154	256,759	1,348	29,499
Total	9,361	292,195	1,515	46,169
(b) Operated by above primary units	870	15,952	190	3,898
Stationary boilers	192	16,025	43	2,276
Motor-generator sets	487	19,341	20	738

Table 26 - CERTAIN DATA RELATING TO THE PRODUCTION OF GOLD BY THE ENTIRE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA, 1929-1946 (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				...
1931 (a)	250	1.19	6.50				...
1932 ...	255	1.21	6.31				...
1933 (b)	207	1.36	7.45				...
1934 (c)	154	1.71	9.64				...
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

(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, 1939-1946

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

(*) Data not available.

Table 28 - PRINCIPAL STATISTICS RELATIVE TO ALL ONTARIO GOLD MINES, BY AREAS (d), 1944-1946

Camp or District	Number of producers	Ore treated (c)	Total gold recovered	Average ounces per ton recovered	Employees	Salaries and wages paid	Cost of fuel, electricity and process supplies
	No.	Tons	Fine oz.		No.	\$	\$
1944							
Porcupine	16	3,788,313	873,027	.23	6,022	13,225,351	5,085,404
Kirkland Lake	9	1,011,225	383,167	.38	2,346	5,129,054	2,396,345
Larder Lake	3	752,954	114,838	.15	644	1,371,210	875,748
Matachewan	2	341,359	28,635	.08	238	507,215	421,418
Sudbury	1	...	49(b)	...	64	157,374	74,995
Thunder Bay	4	305,276(a)	100,667	.33	695	1,576,544	943,352
Rainy River and Kenora	...	...	...	...	3	4,233	...
Patricia	8	601,441	175,657	.29	1,107	2,481,223	1,384,795
Total	43	6,800,568	1,676,040	.24	11,119	24,452,204	11,182,057
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	830,454
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	10,715,131
1946							
Porcupine	15	3,955,153	904,797	.23	7,254	15,158,203	6,142,520
Kirkland Lake	9	1,077,790	403,589	.37	2,726	5,799,277	2,576,045
Larder Lake	3	862,078	145,329	.17	836	1,754,359	1,028,894
Matachewan	2	431,509	42,702	.10	288	604,755	494,814
Sudbury .....	...	...	...	...	...	...	...
Algoma .....	...	...	...	...	...	...	...
Thunder Bay	6	384,521	106,509	.28	861	1,835,947	962,747
Rainy River and Kenora	...	...	...	...	...	...	...
Patricia	8	555,745	158,122	.28	1,324	3,144,260	1,584,990
Total	43	7,266,796	1,761,048	.24	13,289	28,296,801	12,790,010

(a) In addition, 15,732 tons of tailings were re-treated in 1944.

(b) Mill clean-up.

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

(d) Includes data for all active properties.

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

Year	Ore hoisted Tons	Ore milled (c) Tons	Crude ore shipped to smelters (d) Tons	Low grade sorted out Tons	Tailings re-treated Tons	Gold recovered as bullion(b) fine oz.	Gold in crude ore shipped fine oz.	Gold in concentrates slag, etc., shipped 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 ...	12,588,489	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 ...	20,031,736	19,026,273	210,396	936,003	480,299	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

(a) Not available.

(b) Content of bullion shipped 1930-1935; 1936-1946 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, 1930-1946

Year	Tonnage treated (c)	Gold content (b) fine oz.	Silver content (b) (d) fine oz.	Oz. of fine gold per ton	Oz. of fine silver per ton	Average price of gold \$ per oz.	Average price of silver \$ per oz.
1930	4,429,906	1,984,791	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	2,380,998	1,025,619	.23	.10	36.75	0.836

(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, 1936-1946 (Tons of 2,000 pounds per 24 hours)

Year	Nova Scotia	Quebec	Ontario	Manitoba	Saskat- chewan	British Columbia	Northwest Territories
1936	713	4,514	22,639	1,000	...	4,120	...
1937	565	6,090	25,249	975	30	3,915	...
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

Table 32 - SPECIFIED COSTS PER TON OF ORE MILLED AT CERTAIN OF THE PRINCIPAL AURIFEROUS QUARTZ MINES IN CANADA, 1946

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. ..	1.475	4.425	1.286	0.311	7.497	1.313	1.098	9.908
Consolidated Beattie Mines Ltd.	0.477	1.329	1.888	1.471	5.165	...	...	...
East Malartic Mines Ltd.	0.414	2.464	0.703	0.496	4.077	0.762	0.123	4.962
Francoeur Gold Mines Ltd.	0.56	2.39	1.50	0.98	5.43	0.56	nil	5.99
Lamaque Mining Co. Ltd.	1.47	2.47	1.03	1.49	6.46	0.20	1.02	7.68
O'Brien Gold Mines Ltd.	1.29	5.78	2.70	4.75	14.02	1.16	1.76	16.94
Perron Gold Mines Ltd.	0.505	2.441	0.929	0.916	4.791	0.263	0.433	5.487
Senator-Rouyn Ltd.	1.01	2.62	1.00	1.21	5.84	1.58	0.03	7.45
Sigma Mines (Quebec) Ltd.	0.394	2.132	0.713	0.482	3.721	0.433	0.669	4.823
Siscoe Gold Mines Ltd.	0.448	2.734	0.856	0.674	4.712	...	...	...
Sladen Malartic Mines Ltd.	0.56	1.62	0.88	0.39	3.45	0.22	0.03	3.70
Stadacona Mines (1944) Ltd. ...	0.62	2.24	1.01	1.48	5.35	...	0.18	5.53
Sullivan Consolidated Mines Ltd.	2.22	2.29	0.94	0.40	5.85	0.92	0.50	7.27
<u>Ontario</u>								
<u>Porcupine District</u>								
Aumour Gold Mines Ltd.	1.32	4.08	1.07	0.79	7.26	1.45	1.15	9.86
Bonetal Gold Mines Ltd.	0.75	2.31	1.39	1.00	5.45	1.24	...	6.69
Broulan Porcupine Mines Ltd. ..	0.39	3.22	1.01	1.10	5.72	1.70	...	7.42
Buffalo Ankerite Gold Mines Ltd.	1.28	3.36	0.84	0.76	6.24	0.23	nil	6.47
Coniaurum Mines Ltd.	2.33	3.79	1.05	0.27	7.44	...	...	...
Hollinger Cons. Gold Mines - (Timmins)	1.124	3.662	0.755	1.087	6.528	0.246	0.596	7.370
(Ross)	3.045	1.901	1.870	1.054	7.870	1.019	0.054	8.943
McIntyre Porcupine Mines Ltd. .	0.614	4.994	0.974	0.268	6.850	0.154	1.180	8.184
Pamour Porcupine Mines Ltd. ...	0.40	1.37	0.63	0.27	2.67	0.36	0.07	3.10
Paymaster Consolidated Mines Ltd.	1.13	3.68	1.37	0.79	6.97	0.27	0.36	7.60
Preston East Dome Mines Ltd. ..	1.74	3.86	0.80	0.29	6.39	0.49	0.31	7.19
<u>Kirkland Lake District</u>								
Bidgood Kirkland Gold Mines Ltd.	6.07	5.29	2.33	1.90	15.59	0.25	0.04	15.88
Kirkland Lake Gold Mining Co. Ltd.	1.71	5.05	1.31	1.51	9.58	0.87	0.39	10.84
Macassa Mines Ltd.	1.169	5.315	1.416	1.749	9.649	0.776	1.179	11.604
Teck-Hughes Gold Mines Ltd. ...	(c)	6.01	1.43	1.80	9.24	nil	0.52	9.76
Upper Canada Mines Ltd.	3.22	3.36	1.07	0.68	8.33	0.73	0.65	9.71
Wright-Hargreaves Mines Ltd. ..	(c)	6.446	1.622	1.875	9.943	0.316	2.502	12.761

Table 32 - SPECIFIED COSTS PER TON OF ORE MILLED AT CERTAIN OF THE PRINCIPAL AURIFEROUS QUARTZ MINES IN CANADA, 1946 (Concluded)

Name of Mine	Develop- ment and explora- tion (a)	Mining	Milling	General (b)	Total before deprecia- tion and taxes	Depre- ciation	Taxes	Total cost
(Dollars)								
Ontario (Concluded) -								
Larder Lake District								
Chesterville Mines Ltd.	0.44	1.46	0.81	0.52	3.23	1.16	nil	4.39
Kerr-Addison Gold Mines Ltd. ..	0.900	1.269	0.756	0.492	3.417	0.369	1.090	4.876
Omega Gold Mines Ltd.	0.325	3.080	1.470	0.091	4.966	0.119	0.010	5.095
Matachewan District								
Hollinger (Young-Davidson) Mines	0.413	0.935	0.766	0.458	2.472	0.041	0.194	2.707
Matachewan Cons. Mines Ltd. ...	0.242	1.372	0.759	0.546	2.919	0.089	0.125	3.133
Thunder Bay District								
Leitch Gold Mines Ltd.	3.29	9.61	2.84	0.33	16.07	2.14	3.13	21.34
Little Long Lac Gold Mines Ltd.	1.03	5.22	2.26	1.96	10.47	0.07	nil	10.54
Magnet Consolidated Mines Ltd.	5.903	6.643	1.994	0.443	14.933	...	...	...
Patricia District								
Cochenour Willans Gold Mines								
Ltd.	2.309	3.909	1.986	2.931	11.135	1.302	...	...
Hasaga Gold Mines Ltd.	1.067	1.729	1.225	0.624	4.645	0.557	...	...
Madsen Red Lake Gold Mines Ltd.	1.372	2.495	1.068	1.139	6.574	0.714	0.288	7.576
McKenzie Red Lake Gold Mines								
Ltd.	1.27	4.03	1.40	1.46	8.16	0.44	0.03	8.63
Pickle Crow Gold Mines Ltd. ...	2.83	5.24	1.45	1.64	11.16	1.09	...	...
British Columbia								
Bralorne Mines Ltd.	1.24	5.21	1.01	4.55	12.01	...	1.70	13.71
Cariboo Gold Quartz Mining Co.								
Ltd.	1.425	7.466	1.910	2.619	13.420	...	3.42	13.762
Hedley-Mascot Gold Mines Ltd. .	3.92	2.55	2.27	3.65	12.39	...	0.15	12.54
Island Mountain Mines Co. Ltd.	1.22	6.15	2.81	2.79	12.97	...	1.26	14.23
Pioneer Gold Mines of B.C. Ltd.	3.30	14.00	5.35	5.15	27.79	...	0.47	28.26
Sheep Creek Gold Mines Ltd. ...	1.63	5.99	2.28	1.63	11.53	...	0.21	11.74
Silbak Premier Mines Ltd.	1.986	2.817	2.113	8.627	15.543	...	0.221	15.764

(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(*), 1931-1946

Year	Wage- earners	Salaried employees	Total employees	Wages paid	Average per capita wages paid	Salaries paid	Total salaries and wages
	No.	No.	No.	\$	\$	\$	\$
1931	9,083	553	9,636	14,755,669	1,625	1,711,496	16,467,165
1932	9,809	633	10,442	15,803,139	1,611	1,883,445	17,686,584
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	29,320	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
			Male Female				
1945	15,907	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

(*) 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, 1931-1946

Year	Nova Scotia		Quebec		Ontario		Manitoba	
	Producing	Non-producing	Producing	Non-producing	Producing	Non-producing	Producing	Non-producing
(Dollars)								
1931 ...	5,409	3,988	573,192	48,115	16,543,014	448,768	256,743	62,231
1932 ...	4,500	51,861	924,375	328,091	17,712,693	162,763	496,049	...
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	825,625	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	399,527	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
Saskatchewan		British Columbia		Northwest Territories		C a n a d a		
1931 ...	...	...	1,210,309	15,722	...	...	18,588,667	579,824
1932 ...	...	3,350	1,027,168	7,228	...	...	20,164,785	553,293
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	970,566	...	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

Table 35 - WAGE-EARNERS, BY MONTHS, IN THE ENTIRE AURIFEROUS QUARTZ MINING INDUSTRY, 1931-1946

Month	1931	1941	1942	1943	1944	1945	1946
January	8,273	29,772	26,730	19,332	15,796	15,222	19,083
February	8,482	29,765	26,812	19,160	16,001	15,137	19,577
March	8,681	29,783	26,451	18,822	16,014	14,887	19,837
April	8,746	29,633	26,155	18,123	15,634	14,573	20,036
May	9,030	29,869	25,325	17,421	15,314	14,624	20,182
June	9,319	29,807	24,938	17,138	15,172	14,873	20,175
July	9,345	30,310	23,687	16,743	15,134	15,082	19,480
August	9,285	30,158	21,883	16,173	14,837	15,249	19,125
September	9,391	30,605	21,246	15,687	14,501	15,746	18,623
October	9,524	30,870	20,024	15,241	14,486	16,988	18,946
November	9,496	29,567	19,692	15,479	14,786	18,110	19,093
December	9,323	27,566	19,192	14,976	14,595	18,170	18,990

Table 36 - (*) EMPLOYMENT IN PRODUCING LODE GOLD MINES IN CANADA, BY PROVINCES, 1946 and 1947 (x)

Month	Quebec		Ontario		British Columbia		Other districts and provinces		Canada	
	1946	1947	1946	1947	1946	1947	1946	1947	1946	1947
January	3,471	3,442	12,040	13,607	1,584	1,048	402	339	17,497	18,436
February	3,514	3,567	12,187	13,620	1,622	1,221	419	333	17,742	18,741
March	3,491	3,542	12,288	13,510	1,630	1,418	392	324	17,801	18,794
April	3,451	3,389	12,322	13,454	1,579	1,446	394	376	17,746	18,665
May	3,284	3,025	12,310	13,585	1,528	1,577	407	348	17,529	18,535
June	3,170	3,162	12,306	13,579	1,370	1,674	412	322	17,258	18,737
July	3,156		12,260		341		495		16,252	
August	3,100		11,835		363		537		15,835	
September ...	2,987		11,675		324		534		15,520	
October	3,085		11,983		303		499		15,868	
November	3,139		12,171		368		541		16,219	
December	3,029		12,044		988		518		16,579	

(*) Mines with 15 or more employees.

(x) Subject to revision.

Table 37 - CLASSIFICATION OF WAGE-EARNERS EMPLOYED IN ENTIRE AURIFEROUS QUARTZ MINING INDUSTRY, 1945 and 1946

Province	1945					1946				
	Mine		Under-ground	Mill		Mine		Under-ground	Mill	
	Surface					Surface				
	Male	Female		Male	Female	Male	Female		Male	Female
	(Number)									
Nova Scotia	25	1	41	4	...	16	1	45	6	...
Quebec	1,365	32	2,030	285	...	1,847	46	2,472	305	1
Ontario	2,971	68	6,454	881	...	3,661	65	8,052	1,018	...
Manitoba	95	6	91	15	...	206	9	120	15	...
Saskatchewan	9	1	...	...	...	3	...	...	...	...
British Columbia	390	29	619	170	...	424	25	657	112	...
Northwest Territories	182	7	27	4	...	276	8	99	15	...
Yukon	5	...	...	...	...	...	...	...	...	...
CANADA	5,042	144	9,262	1,359	...	6,430	154	11,495	1,471	1

Table 38 - COST OF PROSPECTING CONDUCTED BY CANADIAN AURIFEROUS QUARTZ MINING COMPANIES, 1945 and 1946

Province prospecting was conducted in - (a)	By Quebec companies	By Ontario companies	By Manitoba companies	By Saskatchewan companies	By British Columbia companies	By Yukon and Northwest Territories companies	Total
	(b)	(b)	(b)	(b)	(b)	(b)	
	(Dollars)						
	1945						
Nova Scotia	827	1,069	...	...	...	...	1,896
New Brunswick .....	...	...	...	...	...	...	...
Quebec	1,380,656	155,524	...	...	...	11,215	1,547,395
Ontario	91,527	1,324,929	...	...	...	6,377	1,422,833
Manitoba	6,319	26,173	103,739	4,943	...	16,512	157,686
Saskatchewan .....	...	...	...	8,778	...	21,324	30,102
British Columbia	46,433	48,487	...	...	104,775	47,083	246,778
Northwest Territories	40,927	331,375	6,970	...	740	598,767	978,779
Yukon .....	...	13,108	...	...	...	51,203	64,311
TOTAL CANADA	1,566,689	1,900,665	110,709	13,721	105,515	752,481	4,449,780

Table 38 - COST OF PROSPECTING CONDUCTED BY CANADIAN AURIFEROUS QUARTZ MINING COMPANIES, 1945 and 1946
(Concluded)

Province prospecting was conducted in - (a)	By Quebec companies (b)	By Ontario companies (b)	By Manitoba companies (b)	By Saskatchewan companies (b)	By British Columbia companies (b)	By Yukon and Northwest Territories companies	Total
	(Dollars)						
<u>1946</u>							
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 Territories	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

(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 1945 and 1946

	Footage Drilled (a)	
	1945	1946
Diamond drilling for exploration (testing) -		
By companies with their own equipment and personnel	591,243	571,794
By contractors	4,011,223	4,412,958
Other drilling -		
Diamond drilling for breaking rock or ore -		
By companies with their own equipment and personnel	134,555	161,363
By contractors	420,519	466,153
Drilling by percussion and other machines (b)	14,649,301	18,156,746

(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 1946 totalled \$345,909.

Table 40 - SPECIFIED TAXES PAID BY ACTIVE CANADIAN AURIFEROUS QUARTZ MINES IN 1945 and 1946 BY PROVINCES(*)

Nature of Tax	Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories	CANADA
	(Dollars)						
<u>1945</u>							
Dominion Income Tax, including tax on non-operating revenue .....	...	530,915	2,139,636	72,717	225,152	22,842	2,991,262
Dominion Excess Profits Tax.	...	490,003	3,399,707	105,943	248,491	27,251	4,271,395
Provincial taxes	581	250,100	295,328	250	110,424	8,081	664,764
Municipal taxes	1,125	111,085	184,160	251	5,657	11,200	313,478
TOTAL	1,706	1,382,103	6,018,831	179,161	589,724	69,374	8,240,899
<u>1946</u>							
Dominion Income Tax, including 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	369,862	1,074	82,059	3,737	735,508
Municipal taxes	396	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

(*) 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, 1943-1946

Province and Year	Workmen's compensation	Silicosis assessment	Unemployment insurance	Aggregate cost of all supplies purchased	Aggregate cost of plant and equipment purchased	Cost of buildings, machinery and equipment erected or installed
(Dollars)						
Nova Scotia -						
1943	5,032	...	1,000	28,508	6,000	(*)
1944	4,511	...	935	30,108	5,290	...
1945	4,309	...	1,191	21,732	6,204	200
1946	3,044	...	1,187	43,109	6,855	3,664
Quebec -						
1943	276,270	3,864	65,393	4,985,946	392,997	(*)
1944	268,668	604	54,237	4,486,519	484,699	514,139
1945	333,339	446	52,076	4,873,903	840,504	1,166,339
1946	577,507	574	60,671	7,127,669	2,195,574	4,373,899
Ontario -						
1943	679,519	562,053	194,002	12,687,037	532,737	(*)
1944	629,785	295,269	154,672	11,639,621	571,010	378,286
1945	645,288	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
Manitoba -						
1943	20,561	4,920	3,264	263,082	18,646	(*)
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
Saskatchewan -						
1943	(*)	(*)	(*)	(*)	(*)	(*)
1944	379	...	197	8,820	20,000	25,660
1945	587	...	284	2,160	16,596	11,237
1946	44	...	34	...	674	...
British Columbia						
1943	104,921	104,816	18,092	1,112,819	28,307	(*)
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
Northwest Territories -						
1943	17,206	...	2,575	451,798	573,969	(*)
1944	6,191	...	850	178,193	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	233,517	666,492
Yukon -						
1945	1,014	690	16	2,822	...	...
1946 .....	...	...	...	...	...	...
TOTAL CANADA -						
1943	1,103,509	675,653	284,326	19,529,190	1,552,656	(*)
1944	1,036,992	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	3,055,386
1946	1,630,493	443,532	264,098	30,104,091	6,517,527	10,195,940

(*) Data not available.

Table 42 - DIVIDENDS PAID AND ORE RESERVES OF SPECIFIED CANADIAN GOLD MINING COMPANIES

Name of Firm	Dividends Paid		Estimated Ore Reserves(*)		Year of first production
	During 1946	Total to December 31 1946	Total	Average ounces fine gold per ton	
	\$	\$	tons		
<u>Quebec -</u>					
Belleterre Quebec Mines Ltd.	300,000	450,000	522,245	0.357	1936
Canadian Malartic Gold Mines Ltd. ...	146,054	2,299,129	1,648,500	0.128	1935
Consolidated Beattie Mines Ltd. ....	...	4,435,023	2,712,700	0.132	1933
East Malartic Mines Ltd. ....	...	2,200,000	2,386,000	0.20	1938
Francoeur Gold Mines Ltd. ....	...	208,884	131,900	0.20	1938
Lamaque Mining Co. Ltd.	446,935	9,663,472	2,329,231	0.229	1935
Malartic Gold Fields Ltd. ....	...	400,000	1,960,000	0.187	1939
O'Brien Gold Mines Ltd.	195,000	1,820,000	179,971	0.433	1926
Perron Gold Mines Ltd.	200,000	2,340,000	174,000	0.185	1933
Powell Rouyn Gold Mines Ltd. ....	...	287,500	541,004	0.13	1937
Senator Rouyn Ltd. ....	...	102,250	165,914	0.175	1940
Sigma Mines (Quebec) Ltd.	600,000	4,050,000	1,301,700	0.207	1937
Siscoe Gold Mines Ltd. ....	...	8,232,803	43,843	0.23	1929
Stadacona Mines (1944) Ltd. ....	...	...	506,274	0.166	1936
Sullivan Consolidated Mines Ltd. ....	...	2,240,000	649,545	0.249	1934
<u>Ontario -</u>					
<u>Porcupine District</u>					
Aunor Gold Mines Ltd.	400,000	2,200,000	622,700	0.324	1940
Broulan Porcupine Mines Ltd. ....	...	1,091,072	180,000	0.18	1939
Buffalo Ankerite Gold Mines Ltd. ....	...	2,763,009	204,608	0.1976	1932
Coniaurum Mines Ltd.	138,337	3,366,088	75,172(a)	0.295	1928
Delnite Mines Ltd. ....	...	625,541	42,584(a)	0.16	1937
Dome Mines Ltd.	2,287,335	63,165,209	2,498,000	(b)	1910
Hallnor Mines Ltd.	720,000	6,820,000	475,321	0.34	1938
Hollinger Consolidated Gold Mines Ltd.	1,722,000	122,534,800	7,303,243	0.32	1910
Hollinger (Ross) Mines ....	...	...	569,409	0.213	1936
McIntyre Porcupine Mines Ltd.	2,615,445	40,999,591	4,036,183	0.3154	1912
Pamour Porcupine Mines Ltd.	150,000	3,700,000	1,372,000	0.1098	1936
Paymaster Consolidated Mines Ltd. ...	172,582	862,907	521,753	0.229	1934
Preston East Dome Mines Ltd.	15,000	4,155,000	403,295	0.245	1938
<u>Kirkland Lake District</u>					
Bidgood Kirkland Gold Mines Ltd. ....	...	...	(b)	(b)	1934
Kirkland Lake Gold Mining Co. Ltd. ..	159,801	4,519,812	318,892	0.4066	1919
Lake Shore Mines Ltd.	1,520,000	95,540,000	(b)	(b)	1918
Macassa Mines Ltd.	321,368	7,450,919	413,650	0.439	1933
Sylvanite Gold Mines Ltd.	395,940	9,422,712	61,332(a)	(b)	1927
Teck-Hughes Gold Mines Ltd.	721,072	41,892,367	263,939	0.354	1917
Toburn Gold Mines Ltd.	37,000	2,349,500	62,925	0.52	1913
Upper Canada Mines Ltd.	81,871	1,652,267	(b)	(b)	1938
Wright-Hargreaves Mines Ltd.	1,100,000	44,632,500	920,000	(b)	1921
<u>Larder Lake District</u>					
Chesterville Mines Ltd. ....	...	442,567	1,013,700	0.142	1939
Kerr-Addison Gold Mines Ltd.	1,419,090	9,933,632	8,464,950	0.198	1938
<u>Matachewan District</u>					
Hollinger Cons. Gold Mines Ltd. (Young Davidson) ....	...	...	577,337	(b)	1934
Matachewan Consolidated Mines Ltd. ..	34,390	102,990	1,188,000	0.111	1934
<u>Thunder Bay District</u>					
Hard Rock Gold Mines Ltd. ....	...	926,923	150,000	0.20	1938
Leitch Gold Mines Ltd.	233,000	920,153	151,556	0.805	1936
Little Long Lac Gold Mines Ltd.	73,640	3,976,965	484,940	0.341	1934
MacLeod-Cockshutt Gold Mines Ltd. ...	...	1,424,145	1,030,000	0.202	1938
Magnet Consolidated Mines Ltd. ....	...	...	51,500	0.35	1939

Table 42 - DIVIDENDS PAID AND ORE RESERVES OF SPECIFIED CANADIAN GOLD MINING COMPANIES (Concluded)

Name of Firm	Dividends Paid		Estimated Ore Reserves(*)		Year of first production
	During 1946	Total to December 31 1946	Total	Average ounces fine gold per ton	
	\$	\$	tons		
Ontario (Concluded) -					
<u>Patricia District</u>					
Berens River Mines Ltd.	100,000	520,000	75,430	0.25	1939
Central Patricia Gold Mines Ltd.	275,000	4,375,000	340,786	0.34	1934
Cochénour Willans Gold Mines Ltd. ...	...	975,846	(b)	(b)	1939
Hasaga Gold Mines Ltd. ....	...	...	175,127	0.134	1938
Jason Mines Ltd. ....	...	119,960	43,940	0.408	1940
Madsen Red Lake Gold Mines Ltd.	139,981	1,433,606	1,287,980	0.216	1938
McKenzie Red Lake Gold Mines Ltd. ...	...	2,668,191	(b)	(b)	1935
Pickle Crow Gold Mines Ltd.	313,695	8,563,685	693,795	0.41	1935
Manitoba -					
San Antonio Gold Mines Ltd.	406,814	5,159,834	720,000	0.3	1932
British Columbia -					
Bralorne Mines Ltd.	498,800	14,330,250	1,070,000	0.51	1932
Cariboo Gold Quartz Mining Co. ....	...	1,679,968	32,250	0.382	1933
Hedley Mascot Gold Mines Ltd. ....	...	1,290,556	(b)	(b)	1936
Island Mountain Mines Co. Ltd.	73,550	1,182,045	63,000	0.473	1934
Kelowna Exploration Co. Ltd. ....	...	1,560,000	(b)	(b)	1935
Pioneer Gold Mines of B.C. Ltd. ....	...	6,903,943	149,961	0.464	1928
Privateer Mine Ltd. ....	...	1,914,183	116,687	0.396	1937
Sheep Creek Gold Mines Ltd.	178,125	2,765,625	69,707	0.37	1935
Silbak Premier Mines Ltd.	25 000	2,375,000	73,341	0.25	1937
Northwest Territories -					
Negus Mines Ltd. ....	...	549,175	38,700	0.63	1939

(a) Broken ore.

(b) Data not available.

(*) Subject to revision and based on information secured from companies' annual printed reports. It should be noted that annual estimates of ore reserves are more or less based on current development and exploration to date, and that eventual or actual ore reserves of most producing mines are often in excess of those recorded in this report.

THE COPPER-GOLD-SILVER MINING INDUSTRY, 1946

The mining of "copper-gold-silver" ores in Canada during 1946 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 1946 were reported by 42 firms compared with 38 in 1945 and 23 in 1944. The gross value of crude ore, concentrates, etc. shipped in 1946 from the mines and mills to smelters was estimated at \$54,304,549, the cost of fuel, purchased electricity, process supplies, freight and treatment totalled \$16,870,567, and the net value of shipments was computed at \$37,433,982. Employees in 1946 totalled 4,958 compared with 4,658 in 1945 and 5,175 in 1944.

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 -

"A total of 789 feet of drifting was done to facilitate the mining of previously known ore, but because of the acute shortage of mines, no exploratory drifting was done and underground exploration was limited to 42,621 feet of diamond drilling was done on the northerly section of our Adsit claim which adjoins the property of the Queмонт Mining Corporation on the east. Most of this diamond drilling was done from the ice surface of Osisko Lake and the unusually early break-up of the ice interrupted this work before much definite information was obtained, so the programme of drilling this area was resumed this winter with four diamond drills.

"During the period from January 1 to November 21, 1946, the smelter treated 752,518 tons ore, concentrate, slag and scrap brass (shell cases), from which 74,065,031 pounds of anodes were produced. Included in the total material smelted were 250,226 tons of ore, concentrate and scrap which was smelted for other companies on a toll basis. After deducting the copper, gold and silver which was recovered from secondary products such as slag and scrap brass, the estimated recovery of new metals was 70,378,097 pounds of fine copper, 198,660 ounces of gold and 823,171 ounces of silver.

"During the period from January 1 to November 21, 1946 the concentrator treated 562,034 tons of ore from the Horne mine, from which 107,252 tons of copper-gold concentrate and 134,287 tons of pyrite concentrate were produced. The copper-gold concentrate was sent to the smelter and the pyrite concentrate was treated in the cyanide plant, where 9,354 ounces of gold was recovered by cyanidation, after which it was dried and sold to chemical plants."

Normetal Mining Corporation Ltd. -

"Due mainly to shortage of underground workmen, output of the mine was reduced to an average of 511 tons per day, the lowest since 1940. All zinc concentrate produced was shipped to a smelter in United States. Copper concentrate was shipped until the beginning of the strike at Noranda smelter on November 22 and after that time was stored at the mine. Following is summary of underground development work done during the year: drifts 3,094 feet; crosscuts, 1,517 feet; raises 511 feet; stations and pockets, 127 feet; diamond drilling, 9,403 feet. Lateral development on the 2,900 foot level was completed and on the 3,050 level about 75 per cent of the necessary work was done. Grade of ore continued to be satisfactory but tonnage per vertical foot is less than at the 2600-foot horizon and on some of the levels above. A series of holes, twelve in number, were diamond drilled below the 3200-foot level. Results from these were disappointing but not conclusive, and plans are being made to sink a winze to approximately the 4000-foot level to more fully explore the lower horizons of the mine."

Queмонт Mining Corporation Ltd. -

"Drilling from the ice was under way at the first of the year. Five drills were employed initially. This number was increased to ten, after overburden difficulties had indicated that the footage per drill would be lower than anticipated. The drill holes extended the known ore area and added greatly to the indicated ore tonnage.

"During the summer, one drill was employed on surface drilling of an exploratory nature. As the ice formed again in December the number of drills was increased to six, in order to continue exploration from the ice from where it left off at the break-up.

"During the year, preparations were made for sinking a large capacity production shaft. The site selected is on the point adjacent to the western end of the ore area, across the northwest arm of Osisko Lake from No. 1 shaft. The site was prepared and the shaft sunk 38 feet in rock, prior to commencing foundation work."

Waite Amulet Mines Ltd. -

"The tonnage treated in the mill during the year fell off sharply due to the scarcity of manpower, the production of zinc concentrate being severely affected. Mining of the main pillar in the lower "A" orebody commenced in July and it is expected that this operation will continue until the end of 1947

with the result that copper production should improve considerably. After the treatment of 427,400 tons during the year, the ore reserves of Amulet Dufault Mines, Ltd. were reduced by 15% and the ore reserves of the Waite Amulet orebodies were reduced over 40%."

Manitoba and Saskatchewan

Hudson Bay Mining & Smelting Co. Ltd. -

"Labour supply became adequate for the first time in several years. Total mine production was maintained at approximately the same rate as in 1945. There were 1,837,742 tons of ore milled during the year, of which 29.6 per cent was hoisted through the north main shaft and 70.4 per cent through the south main shaft. The tonnage of ore milled and the production of slab zinc, gold, silver and cadmium were all somewhat higher than in 1945, while the production of blister copper was only slightly lower.

"Major development and exploration work was increased as the labour situation improved. Drifting and crosseutting in the vicinity of the south main shaft were done on the 3,000,-3,250,-3,500,- and 3,750-foot levels. The south main shaft was sunk a distance of 369 feet full size from the 3,631-foot level to the 4,000-foot level, an 84-foot rock pentice being temporarily left below the 3,500-foot level."

Sherritt-Gordon Mines Ltd. -

"The exhaustion of the mine at Sherridon is now proceeding at a rate which should permit the plant being released in time to be used in equipping our new nickel-copper mines for production. The East Mine was finally exhausted during the latter part of the year and part of this mining plant has already been shipped to Lynn Lake for use in sinking the first shaft. The West Mine will be worked at capacity, which is about 500,000 tons per year, throughout the present year. After that the tonnage will taper off over a two or three year period. Some parts of the plant can be dismantled and moved to Lynn Lake as required, before the final clean-up of the mine at Sherridon is completed.

"The results of the past year's exploration work at the Granville Lake area have been most gratifying. The bulk of the work was concentrated upon our nickel-copper property at Lynn Lake, where by the end of the year approximately 5,000,000 tons of ore averaging 1.18% nickel and 0.60% copper had been proven by closely spaced diamond drill holes, in three orebodies, to a depth of about 1,000 feet. As all three orebodies are quite strong at that horizon it is a reasonable assumption that a considerable additional tonnage will be developed at greater depths."

British Columbia

Britannia Mining & Smelting Co. Ltd. -

"On July 3rd a strike was called by the Mine, Mill and Smelter Workers' Union simultaneously at all producing copper and gold properties operating in British Columbia. Operations were resumed on October 21st, but as the organization was widely scattered, production did not begin until November 5th. Production which started after the strike at 1,800 tons, has been increased steadily and was at a level of 3,000 tons per day at the year's end. With a continuation of the present favorable price level for copper, and barring unexpected difficulties with labor, the general outlook at this property is better than at any time during the past several years."

Granby Consolidated Mining, Smelting and Power Co. Ltd. -

"During the year, 597,678 tons of ore was milled at the property located at Copper Mountain. The milled ore produced 20,007 tons of concentrates which has a metal content of 2,487 ounces of gold, 76,116 ounces of silver and 10,628,042 pounds of copper. The concentrates were exported to the smelter at Tacoma, Washington."

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

Table 43 - 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 \$
1936	19	21	40,732,717	3,738	5,473,325	495,843	15,619,897
1937	28	31	73,338,258	5,164	8,240,614	901,088	24,902,851
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	9,653,612	1,175,916	38,165,269
1946	42	44	(c)	4,658	10,244,487	1,152,925	37,433,982

(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 44 - SHIPMENTS FROM COPPER-GOLD-SILVER MINES OF CANADA, 1945 and 1946

	Quantity tons	Value \$	Total Metal Content as Determined by Settlement					
			Assay (c)					
			Gold fine oz.	Silver fine oz.	Copper pounds	Sulphur tons	Zinc pounds	
1945								
11 mines shipped to Canadian plants (a) -								
Ores	518,902	8,594,812	74,200	593,058	41,044,522	...	...	...
Copper concentrates	646,079	31,466,061	229,695	2,378,694	172,606,419	...	...	...
Zinc concentrates	140,826	7,111,328	5,812	161,511	1,476,682	...	105,771,054	...
Iron pyrites concentrates ..	71,067	152,603	...	...	...	35,002	...	...
Slags, residues, gold pre- cipitates and bullion	325	1,241,062	30,094	182,636	12,382	...	...	...
8 mines shipped to foreign plants -								
Ores .....	...	...	...	...	...	...	...	...
Copper concentrates	52,742	4,140,213	14,267	174,272	25,967,476	...	(d)1,511,353	...
Zinc concentrates	91,845	6,139,799	554	14,705	...	...	94,831,659	...
Iron pyrites concentrates ..	156,667	329,608	...	...	...	75,201	...	...
Precipitates	698	124,386	...	...	963,905	...	...	...
Total	1,679,151	59,299,872	354,622	3,504,876	242,071,386	110,203	200,602,713	...
Value of process supplies, etc. (b) .....	...	21,134,603	...	...	...	...	...	...
Net Value .....	...	38,165,269	...	...	...	...	...	...

Table 44 - SHIPMENTS FROM COPPER-GOLD-SILVER MINES OF CANADA, 1945 and 1946 (Concluded)

SHIPMENTS FROM UPPER-GOLD-SILVER MINES OF CANADA, 1945 and 1946 (concluded)							
	Quantity tons	Value \$	Total Metal Content as Determined by Settlement				
			Assay (c)				
			Gold fine oz.	Silver fine oz.	Copper pounds	Sulphur tons	Zinc pounds
<u>1946</u>							
8 mines shipped to Canadian plants (a) -							
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	...	...
7 mines shipped to foreign plants -							
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	...	...	...	...	...

(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.

Table 45 - CONTENT OF ORES, CONCENTRATES, ETC., SHIPPED FROM COPPER-GOLD-SILVER MINES, 1941-1944

		C o n t e n t					
		Tons	Gold	Silver	Copper	Zinc	Sulphur
			fine oz.	fine oz.	pounds	pounds	tons
To Canadian Smelters							
1941 -	Copper ore	865,921	159,647	320,994	22,516,954	...	...
	Copper concentrates	828,622	296,302	4,282,053	240,003,806	3,138,594	...
	Zinc concentrates	135,582	6,263	212,115	1,246,645	125,006,638	...
	Pyrite	94,818	...	...	...	...	45,446
	Slag, precipitates, etc.	189	28,893	113,299	162,553	68,337	...
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	...	...

Table 45 - CONTENT OF ORES, CONCENTRATES, ETC., SHIPPED FROM COPPER-GOLD-SILVER MINES, 1941-1944
(Concluded)

		(Continued)					
		Tons	C o n t e n t				
			Gold	Silver	Copper	Zinc	Sulphur
			fine oz.	fine oz.	pounds	pounds	tons
<u>To Foreign Smelters</u>							
1941 -	Copper ore	21	5	72	865	...	...
	Copper concentrates and precipitates	145,549	49,802	430,563	68,313,890	...	...
	Zinc concentrates	51,983	471	47,051	397,450	57,515,573	...
	Pyrite	208,542	...	...	...	...	103,762
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	...	...

(*) Lead.

Table 46 - CLASSIFICATION OF WAGE-EARNERS EMPLOYED IN THE COPPER-GOLD-SILVER MINING INDUSTRY, BY PROVINCES,
1944-1946

Year	Surface		Underground	Mill		Total	
	Male	Female		Male	Female	Male	Female
Total Canada 1944	1,389	145	2,254	689	76	4,332	221
Total Canada 1945	1,314	85	1,919	653	62	3,887	147
<u>1 9 4 6</u>							
Quebec	487	9	741	177	13	1,405	22
Ontario	6	...	...	...	...	6	...
Manitoba	356	21	363	72	1	791	22
Saskatchewan	734	9	502	154	1	1,390	10
British Columbia	196	22	303	205	11	704	33
TOTAL CANADA	1,779	61	1,909	608	26	4,296	87

Table 47 - SPECIFIED DATA RELATING TO THE COPPER-GOLD-SILVER MINING INDUSTRY, 1931-1946 (x)

Year	Wage- earners	Wages paid	Average per capita wages paid	Salaried employees	Salaries paid	Total salaries and wages
	No.	\$	\$ (*)	No.	\$	\$
<u>Producing Mines</u>						
1931	2,901	4,140,890	1,427	160	465,603	4,606,493
1932	2,900	3,392,322	1,170	131	328,079	3,720,401
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
Total ....	...	110,044,824	...	...	16,942,247	126,987,071
<u>Non-producing Mines</u>						
1931	224	256,204	...	66	95,620	351,824
1932	33	27,439	...	12	22,787	50,226
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	38,671	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
Total ....	...	2,449,338	...	...	692,564	3,141,902

(x) Not including smelters or refineries.

(*) Including any bonus paid.

Table 48 - SPECIFIED DATA RELATING TO THE COPPER-GOLD-SILVER MINING INDUSTRY, 1931-1946 (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.	\$
1931 ...	225,088,928	709,614	9,300	(c)	(c)	(c)	311,800	16,888	1,159	(c)
1932 ...	127,331,868	446,736	9,300	(c)	(c)	(c)	1,584,700	16,727	609	(c)
1933 ...	68,188,303	387,312	9,300	(c)	(c)	(c)	453,000	17,313	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	1,049,325	9,300	4,746,830	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	882,633	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 ...	262,411,942	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	3,917,734	939,213	10,755,921	4,411,365	58,162	...	104,774

(a) Not including smelters or refineries.

(b) Partly conjectural.

(c) Not available.

Table 49 - DETAILS OF FUEL AND ELECTRICITY USED IN THE COPPER-GOLD-SILVER MINING INDUSTRY, 1945 and 1946

Kind	Unit of measure	1945		1946	
		Quantity	Cost at plant \$	Quantity	Cost at plant \$
Bituminous coal -					
(a) From Canadian mines	short ton	8,068	75,861	7,249	68,791
(b) Imported	short ton	2,056	28,470	1,941	27,887
Anthracite coal - From United States ...	short ton	65	1,190	82	1,577
Lignite coal	short ton	53,487	198,811	45,288	176,148
Coke (for fuel only)	short ton	94	1,589	91	1,537
Gasoline	Imp.gal.	93,804	31,184	98,876	33,974
Kerosene or coal oil	Imp.gal.	10,096	1,851	7,196	1,971
Fuel oil and diesel oil	Imp.gal.	813,998	106,893	820,897	115,428
Wood (cords of 128 cu.ft. of piled wood)	cord	268	1,349	3,777	15,671
Other fuel (charcoal)	pound	3,305	75	3,600	82
Electricity purchased, including service charges	K.W.H.	244,000,533	728,643	264,970,106	709,856
Total .....	...	...	1,175,916	...	1,152,925
Electricity generated for own use	K.W.H.	64,002,589	...	57,484,069	...
Electricity generated for sale	K.W.H.	427,991	6,431	785,157	12,219
Process supplies consumed (explosives, etc.) .....	...	...	4,917,595	...	4,022,508
GRAND TOTAL VALUE OF FUEL AND PROCESS SUPPLIES CONSUMED .....	...	...	6,093,511	...	5,175,433

Table 50 - POWER EQUIPMENT (Including stand-by or emergency equipment) IN THE COPPER-GOLD-SILVER MINING INDUSTRY IN CANADA, 1946

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	18	5,070	4	1,085
Gasoline, gas and oil engines, other than Diesel engines	11	398	2	245
Hydraulic turbines or water wheels	6	8,900	...	...
Electric motors (except motor-generator sets) -				
(a) Operated by purchased power	2,698	105,167	196	3,927
Total	2,734	120,876	205	6,257
(b) Operated by power generated by above primary units	597	18,659	37	2,034
Stationary boilers	33	4,273	6	882
Motor-generator sets	99	9,328	9	866

Table 51 - TAXES PAID BY THE COPPER-GOLD-SILVER MINING INDUSTRY IN CALENDAR YEARS 1945 and 1946

	1945	1946
	\$	\$
Dominion income tax, including tax on non-operating revenue	3,245,130	3,219,764
Dominion excess profits tax	6,086,445	4,967,843
Provincial tax	1,617,992	1,788,132
Municipal tax	305,760	264,911
GRAND TOTAL TAXES PAID	11,255,327	10,240,650

Table 52 - SPECIFIED EXPENDITURES BY THE COPPER-GOLD-SILVER MINING INDUSTRY, 1944-1946

	1944	1945	1946
	\$	\$	\$
Workmen's compensation	409,782	412,603	495,545
Silicosis assessment	86,744	96,004	91,082
Unemployment insurance	75,832	66,238	67,076
Aggregate cost of all supplies purchased	6,065,754	8,314,676	8,710,123
Aggregate cost of plant and equipment purchased ..	989,675	434,764	1,174,342
Cost of buildings, machinery and equipment erected or installed during year	1,304,542	424,066	1,845,259

Table 53 - COST OF PROSPECTING CONDUCTED BY THE COPPER-GOLD-SILVER MINING INDUSTRY, BY PROVINCES, 1945 and 1946

Conducted in -	1945	1946	Conducted in -	1945	1946
	\$	\$		\$	\$
Nova Scotia	1,769	...	Saskatchewan	2,875	8,257
New Brunswick	4,525	...	British Columbia	93,139	41,946
Quebec	35,687	319,395	Yukon .....	...	...
Ontario	145,736	55,134	Northwest Territories	1,399	40
Manitoba	87,905	465,078	TOTAL	373,035	889,850

Table 54 - DIVIDENDS PAID BY SPECIFIED COPPER-GOLD-SILVER MINING COMPANIES

Name of Firm	Dividends paid in 1946	Total dividends paid to December 31, 1946
	\$	\$
Noranda Mines Ltd.	8,959,088	116,132,188
Waite Amulet Mines Ltd.	2,310,000	12,705,000
Amulet Dufault Mines Ltd.	2,112,000	11,968,000
Sherritt Gordon Mines Ltd.	118,889	2,821,127
Hudson Bay Mining & Smelting Co. Ltd.	6,205,439	58,606,926
Britannia Mining & Smelting Co. Ltd. ....	...	11,511,448
Granby Cons. Mining, Smelting & Power Co. Ltd.	...	11,870,214
Normetal Mining Corporation Ltd.	375,701	375,701

Table 55 - ORES MINED, MILLED, AND CONCENTRATES PRODUCED BY THE COPPER-GOLD-SILVER MINING INDUSTRY, 1930-1946

Year	Ore mined	Ore milled	Copper concentrates produced (d)	Zinc concentrates produced	Iron pyrites concentrates produced	Net value of all estimated mine and mill shipments (c)
	tons	tons	tons	tons	tons	\$
1930	5,768,664	4,926,431	298,085	72,112	53,453	15,629,564(a)
1931	6,002,865	5,243,382	469,059	63,828	63,293	15,951,103(a)
1932	5,453,173	4,607,659	518,609	76,507	71,945	11,143,759(a)
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	8,325,879	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)

- (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 1943-1946.

Table 56 - CANADIAN SILVER PRODUCTION ACCORDING TO NATURE OF ORES, BY PROVINCES, 1946

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 .....	...	146	...	...	...	...	146
Quebec .....	...	102,346	800,195	...	1,013,912	...	1,916,453
Ontario .....	...	792,045	...	1,205,664	58,946	428,560	2,485,215
Manitoba .....	...	6,621	521,396	...	...	...	528,017
Saskatchewan ...	...	...	1,498,496	...	...	...	1,498,496
Alberta	12	...	...	...	...	...	12
British Columbia	2,372	58,402	99,414	...	5,918,231	...	6,078,419
Northwest Territories ..	...	6,112	...	...	...	...	6,112
Yukon	9,416	...	...	...	21,814	...	31,230
CANADA	11,800	965,672	2,919,501	1,205,664	7,012,903	428,560	12,544,100

Table 57 - CANADIAN COPPER PRODUCTION (RECOVERABLE) ACCORDING TO NATURE OF ORE AND BY PROVINCES, 1943-1946

Province and Year	From copper- gold-silver ores	From nickel- copper ores	From gold and other ores	TOTAL
(pounds)				
1943 - Quebec	130,301,726	...	862,050	131,163,776
Ontario	1,786,171	276,032,919	21,470	277,840,560
Manitoba	38,014,872	...	...	38,014,872
Saskatchewan	85,948,719	...	...	85,948,719
British Columbia	42,121,563	...	100,642	42,222,205
Northwest Territories	...	...	...	...
TOTAL CANADA	298,173,051	276,032,919	984,162	575,190,132
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
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

Table 58 - PRODUCTION OF REFINED COPPER(*) IN CANADA, 1931-1946

Year	Short tons	Year	Short tons
1931	92,183	1939	231,684
1932	90,077	1940	261,878
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

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

Table 59 - DRILLING COMPLETED ON COPPER-GOLD-SILVER DEPOSITS IN CANADA, 1945 and 1946

	Footage Drilled	
	1945	1946
Diamond drilling for exploration (testing only) -		
By mining companies with their own personnel and equipment..	76,089	71,786
By diamond drilling contractors	319,515	381,898
Other diamond drilling -		
Blast hole diamond drilling -		
By mining companies with their own personnel and equipment	517,940	700,436
By diamond drilling contractors	310,446	...
Drilling by percussion or other machines (*)	3,778,401	2,829,740

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

Table 60 - 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, 1947 -</u>					
Indicated above the 2,975 foot level:					
Sulphide ore over 4 per cent copper	4,960,000	7.14	...	0.159	(x)
Sulphide ore under 4 per cent copper	14,692,000	0.67	...	0.196	(x)
Silicious fluxing ore	838,000	0.11	...	0.108	(x)
Capacity of mill: 24 hours	3,000	...	...	...	...
<u>Waite Amulet Mines Ltd., December 31, 1945 -</u>					
Waite Mine - Copper ore	40,000	4.5	...	0.04	0.5
Zinc ore	5,000	...	9.5	...	...
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	1,865,739	6.0	4.01	0.045	1.5
Upper "A" orebody	132,000	2.0	6.5	0.07	1.6
Capacity of mill: 24 hours	1,800	...	...	...	...
<u>Normetal Mining Corp. Ltd., December 31, 1946</u>	1,716,000	3.68	7.28	0.033	2.66
Capacity of mill: 24 hours	750	...	...	...	...
<u>Sherritt Gordon Mines Ltd., December 31, 1946 -</u>					
East orebody - Zinc ore .....	...	...	...	...	...
Copper ore .....	...	...	...	...	...
West orebody	1,368,000	2.60	2.12	0.021	0.61
Capacity of mill: 24 hours	750	...	...	...	...
<u>Hudson Bay Mining & Smelting Co. Ltd., January 1, 1946</u>					
Capacity of mill: 24 hours	26,000,000	2.99	4.24	0.089	1.25
Capacity of mill: 24 hours	6,000	...	...	...	...
<u>Granby Cons. Mining, Smelting & Power Co. Ltd., 1946</u>	9,982,000	1.25	...	(x)	(x)
Capacity of mill: 24 hours	5,000	...	...	...	...
<u>Britannia Mining & Smelting Co. Ltd.</u>			(x)		
Capacity of mill: 24 hours	6,000	...	...	...	...

(*) Subject to revision.

(x) Not reported.

Table 61 - SELENIUM AND TELLURIUM COMMERCIALY RECOVERED FROM CANADIAN ORES, 1938-1946

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

Table 62 - CANADIAN ZINC PRODUCTION (RECOVERABLE) ACCORDING TO NATURE OF ORE AND BY PROVINCES, 1943-1946

Year and Province	Recovered from Copper-Gold-Silver Ores		Recovered from Silver-Lead-Zinc and Other Ores (pounds)		TOTAL
1943 - Quebec	80,401,837		47,767,973		128,169,810
Ontario .....	...		3,299,812		3,299,812
Manitoba	46,783,873		...		46,783,873
Saskatchewan	96,350,404		...		96,350,404
British Columbia	461,776		335,688,679		336,150,455
CANADA	223,997,890		386,756,464		610,754,354
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

Table 63 - REFINED NEW ZINC PRODUCED IN CANADA, 1935-1946

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

Table 64 - CADMIUM RECOVERED FROM CANADIAN ORES, 1938-1946

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

Table 65 - AVERAGE ANNUAL METAL PRICES, IN CANADIAN DOLLARS, 1929-1946

Year	Gold Troy oz.	Silver Troy oz.	Copper Pound (Dollars)	Lead Pound (*)	Zinc Pound (*)
1929	20.67	0.530	0.180 (x)	0.050	0.054
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

(x) Based on New York; 1932-1946 based on London.

(*) 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 \$2,594,100 in the amount of coin issued during 1946 as compared with the previous year. A detailed statement of the issues by denominations for the years 1945 and 1946 is set out on the following page.

Denomination -	Coin issued in	
	1 9 4 5	1 9 4 6
	\$	\$
Silver coin -		
1 dollar	38,300.00	91,000.00
50 cents	980,000.00	400,000.00
25 cents	1,324,000.00	556,000.00
10 cents	1,074,000.00	654,000.00
Total Silver	3,416,300.00	1,701,000.00
Nickel coin -		
5 cents		291,500.00
Steel coin -		
5 cents	950,300.00	
Bronze coin -		
1 cent	748,500.00	528,500.00
TOTAL	5,115,100.00	2,521,000.00
Representing	Number of pieces	
	111,890,300	68,335,000

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

	S i l v e r				Nickel	Bronze
	Dollar	50 cents	25 cents	10 cents		
	\$	\$	\$	\$	\$	\$
Calgary	2,000	10,000	28,000	40,000	40,000	38,300
Charlottetown .....	...	8,000	28,000	14,000	3,500	6,500
Halifax	4,000	50,000	76,000	54,000	28,000	26,000
Montreal	16,000	6,000	92,000	122,000	49,000	111,000
Ottawa	13,000	6,000	66,000	20,000	12,000	12,100
Regina	4,000	94,000	38,000	58,000	33,000	43,000
Saint John	2,000	2,000	34,000	28,000	11,000	25,500
Toronto	42,000	188,000	144,000	230,000	70,000	189,600
Vancouver	2,000	36,000	...	34,000	42,000	35,500
Winnipeg	6,000	...	50,000	54,000	3,000	41,000
	91,000	400,000	556,000	654,000	291,500	528,500

Worn and mutilated coin withdrawn from circulation -

	Withdrawn	Net Increase in Circulation
	\$	\$
Silver coin	84,040.45	1,616,959.55
Nickel coin--5 cents (mutilated only) ..	1,634.15	289,865.85
Tombac coin--5 cents	251,670.15	...
Steel coin--5 cents	320.75	...
Bronze coin	3,216.28	525,283.72

Gold Bullion

Three thousand, five hundred and seventy-six 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 3,271,246 ounces, containing, by assay 2,652,245 ounces fine gold and 372,595 ounces fine silver. The receipts show an increase as compared with the year 1945 of 171 in the number of deposits, gross weight 168,255 ounces, gold content 148,828 ounces fine and fine silver 14,856 ounces.

The net amount paid by cheque to depositors was \$94,662,727.75. In addition 14,521.432 ounces of fine gold with a statutory value of \$300,184.74 was also issued in payment of gold deposits.

Postage collected for the Postmaster General on deposits shipped by mail, postage collect, amounted to \$10,671.52.

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	2,088,834.000	1,699,440.377	237,409.80
Quebec	850,325.800	700,867.647	93,275.29
British Columbia	108,655.105	87,683.119	14,703.67
Manitoba	94,030.900	75,575.704	6,523.98
Yukon	56,440.940	45,282.908	9,416.94
Nova Scotia	4,670.200	4,320.912	144.32
Northwest Territories	30,068.400	21,119.923	5,793.21
Alberta and Saskatchewan	146.640	110.825	12.90
Total from Mines and Refineries..	3,233,171.985	2,634,401.415	367,280.11
From Jewellery and Scrap	41,310.430	19,221.236	5,675.18
GRAND TOTAL	3,274,482.415	2,653,622.651	372,955.29

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
6,304 Trade bars to Bank of Canada	2,522,853.880
Depositors	14,521.432
Sales to Manufacturers	119,044.048
Proof Plate	1.500
Medals	5.443
Sweep	9,538.460
	<u>2,665,964.763</u>

This total shows an increase of 166,801.089 ounces fine as compared with the year 1945.

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, 1946

Year	Gold Received		Gold Issued		
	Gross Weight	Value (Statutory)	Coin	Bullion	Statutory Value
	Ounces	Gold Only		Ounces Fine	Coin and Bullion
		\$	\$		\$
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
	<u>103,521,792.248</u>	<u>1,727,996,619.01</u>	<u>7,923,908.73</u>	<u>83,128,373.375</u>	<u>1,726,339,873.73</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, 1946

Name	Head or Executive Office Address	Location
Nova Scotia -		
Aulenback Mines	Box 127, Bridgewater	Lunenburg
Consolidated Mining & Smelting Co. of Canada Ltd.	215 St. James St. W., Montreal, Quebec	Caribou Mines
Queens Mines Ltd.	297 Agricola St., Halifax	Malaga
K-Y-Mines	Gorham St., Liverpool	Mill Village
Quebec -		
Abenakis Mines Ltd.	room 305, 350 Bay St., Toronto, Ontario	Beauchastel Tp.
Abitibi Ventures Ltd.	249 ouest, rue St. Jacques, Montreal	Val d'Or
Adele Malartic Mines Ltd.	226 Bay St., Toronto, Ontario	Malartic Tp.
Adanac Quebec Mines Ltd.	room 403, 100 Adelaide St. W., Toronto, Ontario	Rouyn Tp.
Adelemon Gold Mines Ltd.	suite 101, 184 Bay St., Toronto, Ontario	Louvicoourt
Aiguebelle Goldfields Ltd.	suite 1010, 100 Adelaide St. W., Toronto, Ontario	Aiguebelle Tp.
Alger Gold Mines Ltd.	room 403, 357 Bay St., Toronto, Ontario	Cadillac
Alta Mines Ltd.	132 ouest, rue St. Jacques, Montreal	Tiblemont
Amlartic Gold Mines Ltd.	room 1008, 330 Bay St., Toronto, Ontario	Vassan Tp.
Anglo-Rouyn Mines Ltd.	room 706, 100 Adelaide St. W., Toronto, Ontario	Rouyn Tp.
Annamaque Mines Ltd.	room 501, 67 Yonge St., Toronto, Ontario	Bourlamaque Tp.
Ansley Gold Mines Ltd.	suite 1008, 330 Bay St., Toronto, Ontario	Pershing Tp.
Arntfield Mining Corp. Ltd.	Arntfield	Beauchastel Tp.
Astoria Quebec Mines Ltd.	70 St. Paul St., Quebec	Rouyn Tp.
Aubelle Mines Ltd.	room 310, 100 Adelaide St. W., Toronto, Ontario	Guillet Tp.
Aurora Gold Mines Ltd.	67 Yonge St., Toronto, Ontario	Vauquelin Tp.
Avila Ligneris Gold Mines Ltd.	suite 407, 26 Queen St. E., Toronto, Ontario	Desbouvés Tp.
Aumaque Gold Mines Ltd.	room 310, 100 Adelaide St. W., Toronto, Ontario	Bourlamaque Tp.
Bacola Mining Explorations Ltd.	515 Jarvis St., Toronto, Ontario	Malartic
Bargold Mines Ltd.	119 Evans Ave., Toronto, Ontario	Barraute 1p.
Bar-Lan Gold Mines	215 St. James St. W., Montreal	Barraute Tp.
Beacon Mining Co. Ltd.	Bourlamaque	Louvicoourt Tp.
Barbados Gold Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Joannes Tp.
Beauchance Mines Ltd.	room 1311, 44 Victoria St., Toronto, Ontario	Beauchastel Tp.
Beau Rand Gold Mines Ltd.	320 Bay St., Toronto, Ontario	Beauchastel Tp.
Beauverny Gold Mines Ltd.	chambre 616, 159 ouest, rue Craig, Montreal	Duverny Tp.
Belec Courville Mines Ltd.	24 King St. W., Toronto, Ontario	Courville Tp.
Belfast Mines Ltd.	307 Central Building, Toronto, Ontario	Duprat Tp.
Bevcourt Gold Mines Ltd.	360 St. James St. W., Montreal	Louvicoourt Tp.
Big Game Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Barraute Tp.
Blondor Quebec Mines Ltd.	suite 1008, 330 Bay St., Toronto, Ontario	Blondeau Tp.
Bluegrass Raymond Mines Ltd.	room 503, 357 Bay St., Toronto, Ontario	Vauquelin Tp.
Bluenose Pershing Mines Ltd.	suite 1008, 330 Bay St., Toronto, Ontario	Haig Tp.
Bocabo Gold Mines Ltd.	room 209, 330 Bay St., Toronto, Ontario	Destor Tp.
Bonsecour Mines Ltd.	307 Central Bldg., Toronto, Ontario	Carpentier Tp.
Bonville Gold Mines Ltd.	suite 310, 100 Adelaide St. W., Toronto, Ontario	Villebon Tp.
Border Malartic Gold Mines Ltd.	suite 706, 100 Adelaide St. W., Toronto, Ontario	Cadillac Tp.
Bourlamaque Central Mines (1945) Ltd.	330 Bay St., Toronto, Ontario	Bourlamaque Tp.
Bouscadillac Gold Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Bousquet Tp.
Bouzan Gold Mines Ltd.	24 King St. W., Toronto, Ontario	Joannes Tp.
Boycon Pershing Gold Mines, Ltd.	room 209, 330 Bay St., Toronto, Ontario	Vauquelin Tp.
Bradnor Malartic Mines Ltd.	226 Bay St., Toronto, Ontario	Malartic Tp.
Brae-Breest Gold Mines Ltd.	204, 80 Richmond St. W., Toronto, Ontario	Carpentier Tp.
Brenmore Quebec Mines Ltd.	355 St. James St. W., Montreal	Guillet Tp.
Bruell Consolidated Mines Ltd.	suite 1010, 100 Adelaide St. W., Toronto, Ontario	Vauquelin Tp.
Budbois Gold Mines Ltd.	room 209, 330 Bay St., Toronto, Ontario	Destor Tp.
Buffadison Gold Mines Ltd.	603 Royal Bank Bldg., Toronto, Ontario	Louvicoourt Tp.
Cadilartic Mines Ltd.	11 King St. W., Toronto, Ontario	Cadillac Tp.
Calder Bousquet	100 Adelaide St. W., Toronto, Ontario	Bousquet Tp.
Canadian Malartic Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Malartic Tp.
Celta Development & Mining Co. Ltd.	465 St. John St., Montreal	Malartic Tp.
Centremaque Gold Mines Ltd.	room 605, 407 McGill St., Montreal	Bourlamaque Tp.

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1946

(Continued)

Name	Head or Executive Office Address	Location
<u>Quebec (Continued) -</u>		
Cheskirk Mines Ltd.	room 310, 100 Adelaide St. W., Toronto, Ontario	Rouyn Tp.
Chimo Gold Mines Ltd.	24 King St. W., Toronto, Ontario	Vauquelin Tp.
Christo Quebec Gold Mines	100 Adelaide St. W., Toronto, Ontario	Bousquet Tp.
Citralam Malartic Mines Ltd.	226 Bay St., Toronto, Ontario	Malartic Tp.
Clarnor Malartic Mines Ltd.	226 Bay St., Toronto, Ontario	Dubuisson Tp.
Colcourt Mines Ltd.	360 St. James St. W., Montreal	Bourlamaque
Columbiere Mines Ltd.	room 501, 67 Yonge St., Toronto, Ontario	Bourlamaque Tp.
Claverny Gold Mines Ltd.	294 Outremont Ave., Montreal	Duvernay Tp.
Consolidated Beattie Mines Ltd.	25 King St., Toronto, Ontario	Duparquet
Consolidated Central Cadillac Mines Ltd.	132 St. James St. W., Montreal	Cadillac Tp.
Conti-Mac Mines Ltd.	1112 Star Building, Toronto, Ontario	Dufresnoy Tp.
Conway Gold Mines	Belleterre	Guillet Tp.
Courtmont Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Louvicourt Tp.
Cournor Mining Co. Ltd.	320 St. James St. W., Montreal	Louvicourt Tp.
Courageous Gold Mines Ltd.	226 Bay St., Toronto, Ontario	Louvicourt Tp.
Croinor Pershing Mines Ltd.	Senneterre	Pershing Tp.
Cross Fault Gold Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Clericy Tp.
Croydon-Rouyn Mines Ltd.	room 501, 67 Yonge St., Toronto, Ontario	Rouyn Tp.
Cyprus Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Dufresnoy Tp.
D'Aragon Mines Ltd.	1323, 67 Yonge St., Toronto, Ontario	Bourlamaque Tp.
De Clercq Mining Ltd.	276 St. James St. W., Montreal	Beauce Co.
Destorada Mines Ltd.	26 Adelaide St. W., Toronto, Ontario	Destor Tp.
Diaterre Gold Mines Ltd.	67 Yonge St., Toronto, Ontario	Guillet Tp.
Dikor Mines Ltd.	Malartic	Louvicourt Tp.
Dome Exploration Co. (Quebec) Ltd.	Bourlamaque	Tavernier Tp.
Donalda Mines Ltd.	Box 660, Noranda	Rouyn Tp.
Donrand Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Rouyn Tp.
Don-X Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Dufresnoy Tp.
Double Strike Mines Ltd.	201 Park Building, Windsor, Ontario	Destor Tp.
Dubuisson Goldfields Ltd.	355 St. James St. W., Montreal	Dubuisson Tp.
Dukel Gold Mines Ltd.	710, 36 Toronto St., Toronto, Ontario	Duprat Tp.
Dufresnoy Mines Ltd.	2810, 25 King St. W., Toronto, Ontario	Dufresnoy Tp.
Duquesne Mining Co.	112 Yonge St., Toronto, Ontario	Destor Tp.
Du Reine Mines Ltd.	710, 36 Toronto St., Toronto, Ontario	La Reine Tp.
Duvay Gold Mines Ltd.	suite 501, 67 Yonge St., Toronto, Ontario	Duverney Tp.
East Amphi Gold Mines Ltd.	Malartic	Malartic
Eastmont Larder Lake Gold Mines Ltd.	330 Bay St., Toronto, Ontario	Louvicourt Tp.
East Malartic Mines Ltd.	355 St. James St. W., Montreal	Norrie
East Trecesson Gold Mines Ltd.	Edifice Aldred, Place d'Armes, Montreal	Trecesson
Elder Mines Ltd.	11 King St. W., Toronto, Ontario	Noranda
Eldona Gold Mines Ltd.	413 Temple Bldg., Toronto, Ontario	Rouyn Tp.
Elmac Malartic Mines Ltd.	403, 357 Bay St., Toronto, Ontario	Dubuisson Tp.
El Sol Gold Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Bourlamaque Tp.
Fontana Mines (1945) Ltd.	437 St. James St. W., Montreal	Duvernay Tp.
Formaque Gold Mines Ltd.	610 St. James St., Montreal	Bourlamaque Tp.
Francoeur Gold Mines Ltd.	941 Dominion Square Building, Montreal	Arntfield
Gamma Mines (Quebec) Ltd.	Bourlamaque	Bourlamaque Tp.
Gaymont Mines Ltd.	184 Bay St., Toronto, Ontario	Dufresnoy Tp.
Gilmont Mines Ltd.	90 Perreault St., Rouyn	Dasserat Tp.
Glencona Mining Co. Ltd.	112 Yonge St., Toronto, Ontario	Rouyn Tp.
Glenlivet Gold Mines Ltd.	184 Bay St., Toronto, Ontario	Bourlamaque Tp.
Golconda Mines Ltd.	276 St. James St. W., Montreal	Duparquet
Goldora Mines Ltd.	132 St. James St. W., Montreal	Bourlamaque Tp.
Goldvue Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Amos
Gwillim Lake Gold Mines	67 Yonge St., Toronto, Ontario	Gwillim Lake
Habitant Gold Mines Ltd.	36 Toronto St., Toronto, Ontario	Beauchastel Tp.
Hard Rock Gold Mines	Geraldton, Ontario	Aiguebelle Tp.
Harricana Gold Mines Inc.	room 209, 330 Bay St., Toronto, Ontario	Bourlamaque Tp.
Hayes Cadillac Mines Ltd.	336 Bay St., Toronto, Ontario	Louvicourt Tp.

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1946

(Continued)

Name	Head or Executive Office Address	Location
<u>Quebec (Continued) -</u>		
Heva Gold Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Joannes Tp.
Hasco Gold Mines Ltd.	357 Bay St., Toronto, Ontario	Joannes Tp.
Hugh Malartic Mines Ltd.	226 Bay St., Toronto, Ontario	Malartic Tp.
Insko Mines Ltd.	355 St. James St. W., Montreal	Dufresnoy Tp.
Inspiration Mining & Development Co. Ltd.	184 Bay St., Toronto, Ontario	Vauquelin Tp.
Jolin Bourlamaque Mines Ltd.	Amos	Bourlamaque Tp.
Kalbrook Mining Co. Ltd.	302 Bay St., Toronto, Ontario	Pascalis Tp.
Kenda Pershing Mines Ltd.	Senneterre	Pershing Tp.
Kiska Gold Mines Ltd.	26 Queen St. E., Toronto, Ontario	Duvernay Tp.
Klondike Destor Gold Mining Co. Ltd.	413 Temple Building, Toronto, Ontario	Destor Tp.
Lake Opawica Mines Ltd.	516 Canada Cement Building, Montreal	Dubuisson Tp.
Lamaque Mining Co. Ltd.	Bourlamaque	Bourlamaque
Louvicoourt Goldfield Corp.	1604 Edifice Aldred, Montreal	Louvicoourt Tp.
Macbart Mines Ltd.	1102 Central Building, Toronto, Ontario	Bourlamaque Tp.
Malartic Gold Fields Ltd.	355 St. James St. W., Montreal	Fourniere Tp.
Malartic Lakeshore Gold Mines Ltd.	132 St. James St. W., Montreal	Courville Tp.
Malartic River Mines Ltd.	67 Yonge St., Toronto, Ontario	Malartic Tp.
Mallich Quebec Gold Mines Ltd.	suite 1024, 85 Richmond St. W., Toronto, Ontario	Duvernay Tp.
Marbenor Malartic Mines Ltd.	710 Excelsior Life Building, Toronto, Ontario	Fourniere Tp.
Marlon Rouyn Ltd.	room 17, 24 King St. W., Toronto, Ontario	Rouyn Tp.
Matico Mines Ltd.	room 102, 112 Yonge St., Toronto, Ontario	Barraulte Tp.
Megiscane Mines Ltd.	620, 12 Richmond St. E., Toronto, Ontario	Tavernier Tp.
Metro Gold Mines Ltd.	19 Richmond St. W., Toronto, Ontario	Beauchastel Tp.
Mic Mac Mines Ltd.	c/o Royal Trust Company, Montreal	Pershing Tp.
Monpas Mines Ltd.	159 Craig St. W., Montreal	Duvernay Tp.
Montdono Gold Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Joannes Tp.
Mylamaque Mines Ltd.	200 Bay St., Toronto, Ontario	Louvicoourt Tp.
New Bidlamaque Gold Mines Ltd.	217 Bay St., Toronto, Ontario	Bourlamaque Tp.
New Louvre Mines Ltd.	1700 Royal Bank Bldg., Toronto, Ontario	Louvicoourt Tp.
Newport Gold Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Amos
Norbenite Malartic Mines Ltd.	330 Bay St., Toronto, Ontario	Vassan Tp.
Norcourt Gold Mines Ltd.	1700 Royal Bank Building, Montreal	Louvicoourt Tp.
Normar Gold Mines Ltd.	24 King St. W., Toronto, Ontario	Bousquet Tp.
Norocona Gold Mines Ltd.	603 Royal Bank Building, Toronto, Ontario	Rouyn Tp.
Norseman Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Bourlamaque
Norterre Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Guillet Tp.
O'Brien Gold Mines Ltd.	Kewagama	Cadillac Tp.
Orcour Gold Mines Ltd.	357 Bay St., Toronto, Ontario	Louvicoourt Tp.
Orenada Gold Mines Ltd.	330 Bay St., Toronto, Ontario	Bourlamaque Tp.
Pandora Limited	Cadillac	Cadillac Tp.
Paquin Gold Mines Ltd.	Belleterre	Guillet Tp.
Paramaque Mines Ltd.	36 Toronto St., Toronto, Ontario	Bourlamaque Tp.
Parterre Gold Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Blondeau Tp.
Pen-Rey Gold Mines Ltd.	330 Bay St., Toronto, Ontario	Rouyn Tp.
Pepmont Gold Mines Ltd.	26-28 Adelaide St. W., Toronto, Ontario	Rouyn Tp.
Perron Gold Mines Ltd.	Perron	Perron
Pershing Manitou Gold Mines Ltd.	132 rue St. Jacques ouest, Montreal	Courville
Pershon Gold Mines Ltd.	67 Yonge St., Toronto, Ontario	Pershing Tp.
Phelps Gold Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Duprat Tp.
Pinnacle Gold Mines Ltd.	suite 204, 80 Richmond St. W., Toronto, Ontario	Privat Tp.
Pitt Gold Mining Co. Ltd.	room 712, 80 King St. W., Toronto, Ontario	Duparquet Tp.
Plexore Rouyn Gold Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Rouyn Tp.
Powell Rouyn Gold Mines Ltd.	Noranda	Rouyn Tp.
Quesabe Mines Limited	512, 320 Bay St., Toronto, Ontario	Duprat Tp.
Quintal Quebec Gold Mines Ltd.	18 Toronto St., Toronto, Ontario	Villebon Tp.
Randona Quebec Gold Mines Ltd.	330 Bay St., Toronto, Ontario	Dufresnoy Tp.
Record-Rouyn Mines Ltd.	67 Yonge St., Toronto, Ontario	Beauchastel Tp.
Regcourt Gold Mines Ltd.	1700 Royal Bank Building, Montreal	Louvicoourt Tp.
Renfort Gold Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Dasserat Tp.
Resenor Gold Mines Ltd.	38 King St. W., Toronto, Ontario	Perron

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1946
(Continued)

Name	Head or Executive Office Address	Location
<u>Quebec (Concluded) -</u>		
Ribago Rouyn Mines Ltd.	36 Toronto St., Toronto, Ontario	Beauchastel Tp.
Rico Rouyn Mines Ltd.	710, 36 Toronto St., Toronto, Ontario	Beauchastel Tp.
Rocdor Mines Ltd.	199 Bay St., Toronto, Ontario	Dubuisson Tp.
Rochette Gold Mines Ltd.	540 rue Boucher, Montreal	Taschereau
Rockridge Gold Mines Ltd.	room 22, 9 Toronto St., Toronto, Ontario	Clermont Tp.
Rolac Mines Ltd.	room 528, 67 Yonge St., Toronto, Ontario	Vassan Tp.
Rouyn Merger Gold Mines Ltd.	603-4 Royal Bank Building, Toronto, Ontario	Rouyn Tp.
Roybar Chibougamau Mines Ltd.	67 Yonge St., Toronto, Ontario	Chibougamau
Ruscana Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Vauquelin Tp.
Seaforth Mines Ltd.	400 Notre Dame St. W., Montreal	Duvernay Tp.
Senator-Rouyn Ltd.	45A Main St., Hull	Rouyn Tp.
Senvil Mines Ltd.	215 St. James St. W., Montreal	Bourlamaque Tp.
Sepha Mines Ltd.	21 King St.E., Toronto, Ontario	Lake Dufault
Seventh Malartic Mines Ltd.	Perron	Dubuisson Tp.
Shawkey (1945) Mines Ltd.	80 King St. W., Toronto, Ontario	Dubuisson Tp.
Silveryn Gold Mines Ltd.	100 Adelaide St.W., Toronto, Ontario	Duvernay Tp.
Sigma Mines (Quebec) Ltd.	Bourlamaque	Bourlamaque
Siscoe Gold Mines Ltd.	1010 St. Catherine St. W., Montreal	Abitibi
Sladen-Malartic Mines Ltd.	56 Sparks St., Ottawa, Ontario	Malartic Tp.
Snowshoe Gold Mines Ltd.	603 Royal Bank Building, Toronto, Ontario	Val d'Or
Soma-Duvernay Gold Mines Ltd.	905 Aldred Building, Montreal	Amos
South Dufault Mines Ltd.	360 St. James St. W., Montreal	Rouyn Tp.
South Duquesne Mines Ltd.	112 Yonge St., Toronto, Ontario	Destor Tp.
Stadacona Mines (1944) Ltd.	Rouyn	Rouyn Tp.
Steeber Malartic Mines Ltd.	171 Yonge St., Toronto, Ontario	Malartic Tp.
Sullivan Consolidated Mines Ltd.	1604 Aldred Building, Montreal	Dubuisson Tp.
Thurbois Mines Ltd.	room 201, 29 Park St., Windsor, Ontario	Destor Tp.
Toburn Gold Mines Ltd.	1809 Royal Bank Building, Toronto, Ontario	Dasserat Tp.
Tromac Mines Ltd.	100 Adelaide St., Toronto, Ontario	Dufresnoy
Twin Fault Mines Ltd.	100 Adelaide St., Toronto, Ontario	Villebon Tp.
Union Mining Corp.	465 St. John St., Montreal	Bourlamaque
Val D'Bell Mines Ltd.	307 Central Building, Toronto, Ontario	Louvicourt Tp.
Val d'Or Mineral Holdings Ltd.	25 King St. W., Toronto, Ontario	Bourlamaque Tp.
Vauze Dufault Mines Ltd.	1112 Star Building, Toronto, Ontario	Dufresnoy Tp.
Vicour Mines Ltd.	80 King St. W., Toronto, Ontario	Louvicourt Tp.
Vinray Malartic Mines Ltd.	226 Bay St., Toronto, Ontario	Malartic Tp.
Wasa Lake Gold Mines Ltd.	603 Royal Bank Building, Toronto, Ontario	Arntfield
Wendell Gold Mines Ltd.	231 St. James St. W., Montreal	Landrienne Tp.
West Malartic Mines Ltd.	7000 Jeanne Mance St., Montreal	Cadillac Tp.
Westville Mines Ltd.	36 Toronto St., Toronto, Ontario	Villebon Tp.
Wettring Gold Mines Ltd.	Duparquet	Duparquet
Wildor Gold Mines Ltd.	357 Bay St., Toronto, Ontario	Bourlamaque Tp.
Wingait Gold Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Beauchastel Tp.
Wright Rouyn Gold Ltd.	357 Bay St., Toronto, Ontario	Rouyn Tp.
Zakor Gold Mines Ltd.	26 Nepean St., Ottawa, Ontario	Louvicourt Tp.

Ontario -Porcupine Area

Anson-Cartwright Mines Ltd.	room 209, 330 Bay St., Toronto	Matheson
Aquarius Porcupine Gold Mines Ltd.	room 706, 100 Adelaide St. W., Toronto	Macklem Tp.
Aunor Gold Mines Ltd.	1600 Royal Bank Building, Toronto	Timmins
Argyll Gold Mines Ltd.	room 1409, 330 Bay St., Toronto	Matheson
Bonetal Gold Mines Ltd.	room 1705, 372 Bay St., Toronto	Pamour
Broulan Porcupine Mines Ltd.	room 1705, 372 Bay St., Toronto	Pamour
Buffalo Ankerite Gold Mines Ltd.	P.O. Box 533, South Porcupine	Deloro Tp.
Chernault Gold Mines Ltd.	suite 312, 9 Richmond St. E., Toronto	McArthur Tp.
Clavos Porcupine Mines Ltd.	suite 1024, 85 Richmond St. W., Toronto	German Tp.
Clodan Gold Mines Ltd.	119 Williamson Rd., Toronto	Matheson
Coniaurum Mines Ltd.	25 King St. W., Toronto	Schumacher

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1946
(Continued)

Name	Head or Executive Office Address	Location
<u>Ontario (Continued) -</u>		
<u>Porcupine Area</u> (concluded)		
Cunigold Mines Ltd.	room 302, 57 Queen St. W., Toronto	Mann Tp.
Dale Gold Mines Ltd.	suite 504, 357 Bay St., Toronto	Harker Tp.
Delnite Mines Ltd.	P.C. Box 590, Timmins	Deloro Tp.
Denallen Gold Mines Ltd.	36 Toronto St., Toronto	Denton Tp.
Dome Mines Ltd.	36 Toronto St., Toronto	Tisdale Tp.
Edgewater Porcupine Gold Mines Ltd.	814 Metropolitan Building, Toronto	Night Hawk Lake
Golden Arrow Mines Ltd.	room 428, 67 Yonge St., Toronto	Ramore
Goldhawk Porcupine Mines Ltd.	suite 1107, 67 Yonge St., Toronto	Cody Tp.
Hallnor Mines Ltd.	Pamour	Whitney Tp.
Hollinger Consolidated Gold Mines Ltd.	Timmins	Timmins
Hoyle Mining Company Ltd.	P.O. Box 997, Haileybury	Pamour
Jasper Porcupine Mines Ltd.	43 Colborne St., Toronto	Deloro Tp.
Jowsey Denton Gold Mines Ltd.	room 1701, 372 Bay St., Toronto	Carscallen Tp.
McIntyre Porcupine Mines Ltd.	Schumacher	Schumacher
Pamour Porcupine Mines Ltd.	Pamour	Whitney Tp.
Paymaster Consolidated Mines Ltd.	Box 508, South Porcupine	South Porcupine
Preston-East Dome Mines Ltd.	South Porcupine	South Porcupine
Malga Porcupine Gold Mines Ltd.	room 808, 85 Richmond St. W., Toronto	South Porcupine
Naybob (1945) Gold Mines Ltd.	85 Richmond St. W., Toronto	Deloro Tp.
Porcupine Reef Gold Mines Ltd.	372 Bay St., Toronto	Pamour
Porcupine Southgate Mines Ltd.	100 Adelaide St. W., Toronto	Deloro Tp.
New Electra Porcupine Gold Mines Ltd.	room 706, 100 Adelaide St. W., Toronto	Macklem Tp.
Wilcarr Mines Ltd.	12th floor, Star Building, 80 King St. W., Toronto	Wilkie Tp.
<u>Kirkland Lake Area</u>		
Bidgood Kirkland Gold Mines Ltd.	room 504, 357 Bay St., Toronto	Lebel Tp.
Darmac Gold Mines Ltd.	room 303, 156 Yonge St., Toronto	Lebel Tp.
Glenora Gold Mines Ltd.	room 3100, 25 King St., Toronto	Lebel Tp.
Hudson-Rand Gold Mines Ltd.	Box 700, New Liskeard	Kirkland Lake
Kirkland Golden Gate Mines Ltd.	room 411, 371 Bay St., Toronto	Swastika
Kirkland Lake Gold Mining Co. Ltd.	Chaput Hughes	Teck Tp.
Lake Shore Mines Ltd.	Kirkland Lake	Kirkland Lake
Macassa Mines Ltd.	85 Richmond St. W., Toronto	Kirkland Lake
Northland Mines (1940) Ltd.	suite 32, 171 Yonge St., Toronto	Dobie
Queenston Gold Mines Ltd.	1101 Federal Building, Toronto	Gauthier Tp.
Sylvanite Gold Mines Ltd.	Box 670, Kirkland Lake	Kirkland Lake
The Teck-Hughes Gold Mines Ltd.	14 Finkle St., Woodstock	Kirkland Lake
Toburn Gold Mines Ltd.	1809 Royal Bank Building, Toronto	Kirkland Lake
Upper Canada Mines Ltd.	1101 Federal Building, Toronto	Dobie
Wright-Hargreaves Mines Ltd.	Fort Erie	Kirkland Lake
<u>Larder Lake Area</u>		
Amalgamated Larder Mines Ltd.	12th floor, 80 King St. W., Toronto	Larder Lake
Armistice Gold Mines Ltd.	room 706, 100 Adelaide St. W., Toronto	McGarry Tp.
Big Game Mines Ltd.	room 501, 67 Yonge St., Toronto	Guibord Tp.
Chesterville Mines Ltd.	330 Bay St., Toronto	McGarry Tp.
Harlight Gold Mines Ltd.	Doane Hall, Aurora	Harker Tp.
Highridge Mining Co. Ltd.	room 209, 330 Bay St., Toronto	McGarry Tp.
Kerr-Addison Gold Mines Ltd.	room 1108, 80 King St. W., Toronto	McGarry Tp.
Larder "U" Island Mines Ltd.	room 209, 330 Bay St., Toronto	McGarry Tp.
Omega Gold Mines	Larder Lake	McVittie Tp.
Martin-Bird Gold Mines Ltd.	32 Prospect Ave., Kirkland Lake	Hearst Tp.
Mary Ann Mines Ltd.	room 403, 100 Adelaide St. W., Toronto	Larder Lake
Olivet Gold Mines Ltd.	156 Yonge St., Toronto	Gauthier Tp.
Temple Gold Mines Ltd.	11 King St. W., Toronto	Playfair Tp.
Tovarich-Larder Gold Mines Ltd.	room 1701, 372 Bay St., Toronto	McIlroy Tp.
Wadesa Gold Mines Ltd.	62 Government Road West, Kirkland Lake	Gauthier Tp.

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1946

(Continued)

Name	Head or Executive Office Address	Location
<u>Ontario (Continued) -</u>		
<u>Matachewan Area</u>		
Central Matachewan Mining Co.	331 Bay St., Toronto	Baden Tp.
Young-Davidson Mines Ltd.	Timmins	Powell Tp.
Laclothian Mines Ltd.	suite 1001, 85 Richmond St. W., Toronto	Midlothian Tp.
Matachewan Consolidated Mines Ltd.	25 King St. W., Toronto	Powell Tp.
Jacaranda Gold Mines Ltd.	365 Bayview Ave., Leaside	Cairo Tp.
<u>Sudbury Area</u>		
Chellev Gold Mines Ltd.	504, 357 Bay St., Toronto	Esther Tp.
Kalbrook Mining Co. Ltd.	room 1405, 302 Bay St., Toronto	Penhorwood
Jerome Gold Mines Ltd.	room 602, 350 Bay St., Toronto	Osway Tp.
Merit Gold Mines Ltd.	room 403, 100 Adelaide St. W., Toronto	Howrey
Renabie Mines Ltd.	room 1001, 85 Richmond St. W., Toronto	Missanabie
Rush Lake Gold Mines Ltd.	room 504, 357 Bay St., Toronto	Marion Tp.
<u>Thunder Bay Area</u>		
Charles Long Lac Gold Mines Ltd.	suite 1104, 67 Yonge St., Toronto	Long Lac
Draco Mines Ltd.	suite 1001, 85 Richmond St., Toronto	Long Lac
Hard Rock Gold Mines Ltd.	Geraldton	Ashmore Tp.
Leitch Gold Mines Ltd.	Beardmore	Summers Tp.
Little Long Lac Gold Mines Ltd.	room 3100, 25 King St. W., Toronto	Ashmore Tp.
MacLeod-Cockshutt Gold Mines Ltd.	357 Bay St., Toronto	Geraldton
Magnet Consolidated Mines Ltd.	515 Jarvis St., Toronto	Geraldton
Maylac Gold Mines	room 504, 357 Bay St., Toronto	Geraldton
Quillette Mines Ltd.	room 1109, 330 Bay St., Toronto	Savant Lake
Talmora Long Lac Gold Mines Ltd.	room 205, 217 Bay St., Toronto	Little Long Lac
Theresa Gold Mines Ltd.	Long Lac	Long Lac
Thunderhead Gold Mines Ltd.	80 Richmond St. W., Toronto	Port Arthur
Undersill Gold Mining Co. Ltd.	room 1721, 25 King St. W., Toronto	Beardmore
<u>Kenora Area</u>		
Andowan Mines Ltd.	Kashabowie	Shebandowan Lake
Jack Lake Mines Ltd.	190A Adelaide St., Toronto	McCaul Tp.
Kenwest Mines Ltd.	room 27, 10 Adelaide St. E., Toronto	Goldrock
Van Houten Gold Mines Ltd.	171 Yonge St., Toronto	Dymont
Lunward Gold Mines	217 Bay St., Toronto	Echo Tp.
<u>Patricia District</u>		
Advance Red Lake Gold Mines Ltd.	room 701, 347 Bay St., Toronto	Red Lake
Aiken Red Lake Gold Mines Ltd.	room 303, 53 Yonge St., Toronto	Red Lake
Alexander Red Lake Mines Ltd.	515 Jarvis St., Toronto	Mackenzie Island
Batori Mines Ltd.	suite 311, 21 King St. E., Toronto	Connaught Tp.
Blanchard Gold Mines Ltd.	room 318, 371 Bay St., Toronto	Todd Tp.
Bayview Red Lake Gold Mines Ltd.	80 Richmond St. W., Toronto	Todd Tp.
Berens River Mines Ltd.	Favourable Lake	Favourable Lake
Bright Red Lake Mines Ltd.	room 311, 21 King St. E., Toronto	Fairlie Tp.
Buffalo Red Lake Mines Ltd.	room 1701, 372 Bay St., Toronto	Red Lake
Campbell Red Lake Mines Ltd.	room 620, Confederation Building, Toronto	Red Lake
Carricoma Gold Mines Ltd.	room 305, 350 Bay St., Toronto	Heyson Tp.
Central Patricia Gold Mines Ltd.	Central Patricia	Central Patricia
Cochonour Willans Gold Mines Ltd.	801 Dominion Bank Building, Toronto	Mackenzie Island
Craibbe-Fletcher Gold Mines Ltd.	suite 1, 26-28 Adelaide St. W., Toronto	Dome Tp.
Crowshore Patricia Gold Mines Ltd.	171 Yonge St., Toronto	Crow River
Detta Red Lake Mines Ltd.	200 Bay St., Toronto	Balmer Tp.
Dorion Red Lake Mines Ltd.	200 Bay St., Toronto	Balmer Tp.
Duluth Red Lake Gold Mines Ltd.	200 Bay St., Toronto	Balmer Tp.
Dexter Red Lake Gold Mines Ltd.	room 620, 12 Richmond St. E., Toronto	Red Lake
Dickinson Red Lake Mines Ltd.	200 Bay St., Toronto	Balmer Tp.

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1946
(Continued)

Name	Head or Executive Office Address	Location
<u>Ontario (Concluded) -</u>		
<u>Patricia District</u> (Concluded)		
Fronde Lake Mining Co. Ltd.	85 Richmond St. W., Toronto	Fort Hope
Halden Red Lake Gold Mines Ltd.	36 Toronto St., Toronto	Heyson Tp.
Hasaga Gold Mines Ltd.	Red Lake	Heyson Tp.
Jason Mines Ltd.	510 Stock Exchange Building, Vancouver, British Columbia	Casummit Lake
Lassie Red Lake Gold Mines Ltd.	12 Richmond St. E., Toronto	Red Lake
Lingnora Gold Mines Ltd.	19 Richmond St. W., Toronto	Lingman Lake
Lingman Lake Gold Mines Ltd.	707 McArthur Building, Winnipeg, Manitoba	Lingman Lake
Madsen Red Lake Gold Mines Ltd.	67 Yonge St., Toronto	Heyson Tp.
McKenzie Red Lake Gold Mines Ltd.	19 Richmond St. W., Toronto	Dome Tp.
Pickle Crow Gold Mines Ltd.	Pickle Crow	Pickle Crow
Martin-McNeely Mines Ltd.	24 Fraser St., North Bay	Dome Tp.
McFinley Red Lake Gold Mines Ltd.	100 Adelaide St., Toronto	Bateman Tp.
McMarmac Red Lake Gold Mines Ltd.	room 402, 19 Richmond St. W., Toronto	Dome Tp.
Mink Gold Mines Ltd.	room 504, 357 Bay St., Toronto	Mink Lake
Orlac Red Lake Mines	357 Bay St., Toronto	Red Lake
Red Area Gold Mines Ltd.	80 Richmond St. W., Toronto	Fairlie Tp.
Redaurum Red Lake Gold Mines Ltd.	100 Adelaide St. W., Toronto	Baird Tp.
Redwood Gold Mines Ltd.	suite 1024, 85 Richmond St. W., Toronto	Heyson Tp.
Richmac Gold Mines Ltd.	room 1502, 372 Bay St., Toronto	Dome Tp.
Russet Red Lake Gold Mines Ltd.	room 318, 371 Bay St., Toronto	Baird Tp.
San Pedro Mining Corp. Ltd.	630 Confederation Life Building, Toronto	Heyson Tp.
Slate Bay Gold Mines Ltd.	room 318, 371 Bay St., Toronto	McDonagh Tp.
Spruce Lake Gold Mines Ltd.	suite 1007, 67 Yonge St., Toronto	Heyson Tp.
Starratt Olsen Gold Mines Ltd.	Red Lake	Baird Tp.
Virginia Red Lake Mines Ltd.	suite 1, 26-28 Adelaide St. W., Toronto	Balmer Tp.
<u>Manitoba -</u>		
Callinan Flin Flon Mines Ltd.	room 612, 371 Bay St., Toronto, Ontario	Flin Flon
Century Mining Corp. Ltd.	57 St. James St. W., Montreal, Quebec	Elbow Lake
Creole Snow Lake Mines Ltd.	34 Adelaide St. W., Toronto, Ontario	Herb Lake
Frebert Snow Lake Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Herb Lake
Gold Pan Mines (1945) Ltd.	818 Somerset Building, Winnipeg	Bissett
Howe Sound Exploration Co. Ltd.	Britannia Beach, British Columbia	Snow Lake
Ken-Bay Gold Mines Ltd.	320 Bay St., Toronto, Ontario	Little Stull Lake
Kiwago Gold Mines Ltd.	Electric Railway Chambers, Winnipeg	Rice Lake
New Manitoba Gold Mines Ltd.	710, 80 King St. W., Toronto, Ontario	Rice Lake
Northern Canada Mines Ltd.	44 Victoria St., Toronto, Ontario	Snow Lake
San Antonio Gold Mines Ltd.	237 Curry Building, Winnipeg	Bissett
Sangold Mines Ltd.	67 Yonge St., Toronto, Ontario	Rice Lake
Tartan Lake Gold Mines Ltd.	330 Bay St., Toronto, Ontario	Athapapukow
Wekusko Consolidated Ltd.	395 Main St., Winnipeg	Herb Lake
<u>Saskatchewan -</u>		
Nesnah Mining & Exploration Co. Ltd.	320 Bay St., Toronto, Ontario	Beaver Lake
Newcor Mining & Refining Ltd.	67 Yonge St., Toronto, Ontario	Douglas Lake
<u>Northwest Territories -</u>		
Akaiitcho Yellowknife Gold Mines Ltd.	2810, 25 King St. W., Toronto, Ontario	Yellowknife
Alcan Yellowknife Gold Mines Ltd.	67 Yonge St., Toronto, Ontario	Yellowknife
American Yellowknife Gold Mines Ltd.	171 Yonge St., Toronto, Ontario	Yellowknife
Amy Yellowknife Mines Ltd.	515 Jarvis St., Toronto, Ontario	Yellowknife
Athona Mines (1937) Ltd.	171 Yonge St., Toronto, Ontario	Yellowknife
Atlas Yellowknife Mines Ltd.	330 Bay St., Toronto, Ontario	Yellowknife
Bear Exploration and Radium Ltd.	7 Adelaide St. E., Toronto, Ontario	Yellowknife
Bryhern Exploration Development & Mining Ltd.	100 Adelaide St. W., Toronto, Ontario	Yellowknife
Cassidy Yellowknife Mines Ltd.	36 Toronto St., Toronto, Ontario	Yellowknife

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1946
(Continued)

Name	Head or Executive Office Address	Location
<u>Northwest Territories (Concluded) -</u>		
The Consolidated Mining & Smelting Co. of Canada Ltd.	Trail, British Columbia	Yellowknife
Conwest Exploration Co. Ltd.	Spencerville, Ontario	Yellowknife
Discovery Yellowknife Mines Ltd.	171 Yonge St., Toronto, Ontario	Yellowknife
Drake Yellowknife Gold Mines Ltd.	67 Yonge St., Toronto, Ontario	Yellowknife
Echo-Indin Mines Ltd.	515 Jarvis St., Toronto, Ontario	Yellowknife
Frederick Mining & Development Ltd.	100 Adelaide St. W., Toronto, Ontario	Yellowknife
Frobisher Ltd.	25 King St. W., Toronto 1, Ontario	Yellowknife
Giant Yellowknife Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Yellowknife
Goldcrest Mines Ltd.	171 Yonge St., Toronto, Ontario	Indin Lake
Greenlee Mines Ltd.	171 Yonge St., Toronto, Ontario	Yellowknife
Homer Yellowknife Mines Ltd.	330 Bay St., Toronto, Ontario	Yellowknife
Huhill Yellowknife Mines Ltd.	21 King St. E., Toronto, Ontario	Yellowknife
Ingray Yellowknife Mines Ltd.	55 York St., Toronto, Ontario	Yellowknife
Jackknife Gold Mines Ltd.	330 Bay St., Toronto, Ontario	Yellowknife
Jeph Yellowknife Gold Mines Ltd.	67 Yonge St., Toronto, Ontario	Yellowknife
Larder "U" Island Mines Ltd.	330 Bay St., Toronto, Ontario	Yellowknife
Leta Explorations Ltd.	67 Yonge St., Toronto, Ontario	Yellowknife
Lexindin Gold Mines Ltd.	67 Yonge St., Toronto, Ontario	Indin Lake
Lodestar Yellowknife Gold Mines Ltd.	9 Toronto St., Toronto, Ontario	Yellowknife
Lynx Yellowknife Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Yellowknife
Massive Yellowknife Mines Ltd.	36 Toronto St., Toronto, Ontario	Yellowknife
Negus Mines Ltd.	410 Royal Bank Building, Toronto, Ontario	Yellowknife
Nib Yellowknife Mines Ltd.	36 Toronto St., Toronto, Ontario	Yellowknife
N.W.T. Gold Ltd.	208 Bank of Nova Scotia Building, Edmonton, Alberta	Yellowknife
Partridge Yellowknife Mines Ltd.	38 King St. W., Toronto, Ontario	Yellowknife
Prow Yellowknife Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Yellowknife
Quebec Yellowknife Gold Mines Ltd.	132 St. James St. W., Montreal, Quebec	Yellowknife
Quest Yellowknife Mines Ltd. (N.P.L.)	85 Richmond St. W., Toronto, Ontario	Yellowknife
Sovereign Yellowknife Mines Ltd.	302 Bay St., Toronto, Ontario	Johnston Lake
Sunset Yellowknife Mines Ltd.	67 Yonge St., Toronto, Ontario	Yellowknife
Trans-American Mining Corp. Ltd.	55 York St., Toronto, Ontario	Yellowknife
Vesta Yellowknife Mines Ltd.	67 Yonge St., Toronto, Ontario	Yellowknife
Yellorex Mines Ltd.	330 Bay St., Toronto, Ontario	Yellowknife
<u>British Columbia -</u>		
Arlington Mine Leases	Salmo	Erie
Bayonne Consolidated Mines Ltd.	475 Howe St., Vancouver	Nelson
Bralorne Mines Ltd.	555 Burrard St., Vancouver	Bralorne
Bridge River Consolidated Mines Ltd.	475 Howe St., Vancouver	Goldbridge
B.R.X. (1935) Consolidated Mines Ltd. (N.P.L.)	475 Howe St., Vancouver	Shalath
Bristol Mines (1946) Ltd.	572 Howe St., Vancouver	Minto Mines
Canusa Cariboo Gold Mines Ltd. (N.P.L.)	789 W. Pender St., Vancouver	Barkerville
Canyon Cariboo Gold Mines Ltd. (N.P.L.)	789 W. Pender St., Vancouver	Cariboo
Cariboo Mine	Rock Creek	Greenwood
Cariboo Gold Quartz Mining Co. Ltd.	1007 Royal Bank Building, 675 W. Hastings St., Vancouver	Wells
Conwest Exploration Co. Ltd.	401 Rogers Building, Vancouver	Slocan
Dentonia Mines Ltd.	572 Howe St., Vancouver	Greenwood
Fairview Mining Co. Ltd.	626 Pender St., Vancouver	Fairview
Fern Mine Ltd.	Royal Bank Building, Nelson	Nelson
Gem Gold Mines Ltd.	1604 Royal Building, Vancouver	Nanaimo
Gold Belt Mining Co. Ltd.	Sheep Creek	Sheep Creek
Gold Drop Mines Ltd.	Stewart	Marmot River
Gruhl-Wihksne Gold Mines Ltd.	475 Howe St., Vancouver	Goldbridge
Hedley Amalgamated Gold Mines Ltd. (N.P.L.)	535 Homer St., Vancouver	Hedley

Active Operators in the Canadian Auriferous Quartz Mining Industry, 1946

(Concluded)

Name	Head or Executive Office Address	Location
<u>British Columbia (Concluded) -</u>		
Hedley Gordon Mines	1935 Haro St., Vancouver	Hedley
Hedley Mascot Gold Mines Ltd. (N.P.L.)	908 Royal Bank Building, Vancouver	Hedley
Hedley Monarch Gold Mines Ltd.	1155 W. Pender St., Vancouver	Osoyoos
Hedley Yuniman Gold Mines Ltd.	417 Metropolitan Building, Vancouver	Osoyoos
Hillstake Mining Co. Ltd.	475 Howe St., Vancouver	Bridge River
Island Mountain Mines Co. Ltd.	Wells	Wells
Kelowna Exploration Co. Ltd.	Hedley	Osoyoos
Kenville Gold Mines Ltd.	184 Bay St., Toronto, Ontario	Nelson
Midnight Mine	Box 332, Rossland	Trail Creek
Morris Summit Gold Mines Ltd.	510 Stock Exchange Building, Vancouver	Stewart
Pacific (Eastern) Gold Mines Ltd.	184 Bay St., Toronto, Ontario	Pioneer
Pellaire Mines Ltd.	184 Bay St., Toronto, Ontario	Williams Lake
Pinebrayle Gold Mines Ltd.	844 W. Hastings St., Vancouver	Bralorne
Pioneer Gold Mines of B.C. Ltd.	711 Yorkshire Building, 525 Seymour St., Vancouver	Lillooet
Polaris Taku Mining Co. Ltd.	1600 Royal Bank Building, Vancouver	Tulsequah
Privateer Mine Ltd.	475 Howe St., Vancouver	Zeballos
Red Hawk Gold Mines Ltd.	808 W. Pender St., Vancouver	Bridge River
Reno Gold Mines Ltd.	208 Yorkshire Building, Vancouver	Zeballos
Rusdon Gold Mines Ltd.	475 Howe St., Vancouver	Clinton
Sheep Creek Gold Mines Ltd.	616 Stock Exchange Building, Vancouver	Sheep Creek
Silbak Premier Mines Ltd.	626 Pender St. W., Vancouver	Premier
Sonny Boy Gold Mining Syndicate	675 Davie St., Vancouver	Merritt
Spud Valley Gold Mines Ltd.	703 Royal Trust Building, Vancouver	Zeballos
Sterna, B.	Nelson	Ymir
Stewart Canal Gold Mines Ltd.	789 W. Pender St., Vancouver	Stewart

PRINCIPAL CANADIAN ALLUVIAL GOLD OPERATORS, 1946

Name	Head or Executive Office Address	Location
<u>British Columbia -</u>		
Aslin, Alfred	Burns Lake	Manson Creek
Anderson, Marius A.	Wells	Eight Mile Lake
Bride, Maurice	Atlin	Spruce Creek
Brister, J. V.	Atlin	Spruce Creek
Cariboo Keithley Gold Placers Ltd.	812 Standard Building, Vancouver	Williams Lake
Columbia Development Ltd.	410 King St. W., Kitchener, Ontario	Atlin
Edwardson, Mark	Atlin	Atlin
Fry, Thomas	Quesnel	Cariboo
Gaensbauer, G.	Atlin	McKee Creek
Goldsmith, McGregor & Dernham	Keithley Creek	Keithley Creek
Gunn, J. J.	Wells	Wells
Harvey Creek Mines Ltd.	555 Burrard St., Vancouver	Keithley Creek
Hasbrouch, W.	Keithley Creek	Keithley Creek
Holm, O.	Barkerville	Barkerville
Hougen, Dr. O. R.	601 Birks Building, Vancouver	Cariboo
Ivanic, Steve & Co.	Atlin	Spruce Creek
Johnson, K.	Atlin	Wright Creek
Johnson, P., and K. Kuhn	Harris Creek	Harris Creek
Johnson & Hill	Atlin	Atlin
Ketch Placers	Wells	Wells
Loper & Sons	Germansen Landing	Germansen Land- ing
Lowhee Mining Co. Ltd.	605 Tacoma Building, Tacoma 2, Washington, U.S.A.	Barkerville
McKinnon, Chas.	Atlin	Atlin

Principal Canadian Alluvial Gold Operators, 1946
(Concluded)

Name	Head or Executive Office Address	Location
<u>British Columbia (Concluded) -</u>		
Moose Flat Placers Ltd.	Prince George	Prince George
Noland, John	Atlin	Atlin
Northern Resources Ltd.	475 Howe St., Vancouver	Atlin
Piccolo, Louis	Atlin	McKee Creek
Rask, Eric	Wells	Cariboo
Reid, James A.	Salmon Arm	Revelstoke
Risberg, Carl	Barkerville	Cariboo
Savery, W. H.	Wells	Cariboo
Swanson & Watt	Atlin	McKee Creek
Swift River Dredging Co. Ltd.	Quesnel	Cariboo
Taylor, Roy	Wells	Barkerville
Watson, James	Massett	Graham Island
Wheaton Creek Co-operative Mine	1426 11th Ave. W., Seattle 9, Washington, U.S.A.	Boulder Creek
Wickstrom, Sunde & Nelson	Atlin	Atlin
Youngash, R. W., & Associates	2290 Burrard St., Vancouver	Snowshoe Creek
<u>Yukon -</u>		
Burwash Mining Co. Ltd.	Whitehorse	Burwash Creek
Clear Creek Placers Ltd.	4556 University Way, Seattle, Washington, U.S.A.	Clear Creek
The Yukon Consolidated Gold Corp. Ltd.	1919 Marine Building, Vancouver, British Columbia	Various

OPERATORS IN CANADIAN COPPER-GOLD-SILVER MINING INDUSTRY, 1946

Name	Head or Executive Office Address	Location
<u>Quebec -</u>		
Allore Rouyn Metals Corp. Ltd.	80 Richmond St. W., Toronto, Ontario	Destor Tp.
Continental Copper Mines Ltd.	67 Yonge St., Toronto, Ontario	Dufresnoy Tp.
Copper-Hill Mining Co. Ltd.	100 Adelaide St. W., Toronto, Ontario	Dufresnoy Tp.
Despina Gold Mines Ltd.	79 Wall St., New York, N.Y., U.S.A.	Rouyn Tp.
East Sullivan Mines Ltd.	1604 Aldred Building, Montreal	Bourlamaque
Gan Copper Mines Ltd.	293 Bay St., Toronto, Ontario	Beauchastel Tp.
Horne Fault Mines Ltd.	Duparquet	Beauchastel Tp.
Joliet-Quebec Mines Ltd.	2810, 25 King St. W., Toronto, Ontario	Rouyn Tp.
Lake Dufault Mines Ltd.	Duparquet	Dufresnoy Tp.
Lake Macamic Mines Ltd.	2 Hughson St., Hamilton, Ontario	La Sarre
MacDonald Mines Ltd.	1085 Beaver Hall Hill, Montreal	Dufresnoy Tp.
Noranda Mines Ltd.	1600 Royal Bank Building, Toronto, Ontario	Noranda
Normetal Mining Corp. Ltd.	suite 602, 350 Bay St., Toronto, Ontario	Dezmeloizes Tp.
Obalski (1945) Ltd.	411 Canada Cement Building, Montreal	Chibougamau Tp.
Osisko Lake Mines Ltd.	2810, 25 King St. W., Toronto, Ontario	Rouyn Tp.
Quebec Manitou Mines Ltd.	78 Sparks St., Ottawa, Ontario	Abitibi
Quemont Mining Corp. Ltd.	suite 602, 350 Bay St., Toronto, Ontario	Rouyn Tp.
Stannac Ltd.	2810, 25 King St. W., Toronto, Ontario	Languedoc Tp.
Waite-Amulet Mines Ltd.	1600 Royal Bank Building, Toronto, Ontario	Duprat Tp.
Zoneore Rouyn Mines Ltd.	414 Bay St., Toronto, Ontario	Montbeillard Tp.
<u>Manitoba -</u>		
Callinan Flin Flon	371 Bay St., Toronto, Ontario	Flin Flon
Cuprus Mines Ltd.	500 Royal Bank Building, Winnipeg	S.E. Flin Flon
Hudson Bay Mining & Smelting Co. Ltd.	500 Royal Bank Building, Winnipeg	Flin Flon
Sherritt-Gordon Mines Ltd.	25 King St. W., Toronto, Ontario	Sherridon
<u>Saskatchewan -</u>		
Hudson Bay Mining & Smelting Co. Ltd.	500 Royal Bank Building, Winnipeg, Manitoba	Flin Flon
<u>British Columbia -</u>		
Britannia Mining & Smelting Co. Ltd.	Britannia Beach	Britannia Beach
Granby Consolidated Mining, Smelting & Power Co. Ltd.	675 W. Hastings St., Vancouver	Similkameen
Twin "J" Mines Ltd.	Box 1058, Duncan	Victoria
Vananda Mining Co. Ltd.	711 Yorkshire Building, Vancouver	Nanaimo

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