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**CANADA**

**DEPARTMENT OF TRADE AND COMMERCE**

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**MINING, METALLURGICAL & CHEMICAL STATISTICS**

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**SUMMARY REVIEW**  
**OF**  
**THE GOLD MINING INDUSTRY**  
**IN**  
**CANADA**  
**1945**



**OTTAWA**  
**1947**

Price 50 Cents



Dominion Statistician:  
 Director - Division of Census of Industry and Merchandising:  
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### THE GOLD MINING INDUSTRY IN CANADA, 1945

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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During 1945 the Canadian production of fine gold was 2,696,727 troy ounces valued at \$103,823,990, showing a decrease from the gold production of 2,922,911 troy ounces valued at \$112,532,073 in 1944. In all years since 1931 the quantity of gold recovered has been higher than the production for 1945. The cessation of hostilities has released many potential employees from the armed services, but the return of former miners to their pre-war occupations has not been very rapid. Mining machinery and materials for the development of new gold mines or the expansion of older ones has remained in restricted supply.

As in the previous year the ratio of gold production remained nearly the same for the leading provinces. Contributions from Ontario, Quebec and British Columbia were respectively 60.3%, 24.5% and 6.9%. Saskatchewan, Manitoba, Yukon, Northwest Territories, Nova Scotia and Alberta added to the balance of the year's output.

Gold yield according to the type of deposit or nature of recovery included: in crude gold bullion produced at "gold mines", 76.77%; in blister and anode copper, 15.3%; in ores, mattes, slags, etc., exported, 6.29%; in alluvial gold, 1.15%; in base bullion at lead smelters, 0.09%.

From 1858 to 1945 inclusive, the Canadian production of gold was 94,944,481 troy ounces valued at \$2,788,211,971 in Canadian funds.

Exploration and development work on new mines was largely confined to diamond drilling. The footage drilled, on auriferous quartz deposits, was 4,602,466 or more than double the footage of the preceding year. This increase in diamond drilling absorbed a number of employees who might have been otherwise employed in producing mines

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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, 1944 and 1945  
(Gold at \$20.671834 per fine ounce)

	1944		1945	
	Fine troy ounces	\$	Fine troy ounces	\$
<b>Nova Scotia -</b>				
In gold bullion .....	5,840	120,724	3,291	68,031
Estimated exchange equalization on gold produced .....	...	104,116	...	58,673
Total Value - Canadian Funds .....	...	224,840	...	126,704
<b>Quebec -</b>				
In gold bullion .....	485,892	10,044,279	419,673	8,675,411
In anode copper (b) .....	245,886	5,082,915	225,443	4,660,320
In ores, etc., exported .....	15,006	310,201	16,492	340,920
Total .....	746,784	15,437,395	661,608	13,676,651
Estimated exchange equalization on gold produced .....	...	13,313,789	...	11,795,257
Total Value - Canadian Funds .....	...	28,751,184	...	25,471,908
<b>Ontario -</b>				
(c) Porcupine Area - In gold bullion .....	873,062	18,047,793	830,909	17,176,413
(c) Kirkland Lake - In gold bullion (a) .....	498,260	10,299,948	479,346	9,908,961
(c) Other gold mines - In gold bullion .....	305,208	6,309,209	223,744	4,625,199
In converter copper from nickel-copper ores ....	50,516	1,044,259	44,544	920,806
In ores, matte, etc., exported .....	4,790	99,018	46,825	967,958
Total .....	1,731,836	35,800,227	1,625,368	33,599,337
Estimated exchange equalization on gold produced .....	...	30,875,459	...	28,977,331
Total Value - Canadian Funds .....	...	66,675,686	...	62,576,668
<b>Manitoba -</b>				
In gold bullion .....	40,669	840,703	38,326	792,268
In blister copper .....	31,408	649,261	32,329	668,300
In ores, etc., exported .....	2,091	43,225	...	...
Total .....	74,168	1,533,189	70,655	1,460,568
Estimated exchange equalization on gold produced .....	...	1,322,279	...	1,259,650
Total Value - Canadian Funds .....	...	2,855,468	...	2,720,218
<b>Saskatchewan -</b>				
In alluvial gold .....	5	103	...	...
In gold bullion .....	...	...	...	...
In blister copper .....	122,777	2,538,026	108,568	2,244,300
Total .....	122,782	2,538,129	108,568	2,244,300
Estimated exchange equalization on gold produced .....	...	2,188,978	...	1,935,568
Total Value - Canadian Funds .....	...	4,727,107	...	4,179,868
<b>Alberta -</b>				
In alluvial gold .....	51	1,054	7	145
Estimated exchange equalization on gold produced .....	...	909	...	124
Total Value - Canadian Funds .....	...	1,963	...	269
<b>British Columbia -</b>				
In alluvial gold .....	9,402	194,357	10,071	208,186
In gold bullion .....	98,117	2,028,258	88,261	1,824,517
In base bullion .....	3,399	70,264	2,323	48,021
In ores, etc., exported .....	85,939	1,776,516	86,199	1,781,891
Total .....	196,857	4,069,395	186,854	3,862,615
Estimated exchange equalization on gold produced .....	...	3,509,599	...	3,331,264
Total Value - Canadian Funds .....	...	7,578,994	...	7,193,879



Table 1 - Production of New Gold in Canada, by Provinces and Sources, 1944 and 1945 (Concluded)

	1 9 4 4		1 9 4 5	
	Fine troy ounces	\$	Fine troy ounces	\$
<u>Yukon -</u>				
In alluvial gold .....	23,816	492,321	31,721	655,731
In ores exported .....	2	41	...	...
Total .....	23,818	492,362	31,721	655,731
Estimated exchange equalization on gold produced .....	...	424,631	...	565,527
Total Value - Canadian Funds .....	...	916,993	...	1,221,258
<u>Northwest Territories -</u>				
In ores, etc., shipped .....	...	...	...	...
In gold bullion produced .....	20,775	429,457	8,655	178,915
Total .....	20,775	429,457	8,655	178,915
Estimated exchange equalization on gold produced .....	...	370,381	...	154,303
Total Value - Canadian Funds .....	...	799,838	...	333,218
TOTAL FOR CANADA .....	2,922,911	60,421,932	2,696,727	55,746,293
Total Estimated Exchange Equalization on Gold Produced .....	...	52,110,141	...	48,077,697
GRAND TOTAL VALUE, INCLUDING EXCHANGE .....	...	112,532,073	...	103,823,990

Note: The estimated average price of a troy ounce of fine gold in Canadian funds was \$38.50 in both 1945 and 1944.

- (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(x) of Gold From Auriferous Quartz and Base Metal Mines, by Months, 1945 and 1946

Month	Gold production from base metal mines		Gold production from auriferous quartz mines and placer deposits	
	1945	1946	1945	1946
	(fine ounces)			
January .....	43,480	39,475	193,730	198,975
February .....	38,306	38,396	177,687	190,543
March .....	45,187	43,356	187,423	204,562
April .....	43,141	41,124	184,434	197,092
May .....	42,975	36,538	178,313	203,801
June .....	42,358	27,510	173,444	206,873
July .....	38,809	36,326	175,006	203,228
August .....	39,620	33,557	175,766	197,643
September .....	38,881	31,897	176,276	198,007
October .....	43,841	32,123	189,646	208,705
November .....	32,389	28,288	192,153	202,916
December .....	40,026	15,616	203,836	211,853
Total - Calendar Year ....	489,013	404,206	2,207,714	2,424,198

(x) Subject to revision; 1946 data not adjusted to final totals for year.

Table 3 - Total (Cumulative) Recorded Production in Canada of Specified Metals to December 31, 1945

	Since	Unit of Measure	Quantity	Value
				\$
Gold .....	1858	fine ounces	94,994,481	2,788,211,971
Silver .....	1887	fine ounces	893,862,834	500,648,992
Copper .....	1886	pounds	10,197,295,095	1,196,503,210
Nickel .....	1889	pounds	4,427,153,875	1,198,774,017
Lead .....	1887	pounds	8,913,918,059	385,783,048
Zinc .....	1898	...	...	313,842,337
Cobalt .....	1904	pounds	34,526,509	33,816,943

Table 4 - Production of Gold and Silver in Canada by Principal Mines, 1945

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
<b>Nova Scotia -</b>							
Consolidated Mining & Smelting Co. of Canada Ltd. ....	7,342	...	7,354	1,938	71	40	(a)
Queens Mines Limited .....	5,184	...	5,184	1,081	31	120	(a)
Total Nova Scotia .....				3,291 (m)			
<b>Quebec -</b>							
Beattie Gold Mines (Quebec) Limited.	26,225	...	(d)	...	...	1,800	(d)
Belleterre Quebec Mines Limited ....	125,701	...	112,918	41,317	3,189	350	(c)
Canadian Malartic Gold Mines Limited	327,093	...	327,093	36,132	47,161	1,000	(c)
East Malartic Mines Limited .....	304,890	...	304,890	38,991	10,581	1,500	(c)
Francoeur Gold Mines Limited .....	77,962	...	77,962	11,524	...	...	(e)
Lamaque Mining Co. Limited .....	157,365	...	157,365	44,983	8,000	1,200	(c)
Malartic Gold Fields Limited .....	187,315	...	187,315	32,421	1,188	750	(c)
Mic-Mac Mines Limited .....	190,869	...	190,615	9,986	440	650	(a)(f)
O'Brien Gold Mines Limited .....	47,939	...	48,297	25,116	1,803	200	(a)(c)(g)
Perron Gold Mines Limited .....	110,829	3,081	106,485	19,432	1,851	400	(c)
Powell Rouyn Gold Mines Limited ....	100,034	...	98,519	14,746	...	...	(e)
Senator-Rouyn Limited .....	86,812	...	84,005	12,534	950	300	(c)
Sigma Mines (Quebec) Limited .....	299,608	...	299,608	48,920	10,137	1,100	(c)
Siscoe Gold Mines Limited .....	267,722	1,556	266,166	33,571	2,358	900	(a)(c)
Sladen-Malartic Mines Limited .....	175,737	...	175,737	18,777	11,099	700	(c)
Stadacona Rouyn Mines Limited .....	125,927	...	125,927	21,873	3,778	500	(c)
Sullivan Consolidated .....	152,634	28,574	124,060	28,643	8,687	500	(c)
West Malartic Mines Limited .....	72,443	...	72,443	6,229	437	300	(c)
Total Principal Gold Mines .....	2,837,105	33,211	2,759,405	445,195	111,659	121,500	
Copper-gold-silver and other ores ..				216,413			
Total Quebec .....				661,608			
<b>Ontario -</b>							
<u>Porcupine District</u>							
Aunor Gold Mines Ltd. ....	143,390	...	143,390	56,143	4,554	300	(c)
Bonetal Gold Mines Ltd. ....	25,828	1,836	23,992	4,381	437	...	(c)
Broulan Porcupine Mines Ltd. ....	102,470	13,078	89,392	16,933	1,720	350	(c)
Buffalo Ankerite Gold Mines Ltd. ...	200,253	2,562	197,691	32,532	3,396	1,300	(c)
Coniaurum Mines Ltd. ....	98,210	...	98,210	26,275	5,065	500	(c)
Delnite Mines Ltd. ....	66,283	...	66,120	9,422	828	520	(c)
Dome Mines Ltd. ....	527,100	...	527,100	126,677	26,385	1,700	(a)(c)
Hallnor Mines Ltd. ....	95,436	...	95,436	44,757	3,434	400	(c)
Hollinger Cons. Gold Mines Ltd. (Timmins) .....	936,596	...	933,748	219,213	45,549	3,900	(c)
Hollinger Cons. Gold Mines Ltd. (Ross)	73,605	...	73,538	11,619	24,491	300	(c)
McIntyre Porcupine Mines Ltd. ....	566,171	...	565,320	161,044	33,160	2,400	(c)
Pamour Porcupine Mines Ltd. ....	417,914	...	417,914	37,915	4,723	1,600	(c)
Paymaster Cons. Mines Ltd. ....	126,386	...	130,793	27,299	10,754	600	(c)
Preston East Dome Mines Ltd. ....	221,598	...	222,359	56,328	6,759	1,000	(a)(c)
<u>Kirkland Lake District</u>							
Bidgood Kirkland Gold Mines Ltd. ...	32,617	...	32,608	10,859	2,365	125	(c)
Kirkland Lake Gold Mining Co. Ltd. ...	85,358	...	85,358	28,179	3,340	400	(c)
Lake Shore Mines Ltd. ....	291,854	...	291,854	117,249	25,183	2,300	(c)
Macassa Mines Ltd. ....	71,988	...	71,988	28,154	5,801	400	(c)
Sylvanite .....	114,102	...	114,227	37,648	7,397	600	(c)
The Teck-Hughes Gold Mines Ltd. ....	106,006	...	106,006	28,506	2,621	600	(c)
Toburn Gold Mines Ltd. ....	41,655	...	41,655	12,648	4,151	175	(c)
Upper Canada .....	83,708	...	83,708	26,859	12,641	250	(c)
Wright Hargreaves Mines Ltd. ....	156,320	...	156,320	79,476	12,240	1,200	(c)



Table 4 - Production of Gold and Silver in Canada by Principal Mines, 1945 (Con.)

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 (Con.) -</u>							
<u>Larder Lake District</u>							
Chesterville Larder Lake Gold Mining Ltd. ....	153,416	...	153,416	16,912	1,091	700	(c)
Kerr-Addison Gold Mines Ltd. ....	429,367	...	430,065	79,391	4,531	1,800	(c)
Omega Gold Mines Ltd. ....	104,724	...	104,724	11,626	1,638	500	(c)
<u>Matachewan District</u>							
Hollinger Cons. Gold Mines Ltd. (Young-Davidson) .....	206,511	...	206,558	19,494	4,185	1,050	(c)
Matachewan Consolidated Mines Ltd. .	161,311	...	161,361	15,438	5,472	1,000	(c)
<u>Thunder Bay District</u>							
Hard Rock Gold Mines Ltd. ....	6,337	...	6,337	1,338	107	450	(c)
Leitch Gold Mines Ltd. ....	22,350	2,200	20,089	17,729	623	90	(a)(c)
Little Long Lac Gold Mines Ltd. ....	86,005	13,888	72,117	21,153	1,976	300	(a)(c)
MacLeod-Cockshutt Gold Mines Ltd. ..	41,945	11,645	30,000	9,551	158	650	(c)
<u>Patricia District</u>							
Berens River Mines Ltd. ....	72,880	...	72,880	17,805	684,134	225	(e)
Central Patricia Gold Mines Ltd. ...	89,301	...	89,301	27,797	2,640	400	(c)
Cochonour Willans Gold Mines Ltd. ..	31,672	...	31,445	9,139(h)	363	200	(a)(c)
Hasaga Gold Mines Ltd. ....	124,338	19,595	105,068	11,735	4,868	350	(c)
Madsen Red Lake Gold Mines Ltd. ....	101,663	...	101,663	25,959	5,590	400	(c)
McKenzie Red Lake Gold Mines Ltd. ..	76,296	12,836	63,460	12,761	3,154	250	(c)
Pickle Crow Gold Mines Ltd. ....	64,170	3,863	60,227	33,489	4,673	400	(a)(c)
Total Principal Gold Mines .....	6,357,134	81,503	6,277,438	1,531,434	972,197	29,685	
Nickel-copper and other mines .....				93,934			
Total Ontario .....				1,625,368			
<u>Manitoba -</u>							
San Antonio Gold Mines Ltd. ....	136,217	...	136,977	38,326	6,035	550	(a)(c)
Copper-gold-silver ores .....				32,329			
Total Manitoba .....				70,655			
<u>Saskatchewan -</u>							
Copper-gold-silver and alluvial ores				108,568			
<u>Alberta -</u>							
Placer gold .....				7			
<u>British Columbia -</u>							
Bralorne Mines Ltd. ....	110,410	5,127	105,283	48,286	9,960	550	(c)(b)
Cariboo Gold Quartz Mining Co. Ltd..	36,016	...	34,676	13,431	1,116	350	(c)(i)
Hedley Mascot Gold Mines Ltd. ....	56,481	...	56,503	1,363	242	225	(c)(j)
Island Mountain Mines Co. Ltd. ....	22,614	...	22,614	10,071	1,376	150	(c)
Kelowna Exploration Co. Ltd. ....	99,383	...	99,383	34,582	1,464	275	(k)
Pioneer Gold Mines of B.C. Ltd. ....	10,528	1,392	9,039	4,944	941	300	(c)
Sheep Creek Gold Mines Ltd. ....	24,504	...	13,470	9,925	2,712	150	(c)
Silbak Premier Mines Ltd. ....	65,801	...	65,801	14,464	83,598	500	(l)
Total Principal Gold Mines .....	425,737	6,519	406,769	137,066	101,409	2,500	
Material exported .....				24,468			
Placer gold .....				10,071			
Copper-gold and other ores .....				15,249			
Total British Columbia .....				186,854			
<u>Yukon -</u>							
Placers .....				31,721	6,282		
<u>Northwest Territories -</u>							
Negus Mines Ltd. ....	11,454	1,415	10,039	8,655	2,033		(a)(c)
TOTAL CANADA .....				2,696,727			

## Footnotes to Table 4.

- (a) Amalgamation.  
 (b) Concentrates shipped to smelter - additional gold, 9,078 oz; silver, 5,787 oz.  
 (c) Cyanidation.  
 (d) Hoisted and stock-piled  
 (e) Ore shipped to smelter.  
 (f) Copper-gold concentrates shipped to smelter, - 13,643 oz. gold; 5,292 oz. silver - included in Copper-gold and other ores.  
 (g) Crude arsenic also shipped.  
 (h) Includes 2,433 oz. gold in ore shipped to smelter.  
 (i) Slag and residues to smelter included in B.C. total - gold 45 oz., silver 16 oz.  
 (j) Concentrates exported - gold 15,345 oz., silver 3,695 oz.  
 (k) Concentrates exported - gold 34,582 oz., silver 1,464 oz.  
 (l) Exported material containing gold 14,464 oz., silver 83,598 oz.  
 (m) Receipts at Royal Canadian Mint, Ottawa.

Table 5 - Production of New Gold (x) By Provinces and Territories, 1932-1945

Year	Nova Scotia		Quebec		Ontario		Manitoba	
	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$
1932 ..	964	22,634	401,105	9,417,572	2,280,105	53,534,743	122,507	2,876,350
1933 ..	1,382	39,525	382,886	10,950,539	2,155,519	61,647,843	125,310	3,583,866
1934 ..	3,525	121,613	390,097	13,458,347	2,105,339	72,634,195	132,321	4,565,075
1935 ..	9,376	329,942	470,552	16,558,725	2,220,336	78,133,624	142,613	5,018,551
1936 ..	11,960	418,959	666,905	23,361,683	2,378,503	83,818,960	139,273	4,878,733
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	6,532,209
1939 ..	29,943	1,082,170	953,377	34,455,998	3,086,076	111,533,873	180,875	6,537,003
1940 ..	22,219	855,432	1,019,175	39,238,238	3,261,698	125,574,988	152,295	5,863,357
1941 ..	19,170	738,045	1,089,339	41,939,552	3,194,308	122,980,858	150,553	5,796,290
1942 ..	12,989	500,076	1,092,388	42,056,938	2,763,819	106,407,032	136,226	5,244,701
1943 ..	4,129	158,967	922,533	35,517,521	2,117,215	81,512,777	91,775	3,533,337
1944 ..	5,840	224,840	746,784	28,751,184	1,731,836	66,675,686	74,168	2,855,468
1945 ..	3,291	126,704	661,608	25,471,908	1,625,368	62,576,668	70,655	2,720,218
Total	171,266	6,250,096	10,389,492	377,071,316	34,403,694	1,218,937,299	1,800,226	65,531,794

	Saskatchewan		British Columbia		Yukon		Northwest Territories	
	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$
1932 ..	11	258	199,004	4,672,429	40,608	953,438	...	...
1933 ..	5,400	154,440	238,995	6,835,257	39,493	1,129,500	...	...
1934 ..	5,405	186,472	296,196	10,218,762	38,798	1,338,531	...	...
1935 ..	14,323	504,026	391,633	13,781,565	35,707	1,256,529	200	7,038
1936 ..	48,981	1,715,805	451,938	15,831,388	50,358	1,764,041	1	35
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
Total	1,092,398	41,185,199	5,167,294	202,498,724	744,421	26,595,102	376,347	14,343,619

(x) From all sources.



Table 6 - Gold Recovered in Canada According to Nature of Ore, By Provinces, 1941-1945

Year and Province	Placer gold oz.	Auriferous quartz ores (x) oz.	Copper-gold- silver ores oz.	Nickel- copper ores oz.	Silver-lead and other ores oz.	Total oz.
<u>1941</u>						
Nova Scotia .....	...	19,170	...	...	...	19,170
Quebec .....	9	813,158	276,172	...	...	1,089,339
Ontario .....	...	3,116,303	...	77,960	45	3,194,308
Manitoba .....	...	80,330	70,223	...	...	150,553
Saskatchewan .....	57	24,631	113,327	...	...	138,015
Alberta .....	215	...	...	...	...	215
British Columbia .....	35,020	516,941	35,010	...	21,232	608,203
Northwest Territories .....	39	74,378	...	...	...	74,417
Yukon .....	70,847	...	...	...	112	70,959
Total Canada .....	106,187	4,644,911	494,732	77,960	21,389	5,345,179
<u>1942</u>						
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
<u>1943</u>						
Nova Scotia .....	...	4,129	...	...	...	4,129
Quebec .....	...	625,429	284,112	...	12,992(x)	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
<u>1944</u>						
Nova Scotia .....	...	5,840	...	...	...	5,840
Quebec .....	...	522,894	209,989	...	13,901(x)	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
<u>1945</u>						
Nova Scotia .....	...	3,291	...	...	...	3,291
Quebec .....	...	434,784	212,146	...	14,678(x)	661,608
Ontario .....	...	1,532,715	44,544	48,109	...	1,625,368
Manitoba .....	...	38,326	32,329	...	...	70,655
Saskatchewan .....	...	...	108,568	...	...	108,568
Alberta .....	7	...	...	...	...	7
British Columbia .....	10,071	161,960	12,453	...	2,370	186,854
Northwest Territories .....	...	8,655	...	...	...	8,655
Yukon .....	31,721	...	...	...	...	31,721
Total Canada .....	41,799	2,179,731	410,040	48,109	17,048	2,696,727

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

(/) 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, 1932-1945

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	5,245,179
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

(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 (x), 1943-1945 (Fine Ounces)

Month	1943	1944	1945	Month	1943	1944	1945
January ...	334,422	258,607	237,210	July .....	292,663	236,362	213,815
February ..	327,318	257,613	215,993	August ....	293,281	237,617	215,386
March .....	347,591	267,485	232,610	September .	282,130	237,151	215,157
April .....	323,041	245,577	227,575	October ...	279,988	230,749	233,487
May .....	313,489	257,647	221,288	November ..	267,726	223,806	224,542
June .....	326,839	240,673	215,802	December ..	262,813	229,624	243,862

(x) 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, 1943 and 1944

Material	Cost at Works	
	1943	1944
	\$	\$
Fine gold .....	3,138,717	3,665,017
Gold alloys .....	704,571	826,199
Fine silver .....	1,421,459	1,749,154
Silver alloys .....	837,907	1,014,775
Platinum .....	169,467	150,966
Old gold, jewellers' findings, waste and scrap for refining	1,828,996	1,379,536
Gold-filled wire and stock .....	269,249	349,871
Precious and semi-precious stones .....	724,011	1,252,769

Table 10 - Gold Production of the World (a) - (In fine ounces) - 1939 and 1945 (Taken from American Bureau of Metal Statistics)

Country	1939	1945
North America -		
United States .....	5,559,139	996,502
Canada .....	5,094,379	2,651,250
Mexico .....	841,623	499,290
Newfoundland .....	20,313	15,354
Total North America .....	11,515,454	4,162,396
Central America and West Indies .....	176,000	285,000
South America -		
Brazil .....	233,800	195,000
Chile .....	329,444	179,551
Colombia .....	570,017	506,695
Ecuador .....	85,352	69,402
Peru .....	272,362	175,000
Guiana - British .....	38,473	22,533
Dutch .....	12,000	7,500
French .....	37,606	20,640
Venezuela .....	146,607	57,700
Other South America .....	50,000	20,000
Total South America .....	1,775,661	1,254,021
Europe -		
Czechoslovakia .....	10,000	
France .....	66,647	
Yugoslavia .....	71,503	
Roumania .....	153,616	
Russia and Siberia .....		
Sweden .....	216,144	95,000
Oceania -		
New South Wales .....	87,188	40,000
Queensland .....	147,248	60,000
Victoria .....	156,522	61,790
Western Australia .....	1,214,237	468,548
Tasmania .....	19,982	13,050
New Guinea .....	246,214	
New Zealand .....	178,955	
Fiji .....	110,000	
Other Oceania (c) .....	48,684	
Asia - British India .....	316,504	170,000
Africa -		
Belgian Congo .....	521,666	343,447
French West Africa .....	53,868	65,600
Kenya .....	77,444	45,000
Madagascar .....	14,000	6,430
Rhodesia .....	800,256	570,000
British West Africa (b) .....	839,900	565,000
Tanganyika .....	130,366	72,530
Transvaal, Cape Colony and Natal .....	12,821,507	12,213,545
TOTALS FOR WORLD .....	39,490,000	26,590,000

(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.

Note: In the absence of data from Russia and Siberia and from Korea, Japan and other countries omitted from the above table conjectural insertions have been 5,000,000 oz. for Russia and Siberia in 1939 and 4,000,000 oz. in 1945. The hypothetical insertion for Korea, Japan, etc., has been 2,500,000 oz. for 1939 and 1,300,000 oz. for 1945. World's totals as reported in above table are subject to corrections if, when and as, the true figures for the missing gold productions become known.



Table 11 - Comparative Figures of Gold Production For the World Since the Discovery of America, Also Production for Russia, Transvaal, United States and Canada

Year	Russia (a)	Transvaal since the commencement of fields(i)	United States (f) (a)	Canada since the recording of production in 1858	World since the discovery of America (a)
	<u>fine ounces</u>	<u>fine ounces</u>	<u>fine ounces</u>	<u>fine ounces</u>	<u>fine ounces</u>
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	2,922,311	(o)
1945 .....	(b)	12,213,545	996,502(p)	2,696,727	(o)
Total .....	...	432,741,986	274,530,007	94,944,481(r)	

Footnotes on Page 11.



## Footnotes to Table 11.

- (a) Supplied by United States Mint.
- (b) Not available.
- (c) 1792-1847.
- (d) 1848-1872.
- (e) 1873-1880.
- (f) Including Philippine Islands production received in United States. Data represent receipts at United States Mint's refineries assay offices.
- (g) Data not available for preceding years. A revision by the United States Mint of estimated Russian gold production for the years 1913 to 1934 was made from United States consular reports, based principally on Soviet publications. While available data are quite indefinite and, in many instances, contradictory, it is believed that this revision more nearly represents actual production than data heretofore used. Figures for Russian production since 1937 supplied by American Bureau of Metal Statistics.
- (h) Subject to revision. American Bureau of Metal Statistics.
- (i) Annual Report - Department of Mines, Union of South Africa. 1941 to 1944 figures, Transvaal Chamber of Mines.
- (j) Includes 1,140,126 fine ounces received from Philippines.
- (k) Includes conjectural data for Russia.
- (l) Includes 1,144,332 fine ounces from Philippine Islands.
- (m) The Mining Journal, London - subject to revision.
- (n) Includes 158,726 ounces received from Philippine Islands.
- (o) Omitted due to incomplete data.
- (p) American Bureau of Metal Statistics - preliminary.
- (q) Includes 13,764 ounces received from Philippine Islands.
- (r) The total value of Canadian gold production from 1858-1945 inclusive totalled \$2,788,211,971.

Table 12 - Estimated Average Monthly Value of an Ounce of Fine Gold, Expressed in Canadian Funds, 1931-1945

Month	1931	1932	1933	1934	1935	1936	1937	1938	1939	(1940 (1945
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
January .....	20.71	24.24	23.64	33.05	34.95	35.06	35.01	34.99	35.30	38.50
February .....	20.67	23.67	24.74	35.29	35.05	35.18	35.01	35.00	35.19	38.50
March .....	20.67	23.11	24.78	35.08	35.40	35.11	34.98	35.05	35.13	38.50
April .....	20.68	22.98	25.33	34.93	35.18	35.13	34.95	35.15	35.15	38.50
May .....	20.68	23.38	27.75	34.94	34.95	35.00	34.94	35.22	35.13	38.50
June .....	20.73	23.83	28.24	34.73	35.05	35.09	35.02	35.36	35.07	38.50
July .....	20.74	23.73	30.58	34.59	35.08	34.91	35.05	35.24	35.06	38.50
August .....	20.73	23.61	30.09	34.19	35.09	35.00	35.00	35.12	35.01	38.50
September .....	21.55	22.88	31.79	34.18	35.28	34.99	35.00	35.12	37.21	38.50
October .....	23.22	22.65	31.48	34.27	35.49	34.99	34.99	35.32	38.43	38.50
November .....	23.22	23.78	32.68	34.16	35.37	34.95	34.98	35.25	38.50	38.50
December .....	25.01	23.85	32.14	34.57	35.33	34.98	34.93	35.28	38.50	38.50
Yearly Average	21.55	23.47	28.60	34.50	35.19	35.03	34.99	35.17	36.14	38.50

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

Table 13 - World's Monetary Stocks of Gold at the Close of 1942, 1943 and 1944 (Subject to revision)  
(Compiled by the United States Mint from available data: Stated in United States money)

Country	Total Gold Stock Value 1942 (e)	Per capita	Total Gold Stock Value 1943 (e)	Per capita	Total Gold Stock Value 1944 (e)	Per capita
	\$	\$	\$	\$	\$	\$
United States (d) .....	22,726,255,000	168.85	21,937,794,000	159.65	20,618,830,000	148.65
Canada (f) .....	5,629,000	0.49	5,346,000	0.46	6,485,000	.54
Mexico .....	39,000,000	1.95	203,000,000	9.60	222,000,000	10.49
Argentina .....	353,728,000	25.80	939,000,000	68.50	1,111,083,000	7.86
Brazil .....	115,140,000	2.66	254,563,000	5.89	329,999,000	7.28
Belgium .....	735,000,000	89.02	734,000,000	88.89	732,281,000	88.69
Denmark .....	44,900,000	11.39	44,000,000	11.39	44,009,000	11.39
France .....	2,000,000,000	47.64	2,000,000,000	47.37	1,776,570,000	42.32
Germany .....	29,000,000	0.42	29,000,000	0.42	28,542,000	.41
Great Britain .....	1,000,000	0.02	4,665,000	0.10	975,000	...
Italy .....	(a)	(a)	(a)	(a)	(a)	(a)
Netherlands .....	506,000,000	56.71	500,000,000	56.03	500,000,000	56.03
Norway .....	(a)	(a)	(a)	(a)	(a)	(a)
Portugal .....	59,000,000	7.60	60,000,000	7.73	60,000,000	7.73
Roumania .....	241,000,000	12.09	316,000,000	15.85	368,705,000	18.50
Russia (Soviet Union) ..	(a)	(a)	(a)	(a)	(a)	(a)
Spain .....	42,000,000	1.60	91,000,000	(a)	104,683,000	3.99
Sweden .....	335,000,000	52.58	387,000,000	60.74	462,518,000	72.60
Switzerland .....	824,000,000	193.56	964,000,000	226.45	1,052,453,000	247.23
British India (ex.Burma)	274,392,000	0.71	274,392,000	0.71	274,480,000	.71
Japan (including Chosen, Taiwan, Kwantung) ....	(a)	(a)	(a)	(a)	(a)	(a)
Netherlands East Indies.	(a)	(a)	(a)	(a)	(a)	(a)
Egypt and Anglo Egyptian Sudan	112,208,000	4.85	112,208,000	4.85	112,208,000	4.70
Australia .....	(a)	(a)	1,953,000	0.27	(a)	(a)
New Zealand .....	23,087,000	14.13	23,087,000	14.13	23,087,000	14.06
Union of South Africa ..	634,457,000	60.30	710,360,000	67.51	812,127,000	72.97
Other countries .....	(a)	(a)	(a)	(a)	(a)	(a)
Total .....	(c)	(c)	(c)	(c)	(c)	(c)

(a) Complete data omitted because of indefiniteness or unavailability.

(b) Population figures are principally supplied by United States Department of Commerce.

(c) Totals omitted due to the great number of instances in which data are not available.

(d) Includes Alaska, Hawaii and Puerto Rico.

(e) 1 ounce fine gold = \$35.

(f) Exclusive of gold held by Foreign Exchange Control Board.

Note: It is understood that material amounts of gold are not reported by several countries, such as amounts held in secret funds for stabilizing currencies and those hoarded or held outside of regularly reported stocks.

Table 14 - Average Commercial Ratio of Silver to Gold for Each Specified Year Since 1700  
(Supplied by United States Mint)

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



TREND IN EMPLOYMENT, 1945

(Employment and Payroll Statistics Branch - D.B.S.)

Mining

The extraction of coal and of metallic ores generally afforded less employment during 1945 than in the preceding twelve months; the mining of miscellaneous non-metallic minerals other than coal, however, was somewhat more active. The annual index in mining, at 146.9 was lower by 4.9 per cent than that of 1944, being also less than in any earlier year since 1936. Strikes, particularly in the coal mining areas, contributed to the lower average indicated in the year under review, when there was also curtailment in the production of minerals for war-time use. On the other hand, the relaxation of controls as the year progressed brought with it greater activity in gold mining, which had been seriously affected by wartime shortages of labour.

Returns were compiled in 1945 from 502 mine operators with an average staff of 69,173 persons, as compared with 72,427 in 1944. The sums distributed in weekly salaries and wages by the co-operating mining companies and branches averaged \$2,670,924, a sum which represented weekly earnings of \$38.00 per person in recorded employment. This figure was higher than in any other of the major industrial groups, with the exception of the mean of \$38.82 indicated in transportation. The 1944 figure in mining had been \$38.05; that in 1943, \$36.09; while the 1942 average was \$34.81. Although the average earnings per employee were higher during 1945, the index number of aggregate weekly payrolls was lower than in 1944 or any preceding year in the comparatively brief period for which statistics of payrolls are available.

Coal Mining - Partly as a result of strikes, there was a reduction in employment in coal mining during the year under review, the index number at 92.7 being rather lower than in any earlier year since 1940. A combined working force of 25,551 persons was reported by the 141 coal mines participating in the monthly surveys during 1945, when the trend was uninterruptedly downward from the first of March to the beginning of September. The annual index at 92.7 was 4.7 per cent lower than in 1944. The weekly pay rolls were also lower, averaging \$976,578, as compared with \$989,370 in the year before. The earnings averaged \$38.19, a sum exceeding by \$1.24 the mean indicated in 1944, when the average in turn had been higher than in 1943 and in 1942.

Metallic Ores - Although employment in the mining of metallic ores continued to decline in 1945, the falling-off as compared with the preceding year was rather less than that in 1944 from the 1943 level, while considerable improvement was shown in the latter months of the year. This took place to a considerable extent in gold mining as the relaxation of labour restrictions permitted the resumption or expansion of operations in this industry. Statements were received from 231 operators employing an average of 32,302 persons, whose weekly earnings in 1944 averaged \$1,324,874, representing \$41.02 per employee. In 1944, 224 establishments had reported a staff of 34,693, while the earnings had averaged \$1,411,020, a mean of \$40.68 per person per week. The index of employment decreased as compared with 1944 by 8.2 per cent and there was a falling-off of 6.5 per cent in the index of payrolls. On the other hand, the average weekly earnings rose by 0.8 per cent.

Non-Metallic Minerals, Other Than Coal - Continued improvement was indicated during 1945 in the production of miscellaneous non-metallic minerals; the annual index of 169.2 reached a new high, exceeding by 3.3 per cent that of 163.8 in 1944. The reported employees numbered 11,320, as compared with 10,946 in the year before, while the payrolls showed an increase of 3.9 per cent, rising to \$369,472 in 1945. The typical employee in recorded employment earned \$32.64 per week, a sum which was higher than the averages of \$32.34, \$30.84 and \$28.51 recorded in 1944, 1943 and 1942 respectively. The renewal of activity in construction work was reflected in higher employment in most branches of this industry in the year under review.

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 \$2- $\frac{1}{2}$  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 the 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

The issues of coin as detailed below, exceeded those of the previous year by \$83,100. Silver dollars to the value of \$38,300 were coined and issued for the first time since 1939.

A comparative statement of the value of coin issued, by denominations, for the years 1944 and 1945, is shown in the table below:-

Denomination	Coin issued in	
	1944	1945
	\$ cts.	\$ cts.
Silver Coin -		
1 dollar .....	...	38,300.00
50 cents .....	1,230,000.00	980,000.00
25 cents .....	1,818,000.00	1,324,000.00
10 cents .....	958,000.00	1,074,000.00
Total Silver .....	4,006,000.00	3,416,300.00
Tombac Coin -		
5 cents .....	400.00	...
Steel Coin -		
5 cents .....	571,000.00	950,300.00
Bronze Coin -		
1 cent .....	454,600.00	748,500.00
Total .....	5,032,000.00	5,115,100.00
<u>Number of Pieces</u>		
Representing .....	76,200,000	111,890,300

In addition the following coinages were executed for the Government of Newfoundland:-

	Value	Number of Pieces
	\$ cts.	
Silver - 10 cents .....	17,583.30	175,833
5 cents .....	10,191.40	203,828
	27,774.70	379,661

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

	S i l v e r				Steel	Bronze
	dollar	50 cents	25 cents	10 cents	5 cents	1 cent
	\$	\$	\$	\$	\$	\$
Calgary .....	...	24,000	42,000	84,000	44,500	45,200
Charlottetown .....	...	2,000	20,000	10,000	4,500	4,800
Halifax .....	4,000	100,000	148,000	80,000	48,000	47,500
Montreal .....	6,000	...	190,000	296,000	262,000	204,000
Ottawa .....	10,300	8,000	72,000	32,000	61,800	13,300
Regina .....	...	122,000	122,000	66,000	44,500	51,500
St. John .....	...	12,000	80,000	62,000	28,500	26,000
Toronto .....	8,000	512,000	466,000	314,000	358,500	268,800
Vancouver .....	2,000	130,000	...	60,000	60,500	49,500
Winnipeg .....	8,000	70,000	184,000	70,000	37,500	37,900
	38,300	980,000	1,324,000	1,074,000	950,300	748,500

Worn and mutilated coin withdrawn from circulation:

	Withdrawn	Net Increase in Circulation
	\$ cts.	\$ cts.
Silver coin .....	61,522.20	3,354,777.80
Nickel coin (mutilated only) .....	1,819.55	...
Tombac coin - 5 cents .....	292.75	...
Steel coin - 5 cents .....	130.00	950,170.00
Bronze coin .....	2,565.66	745,934.34

#### Gold Bullion

Three thousand, four hundred and five 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 3,102,991 ounces, containing by assay 2,503,417 ounces fine gold and 357,739 ounces fine silver. The receipts show a decrease as compared with the year 1944 of 548 in the number of deposits, gross weight 434,742 ounces, gold content 358,632 ounces fine and fine silver 28,252 ounces.

The net amount paid by cheque to depositors was \$93,463,407.02. In addition 8,240.056 ounces of fine gold with a statutory value of \$170,337.45 was also issued in payment of gold deposits.

Postage collected for the Postmaster General on deposits shipped by mail, postage collect, amounted to \$10,636.48.

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

Source	Gross Weight	Fine Gold	Fine Silver
		(ounces)	
From Canadian Mines and Refineries -			
Ontario .....	1,884,507.550	1,522,989.077	208,448.33
Quebec .....	931,929.275	757,420.921	113,985.17
British Columbia .....	127,890.375	103,099.881	18,363.06
Manitoba .....	85,201.375	68,187.783	5,837.86
Yukon .....	39,812.525	31,761.859	6,286.96
Nova Scotia .....	3,495.450	3,293.552	111.75
North West Territories .....	9,850.400	7,198.706	1,644.52
Alberta and Saskatchewan ....	152.180	111.757	9.34
Total from Mines and Refineries	3,082,839.130	2,494,063.536	354,686.99
From Jewellery and Scrap .....	24,028.680	11,562.800	3,402.05
Grand Total .....	3,106,867.810	2,505,626.336	358,089.04



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

	Ounces Fine
5,964 Trade Bars to Bank of Canada ..	2,385,322.055
Depositors .....	8,240.056
Sales to Manufacturers .....	96,190.551
Proof Plate .....	.500
Medals .....	7.599
Sweep .....	9,402.913
	<u>2,499,163.674</u>

This total shows a decrease of 330,591.326 ounces fine as compared with the year 1944.

#### THE ALLUVIAL GOLD MINING INDUSTRY, 1945

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 41,799 troy ounces of fine gold recovered from crude gold obtained in Canadian alluvial deposits. This is an increased production of 26% over the preceding year. With this exception, the placer gold obtained is the lowest recorded amount for the past fifteen years.

No placer gold mining operations were reported for 1945 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 15 - Summary Statistics of Alluvial Gold Mining In Canada, 1944 and 1945

	1944				1945		
	British Columbia	Yukon	Alberta and Saskatchewan(a)		British Columbia	Yukon	Alberta and Saskatchewan
Number of firms and individual operators (/) .....	41	6	...		33	5	...
Number of employees .....	72	139	...		69	165	...
Salaries and wages paid .....	\$ 116,132	482,424	...		119,714	572,969	...
Electricity generated for own use .....	K.W.H. 260,000	12,698,500	...		260,000	11,630,900	...
Electricity generated for sale .....	...	5,498,700	...		...	5,955,900	...
Crude gold recovered-crude oz.	11,433	30,570	66		12,589	38,000	110
Platinum recovered .....	oz. ...	...	...		...	...	...
Value of platinum recovered ..	\$ ...	...	...		...	...	...
Quantity of material handled - cu. yd.	531,737	4,687,174	220		263,527	2,981,599	...
Tungsten recovered (pounds concts.) lb.	...	...	...		...	...	...
Length of ditches .. Miles (b)	47	50	...		54	48	...
Total gross value of alluvial products .....	\$ 361,977	916,877	2,271		398,591	1,224,210	3,952
Fuel and electricity used (purchased) .....	\$ 8,470	35,121	...		7,948	33,556	...
Process supplies used .....	\$ 7,368	6,335	...		8,260	19,742	...
Cost of freight and express on dust, nuggets, bullion, etc., shipped (c) .....	\$ 1,140	15,787	...		1,289	5,259	...

Table 15 - Summary Statistics of Alluvial Gold Mining in Canada, 1944 and 1945 (Concluded)

	1944			1945		
	British Columbia	Yukon	Alberta and Saskatchewan(a)	British Columbia	Yukon	Alberta and Saskatchewan
Cost of smelter, refinery and mint treatment on material shipped (c) .....	\$ 1,464	8,419	...	2,507	2,187	...
Total net value of alluvial products .....	\$ 343,535	851,215	2,271	378,587	1,163,466	3,952

(/) In addition to the number shown in the table, there were numerous small operators from whom returns were not obtainable.

(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.

Table 16 - Alluvial Gold Recovered and Quantity of Material Handled (/), 1925-1945

Year	British Columbia				Yukon				Average value gold per fine ounce
	Material handled (x)	Gold recovered	Ounces per cu.yd.	Value per cu.yd.	Material handled (x)	Gold recovered	Ounces per cu.yd.	Value per cu.yd.	
	cu.yd.	fine oz.	fine oz.	\$	cu.yd.	fine oz.	fine oz.	\$	
1925 .....	(a)	13,181	(a)	...	3,103,892	47,817	0.0154	0.318	20.67
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	35,678	0.0079	0.1633	20.67
1930 .....	224,339	7,164	0.0319	0.6593	3,559,642	35,160	0.0099	0.2046	20.67
1931 .....	1,587,271	13,741	0.0086	0.1853	4,914,638	44,061	0.0090	0.1939	21.55
1932 .....	1,053,677	16,320	0.0155	0.3637	6,051,256	40,373	0.0067	0.1572	23.47
1933 .....	1,326,721	19,142	0.0144	0.4118	5,605,522	39,174	0.0070	0.2002	28.60
1934 .....	2,034,522	20,145	0.0099	0.3415	6,315,070	38,703	0.0061	0.2104	34.50
1935 .....	1,855,937	24,744	0.0133	0.4680	5,442,861	35,705	0.0066	0.2322	35.19
1936 .....	1,083,934	34,711	0.0166	0.5815	8,067,159	50,192	0.0062	0.2172	35.03
1937 .....	3,472,025	43,322	0.0125	0.4373	8,298,514	46,679	0.0056	0.1959	34.99
1938 .....	4,138,746	46,207	0.0112	0.3939	8,870,628	71,303	0.0080	0.2813	35.17
1939 .....	4,779,407	39,797	0.0083	0.2999	11,152,198	85,572	0.0077	0.2782	36.14
1940 .....	6,680,457	32,128	0.0048	0.1848	11,551,170	79,905	0.0069	0.2656	38.50
1941 .....	4,587,103	35,020	0.0076	0.2926	8,792,220	70,847	0.0081	0.3119	38.50
1942 .....	1,884,887	26,323	0.0139	0.5352	11,875,833	83,198(b)	0.0070	0.2695	38.50
1943 .....	754,202	11,680	0.0156	0.6006	8,028,117	41,157(b)	0.0051	0.1964	38.50
1944 .....	531,737	9,402	0.0177	0.6815	4,687,174	23,816(b)	0.0050	0.1956	38.50
1945 .....	263,527	10,071	0.0382	1.4707	2,981,599	31,721	0.0106	0.4081	38.50

(/) 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.

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

(a) Not available.

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

Table 17 - Fuel and Electricity Used by the Alluvial Gold Mining Industry During 1945

Kind	Unit of measure	Quantity	Cost at Plant
Bituminous coal - From Canadian mines .....	short ton	11	\$ 821
Coke (for fuel only) .....	short ton	2	226
Gasoline .....	Imp. gal.	25,130	14,678
Kerosene or coal oil .....	Imp. gal.	304	247
Fuel oil and diesel oil .....	Imp. gal.	14,105	5,455
Wood (cords of 128 cubic feet of piled wood) .....	cord	1,558	19,942
Other fuel .....	...	...	135
Total .....	...	...	41,504
Electricity generated (a) For own use .....	K.W.H.	11,890,900	
(b) For sale .....	K.W.H.	5,955,900	26,722



Table 18 - Power Equipment Installation, 1945

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 .....	3	325	2	16
Gasoline, gas and oil engines, other than Diesel engines	8	94	4	42
Hydraulic turbines or water wheels .....	4	15,080	...	...
Total .....	15	15,499	7	73
Electric motors operated by power generated by the establishment .....	93	3,893	269	1,785
Stationary boilers .....	1	35	1	15
Motor-generator sets .....	9	239	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 1945 mining operations were conducted at 716 auriferous quartz mines compared with 262 in 1944. The number of producing properties totalled 83 during the year under review as against 85 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 \$85,819,315 in 1945 compared with \$94,263,416 in 1944. The major producing provinces were Ontario with \$59,649,319, Quebec with \$17,974,078 and British Columbia with \$6,266,155.

Employees in the lode gold mining industry totalled 18,388 compared with 17,226 in 1944 and 7,052 in 1925. Salaries and wages paid amounted to \$37,690,177 against \$37,023,505 in the preceding year. Fuel and purchased electricity consumed by the industry in 1945 totalled \$5,400,999 and the cost of explosives, drill steel and other process supplies used amounted to \$11,101,264. A total of \$8,240,899 was paid in 1945 by operating Canadian gold mining companies in Government taxes and \$4,449,780 expended for prospecting and preliminary exploration of new areas or deposits.

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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Table 19 - Principal Statistics of the Auriferous Quartz Mining Industry in Canada, For Years Specified

Table 19 - Principal Statistics of the Auriferous Quartz Mining Industry in Canada, for Years Specified										
	Number of active opera- tors	(c) No. of operat- ing plants or mines	Number of em- ployees	Salaries and wages	Cost of fuel and electricity	(b) Cost of process supplies used	Amount of freight, etc. paid on ship- ments of ore, slag, etc.	Smelter and re- finery treat- ment costs	Gross value of bullion, ore, concen- trates or residues shipped from mines (d)	Net value of bullion, ore, concentrates or residues shipped from mines (d)
				\$	\$	\$	\$	\$	\$	\$
1923 .....	65	65	5,524	8,961,434	1,497,197	Data not available			(a) 25,021,837	Data not available
1929 .....	80	85	8,660	14,258,733	2,579,481	Data not available			(a) 37,275,986	Data not available
1 9 4 4										
Nova Scotia.	3	3	72	100,670	29,710	29,970	352	2,138	218,420	156,250
Quebec .....	144	146	4,516	9,302,580	1,557,531	2,986,898	83,946	530,613	20,179,341	15,020,353
Ontario .....	75	76	11,119	24,452,204	3,838,979	7,343,078	101,730	773,600	64,870,440	52,813,053
Manitoba ...	1	1	180	372,871	97,459	125,465	3,329	17,520	1,568,175	1,324,402
Saskatchewan	1	1	20	31,603	4,795	1,662	...	...	...	6,457
British Columbia ..	21	23	1,241	2,542,570	306,196	585,135	182,046	253,839	6,627,114	5,299,898
Northwest Territories	12	12	78	221,007	60,447	102,538	1,671	8,385	799,926	626,885
Yukon .....	...	...	...	...	...	...	...	...	...	...
Canada ...	257	262	17,226	37,023,505(e)	5,895,117	11,174,746	373,074	1,586,095	94,263,416	75,234,384
1 9 4 5										
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	2,582,754	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(e)	5,400,999	11,101,264	348,852	1,391,138	85,819,315	67,577,062

(a) Less freight and treatment charges.

(b) Explosives, chemicals, etc.

(c) Producing mines: 1923 - 33; 1929 - 38; 1940 - 278; 1944 - 85; 1945 - 83.

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

(e) Includes in salaries \$5,871,597 for 1944 and \$6,488,334 for 1945.

Table 20 - Principal Statistics Relating to Producers Only in the Auriferous Quartz Mining Industry in Canada, 1945

Province	Number of producing plants or mines	Number of employees	Salaries and wages	Cost of fuel and electricity	(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 concentrates or residues shipped from mines (c)	Net value of bullion, ore, concentrates or residues shipped from mines (c)
			\$	\$	\$	\$	\$	\$	\$
Nova Scotia .....	3	75	111,406	27,164	32,430	161	1,251	116,549	55,543
Quebec .....	18	3,606	7,738,236	1,426,473	2,537,018	57,793	472,994	17,974,078	13,479,800
Ontario .....	46	11,094	23,456,952	3,171,070	7,413,066	100,910	627,930	59,649,319	48,336,343
Manitoba .....	2	201	398,344	103,043	128,682	3,834	16,496	1,479,140	1,227,085
Saskatchewan .....	...	...	...	...	...	...	...	...	...
British Columbia ....	13	1,348	2,673,174	374,129	772,364	185,467	368,969	6,266,155	4,665,226
Northwest Territories	1	58	178,418	57,934	70,184	687	3,498	334,074	201,771
Yukon .....	...	...	...	...	...	...	...	...	...
<b>TOTAL CANADA 1945</b>	<b>83</b>	<b>16,382</b>	<b>34,556,530</b>	<b>5,159,813</b>	<b>10,953,744</b>	<b>348,852</b>	<b>1,391,138</b>	<b>85,819,315</b>	<b>67,965,768</b>
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
Total Canada 1939 ...	232	29,001	50,891,920	7,701,026	19,001,782	694,165	2,249,312	160,014,172	130,367,887

(a) Explosives, etc.

(b) Includes handling charges.

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

Table 21 - Ores Mined and Milled, Crude Bullion Recovered and Crude Bullion and Concentrates Shipped in the Auriferous Quartz  
Mining Industry, 1945

		Nova Scotia	Quebec	Ontario	Manitoba	Saskat- chewan	British Columbia	Northwest Terri- tories	Yukon	Canada
Number of producing mines ...		3	18	46	2	...	13	1	...	83
Ore mines .....	ton	12,554	2,837,105	6,357,340	136,217	...	425,885	11,454	...	9,780,555
Material discarded (sorted) ..	ton	...	45,994	82,400	...	...	6,519	1,415	...	136,328
Ore milled (ground, etc.) ...	ton	12,541	2,582,924	6,277,511	136,977	...	417,804	10,039	...	9,437,796
Tailings retreated .....	ton	...	...	...	...	...	...	...	...	...
Gold content of ores, slags, residues and concentrates shipped -										
To Foreign smelters .....	fine oz.	...	...	1,695	...	...	73,699	...	...	93,937
To Canadian smelters .....	fine oz.	...	40,280	20,238	30	...	564	...	...	42,569
Bullion bars shipped -										
Gold content .....	fine oz.	3,024	418,926	1,483,645	38,326	...	88,996	8,655	...	2,041,572
Silver content .....	fine oz.	102	111,659	260,857	6,036	...	16,343	2,033	...	397,030
Bullion produced by amalgama- tion .....	crude oz.	3,216	35,566	161,380	3,875	...	62,672	4,520	...	271,229
Bullion produced by cyanida- tion .....	crude oz.	...	558,094	1,757,489	51,803	...	47,067	7,290	...	2,421,743
Total Bullion Produced ..	crude oz.	3,216	593,660	1,918,869	55,678	...	109,739	11,810	...	2,692,972
Content of bullion bars pro- duced - Gold .....	fine oz.	3,026	419,476	1,511,407	38,326	...	88,020	8,655	...	2,068,910
Silver .....	fine oz.	102	113,729	288,090	6,036	...	16,347	2,033	...	426,337
Gold value (standard) ..	\$	62,556	8,671,338	31,244,444	792,273	...	1,819,624	178,911	...	42,769,146
Silver value .....	\$	42	53,453	118,269	2,435	...	6,481	864	...	181,544
Exchange premium on bullion bars produced .....	\$	53,951	7,478,488	26,944,156	683,287	...	1,569,285	154,299	...	36,883,466
Value of ores, concentrates, slags and residues sold (shipped) .....	\$	...	1,770,799	1,341,450	1,145	...	2,870,765	...	...	5,985,159
Total Gross Value										
Of Production .....	\$	116,549	17,974,078	59,649,319	1,479,140	...	6,266,155	334,074	...	85,819,315
Value of fuel, electricity and process supplies used, also freight on shipments, marketing, smelter and refinery charges .....	\$	61,006	4,636,861	11,443,971	256,558	5,561	1,630,146	208,150	...	18,242,253
Net Value of Production .	\$	55,543	13,337,217	48,205,348	1,222,582	-5,561	4,636,009	125,924	...	67,577,062



Table 22 - Ores, Concentrates, Slags, Etc., Shipped to Smelters From Canadian Gold Mines, 1930-1945

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 content fine oz.	Tons	Gold content fine oz.	Tons	Gold content fine oz.	Tons	Gold content fine oz.	Tons	Gold content fine oz.	Tons	Gold 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
Grand Total	2,059,505	414,510	68,987	247,893	3,149	44,426	166,479	106,527	572,510	1,522,919	2,277	358,592

Table 23 - Fuel and Electricity Used By Entire Auriferous Quartz Mining Industry in Canada, By Provinces, 1945

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	231	2,235	2,752	33,131	2,734	29,028	...	...
(b) Imported .....	short ton	...	...	15,442	196,519	30,101	357,184	...	...
Anthracite coal -									
(a) From United States.	short ton	...	...	82	1,578	757	11,392	...	...
(b) Other .....	short ton	...	...	1	24	3	150	...	...
Coke (for fuel only) .....	short ton	...	...	1	12	8	97	...	...
Gasoline .....	Imp. gal.	2,185	704	133,394	45,972	247,525	70,162	10,589	4,885
Kerosene or coal oil .....	Imp. gal.	223	45	2,773	660	10,370	2,778	...	...
Fuel oil and diesel oil ..	Imp. gal.	3,266	396	426,817	61,563	483,976	82,711	12,405	3,243
Wood (cords of 128 cu. ft. piled wood) .....	cord	...	...	13,162	86,865	13,242	90,022	498	3,807
Other fuel .....	...	...	...	...	...	...	167	...	...
Electricity purchased for power and lighting (including service charges)	K.W.H.	1,492,390	23,784	153,574,639	1,096,986	479,821,690	2,563,577	11,200,000	78,420
Electricity purchased for other purposes (including service charges) ...	K.W.H.	...	...	...	...	21,289,250	21,394	11,460,000	17,191
Total .....	...	...	27,164	...	1,523,310	...	3,228,662	...	107,546
Electricity generated for own use .....	K.W.H.	...	...	15,561,080	...	8,050,390	...	...	...

  

		Saskatchewan		British Columbia		Northwest Territories		Canada	
Bituminous coal -									
(a) From Canadian mines	short ton	360	4,500	3,254	46,645	2	198	9,333	115,737
(b) Imported .....	short ton	...	...	...	...	...	...	45,543	553,703
Anthracite coal -									
(a) From United States.	short ton	...	...	16	627	...	...	855	13,597
(b) Other .....	short ton	...	...	15	361	...	...	19	535
Coke (for fuel only) .....	short ton	...	...	7	112	...	...	16	221
Gasoline .....	Imp. gal.	720	260	35,237	12,621	35,450	20,549	465,100	155,153
Kerosene or coal oil .....	Imp. gal.	...	...	1,905	476	1,955	1,067	17,226	5,026
Fuel oil and diesel oil ..	Imp. gal.	225	36	819,455	113,730	120,165	24,239	1,866,309	285,918
Wood (cords of 128 cu. ft. piled wood) .....	cord	85	765	3,232	25,060	2,980	38,459	33,199	244,978
Other fuel .....	...	...	...	...	2,084	...	...	...	2,251
Electricity purchased for power and lighting (including service charges)	K.W.H.	...	...	23,875,610	186,360	2,306,718	36,168	672,271,047	3,985,295
Electricity purchased for other purposes (including service charges) ...	K.W.H.	...	...	...	...	...	...	32,749,250	38,585
Total .....	...	...	5,561	...	388,076	...	120,680	...	5,400,999
Electricity generated for own use .....	K.W.H.	...	...	18,001,878	...	12,967,152	...	54,580,500	...
Electricity generated for sale .....	K.W.H.	...	...	25,000	750	2,386,144	46,493	2,411,144	47,243

Table 24 - Power Equipment (Including stand-by or emergency equipment) 1945 (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 .....	4	132	12	2,057
Steam turbines .....	4	142	1	5
Diesel engines .....	45	9,175	37	5,807
Gasoline, gas and oil engines, other than Diesel engines .....	77	4,706	82	6,852
Hydraulic turbines or water wheels .....	13	13,882	1	780
Electric motors (except motor-generator sets) - (a) Operated by purchased power .....	8,468	235,331	1,378	30,903
Total .....	8,611	263,368	1,511	46,404
(b) Operated by above primary units .....	795	15,502	299	5,623
Stationary boilers .....	156	13,128	51	3,375
Motor-generator sets .....	426	18,372	29	793

Table 25 - Certain Data Relating to the Production of Gold by the Entire Auriferous Quartz Mining Industry in Canada, 1928-1945 (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	\$	\$	\$	\$	\$	\$
1928 ...	206	1.47	7.45	Information	Information	Informa-	...
1929 ...	218	1.46	7.18	not	not	tion	...
1930 ...	237	1.25	6.63	available	available	...	...
1931 (a)	250	1.19	6.50	1928	1928	...	...
1932 ...	255	1.21	6.31	to	to	not	...
1933 (b)	207	1.36	7.45	1934	1936	...	...
1934 (c)	154	1.71	9.64			avail-	...
1935 ...	146	1.89	10.48	4.38		...	16.75
1936 ...	137	1.98	11.32	4.46		able	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	1928	17.89
1939 ...	157	1.81	10.69	4.45	0.67		17.62
1940 ...	161	1.76	10.48	4.49	0.69	to	17.42
1941 ...	155	1.82	11.56	4.53	0.77		18.68
1942 ...	176	1.84	11.47	4.34	0.75	1943	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

(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 26.



Table 26 - Certain Data (Averages) Relating to the Total Production of Gold by Producers Only in the Auriferous Quartz Mining Industry in Canada, 1931, 1939-1945

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 of 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	(x)	(x)	(x)	...
1939 ...	164	1.76	10.25	4.33	0.67	(x)	17.01
1940 ...	165	1.72	10.20	4.41	0.69	(x)	17.02
1941 ...	158	1.79	11.37	4.46	0.77	(x)	18.39
1942 ...	177	1.83	11.41	4.33	0.75	(x)	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

Table 27 - Principal Statistics Relative to All Ontario Gold Mines, By Areas (d) 1943-1945

Camp or District	Number of producers	Ore (e) treated	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.	\$	\$
<b>1943</b>							
Porcupine .....	17	4,297,973	1,020,973	.24	6,519	14,115,867	5,581,209
Kirkland Lake .....	9	1,114,818(b)	466,052	.42	2,514	5,429,511	2,435,094
Larder Lake .....	4	981,020	169,281	.17	730	1,561,707	995,761
Matachewan .....	2	442,506	38,722	.09	279	569,835	465,629
Sudbury .....	1	107,608	18,641	.17	119	289,018	126,721
Algoma .....	1	1,782	254	.14	10	14,965	5,566
Thunder Bay .....	5	438,522(a)	141,504	.32	919	2,011,819	1,145,151
Rainy River and Kenora .	3	3,420	1,546	.45	13	26,111	10,255
Patricia .....	9	681,714	203,964	.30	1,227	2,707,544	1,348,422
Total .....	51	8,069,363	2,060,937	.25	12,330	26,726,337	12,113,808
<b>1944</b>							
Porcupine .....	16	3,788,213	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	...	(c) 49	...	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
<b>1945</b>							
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

(a) In addition 5,887 tons tailings were retreated in 1943 and 15,732 tons in 1944.

(b) In addition 6,863 tons tailings were retreated in 1943.

(c) Mill clean-up.

(d) Includes data for all active properties.

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

Table 28 - 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 retreated tons	Gold recovered as bullion(b) fine oz.	Gold in crude ore shipped fine oz.	Gold in concentrates, slag, etc., shipped fine oz.
1925 ...	3,646,460	3,527,021	118,436	(a)	48,475	1,482,294	97,011	34,131
1930 ...	4,472,803	4,306,869	123,037	(a)	37,095	1,782,556	45,342	56,893
1935 ...	8,832,901	8,888,129	19,481	(a)	57,798	2,492,145	9,848	143,666
1936 ...	10,694,208	10,504,181	6,569	(a)	33,814	2,903,063	9,988	192,439
1937 ...	12,388,489	11,880,323	39,642	457,622	97,710	3,283,795	17,757	188,618
1938 ...	14,749,649	14,158,555	176,822	528,696	64,926	3,810,642	44,451	191,586
1939 ...	17,105,744	16,150,173	275,519	660,578	18,426	4,160,352	56,044	167,448
1940 ...	18,986,306	18,083,439	209,394	757,538	180,311	4,386,673	42,422	190,157
1941 ...	20,031,736	19,026,273	210,396	936,003	480,289	4,405,986	49,602	190,738(e)
1942 ...	17,722,866	16,820,442	282,334	658,439	5,176	3,898,999	39,512	193,068(e)
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

(a) Not available.

(b) Content of bullion shipped 1925-1935; 1936-1945 - content of bullion produced.

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

(e) Gold in material shipped by gold mines to other gold mines for treatment is included under bullion.

Table 29 - 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, 1929-1945.

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.
1929 ...	4,371,143	1,771,526	2,687,873	.41	.61	20.67	0.530
1930 ...	4,429,906	1,884,791	4,784,549	.43	1.08	20.67	0.381
1931 ...	5,526,379	2,271,278	2,725,751	.41	.49	21.55	0.298
1932 ...	5,997,492	2,502,327	2,085,133	.42	.35	23.47	0.317
1933 ...	6,480,164	2,455,365	1,643,793	.38	.25	28.60	0.378
1934 ...	7,524,803	2,490,513	1,399,282	.33	.19	34.50	0.475
1935 ...	8,907,610	2,645,659	1,439,672	.30	.16	35.19	0.648
1936 ...	10,510,750	3,095,427	1,928,854	.29	.18	35.03	0.451
1937 ...	11,919,965(a)	3,490,170	1,912,286	.29	.16	34.99	0.449
1938 ...	14,335,377(a)	4,046,679	1,928,175	.28	.13	35.17	0.435
1939 ...	16,425,692(a)	4,383,844	2,119,708	.27	.13	36.14	0.405
1940 ...	18,292,833(a)	4,619,252	2,729,998	.25	.15	38.50	0.382
1941 ...	19,236,669(a)	4,646,326	2,773,460	.24	.14	38.50	0.383
1942 ...	17,102,776(a)	4,131,579	2,186,369	.24	.13	38.50	0.422
1943 ...	12,474,852(a)	3,015,119	1,399,778	.24	.11	38.50	0.452
1944 ...	10,536,278(a)	2,430,571	906,788	.23	.09	38.50	0.430
1945 ...	9,615,004(a)	2,205,416	1,205,147	.23	.13	38.50	0.47

(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 retreated, but includes ore milled plus crude ore shipped to smelters.

(d) The relatively high proportion of silver produced in 1929, 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 30 - Milling Capacity of Operating Canadian Gold Mines, 1935-1945 (Tons of 2,000 pounds per 24 hours)

Year	Nova Scotia	Quebec	Ontario	Manitoba	Saskat- chewan	British Columbia	Northwest Territories
1935 ....	292	3,368	20,921	1,465	...	2,990	...
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

Table 31 - Specified Costs per Ton of Ore Milled at Certain of the Principal Auriferous Quartz Mines in Canada, 1945

Name of Mine	Develop- ment and explora- tion (a)	Mining	Milling	General (b)	Total before deprecia- tion and taxes	Deprecia- tion	Taxes	Total costs
	\$	\$	\$	\$	\$	\$	\$	\$
<u>Quebec -</u>								
Belleterre Quebec Mines Limited .....	1.174	4.711	1.324	0.350	7.559	1.408	1.518	10.485
Canadian Malartic Gold Mines Limited ..	...	1.960	0.678	0.495	3.133	0.110	0.378	3.621
Francoeur Gold Mines Limited .....	0.68	2.38	...	2.46	5.52	0.73	0.04	6.29
Lamaque Mining Company Limited .....	1.08	2.27	1.02	1.35	5.72	0.19	1.74	7.65
O'Brien Gold Mines Limited .....	2.24	4.50	2.20	3.32	12.26	1.44	...	13.70
Perron Gold Mines, Limited .....	0.399	2.541	.917	.928	4.785	0.505	0.567	5.857
Senator-Rouyn Limited .....	1.64	2.27	1.09	1.33	6.33	1.57	...	7.90
Sigma Mines (Quebec) Limited .....	0.27	2.12	0.72	0.42	3.53	0.46	0.76	4.75
Siscoe Gold Mines Limited .....	0.538	1.806	0.632	0.463	3.48	...	...	...
Sladen-Malartic Mines Limited .....	0.53	1.69	0.99	0.43	3.64	0.46	0.03	4.13
Stadacona Rouyn Mines Limited .....	1.20	1.90	0.92	0.97	4.99	...	...	...
West Malartic Mines Limited .....	0.779	1.798	0.996	0.560	4.113	0.512	...	4.645
<u>Ontario -</u>								
<u>Porcupine District</u>								
Aunor Gold Mines Limited .....	1.20	4.43	1.13	0.95	7.71	1.95	1.64	11.30
Bonetal Gold Mines Limited .....	0.08	2.79	1.46	0.82	5.15	0.58	0.02	5.75
Broulan Porcupine Mines Limited .....	0.16	2.92	0.95	1.08	5.11	1.00	0.01	6.12
Buffalo Ankerite Gold Mines Limited ...	1.14	3.72	0.88	.91	6.65	0.45	...	7.10
Coniaurum Mines Limited .....	2.01	3.00	1.18	1.00	7.19	...	1.46	8.65
Dome Mines Limited .....	.746	2.056	1.025	.793	4.62	0.056	1.553	6.229
Hollinger Cons. Gold Mines Ltd. (Timmins)	1.030	3.384	0.722	1.004	6.140	0.367	0.787	7.294
Hollinger Cons. Gold Mines Ltd. (Ross) .	1.211	1.647	2.006	0.704	5.568	1.191	0.006	6.765
McIntyre Porcupine Mines Limited .....	0.627	4.685	1.024	0.315	6.651	.224	1.696	8.571
Pamour Porcupine Mines Limited .....	0.30	1.16	0.69	0.30	2.45	0.46	0.21	3.12
Paymaster Cons. Mines Limited .....	0.88	3.22	1.49	0.72	6.31	0.27	0.44	7.02
Preston East Dome Mines Limited .....	1.46	4.07	0.84	0.30	6.67	1.37	0.45	8.49
<u>Kirkland Lake District</u>								
Bidgood Kirkland Gold Mines Limited ...	3.37	4.97	2.09	1.59	12.02	0.40	...	12.42
Macassa Mines Limited .....	1.16	5.15	1.53	1.87	9.71	1.04	1.15	11.90
Sylvanite Gold Mines Limited .....	2.135	2.671	1.320	1.429	7.555	0.463	1.245	9.265
The Teck-Hughes Gold Mines Limited ....	(c)	4.26	1.32	1.43	7.01	...	1.08	8.09
Upper Canada Mines Limited .....	2.77	3.27	1.12	0.97	8.13	0.74	0.78	9.65
Wright-Hargreaves Mines Limited .....	(c)	5.713	1.880	2.120	9.713	.332	2.974	13.019
<u>Larder Lake District</u>								
Chesterville Larder Lake Gold Mining Co., Limited .....	0.90	1.23	1.06	0.64	3.83	0.49	...	4.32
Kerr-Addison Gold Mines Limited .....	0.667	1.207	0.736	0.507	3.107	1.136	0.977	5.220
Omega Gold Mines Limited .....	0.51	3.093	1.552	0.068	4.754	0.120	0.005	4.889

Table 31 - Specified Costs Per Ton of Ore Milled at Certain of the Principal Auriferous Quartz Mines in Canada, 1945 (Concluded)

Name of Mine	Develop- ment and explora- tion (a)	Mining	Milling	General (b)	Total before deprecia- tion and taxes	Deprecia- tion	Taxes	Total costs
	\$	\$	\$	\$	\$	\$	\$	\$
<u>Ontario (Con.) -</u>								
<u>Matachewan District</u>								
Hollinger Cons. Gold Mines Ltd. (Young-Davidson) .....	0.068	0.977	0.747	0.389	2.181	0.786	0.397	3.364
<u>Thunder Bay District</u>								
Leitch Gold Mines Limited .....	3.16	9.07	3.42	0.42	16.07	2.01	3.46	21.54
Little Long Lac Gold Mines Limited ...	1.04	4.80	2.15	1.66	9.65	0.02	0.51	10.18
MacLeod-Cockshutt Gold Mines Limited .	2.075	2.713	2.114	1.532	8.434	0.26	0.058	8.752
<u>Patricia District</u>								
Hasaga Gold Mines Limited .....	0.777	1.438	1.182	0.326	3.723	0.525	...	4.248
Madsen Red Lake Gold Mines Limited ...	2.197	2.256	1.233	1.316	7.002	.821	1.365	9.188
McKenzie Red Lake Gold Mines Limited .	0.894	3.592	1.518	1.749	7.753	0.33	...	8.083
Pickle Crow Gold Mines Limited .....	4.25	4.56	1.52	1.60	11.93	1.47	2.55	15.95
<u>British Columbia -</u>								
Bralorne Mines Limited .....	1.19	4.47	1.04	3.11	9.81	...	...	...
Cariboo Gold Quartz Mining Co. Limited	1.435	10.557	3.360	1.414	16.766	1.444	...	18.210
Hedley Mascot Gold Mines Limited .....	3.10	2.49	2.20	3.44	11.23	1.00	0.18	12.41
Island Mountain Mines Co. Limited ....	0.45	7.08	2.94	0.20	10.67	0.32	1.85	12.84
Kelowna Exploration Co. Limited .....	0.849	2.985	2.082	3.711	9.627	0.988	1.005	11.620
Sheep Creek Gold Mines Limited .....	0.836	5.465	2.461	1.619	10.381	0.078	1.005	11.464
Silbak Premier Mines Limited .....	0.680	2.846	1.624	5.905	11.055	...	.347	11.402

(a) Exclusive of outside exploration.

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

(c) Included in mining.

Table 32 - Employees and Salaries and Wages Paid By Entire Auriferous Quartz Mining Industry(x), 1926-1945

Year	Wage- earners	Salaried employees	Total employees	Wages paid	Average per capita wages paid	Salaries paid	Total salaries and wages
	No.	No.	No.	\$	\$	\$	\$
1926 .....	7,159	504	7,663	10,941,722	1,528	1,398,901	12,340,623
1927 .....	7,535	487	8,022	11,518,516	1,529	1,417,203	12,935,719
1928 .....	8,458	608	9,066	12,978,628	1,534	1,637,362	14,615,990
1929 .....	8,136	524	8,660	12,715,108	1,563	1,543,625	14,258,733
1930 .....	7,935	466	8,401	12,490,362	1,574	1,544,258	14,034,620
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 .....	29,820	2,731	32,551	54,735,716	1,836	7,415,094	62,150,810
1942 .....	23,517	2,513	26,030	47,409,542	2,016	6,979,330	54,388,872
1943 .....	17,061	1,977	19,038	34,576,891	2,027	6,088,392	40,665,283
1944 .....	15,260	1,966	17,226	31,151,908	2,041	5,871,597	37,023,505
			Male Female			Male Female	
1945 .....	15,807	2,581	17,995 393	31,051,187	1,964	6,200,811 287,523	37,690,177

(x) Including any bonus paid.



Table 33 - Salaries and Wages Paid, Fuel and Electricity Used and Process Supplies Consumed By the Auriferous Quartz Mining Industry, By Provinces, 1929-1945

Year	Nova Scotia		Quebec		Ontario		Manitoba	
	Producing	Non-producing	Producing	Non-producing	Producing	Non-producing	Producing	Non-producing
	\$	\$	\$	\$	\$	\$	\$	\$
1929 ..	39,892	12,376	224,091	186,836	13,641,012	1,052,884	343,248	90,233
1930 ..	16,644	...	403,848	...	14,106,811	286,813	231,474	62,300
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	826,625	512,586
1935 ..	408,422	57,353	4,165,141	1,754,595	30,809,094	1,866,010	1,659,407	312,556
1936 ..	779,767	40,304	6,448,220	2,317,382	35,829,753	3,789,527	1,996,053	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	224,917	34,041,088	836,664	630,069	119,657
Grand Total	57,037,771	302,491	136,674,209	15,054,825	581,567,843	21,946,032	19,057,867	1,860,754

  

Year	Saskatchewan		British Columbia		Northwest Territories		Canada	
	Producing	Non-producing	Producing	Non-producing	Producing	Non-producing	Producing	Non-producing
	\$	\$	\$	\$	\$	\$	\$	\$
1929 ..	...	...	1,018,499	299,143	...	...	15,266,742	1,571,472
1930 ..	...	...	1,273,757	17,078	...	...	16,032,534	366,191
1931 ..	...	...	1,210,309	15,722	...	...	18,588,667	578,824
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	970,666	...	321,305	60,945,606	10,849,835
1938 ..	...	519,791	9,526,363	338,303	531,534	442,035	71,077,324	5,193,841
1939 ..	490,633	4,291	8,963,013	425,451	614,912	162,551	77,594,728	3,048,947
1940 ..	602,534	...	9,094,704	218,225	1,114,420	329,643	81,886,915	2,216,686
1941 ..	726,468	...	9,613,778	152,619	1,649,933	19,966	90,120,713	1,559,615
1942 ..	413,441	...	7,031,550	101,616	2,214,886	...	79,484,536	442,624
1943 ..	80	...	3,771,871	26,010	1,014,302	...	59,632,271	194,531
1944 ..	...	38,060	3,372,009	61,892	363,046	20,946	53,124,137	969,231
1945 ..	...	40,471	3,819,667	213,254	306,536	713,742	50,670,087	2,151,353
Grand Total	2,414,236	1,179,552	86,294,880	5,463,653	7,809,569	2,052,954	839,522,375	47,862,909

Table 34 - Wage-Earners, By Months, In the Entire Auriferous Quartz Mining Industry, 1931, 1940-1945

Month	1931	1940	1941	1942	1943	1944	1945
January .....	8,273	27,823	29,772	26,730	19,332	15,796	15,222
February .....	8,482	28,012	29,765	26,812	19,160	16,001	15,137
March .....	8,681	28,270	29,783	26,451	18,822	16,014	14,887
April .....	8,746	28,295	29,633	26,155	18,123	15,634	14,573
May .....	9,030	28,864	29,869	25,325	17,421	15,314	14,624
June .....	9,319	28,528	29,807	24,938	17,138	15,172	14,873
July .....	9,345	28,741	30,310	23,687	16,743	15,134	15,082
August .....	9,285	28,955	30,158	21,883	16,173	14,837	15,249
September .....	9,391	29,626	30,605	21,246	15,687	14,501	15,746
October .....	9,524	30,106	30,870	20,024	15,241	14,486	16,988
November .....	9,496	30,153	29,567	19,692	15,479	14,786	18,110
December .....	9,323	29,380	27,566	19,192	14,976	14,595	18,170

Table 35 - (A) Employment in Producing Lode Gold Mines in Canada, By Provinces, 1945 and 1946(x)

Month	Quebec		Ontario		British Columbia		Other districts and provinces		Canada	
	1945	1946	1945	1946	1945	1946	1945	1946	1945	1946
January .....	3,593	3,651	10,527	12,716	1,165	1,655	179	322	15,464	18,344
February .....	3,641	3,687	10,379	12,929	1,162	1,679	180	328	15,362	18,623
March .....	3,635	3,658	10,305	13,161	1,210	1,675	176	226	15,326	18,720
April .....	3,456	3,572	10,040	13,111	1,147	1,602	159	290	14,802	18,575
May .....	3,226	3,472	9,927	13,324	1,116	1,366	170	314	14,439	18,476
June .....	3,219	3,342	9,877	13,426	1,045	1,172	170	309	14,311	18,429
July .....	3,181	3,635	10,045	13,455	1,046	297	181	315	14,453	17,702
August .....	3,173	3,573	10,131	13,147	1,063	...	177	333	14,544	17,053
September .....	3,152	3,260	10,551	13,009	1,097	...	178	324	14,978	16,593
October .....	3,339	3,426	11,315	13,199	1,228	...	291	306	16,173	16,931
November .....	3,328	3,437	11,986	13,219	1,400	...	303	335	17,017	16,991
December .....	3,487	3,351	12,265	13,364	1,564	1,172	305	341	17,621	18,228

(A) Mines with 15 or more employees.

(x) Subject to revision.

Table 36 - Employment in Active But Non-Producing Lode Gold Mines in Canada, 1945 and 1946

Month	1945	1946(x)	Month	1945	1946(x)
January .....	622	713	July .....	798	298
February .....	709	804	August .....	924	625
March .....	644	697	September .....	890	615
April .....	753	669	October .....	844	526
May .....	946	695	November .....	978	773
June .....	781	735	December .....	699	157

(x) Subject to revision.

Table 37 - Classification of Wage-Earners Employed in Entire Auriferous Quartz Mining Industry, 1944 and 1945

Province	1 9 4 4					1 9 4 5				
	Number					Number				
	Mine		Mill			Mine		Mill		
	Surface	Under-ground	Male	Female		Surface	Under-ground	Male	Female	
	Male	Female	Male	Female		Male	Female	Male	Female	
Nova Scotia .....	22	...	38	5	...	25	1	41	4	...
Quebec .....	1,075	20	2,376	392	1	1,365	32	2,030	285	...
Ontario .....	2,661	64	6,397	931	...	2,971	68	6,454	881	...
Manitoba .....	52	4	74	15	...	95	6	91	15	...
Saskatchewan .....	14	...	...	...	...	9	1	...	...	...
British Columbia ....	311	31	546	148	...	390	29	619	170	...
Northwest Territories	33	...	23	7	...	182	7	27	4	...
Yukon .....	...	...	...	...	...	5	...	...	...	...
Canada .....	4,188	119	9,454	1,498	1	5,042	144	9,262	1,359	...

Table 38 - Number of Wage-Earners Who Worked the Number of Hours Specified, During One Week in Month of Highest Employment (Includes overtime and any bonus) 1945

	30 hours or less	31-43 hours	44 hours	45-47 hours	48 hours	49-50 hours	51-54 hours	55 hours	56-64 hours	65 hours and over	Grand Total	Total Wages Paid in That Week(x)
Male ....	667	1,504	140	320	12,879	338	882	139	1,902	399	19,170	729,991
Female ..	9	19	6	2	70	3	...	...	10	10	129	3,552

(x) This item includes the actual money wages paid, the value of room and board, where provided, deductions from employees for income tax and for social services, such as sickness, accident, insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. (Includes payments for overtime and any bonus.)



Table 39 - Average Annual, Weekly and Hourly Earnings of Male and Female Wage-Earners in the Producing Auriferous Quartz Mines, 1940-1945

Year	M a l e				F e m a l e			
	Average Earnings			Hours Worked per Week	Average Earnings			Hours Worked per Week
	Annual	Weekly	Hourly		Annual	Weekly	Hourly	
	\$	\$	\$	No.	\$	\$	\$	No.
1940 ..	1,687	33.83	.658	51.4	...	...	...	...
1941 ..	1,840	35.73	.692	51.6	...	...	...	...
1942 ..	2,020	37.56	.732	51.3	1,141	21.23	.425	49.9
1943 ..	2,035	38.97	.776	50.2	1,260	24.13	.487	49.5
1944 ..	2,055	40.39	.818	49.4	1,286	25.27	.513	49.3
1945 ..	2,001	38.12	.795	47.9	1,159	27.64	.593	46.6

Table 40 - Cost of Prospecting Conducted By Canadian Auriferous Quartz Mining Companies, 1944 and 1945

Province prospect- ing was conducted in - (a)	By	By	By	By	By	By Yukon	Total
	Quebec	Ontario	Manitoba	Saskatchewan	British	and Northwest	
	companies	companies	companies	companies	Columbia	Territories	
	(b)	(b)	(b)	(b)	companies(b)	companies	
	\$	\$	\$	\$	\$	\$	\$
<u>1 9 4 4</u>							
Nova Scotia .....	...	...	...	...	...	...	...
New Brunswick .....	...	...	...	...	...	...	...
Quebec .....	503,901	80,056	...	...	...	...	583,957
Ontario .....	81,406	437,265	4,932	...	6,733	...	530,336
Manitoba .....	5,869	3,310	...	...	12,176	...	21,355
Saskatchewan .....	...	...	...	...	...	...	...
British Columbia ....	...	12,815	...	...	117,701	...	130,516
Northwest Territories	95	...	...	...	1,563	46,837	48,495
Yukon .....	...	...	...	...	4,961	...	4,961
Total Canada ...	591,271	533,446	4,932	...	143,134	46,837	1,319,620
<u>1 9 4 5</u>							
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

(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 41 - Specified Taxes Paid by Active Canadian Auriferous Quartz Mines in 1944 and 1945 By Provinces(x)

Nature of Tax	Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories	Canada
	\$	\$	\$	\$	\$	\$	\$
<u>1 9 4 4</u>							
Dominion Income Tax, in- cluding tax on non- operating revenue .....	...	467,394	3,568,048	112,499	221,954	29,538	4,399,433
Dominion Excess Profits Tax .....	...	433,886	3,422,893	211,655	256,872	23,914	4,349,220
Provincial taxes .....	561	241,873	646,464	...	106,401	4,677	999,976
Municipal taxes .....	938	122,090	194,250	...	16,847	1,937	336,062
Total All Specified Taxes	<u>1,499</u>	<u>1,265,243</u>	<u>7,831,655</u>	<u>324,154</u>	<u>602,074</u>	<u>60,066</u>	<u>10,084,691</u>
<u>1 9 4 5</u>							
Dominion Income Tax, in- cluding 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 All Specified Taxes	<u>1,706</u>	<u>1,382,103</u>	<u>6,018,831</u>	<u>179,161</u>	<u>589,724</u>	<u>69,374</u>	<u>8,240,399</u>

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

Table 42 - Certain Specified Expenditures Made By Auriferous Quartz Mining Companies, 1942-1945

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
	\$	\$	\$	\$	\$	\$
Nova Scotia 1942	4,413	...	958	13,624	5,400	(x)
1943	5,032	...	1,000	28,508	6,000	(x)
1944	4,511	...	935	30,108	5,290	...
1945	4,309	...	1,191	21,732	6,204	200
Quebec .... 1942	356,993	3,733	70,804	6,156,189	1,294,283	(x)
1943	276,270	3,864	65,393	4,985,946	392,997	(x)
1944	268,668	604	54,237	4,486,519	484,699	514,139
1945	333,339	446	52,076	4,873,803	840,504	1,166,339
Ontario ... 1942	852,379	746,827	227,966	16,490,839	1,907,407	(x)
1943	679,519	562,053	194,002	12,687,037	532,737	(x)
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
Manitoba .. 1942	29,554	7,003	4,988	459,890	34,674	(x)
1943	20,561	4,920	3,264	263,082	18,646	(x)
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
Saskatchewan 1942	(x)	(x)	(x)	(x)	(x)	(x)
1943	(x)	(x)	(x)	(x)	(x)	(x)
1944	379	...	197	8,820	20,000	25,660
1945	587	...	284	2,160	16,596	11,237
British Columbia 1942	138,086	139,043	22,748	1,863,036	83,257	(x)
1943	104,921	104,816	18,092	1,112,819	28,307	(x)
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
Northwest Territories 1942	17,485	...	3,788	1,034,559	118,045	(x)
1943	17,206	...	2,575	451,798	573,969	(x)
1944	6,191	...	850	178,193	18,532	8,852
1945	16,854	43	3,679	611,511	164,474	344,443
Yukon ..... 1945	1,014	690	16	2,822	...	...
Total Canada 1942	1,398,910	896,606	331,252	26,018,137	3,443,066	(x)
1943	1,103,509	675,653	284,326	19,529,190	1,552,656	(x)
1944	1,036,892	370,626	226,817	17,799,777	1,142,664	980,283
1945	1,135,291	386,659	218,346	19,247,168	1,942,011	3,055,386

(x) Data not available.

Table 43 - Drilling Completed On Auriferous Quartz Deposits in 1944 and 1945

	Footage Drilled (a)	
	1944	1945
Diamond drilling for exploration (testing) -		
By companies with their own equipment and personnel .....	513,333	591,243
By contractors .....	1,648,418	4,011,223
Other drilling -		
Diamond drilling for breaking rock or ore -		
By companies with their own equipment and personnel ....	83,672	134,555
By contractors .....	444,859	420,519
Diamond by percussion and other machines (b) .....	17,830,270	14,649,301

(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.

\$157,144.

The value of diamonds in all forms (bits, etc.) purchased by gold mining companies in 1945 totalled



Table 44 - Dividends Paid and Ore Reserves of Specified Canadian Gold Mining Companies

Name of Firm	Dividends Paid		Estimated Ore Reserves <sup>(4)</sup>		Year of First Production
	During 1945	Total to Dec. 31, 1945	Total	Average ounces fine gold per ton	
	\$	\$	tons		
<u>Quebec -</u>					
Beattie Gold Mines (Quebec) Limited ...	...	4,435,023	3,778,400	0.130	1933
Belleterre Quebec Mines Limited .....	150,000	150,000	600,923(i)	0.325(1)	1936
Canadian Malartic Gold Mines Limited ..	146,054	2,153,074	1,820,000	0.121	1935
East Malartic Mines Limited .....	...	2,200,000	2,665,800	0.202	1938
Francoeur Gold Mines Limited .....	...	208,884	230,400	0.187	1938
Lamaque Mining Company Limited .....	459,015	9,216,536	2,558,943	0.213	1935
Malartic Gold Fields Limited .....	...	400,000	( 264,340	( 0.16	1939
			(2,336,040	( 0.22	
Mic-Mac Mines Limited .....	...	...	(x)	(x)	1942
O'Brien Gold Mines Limited .....	162,500	1,625,000	199,142(k)	0.449	1926
Perron Gold Mines Limited .....	200,000	2,300,000	200,934	0.1867	1933
Powell Rouyn Gold Mines Limited .....	...	287,500	346,637	0.139	1937
Senator-Rouyn Limited .....	...	102,250	350,000	0.1643	1940
Sigma Mines (Quebec) Limited .....	600,000	3,450,000	1,349,700	0.209	1937
Siscoe Gold Mines Limited .....	69,601	8,232,803	86,505	0.139	1929
Sladen-Malartic Mines Limited .....	...	...	509,000	0.1123	1938
Stadacona Rouyn Mines Limited .....	...	...	539,341	0.162	1936
Sullivan Consolidated Mines Limited ...	...	2,240,000	629,550	0.2535	1934
West Malartic Mines Limited .....	...	...	(x)	(x)	1942
<u>Ontario -</u>					
<u>Porcupine District</u>					
Aunor Gold Mines Ltd. ....	400,000	1,800,000	601,900	0.347	1940
Bonetal Gold Mines Ltd. ....	...	...	(x)	(x)	1941
Broulan Porcupine Mines Ltd. ....	53,880	1,091,071	245,000	0.18	1939
Buffalo Ankerite Gold Mines Ltd. (a) ..	35,084	2,763,009	244,556	0.205	1932
Coniaurum Mines Ltd. (b) .....	221,339	3,227,751	81,047(h)	0.295	1928
Delnite Mines Ltd. ....	...	625,541	38,055(h)	0.162	1937
Dome Mines Ltd. ....	2,336,002	60,877,874	2,412,000	...	1910
Hallnor Mines Ltd. ....	600,000	6,100,000	515,352	0.37	1938
Hollinger Cons. Gold Mines Ltd. (Timmins) .....	2,263,200	120,812,800	7,509,863	0.324	1910
Hollinger Cons. Gold Mines Ltd. (Ross). ....	...	...	587,433	0.221	1936
Hoyle Gold Mines Ltd. ....	...	...	1,200,000	0.105	1941
McIntyre Porcupine Mines Ltd. ....	2,657,340	38,384,146	600,923(i)	0.325	1912
Pamour Porcupine Mines Ltd. ....	250,000	3,550,000	1,163,100	0.1088	1936
Paymaster Cons. Mines Ltd. (c) .....	86,291	690,325	575,419(j)	0.222	1934
Preston East Dome Mines Ltd. ....	540,000	3,840,000	...	...	1938
<u>Kirkland Lake District</u>					
Bidgood Kirkland Gold Mines Ltd. ....	...	...	(x)	(x)	1934
Kirkland Lake Gold Mining Co. Ltd. ....	213,068	4,360,011	364,384	...	1919
Lake Shore Mines Ltd. ....	1,600,000	94,020,000	(x)	(x)	1918
Macassa Mines Ltd. ....	321,368	7,129,551	412,600	0.444	1933
Sylvanite Gold Mines Ltd. ....	395,940	...	53,538(h)	...	1927
Teck-Hughes Gold Mines Ltd. ....	721,072	41,171,295	281,472	0.344	1917
Toburn Gold Mines Ltd. (d) .....	55,500	2,312,500	72,600	0.525	1913
Upper Canada Mines Ltd. ....	148,151	1,570,397	(x)	(x)	1938
Wright-Hargreaves Mines Ltd. ....	1,100,000	43,532,500	990,739	0.47	1913
<u>Larder Lake District</u>					
The Chesterville Larder Lake Gold Mining Co. Ltd. ....	...	442,568	325,200	0.13	1939
Kerr-Addison Gold Mines Ltd. (f) .....	1,419,090	8,514,542	8,379,951	0.1975	1938
Omega Gold Mines Ltd. (e) .....	...	...	155,457(i)	0.144	1936
<u>Matachewan District</u>					
Hollinger Cons. Gold Mines Ltd. (Young-Davidson) .....	...	277,219	(x)	(x)	1934
Matachewan Consolidated Mines Ltd. ....	...	68,600	811,127	0.11	1934

Table 44 - Dividends Paid and Ore Reserves of Specified Canadian Gold Mining Companies (Concluded)

Name of Firm	Dividends Paid		Estimated Ore Reserves(x)		Year of First Production
	During 1945	Total to Dec. 31, 1945	Total	Average ounces fine gold per ton	
	\$	\$	tons		
<u>Ontario (Con.) -</u>					
<u>Sudbury District</u>					
Jerome Gold Mines Ltd. ....	...	...	344,000(j)	0.19	1941
<u>Thunder Bay District</u>					
Hard Rock Gold Mines Ltd. ....	...	926,923	149,000(o)	0.2707	1938
Leitch Gold Mines Ltd. ....	232,400	1,687,153	168,056	0.845	1936
Little Long Lac Gold Mines Ltd. ....	92,050	3,903,325	424,397	0.306	1934
MacLeod-Cockshutt Gold Mines Ltd. ....	...	1,424,145	513,266(g)	0.225	1938
<u>Patricia District</u>					
Berens River Mines Ltd. ....	...	420,000	39,000	0.25	1939
Cochenaour Willans Gold Mines Ltd. ....	...	975,846	(x)	(x)	1939
Central Patricia Gold Mines Ltd. ....	300,000	4,050,000	415,661	0.34	1934
Hasaga Gold Mines Ltd. ....	...	...	190,777	0.1524	1938
Madsen Red Lake Gold Mines Ltd. ....	279,962	1,293,625	797,290(p)	0.203	1938
McMarnac Red Lake Gold Mines Ltd. ....	...	82,000	(x)	(x)	1940
McKenzie Red Lake Gold Mines Ltd. ....	...	2,873,840	(x)	(x)	1935
Pickle Crow Gold Mines Ltd. ....	300,000	8,250,000	695,095	0.377	1935
<u>Manitoba -</u>					
San Antonio Gold Mines Ltd. ....	478,224	4,752,641	740,000	(x)	1932
<u>British Columbia -</u>					
Bralorne Mines Limited ....	1,247,000	13,831,450	1,088,000	0.503	1932
Cariboo Gold Quartz Mining Co. Limited	...	1,629,968	322,250	0.382	1933
Hedley Mascot Gold Mines Limited ....	...	1,290,556	(x)	(x)	1936
Island Mountain Mines Co. Limited ....	73,550	1,108,494	62,800	0.473	1934
Kelowna Exploration Co. Limited (r) ...	210,000	1,560,000	(x)	(x)	1935
Pioneer Gold Mines of B.C. Limited ....	...	9,301,793	187,940(i)	0.427	1928
Privateer Mine Limited (inc. Prident) .	...	1,914,183	33,956	0.40	1937
Sheep Creek Gold Mines Limited ....	225,000	2,587,500	97,886	0.365	1935
Silbak Premier Mines Limited (s) ....	50,000	2,350,000	77,156	0.25	1937
<u>Northwest Territories -</u>					
Negus Mines Ltd. ....	49,925	499,250	36,300(q)	0.614	1939

(a) Acquired Ankerits in 1932 and Marbuan in 1935.

(b) Acquired Newray in 1924.

(c) A merger in 1930 of West Dome Lake, Dome Lake Gold and United Mineral Lands Corp. (Paymaster).

(d) Toburn Gold Mines acquired Tough-Oakes-Burnside in 1931.

(e) Acquired properties from Canadian Reserves and Proprietary Mines in 1935.

(f) Small production at Reddick Mine prior to 1918.

(g) September 30, 1945.

(h) Broken ore.

(i) March 31, 1946.

(j) June 30, 1945.

(k) October 1, 1945.

(l) March 31, 1946.

(m) August 31, 1945.

(n) Additional 101,662 tons in pillars, average 0.448 oz.

(o) After sorting.

(p) February 28, 1946 - additional 80,000 tons at 0.24 oz.

(q) Additional 11,000 tons possible ore average 0.572 oz.

(r) Purchased Hedley Gold property 1933; previous production dates to 1898.

(s) Premier Gold production dates to 1919.

(x) Data not available.

(f) 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, 1945

The mining of "copper-gold-silver" ores in Canada during 1945 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 1945 were reported by 38 firms compared with 23 in 1944 and 20 in 1943. The gross value of crude ore, concentrates, etc., shipped in 1944 from the mines and mills to smelters was estimated at \$59,299,872; the cost of fuel, purchased electricity, process supplies, freight and treatment totalled \$21,134,603 and the net value of shipments was computed at \$38,165,269. Employees in 1945 totalled 4,658 compared with 5,175 in 1944 and 5,748 in 1943.

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 1,109 feet of drifting, 1,044 feet of raising and 51,700 feet of exploratory diamond drilling was done. Except for diamond drilling, underground exploration work had to be practically stopped due to the acute shortage of miners. The diamond drilling was in the nature of filling in between more widely spaced holes drilled in previous years and no new information of particular significance was obtained. Following a magnetometer survey on the ice over an area of about 280 acres, part of which is adjacent on the east to property of Quemont Mining Corporation, Ltd., three diamond drills have been placed in operation to determine whether the geological conditions disclosed on the adjoining Quemont claim extend over unto our property and for the purpose of further exploration of our ground known as the Adsit claim.

"During 1945 the smelter treated 923,091 tons of ore, concentrate and slag, including 291,577 tons of custom ores and concentrates, and produced 106,292,352 pounds of anodes. After deducting the copper, gold and silver, which was recovered from slags received from various shippers, the estimated production of new metals was 102,323,546 pounds of fine copper, 226,095 ounces of gold and 1,149,970 ounces of silver. The estimated recovery from Horne Mine, ore and concentrate, was 53,565,532 pounds of copper, 174,217 ounces of gold and 439,330 ounces of silver.

"During the year under review the concentrator treated 858,523 tons of ore from the Horne Mine, from which 153,789 tons of copper-gold concentrate were produced and sent to the smelter. The cyanide mill treated 161,087 tons of pyrite from the flotation circuit tailing, from which 13,658 ounces of gold were recovered. 156,482 tons of pyrite were recovered from the cyanide mill tailing and sold to chemical plants."

Normetal Mining Corporation Limited - "Average daily tonnage was 559, an increase of 29 tons per day over the previous year. All concentrates were shipped as produced, the copper to Noranda Smelter, the zinc to smelters in the United States. Following is summary of development work done during the year: Drifts, 2,087 feet; crosseuts, 1,400 feet; raises, 858 feet; stations and pockets, 59 feet; diamond drilling (underground), 8,947 feet.

"Most of the lateral work was done on the 2300-foot, the 2750-foot and the 3200-foot levels. A total of 207,365 tons of ore was broken. Of this amount, 200,253 tons came from filled square-set stopes and stope preparation work, and the balance from development leadings. Slightly more than 80% of all ore hoisted was mined in stopes above the 2150-foot level. Back-fill amounting to 50,845 tons was placed."

Queamont Mining Corporation Limited - "At the end of March, when ice conditions forced the drills off Osisko Lake, a total of 60,136 feet had been drilled since the start of surface diamond drilling in 1944. Of that total 25,607 feet were angle holes drilled largely from the shore while 34,529 feet were vertical holes drilled from the ice and the adjoining point of land. A number of the vertical holes were drilled for the purpose of finding a suitable shaft site at sufficient distance from any known ore body.

"During 1945 the old two-compartment shaft was rehabilitated and the necessary plant and equipment installed to resume underground work. The 200 level was extended in the direction of the ore indicated by surface diamond drilling. As the orebodies are flat lying, the 200 level is well situated to fully outline and develop the western part of the orebody which is largely below that level. By the middle of April 3,050 feet of driving and 8,377 feet of diamond drilling had been completed on the 200-foot level.

"The 900-foot level was also advanced for the purpose of prospecting below the already indicated upper ore areas. By the middle of April, 1806 feet of driving and 1,968 feet of diamond drilling had been completed on this level."

Waite Amulet Mines Limited - "A number of vertical holes were drilled in the area to the west and southwest of the Waite number two shaft. No commercial ore was found. Due to low footage drilled during the past year, at least another year's drilling will be required to complete the exploration of this part of the property. No drilling was done from surface on the Amulet Section. A number of holes were drilled vertically from the 1,000-foot level of the Amulet Dufault. Results were inconclusive and more deep drilling will have to be done below Lower "A" Orebody. Ore hoisted at the Waite Mine was 59,957 tons, at "C" shaft 50,185 tons, from Amulet Dufault 407,771 tons."

#### Manitoba and Saskatchewan

Hudson Bay Mining and Smelting Co. Limited - "Labour shortages continued throughout most of the year, but there was some easement toward the end of the year as former employees began returning from the armed forces. There were 1,822,628 tons of ore milled during the year, of which 36.6 percent was hoisted through the north shaft and 63.4 per cent through the south main shaft. The tonnage of ore milled was lower than for any year since 1939, but the production of blister copper was higher than in any other years except 1943 and 1944, and slab zinc production was higher than in any year prior to 1941. Production of gold, silver and cadmium was lower than it has been for a number of years.

The tonnages and average assay values of Hudson Bay concentrates and ores smelted and the tonnage of custom concentrates treated were as follows: Tons H.B. concentrates and ores 378,144, assay values per ton, Au. ozs., 0.317, Ag. ozs., 4.29, Cu % 11.36, tons custom concentrates 54,630."

Sherritt Gordon Mines Limited - "Of the 646,092 tons of ore mined and milled approximately 56% of the tonnage from the West Mine came from between the 8th and 6th levels. Some pillar recovery was carried on in the eastern section of the West Mine between 3rd and 1st levels, including one pillar in the section in which the worked out stopes had been filled with mill tailings. This surface pillar, which had been drilled during the previous summer, produced a large tonnage per man shift and this was a great factor in being able to maintain a higher tonnage than would otherwise have been possible during a period of labor shortage through the summer months. Very little ore was mined from the East Mine underground stopes during the summer but this work was resumed when winter weather conditions prohibited further work from surface.

"The details of mill operations are shown in the following summary. Total dry tons milled 646,092, tons per calendar day 1,770.1. Assays of feed, Cu % 2.26, Zn % 2.34, Au oz., 0.0181, Ag. oz. 0.539. Assays of concentrate, Cu % 24.76, Zn % 48.94, Au oz. 0.138, Ag oz. 4.65. Throughout the year the mill operated an average of approximately five days per week, which left one day a week for repair and maintenance work "



British Columbia

Britannia Mining and Smelting Co. Limited - "The Britannia property again was forced to operate with a greatly depleted force during the year. Employment was at a very low level during the summer months but increased rapidly during the last quarter, and at the end of December was at about 65% of normal. The men who are available are, for the most part, inexperienced as miners and can only be absorbed as they can be trained. Production remained low throughout the year and an adequate amount of development must be caught up before ore output can be increased. Most of the exploratory work during 1945 was in connection with the development of the No. 8 ore body and results have confirmed estimates which were made previously, after diamond drilling. It is anticipated that there will be a gradual but steady improvement in production from this property during 1946. Copper concentrate was sold currently, as produced. The price of copper remained unchanged throughout the year."

Granby Consolidated Mining, Smelting and Power Co. Limited - During the year 786,026 tons of ore were mined and 785,629 tons were milled at the property located at Copper Mountain. The milled ore produced 26,122 dry tons of concentrates which contained 4,621 oz. of gold, 93,387 oz. of silver and 14,274,925 lbs. of copper. The concentrates were exported to Tacoma, Washington.

Table 45 - Principal Statistics (x) of the Copper-Gold-Silver Mining Industry in Canada for Specified Years

Year	No. of active opera- tors(x)	No. of operating plants or mines (x)	Capital employed (x) \$	(x) Number of em- ployees	(x) Salaries and wages \$	(x) Cost of fuel and electricity \$	Value of ores and concen- trates shipped by mines \$
1935 .....	16	18	38,461,682	3,430	5,040,196	534,152	13,243,163
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(a)	(b)	5,175	10,710,071	1,402,243	38,198,039
1945 .....	38	41(c)	(b)	4,658	9,663,612	1,175,916	38,165,269

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

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

(a) 15 producing.

(b) Not reported.

(c) 13 producing.

Note - The cost of fuel, purchased electricity and process supplies was deducted beginning 1935; however, values for all years 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 46 - Shipments From Copper-Gold-Silver Mines of Canada, 1944 and 1945

Quantity tons	Value \$	Total Metal Content as Determined by Settlement Assay (c)					
		Gold fine oz.	Silver fine oz.	Copper pounds	Sulphur tons	Zinc pounds	
1944							
12 mines shipped to Canadian plants (a) -							
Ores .....	530,579	7,438,664	79,516	508,091	35,392,376	...	...
Copper concentrates .....	757,837	33,233,915	253,193	3,061,569	204,189,160	...	...
Zinc concentrates .....	149,522	5,190,289	8,318	227,036	1,508,641	...	137,386,498
Iron pyrites concentrates ..	68,064	142,617	...	...	...	33,178	...
Slags, residues, bullion, and gold precipitates ....	366	1,411,241	34,625	193,697	266,486	...	...
11 mines shipped to foreign plants -							
Ores .....	...	...	...	...	...	...	...
Copper concentrates .....	84,920	5,676,914	18,194	306,198	39,940,660	...	(d) 943,067
Zinc concentrates .....	125,465	8,837,074	421	11,575	...	...	128,873,442
Iron pyrites concentrates ..	182,007	352,405	...	...	...	88,595	...
Copper precipitate .....	570	106,696	3	69	705,277	...	...
Total .....	1,899,330	62,389,815	394,270	4,308,235	282,002,600	121,773	266,259,940
Value of process supplies, etc. (b) .....	...	24,191,776	...	...	...	...	...
Net Value .....	...	38,198,039	...	...	...	...	...
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 precipitates 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	...	...	...	...	...

(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, thallium, tellurium and selenium are recovered from these ores.

(d) Lead.



Table 47 - Content of Ores, Concentrates, Etc., Shipped From Copper-Gold-Silver Mines, 1940-1943

		C o n t e n t				
	Tons	Gold	Silver	Copper	Zinc	Sulphur
		fine oz.	fine oz.	pounds	pounds	tons
<u>To Canadian Smelters</u>						
1940 - Copper ore .....	860,237	156,857	372,408	35,648,576	...	...
Copper concentrates ....	768,833	258,692	3,514,614	208,421,117	2,492,666	...
Zinc concentrates .....	108,328	5,250	185,406	954,803	102,169,600	...
Pyrites .....	36,308	...	...	...	...	17,619
Slag, precipitates, etc.	566	23,739	120,970	530,712	...	...
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	...
Pyrites .....	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	...
Pyrites .....	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	...
Pyrites .....	65,395	...	...	...	...	32,116
Slag, precipitates, etc.	198	36,749	240,302	151,001	...	...
<u>To Foreign Smelters</u>						
1940 - Copper ore .....	11	11	949	2,234	...	...
Copper concentrates ....	159,316	39,952	492,352	78,778,442	...	...
Zinc concentrates .....	30,389	456	45,552	444,808	32,558,961	...
Pyrites .....	91,457	...	...	...	...	45,502
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	...
Pyrites .....	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	...
Pyrites .....	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	...
Pyrites .....	219,181	...	...	...	...	107,339

Table 48 - Classification of Wage-Earners Employed in the Copper-Gold-Silver Mining Industry, By Provinces 1943-1945

Year	Surface		Underground		Mill		Total	
	Male	Female	Male		Male	Female	Male	Female
Total Canada 1943 .....	1,680	84	2,604		654	71	4,938	155
Total Canada 1944 .....	1,389	145	2,254		689	76	4,332	221
<u>1945</u>								
Quebec .....	403	10	845		196	19	1,444	19
Ontario .....	6	1	...		...	...	6	1
Manitoba .....	218	25	375		70	6	663	31
Saskatchewan .....	473	20	352		115	23	940	43
British Columbia .....	214	29	347		272	14	833	43
Total Canada ....	1,314	85	1,919		653	62	3,887	147

Table 49 - Number of Wage-Earners Who Worked the Number of Hours Specified, During One Week in Month of Highest Employment, 1945, in Copper-Gold-Silver Mining Industry

	30 hours or less	31-43 hours	44 hours	45-47 hours	48 hours	49-50 hours	51-54 hours	55 hours	56-64 hours	65 hours and over	Grand total	Total wages paid in that week (x) \$
Male .....	193	631	305	105	2,269	100	380	110	282	88	4,463	172,556
Female .....	12	11	13	...	77	...	4	3	3	2	125	3,047

(x) Includes the actual money wages paid, the value of room and board, where provided, deductions from employees for income tax and for social services, such as sickness, accident, insurance, pensions, etc., as well as any other allowances forming part of the employees' wages. (Includes payments for overtime).

Table 50 - Average Annual, Weekly and Hourly Earnings of Male and Female Wage-Earners in the Entire Copper-Gold-Silver Mining Industry, 1940-1945

Year	Average Earnings			Hours worked per week	Average Earnings			Hours worked per week
	M a l e				F e m a l e			
	Annual	Weekly	Hourly		Annual	Weekly	Hourly	
	\$	\$	cents	No.	\$	\$	cents	No.
1940 .....	1,679	31.84	63.3	50.3	...	...	...	...
1941 .....	1,736	33.88	67.8	50.0	...	...	...	...
1942 .....	1,904	37.53	77.2	48.6	...	...	...	...
1943 .....	1,983	38.29	79.1	48.4	1,424	27.51	59.3	46.4
1944 .....	1,999	38.90	82.6	47.1	1,313	25.54	55.0	46.4
1945 .....	2,000	38.66	82.2	47.1	1,325	24.37	54.2	44.9

Table 51 - Specified Data Relating To the Copper-Gold Silver Mining Industry, 1930-1945(x)

Year	Wage- earners No.	Wages paid \$	Average per capita wages paid \$ (x)	Salaried employees No.	Salaries paid \$	Total salaries and wages \$
<b>Producing Mines</b>						
1930 .....	4,634	7,394,741	1,596	195	536,482	7,931,223
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
Total ....		115,040,374			16,284,059	131,324,433

## Non-Producing Mines

Year	Wage- earners No.	Wages paid \$	Average per capita wages paid \$ (x)	Salaried employees No.	Salaries paid \$	Total salaries and wages \$
<b>Non-Producing Mines</b>						
1930 .....	775	1,037,743	...	90	187,793	1,225,536
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
Total ....		5,018,071			1,197,496	6,215,567

(x) Not including smelters or refineries.

(x) Including any bonus paid.



Table 52 - Specified Data Relating To the Copper-Gold-Silver Mining Industry, 1930-1945 (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.	\$
1930 .....	124,395,046	1,173,447	9,300	(c)	(c)	(c)	731,964	98,815	690	(c)
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	...	...
Total ..	2,983,269,902	15,196,088	...	53,647,952	10,891,870	161,896,806	15,723,887	373,951	...	257,557

(a) Not including smelters or refineries.

(b) Partly conjectural.

(c) Not available.

Table 53 - Details of Fuel and Electricity Used in the Copper-Gold-Silver Mining Industry, 1944 and 1945

Kind	Unit of measure	1 9 4 4		1 9 4 5	
		Quantity	Cost at plant \$	Quantity	Cost at plant \$
Bituminous coal (a) From Canadian mines	short ton	9,494	90,950	8,068	75,861
(b) Imported .....	short ton	997	13,170	2,056	28,470
Anthracite coal (a) From United States	short ton	61	1,110	65	1,190
(b) Other .....	short ton	...	...	...	...
Lignite coal .....	short ton	66,680	280,991	53,487	198,811
Coke (for fuel only) .....	short ton	300	4,747	94	1,589
Gasoline .....	Imp.gal.	93,574	32,159	93,804	31,184
Kerosene or coal oil .....	Imp.gal.	6,089	1,441	10,096	1,851
Fuel oil and diesel oil .....	Imp.gal.	689,219	95,526	813,998	106,893
Wood (cords of 128 cu.ft. of piled wood)	cord	673	5,140	268	1,349
Other fuel (charcoal) .....	pound	8,889	200	3,305	75
Electricity purchased, including service charges .....	K.W.H.	262,411,942	876,809	244,000,533	728,643
Total .....	...	...	1,402,243	...	1,175,916
Electricity generated for own use .....	K.W.H.	79,749,693	...	64,002,589	...
Electricity generated for sale .....	K.W.H.	6,493,151	46,799	427,991	6,431
Process supplies consumed (explosives, etc.) .....	...	...	5,170,581	...	4,917,595
Grand Total Value of Fuel and Process Supplies Consumed .....	...	...	6,572,824	...	6,093,511

Table 54 - Power Equipment (Including stand-by or emergency equipment) In the Copper-Gold-Silver Mining Industry in Canada, 1945

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	10,000	3	7,500
Diesel engines .....	17	4,226	3	710
Gasoline, gas and oil engines, other than Diesel engines	20	647	2	245
Hydraulic turbines or water wheels .....	6	8,900	...	...
Electric motors (except motor-generator sets) -				
(a) Operated by purchased power .....	2,775	105,373	193	3,901
Total .....	2,819	129,146	201	12,356
(b) Operated by power generated by above primary units	574	18,238	37	2,034
Stationary boilers .....	25	3,898	6	882
Motor-generator sets .....	94	28,305	8	431

Table 55 - Taxes Paid By the Copper-Gold-Silver Mining Industry in Calendar Years 1944 and 1945

	1 9 4 4	1 9 4 5
	\$	\$
Dominion Income Tax, including tax on non-operating revenue	3,432,927	3,245,130
Dominion Excess Profits Tax .....	5,731,452	6,086,445
Provincial Tax .....	1,289,936	1,617,992
Municipal Tax .....	179,045	305,760
Grand Total Taxes Paid .....	10,633,360	11,255,327



Table 56 - Specified Expenditures By the Copper-Gold-Silver Mining Industry, 1943-1945

	1 9 4 3	1 9 4 4	1 9 4 5
	\$	\$	\$
Workmen's Compensation .....	423,422	409,782	412,603
Silicosis assessment .....	119,982	86,744	96,004
Unemployment insurance .....	84,818	75,832	66,238
Aggregate cost of all supplies purchased .....	9,466,714	6,065,754	8,314,676
Aggregate cost of plant and equipment purchased ....	1,514,959	989,675	434,764
Cost of buildings, machinery and equipment erected or installed during year .....	(x)	1,304,542	424,066

(x) Not recorded.

Table 57 - Cost of Prospecting Conducted By the Copper-Gold-Silver Mining Industry, By Provinces, 1944 and 1945

Conducted in -	1944	1945	Conducted in -	1944	1945
	\$	\$		\$	\$
Nova Scotia .....	2,463	1,769	Saskatchewan .....	...	2,875
New Brunswick .....	4,245	4,525	British Columbia .....	11,128	93,139
Quebec .....	34,602	35,687	Yukon .....	22,642	...
Ontario .....	84,935	145,736	Northwest Territories .	...	1,399
Manitoba .....	36,589	87,905	Total .....	196,604	373,035

Table 58 - Dividends Paid By Specified Copper-Gold-Silver Mining Companies

Name of Firm	Dividends paid in 1945	Total dividends paid to December 31, 1945
	\$	\$
Noranda Mines Ltd. ....	8,959,088	107,173,100
Waite Amulet Mines Ltd. ....	2,475,000	10,395,000
Amulet Dufault Mines Ltd. ....	2,112,000	9,856,000
Sherritt Gordon Mines Ltd. ....	293,722	2,702,239
Hudson Bay Mining & Smelting Co. Ltd. ....	5,515,946	52,401,487
Britannia Mining & Smelting Co. Ltd. ....	...	11,511,448
Granby Cons. Mining, Smelting & Power Co. Ltd. ....	74,964	11,870,214

Table 59 - Ores Mined, Milled, and Concentrates Produced By the Copper-Gold-Silver Mining Industry, 1930-1945

Year	Ore mined	Ore milled	Copper concentrates produced (f)	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	8,325,979	930,622	126,346	172,500	34,914,051(b)
1941 .....	9,263,071	8,402,656	974,250	187,622	309,050	36,990,853(b)
1942 .....	8,575,626	7,816,813(d)	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(e)	870,726	276,737	257,423	44,770,863(b)
1945 .....	5,914,580	5,441,121(g)	730,724	229,980	228,618	44,258,780(b)
Total 16 Years	110,927,824	98,077,805	11,007,743	2,328,193	2,516,746	465,471,603

Footnotes on Page 47.

## Footnotes to Table 59 -

- (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) In addition 1,554,164 tons of tailings were retreated.
- (e) In addition 1,440,216 tons of tailings were retreated.
- (f) Exclusive of copper precipitate in 1943, 1944 and 1945.
- (g) In addition 1,403,457 tons of tailings were retreated.

Table 60 - Canadian Silver Production According to Nature of Ores, By Provinces, 1945

Province	Crude placer gold	Auriferous quartz ores	Copper- gold-silver ores	Nickel- copper ores (ounces)	Silver- lead-zinc ores	Silver- cobalt and other ores	Total
Nova Scotia .....	...	112	...	...	...	...	112
Quebec .....	...	113,757	1,182,343	...	853,470	...	2,149,570
Ontario .....	...	973,891	...	1,735,143	...	476,335	3,185,369
Manitoba .....	...	6,036	527,847	...	...	...	533,883
Saskatchewan .....	...	...	1,426,457	...	...	...	1,426,457
Alberta .....	1	...	...	...	...	...	1
British Columbia ..	2,266	113,239	132,304	...	5,372,514	...	5,620,323
Northwest Territories	...	2,033	...	...	...	...	2,033
Yukon .....	6,282	...	...	...	...	18,876	25,158
Canada .....	8,549	1,209,068	3,268,951	1,735,143	6,225,984	495,211	12,942,906

Table 61 - Canadian Copper Production (Recoverable) According to Nature of Ore and By Provinces, 1942-1945

Province and Year	From copper- gold-silver ores pounds	From nickel- copper ores pounds	From gold and other ores pounds	Total pounds
1942 - Quebec .....	140,528,789	...	383,087	140,911,876
Ontario .....	...	307,888,875	393,539	308,282,414
Manitoba .....	47,595,586	...	...	47,595,586
Saskatchewan .....	56,781,466	...	...	56,781,466
British Columbia .....	49,600,818	...	414,703	50,015,521
Northwest Territories .	...	...	74,963	74,963
Total Canada ...	294,506,659	307,888,875	1,266,292	603,661,826
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
Northwest Territories .	...	...	...	...
Total Canada ...	234,581,093	239,450,083	882,876	474,914,052



Table 62 - Production of Refined Copper(x) in Canada, 1931-1945

Year	Short tons	Year	Short tons
1931 .....	92,183	1938 .....	227,240
1932 .....	90,077	1939 .....	231,684
1933 .....	112,245	1940 .....	261,878
1934 .....	149,261	1941 .....	278,224
1935 .....	173,290	1942 .....	268,447
1936 .....	191,595	1943 .....	251,495
1937 .....	215,080	1944 .....	256,244
		1945 .....	237,457

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

Table 63 - Drilling Completed on Copper-Gold-Silver Deposits in Canada, 1944 and 1945

	Footage Drilled	
	1944	1945
<u>Diamond drilling for exploration (testing only) -</u>		
By mining companies with their own personnel and equipment ..	97,961	76,089
By diamond drilling contractors .....	149,881	319,515
<u>Other diamond drilling -</u>		
<u>Elast hole diamond drilling -</u>		
By mining companies with their own personnel and equipment	811,609	517,940
By diamond drilling contractors .....	139,552	310,446
<u>Drilling by percussion or other machines .....</u>	3,221,786(x)	3,778,401

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

Table 64 - Ore Reserves of Specified Copper-Gold-Silver Mining Companies (x)

	Tons	Copper Per cent	Zinc Per cent	Gold Ounces per ton	Silver Ounces per ton
<u>Noranda Mines Ltd., January 1, 1946:</u>					
Indicated above the 2,975 foot level -					
Sulphide ore over 4 per cent copper .....	5,127,000	7.08	...	0.148	(a)
Sulphide ore under 4 per cent copper .....	15,228,000	0.68	...	0.197	(a)
Silicious fluxing ore .....	853,000	0.10	...	0.107	(a)
Capacity of mill: 24 hours .....	3,000	...	...	...	...
<u>Waite Amulet Mines Ltd., December 31, 1945:</u>					
<u>Waite Mine -</u> Copper ore .....	82,066	4.67	...	0.04	0.5
Zinc ore .....	10,000	...	9.5	...	...
<u>Other Waite Amulet ore bodies -</u>					
"F" orebody .....	30,000	3.2	9.9	0.01	1.01
"C" shaft orebodies .....	50,870	1.50	10.66	0.02	4.0
<u>Amulet Dufault -</u> Lower "A" orebody .....	2,210,435	6.01	4.26	0.045	1.5
Upper "A" orebody .....	134,167	2.0	6.5	0.07	1.6
Capacity of mill: 24 hours .....	1,800	...	...	...	...
<u>Normetal Mining Corp. Ltd., December 31, 1945 .....</u>	1,399,000(b)	3.53	7.04	0.032	2.53
Capacity of mill: 24 hours .....	750	...	...	...	...
<u>Sherritt Gordon Mines Ltd., December 31, 1945:</u>					
<u>East orebody -</u> Zinc ore .....	33,500	0.85	8.66	0.005	0.40
Copper ore .....	117,500	2.56	2.35	0.030	0.72
<u>West orebody .....</u>	1,908,500	2.66	2.24	0.020	0.67
Capacity of mill: 24 hours .....	750	...	...	...	...
<u>Hudson Bay Mining &amp; Smelting Co. Ltd., January 1, 1946</u>	26,000,000	2.99	4.24	0.089	1.25
Capacity of mill: 24 hours .....	6,000	...	...	...	...
<u>Granby Cons. Mining, Smelting &amp; Power Co. Ltd., 1945</u>	10,559,000	1.25	...	(a)	(a)
Capacity of mill: 24 hours .....	4,800	...	...	...	...
<u>Britannia Mining &amp; Smelting Co. Ltd. ....</u>	(a)	...	...	...	...
Capacity of mill: 24 hours .....	6,000	...	...	...	...

## Footnotes to Table 64 -

- (a) Not reported.  
 (b) No allowance for ore below 2750-foot level.  
 (x) Subject to revision; from companies' annual printed reports.

Table 65 - Selenium and Tellurium Commercially Recovered From Canadian Ores, 1938-1945

Year	From copper-gold-silver ores		From nickel-copper ores		Total	
	Selenium	Tellurium	Selenium	Tellurium	Selenium	Tellurium
	Pounds		Pounds		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

Table 66 - Canadian Zinc Production (Recoverable) According to Nature of Ore and By Provinces, 1942-1945

Year and Province	Recovered from copper-gold-silver ores		Recovered from silver-lead-zinc and other ores		Total
	pounds	pounds	pounds	pounds	pounds
	pounds		pounds		pounds
1942 - Quebec .....	67,064,536	6,876,275	73,940,811		
Ontario .....	...	4,710,394	4,710,394		
Manitoba .....	29,908,179	...	29,908,179		
Saskatchewan .....	84,461,520	...	84,461,520		
British Columbia .....	...	387,236,469	387,236,469		
Total Canada ..	181,434,235	398,823,138	580,257,373		
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		
Total 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		
Total 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		
Total Canada ..	175,073,339	342,140,265	517,213,604		



Table 67 - Refined New Zinc Produced in Canada, 1935-1945

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

Table 68 - Cadmium Recovered From Canadian Ores, 1938-1945

Year	From copper-gold-silver ores pounds	From silver-lead-zinc ores pounds	Total pounds
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

Table 69 - Average Annual Metal Prices, in Canadian Dollars, 1929-1945

Year	Gold Troy oz. \$	Silver Troy oz. \$	Copper Pound \$	Lead Pound (x) \$	Zinc Pound (x) \$
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 (x)	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

(x) Based on New York; 1932-1945 based on London.

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

DIRECTORYACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1945

Name	Head or Executive Office Address	Location
<b>Nova Scotia -</b>		
Aulenback Mines Consolidated Mining & Smelting Co. of Canada Ltd.	Box 127, Bridgewater, N.S.	Lunenburg
Queens Mines Ltd.	215 St. James St. W., Montreal, Que.	Caribou Mines
Corwin Gold Mines Ltd.	297 Agricola St., Halifax, N.S.	Malaga
	155 Riverside Drive, New York, N.Y.	Oldham
<b>Quebec -</b>		
Abernakis Mines Ltd.	room 305 - 350 Bay St., Toronto, Ont.	Beauchastel Tp.
Adanac Quebec Mines Ltd.	room 403 - 100 Adelaide St. W., Toronto, Ont.	Rouyn Tp.
Adelemon Gold Mines Ltd.	suite 101 - 184 Bay St., Toronto, Ont.	Louvicoourt
Alger Gold Mines Ltd.	room 403 - 357 Bay St., Toronto, Ont.	Cadillac
Alta Mines Ltd.	chambre 903 - 132 Ouest rue St. Jacques, Montreal, Que.	Tiblenmont
Anglo-Rouyn Mines Ltd.	room 706 - 100 Adelaide St. W., Toronto, Ont.	Rouyn Tp.
Ansley Gold Mines Ltd.	suite 1008 - 330 Bay St., Toronto, Ont.	Pershing Tn.
Arken Gold Mines Ltd.	room 2, 26-28 Adelaide St. West, Toronto, Ont.	Louvicoourt Tp.
Arntfield Mining Corp. Ltd.	Arntfield	Beauchastel Tp.
Astoria Quebec Mines Ltd.	70 St. Paul St., Quebec, Que.	Rouyn Tp.
Aubelle Mines Ltd.	room 310 - 100 Adelaide St. West, Toronto, Ont.	Guillet Tp.
Audley Gold Mines Ltd.	36 Toronto St., Toronto, Ont.	Blondeau Tp.
Aumaque Gold Mines Ltd.	room 310 - 100 Adelaide St. West, Toronto, Ont.	Bourlamaque Tp.
Beattie Gold Mines Ltd.	25 King St. West, Toronto, Ont.	Duparquet
Bell River Mines Ltd.	room 1701 - 372 Bay St., Toronto, Ont.	Louvicoourt Tp.
Belleterre Quebec Mines Ltd.	Belleterre, Que.	Belleterre
Bevcourt Gold Mines Ltd.	room 34 - 275 St. James St. West, Montreal, Que.	Louvicoourt Tp.
Blondor Quebec Mines Ltd.	suite 1008 - 330 Bay St., Toronto, Ont.	Guillet Tp.
Bonville Gold Mines Ltd.	room 310 - 100 Adelaide St. West, Toronto, Ont.	Villebon Tp.
Border Malartic Gold Mines Ltd.	room 501 - 67 Yonge St., Toronto, Ont.	Cadillac Tp.
Bordulac Mines Ltd.	room 404, Temple Bldg., Toronto, Ont.	Labyrinth Lake
Bourbon Mines Ltd.	226 Bay St., Toronto, Ont.	Dufresnay Tp.
Bourlamaque Central Mines Ltd.	suite 1008 - 330 Bay St., Toronto, Ont.	Bourlamaque Tp.
Boycon Pershing Gold Mines Ltd.	room 209 - 330 Bay St., Toronto, Ont.	Vauquelin Tp.
Brenmore Quebec Mines Ltd.	355 St. James St. West, Montreal, Que.	Guillet Tp.
Canadian Malartic Gold Mines Ltd.	room 2810 - 25 King St. West, Toronto, Ont.	Malartic
Candego Mines Ltd.	414 St. James St. West, Montreal, Que.	Gaspé
Carlson Mines Ltd.	Box 22, Rouyn, Que.	Dufay Tp.
Central Cadillac Mines Ltd.	717 Transportation Bldg., Montreal, Que.	Cadillac
Central Duparquet Mines Ltd.	Duparquet, Que.	Duparquet Tp.
Centremaque Gold Mines Ltd.	room 605 - 407 McGill St., Montreal, Que.	Bourlamaque Tp.
Chimo Gold Mines Ltd.	25 King St. West, Toronto, Ont.	Vauquelin Tp.
Citralam Malartic Mines Ltd.	226 Bay St., Toronto, Ont.	Malartic Tp.
Clarendon Gold Mines Ltd.	11 King St. West, Toronto, Ont.	Joannes Tp.
Clarnor Malartic Mines Ltd.	226 Bay St., Toronto, Ont.	Dubuisson Tp.
Clarry Gold Mines Ltd.	Grimsby, Ont.	Duparquet Tp.
Clinger Gold Mines Ltd.	room 714 - 320 Bay St., Toronto, Ont.	Vauquelin Tp.
Cluny Gold Mines Ltd.	room 504 - 357 Bay St., Toronto, Ont.	Guillet Tp.
Colocourt Mines Ltd.	room 34 - 275 St. James St. W., Montreal, Que.	Louvicoourt Tp.
Comet Duvernay Gold Mines Ltd.	Box 189, Station "E", Montreal, Que.	Duvernay Tp.
Commando Gold Mines Ltd.	Box 69, Noranda, Que.	Privat Tp.
Cooper Lake Gold Mines Ltd.	suite 1008 - 330 Bay St., Toronto, Ont.	Villebon Tp.
Courageous Gold Mines Ltd.	226 Bay St., Toronto, Ont.	Louvicoourt Tp.
Cournor Mining Co. Ltd.	360 St. James St., Montreal, Que.	Perron
Courtmont Gold Mines Ltd.	36 Toronto St., Toronto, Ont.	Louvicoourt Tp.
Croinor Pershing Mines Ltd.	Senneterre	Pershing Tp.



ACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1945 (Continued)

Name	Head or Executive Office Address	Location
<u>Quebec (Con.)</u>		
Croydon Rouyn Mines Ltd.	room 501 - 67 Yonge St., Toronto, Ont.	Dufresnoy Tp.
Cyprus Mines Ltd.	100 Adelaide St., Toronto, Ont.	Dufresnoy Tp.
D'Aragon Mines Ltd.	room 1323 - 67 Yonge St., Toronto, Ont.	Bourlamaque Tp.
Destur Gold Mines Ltd.	room 204 - 80 Richmond St. West, Toronto, Ont.	Dasserat Tp.
Destor Valley Gold Mines Ltd.	room 1700 - 360 St. James St. West, Montreal	Destor Tp.
Destorbelle Mines Ltd.	room 1010 - 100 Adelaide St. West, Toronto, Ont.	Aiguebelle Tp.
Diaterre Gold Mines Ltd.	room 501 - 67 Yonge St., Toronto, Ont.	Guillet Tp.
Donalda Mines Ltd.	room 206 - 625 Burnside St., Montreal, Que.	Rouyn Tp.
Don-X Mines Ltd.	100 Adelaide St., Toronto, Ont.	Dufresnoy Tp.
Dome Exploration Co. (Quebec) Ltd.	Bourlamaque	Louvicourt Tp.
Donrand Mines Ltd.	100 Adelaide St., Toronto, Ont.	Rouyn Tp.
Dubuisson Mines Ltd.	516 Canada Cement Bldg., Montreal, Que.	Senneterre
Dukel Gold Mines Ltd.	67 Elm St., Sudbury, Ont.	Duparquet Tp.
Dulama Gold Mines Ltd.	room 209 - 330 Bay St., Toronto, Ont.	Bourlamaque Tp.
Dunford Rouyn Mines Ltd.	room 714 - 320 Bay St., Toronto, Ont.	Rouyn
Duquesne Mining Co. Ltd.	112 Yonge St., Toronto, Ont.	Destor Tp.
Duvay Gold Mines	room 501 - 67 Yonge St., Toronto, Ont.	Duverny Tp.
Eastchester Mines Ltd.	68 Yonge St., Toronto, Ont.	Duparquet Tp.
East Malartic Mines Ltd.	355 St. James St. West, Montreal, Que.	Norrie,
Edwaska Gold Mines Ltd.	100 Adelaide St., Toronto, Ont.	Louvicourt Tp.
Elder Gold Mines Ltd.	room 602 - 11 King St. West, Toronto, Ont.	Beauchastel Tp.
Elderidge Gold Mines Ltd.	11 King St. West, Toronto, Ont.	Beauchastel Tp.
Eldona Gold Mines Ltd.	62 Richmond St. West, Toronto, Ont.	Rouyn
Elmac Malartic Mines Ltd.	room 403 - 357 Bay St., Toronto, Ont.	Dubuisson Tp.
Fontena Mines (1945) Ltd.	437 St. James St. West, Montreal, Que.	Duverny Tp.
Formaque Gold Mines Ltd.	610 St. James St., Montreal, Que.	Bourlamaque Tp.
Francoeur Gold Mines Ltd.	941 Dominion Square Bldg., Montreal, Que.	Arntfield
Golar Mines Ltd.	200 Bay St., Toronto, Ont.	Dufresnoy Tp.
Golden Valley Mines Ltd.	suite 1209 - 330 Bay St., Toronto, Ont.	Dasserat
Goldfinch Mines Ltd.	room 1700 - 360 St. James St. West, Montreal	Joannes Tp.
Goldora Mines Ltd.	717 Transportation Bldg., Montreal, Que.	Bourlamaque Tp.
Goldvue Mines Ltd.	suite 1024 - 85 Richmond St. West, Toronto	Duverny Tp.
Governor Gold Mines Ltd.	suite 216 - 331 Bay St., Toronto, Ont.	Beauchastel Tp.
Grande Terre Gold Mines Ltd.	room 2, 26-28 Adelaide St. West, Toronto, Ont.	Guillet Tp.
Guillet Gold Mines Ltd.	Rouyn, Que.	Blondeau Tp.
Gwillim Lake Gold Mines Ltd.	suite 1207 - 67 Yonge St., Toronto, Ont.	Chibougamau
Habitant Gold Mines Ltd.	710 Excelsior Life Bldg., Toronto, Ont.	Beauchastel Tp.
Harricana Gold Mines Inc. (1939)	room 209 - 330 Bay St., Toronto, Ont.	Dubuisson
Heva Cadillac Gold Mines Ltd.	room 17 - 24 King St. West, Toronto, Ont.	Joannes Tp.
Hosco Gold Mines Ltd.	357 Bay St., Toronto, Ont.	Joannes Tp.
Hugh Malartic Mines Ltd.	226 Bay St., Toronto, Ont.	Malartic Tp.
Insko Mines Ltd.	355 St. James St. West, Montreal, Que.	Dufresnoy Tp.
Jocor Mines Ltd.	275 St. James St. West, Montreal, Que.	Louvicourt Tp.
Kayrand Mining & Development Co. Ltd.	room 301 - 215 St. James St. West, Montreal	Dalquier
Kenda Pershing Mines Ltd.	184 Bay St., Toronto, Ont.	Pershing Tp.
Kencour Gold Mines Ltd.	36 Toronto St., Toronto, Ont.	Louvicourt Tp.
Kenroy Malartic Mines Ltd.	room 1701 - 372 Bay St., Toronto, Ont.	Malartic Tp.
Kiska Gold Mines	suite 407 - 26 Queen St., Toronto, Ont.	Duverny Tp.
Lake Expanse Gold Mines Ltd.	67 Yonge St., Toronto, Ont.	Belleterre
Lamaque Mining Co. Ltd.	Bourlamaque, Que.	Bourlamaque
Lapalartic Mines Ltd.	100 Adelaide St. West, Toronto, Ont.	Malartic Tp.
Lapaska Mines Ltd.	100 Adelaide St. West, Toronto, Ont.	Louvicourt Tp.
Lebon Gold Mines Ltd.	room 501 - 67 Yonge St., Toronto, Ont.	Villebon Tp.
Louvicourt Goldfield Corp.	1604 Edifice Aldred, Montreal, Que.	Perron
Macdor Quebec Mines Ltd.	330 Bay St., Toronto, Ont.	Bourlamaque Tp.
MacClare Mines Ltd.	226 Bay St., Toronto, Ont.	Dufresnoy Tp.
Macbart Mines Ltd.	1102 Central Bldg., Toronto, Ont.	Bourlamaque Tp.
Malartic Gold Fields Ltd.	355 St. James St. West, Montreal, Que.	Dubuisson Tp.

ACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1945 (Continued)

Name	Head or Executive Office Address	Location
<u>Quebec (Con.) -</u>		
Malartic River Mines Ltd.	Val d'Or, Que.	Malartic
Malbec Gold Mines Ltd.	45 Richmond St. West, Toronto, Ont.	Dalquier Tp.
Manterre Gold Mines Ltd.	100 Adelaide St. West, Toronto, Ont.	Guillet Tp.
Marbenor Malartic Mines Ltd.	36 Toronto St., Toronto, Ont.	Fournier Tp.
Marlon Rouyn Gold Mines Ltd.	24 King St. West, Toronto, Ont.	Rouyn
McWatters Gold Mines Ltd.	Drawer 988, Haileybury, Ont.	Rouyn
Mic-Mac Mines Ltd.	c/o Royal Trust Co., Montreal, Que.	Bousquet Tp.
Milerlaun Rouyn Gold Mines Ltd.	465 Bay St., Toronto, Ont.	Launay Tp.
Molijevis Gold Mines Ltd.	67 Yonge St., Toronto, Ont.	Disson Tp.
Montmagny Gold Mines Ltd.	c/o J. W. MacKenzie, Arntfield, Que.	Beauchastel Tp.
Mountain Crest Mines Ltd.	1201 ouest, rue Sherbrooke, Montreal, Que.	Lacoste
Murbell Gold Mines Ltd.	80 Richmond St. West, Toronto, Ont.	Blondeau Tp.
Mylamaque Mines Ltd.	200 Bay St., Toronto, Ont.	Bourlamaque Tp.
O'Brien Gold Mines Ltd.	Kewagama	Cadillac Tp.
New Bidlamaque Gold Mines Ltd.	room 714 - 320 Bay St., Toronto, Ont.	Bourlamaque Tp.
Norbenite Malartic Mines Ltd.	room 1008 - 330 Bay St., Toronto, Ont.	Malartic
Norcourt Gold Mines Ltd.	275 St. James St., Montreal, Que.	Louvicourt Tp.
North Belleterre Gold Mines Ltd.	39 Notre Dame St. East, Montreal, Que.	Devlin Tp.
North Malartic Gold Mines Ltd.	Noranda, Que.	Malartic Tp.
Nortyne Gold Mines Ltd.	226 Bay St., Toronto, Ont.	Vassan Tp.
Normar Gold Mines Ltd.	24 King St. West, Toronto, Ont.	Bousquet
Norman Malartic Mines Ltd.	226 Bay St., Toronto, Ont.	Dubuisson Tp.
Orenada Gold Mines Ltd.	330 Bay St., Toronto, Ont.	Bourlamaque
Ortona Gold Mines Ltd.	67 Yonge St., Toronto, Ont.	Guillet Tp.
Pandora Ltd.	Cadillac	Cadillac
Paramaque Mines Ltd.	36 Toronto St., Toronto, Ont.	Bourlamaque
Pen-Rey Gold Mines Ltd.	330 Bay St., Toronto, Ont.	Rouyn Tp.
Pershing Manitou Gold Mines Ltd.	132 rue St. Jacques ouest, Montreal, Que.	Belcourt
Perron Gold Mines Ltd.	Perron	Perron
Petitclerc Mines Ltd.	200 Bay St., Toronto, Ont.	Louvicourt Tp.
Phelps Gold Mines Ltd.	67 Yonge St., Toronto, Ont.	Duprat Tp.
Pinnacle Gold Mines Ltd.	80 Richmond St. West, Toronto, Ont.	Privat Tp.
Pitt Gold Mining Co. Ltd.	80 King St. West, Toronto, Ont.	Destor Tp.
Powell Rouyn Gold Mines Ltd.	Noranda	Noranda
Rand Malartic Mines Ltd.	56 Sparks St., Ottawa, Ont.	Fourniere Tp.
Rambull Gold Mines Ltd.	226 Bay St., Toronto, Ont.	Figury Tp.
Randons Quebec Gold Mines Ltd.	330 Bay St., Toronto, Ont.	Dufresnoy Tp.
Raymond Tiblemont Gold Mines Ltd.	200 Bay St., Toronto, Ont.	Vauquelin Tp.
Record Rouyn Mines Ltd.	67 Yonge St., Toronto, Ont.	Beauchastel Tp.
Regcourt Gold Mines Ltd.	275 St. James St. West, Montreal, Que.	Louvicourt Tp.
Renfort Gold Mines Ltd.	100 Adelaide St. West, Toronto, Ont.	Dasserat Tp.
Roedor Mines Ltd.	199 Bay St., Toronto, Ont.	Dubuisson Tp.
Rochette Gold Mines Co. Ltd.	540 rue Boucher, Montreal, Que.	Launay Tp.
Roulette Gold Mines Ltd.	80 Richmond St., Toronto, Ont.	Privat
Rouyn Merger Gold Mines Ltd.	2-8 King St. East, Toronto, Ont.	Rouyn
Sand Lake Gold Mines Ltd.	357 Bay St., Toronto, Ont.	Guillet Tp.
Sanita Gold Mines Ltd.	67 Yonge St., Toronto, Ont.	Vauquelin Tp.
Scott Chibaugama Mines Ltd.	215 St. James St. West, Montreal, Que.	Louvicourt Tp.
Senator Rouyn Ltd.	454 Main St., Hull, Que.	Noranda
Shawkey (1945) Mines Ltd.	80 King St. West, Toronto, Ont.	Dubuisson Tp.
Sigma Mines (Quebec) Ltd.	Bourlamaque, Que.	Bourlamaque
Simon Lake Mines Ltd.	85 Richmond St. W., Toronto, Ont.	Vauquelin Tp.
Siscoe Gold Mines Ltd.	907 Dominion Square Bldg., Montreal, Que.	Siscoe
Standard Gold Mines Ltd.	1604 Aldred Bldg., Montreal, Que.	Perron
Sladen-Malartic Mines Ltd.	56 Sparks St., Ottawa, Ont.	Malartic
Stadacona Mines (1944) Ltd.	Rouyn	Rouyn
Starlight Mines Ltd.	100 Adelaide St. West, Toronto, Ont.	Louvicourt Tp.
Sullivan Consolidated Mines Ltd.	1604 Aldred Bldg., Montreal, Que.	Dubuisson Tp.
Thurbois Mines Ltd.	1550 Elsmere Ave., Windsor, Ont.	Destor Tp.



ACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1945 (Continued)

Name	Head or Executive Office Address	Location
<u>Quebec (Con.) -</u>		
Tibbmont Goldfields Ltd.	603 Royal Bank Bldg., Toronto, Ont.	Tibbmont Tp.
Trojan Gold Mines Ltd.	33 Melinda St., Toronto, Ont.	Privat Tp.
Tromac Mines Ltd.	100 Adelaide St., Toronto, Ont.	Dufresnoy Tp.
Vimay Malartic Mines Ltd.	226 Bay St., Toronto, Ont.	Malartic Tp.
Wasa Lake Gold Mines Ltd.	1006 Concourse Bldg., Toronto, Ont.	Beauchastel Tp.
West Malartic Mines Ltd.	7000 Jeanne Mance St., Montreal, Que.	Cadillac
Wiltsey-Coghlan Mines (Quebec) Ltd.	100 Adelaide St. West, Toronto, Ont.	Rouyn
<u>Ontario -</u>		
<u>Porcupine Area</u>		
Aljo Mines Ltd.	room 204 - 80 Richmond St. West, Toronto, Ont.	Beatty Tp.
Amalgamated Gold Fields Corp. Ltd.	room 208 - 331 Bay St., Toronto, Ont.	Matheson
Andman Porcupine Gold Mines Ltd.	Schumacher, Ont.	Schumacher
Anson-Cartwright Mines Ltd.	room 209 - 330 Bay St., Toronto, Ont.	Matheson
Aquarius Porcupine Gold Mines Ltd.	room 706 - 100 Adelaide St. West, Toronto, Ont.	Macklem Tp.
Aumo Porcupine Mines Ltd.	1305 Concourse Bldg., 100 Adelaide St. West, Toronto, Ont.	Timmins
Aurnor Gold Mines Ltd.	1600 Royal Bank Bldg., Toronto, Ont.	Timmins
Banner Porcupine Mines Ltd.	room 1705 - 372 Bay St., Toronto, Ont.	Porcupine
Bonetal Gold Mines Ltd.	room 1705 - 372 Bay St., Toronto, Ont.	Pamour
Boxada Mines Ltd.	room 1409 - 330 Bay St., Toronto, Ont.	Beatty Tp.
Braulan Porcupine Mines Ltd.	room 1705 - 372 Bay St., Toronto, Ont.	Pamour
Buffalo Ankerite Gold Mines Ltd.	P. O. Box 533, South Porcupine, Ont.	Deloro Tp.
Burma Dip Gold Mines Ltd.	room 302 Royal York Hotel, Toronto, Ont.	Night Hawk Lake
Carshaw Porcupine Gold Mines Ltd.	suite 6 - 121 Wyandotte St. West, Windsor, Ont.	Shaw Tp.
Carscor Porcupine Gold Mines Ltd.	36 Toronto St., Toronto, Ont.	Bristol Tp.
Chennault Gold Mines Ltd.,	suite 312 - 9 Richmond St. East, Toronto, Ont.	McArthur Tp.
Clavos Porcupine Mines Ltd.	suite 1024 - 85 Richmond St. West, Toronto	German Tp.
Clodan Gold Mines Ltd.	119 Williamson Rd., Toronto, Ont.	Matheson
Coniaurum Mines Ltd.	25 King St. West, Toronto, Ont.	Schumacher.
Cumigold Mines Ltd.	room 302 - 57 Queen St. West, Toronto, Ont.	Mann Tp.
Dale Gold Mines Ltd.	suite 504 - 357 Bay St., Toronto, Ont.	Harker Tp.
Davidson Tisdale Mines Ltd.	suite 2810 - 25 King St. West, Toronto, Ont.	Tisdale Tp.
Delcore Porcupine Mines Ltd.	room 706 - 100 Adelaide St. West, Toronto, Ont.	Deloro Tp.
Delnite Mines Ltd.	P. O. Box 590, Timmins, Ont.	Deloro Tp.
Denallen Gold Mines Ltd.	36 Toronto St., Toronto, Ont.	Denton Tp.
Dome Mines Ltd.	36 Toronto St., Toronto, Ont.	Tisdale Tp.
Edgewater Porcupine Gold Mines Ltd.	814 Metropolitan Bldg., Toronto, Ont.	Night Hawk Lake
Golden Arrow Mines Ltd.	room 428 - 67 Yonge St., Toronto, Ont.	Ramore
Goldhawk Porcupine Mines Ltd.	suite 1107 - 67 Yonge St., Toronto, Ont.	Cody Tp.
Hallnor Mines Ltd.	Pamour	Whitney Tp.
Hollinger Consolidated Gold Mines Ltd.	Timmins	Timmins
Hoyle Mining Company Ltd.	P. O. Box 997, Haileybury, Ont.	Pamour
Jasper Porcupine Mines Ltd.	43 Colborne St., Toronto, Ont.	Deloro Tp.
Jowsey Denton Gold Mines Ltd.	room 1701 - 372 Bay St., Toronto, Ont.	Carscallen Tp.
Kimball Porcupine Gold Mines Ltd.	70 Albert St., Toronto, Ont.	Macklem Tp.
McIntyre Porcupine Mines Ltd.	Schumacher, Ontario	Schumacher
Pamour Porcupine Mines Ltd.	Pamour, Ontario	Whitney Tp.
Paymaster Consolidated Mines Ltd.	Box 508, South Porcupine, Ont.	South Porcupine
Preston-East Dome Mines Ltd.	South Porcupine, Ont.	South Porcupine
Malga Porcupine Gold Mines Ltd.	room 808 - 85 Richmond St. West, Toronto, Ont.	South Porcupine
McLaren Porcupine Gold Mines Ltd.	South Porcupine, Ont.	Deloro Tp.
New Electra Porcupine Gold Mines Ltd.	room 706 - 100 Adelaide St. West, Toronto	Macklem Tp.
Wilcar Mines Ltd.	12th floor, Star Bldg., 80 King St. West, Toronto, Ont.	Wilkie Tp.
<u>Kirkland Lake Area</u>		
Amalgamated Kirkland Mines Ltd.	P. O. Box 997, Haileybury, Ont.	Kirkland Lake
Belrossa Mines Ltd.	room 1001 - 85 Richmond St. West, Toronto	Lebel Tp.

ACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1945 (Continued)

Name	Head or Executive Office Address	Location
<u>Ontario (Con.) -</u>		
<u>Kirkland Lake Area (Con.)</u>		
Bidgood Kirkland Gold Mines Ltd.	room 504 - 357 Bay St., Toronto, Ont.	Lebel Tp.
Biroco Kirkland Mines Ltd.	room 1705 - 372 Bay St., Toronto, Ont.	Gauthier Tp.
Darmac Gold Mines Ltd.	room 303 - 156 Yonge St., Toronto, Ont.	Lebel Tp.
Erin Kirland Mines Ltd.	room 1104 - 67 Yonge St., Toronto, Ont.	Lebel Tp.
Glenora Gold Mines Ltd.	room 3100 - 25 King St., Toronto, Ont.	Lebel Tp.
Golden Gate Mining Co. Ltd.	room 411 - 371 Bay St., Toronto, Ont.	Swastika
Kirkland Lake Gold Mining Co. Ltd.	Chaput Hughes	Teck Tp.
Lake Shore Mines Ltd.	Kirkland Lake, Ont.	Kirkland Lake
Macassa Mines Ltd.	85 Richmond St. West, Toronto, Ont.	Kirkland Lake
Sylvanite Gold Mines Ltd.	Box 670 - Kirkland Lake, Ont.	Kirkland Lake
The Teck-Hughes Gold Mines Ltd.	14 Finkle St., Woodstock, Ont.	Kirkland Lake
Toburn Gold Mines Ltd.	1809 Royal Bank Bldg., Toronto, Ont.	Kirkland Lake
Upper Canada Mines Ltd.	1101 Federal Bldg., Toronto, Ont.	Dobie
Wright-Hargreaves Mines Ltd.	Fort Erie, Ont.	Kirkland Lake
Mylake Mines Ltd.	200 Bay St., Toronto, Ont.	Grenfell Tp.
<u>Larder Lake Area</u>		
Amalgamated Larder Mines Ltd.	12th floor - 80 King St. West, Toronto, Ont.	Larder Lake
Anoki Gold Mines	1006 Concourse Bldg., Toronto, Ont.	Gauthier Tp.
Armistice Gold Mines Ltd.	room 706 - 100 Adelaide St. W., Toronto, Ont.	McGarry Tp.
Big Game Mines Ltd.	room 501 - 67 Yonge St., Toronto, Ont.	Guiliord Tp.
Chesterville Larder Lake Gold Mining Co. Ltd.	suite 1104 - 330 Bay St., Toronto, Ont.	McGarry Tp.
Hermes Mines Ltd.	suite 403 - 156 Yonge St., Toronto, Ont.	McIlroy Tp.
Highridge Mining Co. Ltd.	room 209 - 330 Bay St., Toronto, Ont.	McGarry Tp.
Kerr-Addison Gold Mines Ltd.	room 1108 - 80 King St. West, Toronto, Ont.	McGarry Tp.
Larder "U" Island Mines Ltd.	room 209 - 330 Bay St., Toronto, Ont.	McGarry Tp.
Omega Gold Mines	Larder Lake	McVittie Tp.
Martin-Bird Gold Mines Ltd.	32 Prospect Ave., Kirkland Lake, Ont.	Hearst Tp.
Mary Ann Mines Ltd.	room 403 - 100 Adelaide St. West, Toronto, Ont.	Larder Lake
Olivet Gold Mines Ltd.	156 Yonge St., Toronto, Ont.	Gauthier Tp.
Temple Gold Mines Ltd.	11 King St. West, Toronto, Ont.	Playfair Tp.
Tovarich-Larder Gold Mines Ltd.	room 1701 - 372 Bay St., Toronto, Ont.	McIlroy Tp.
Wadasa Gold Mines Ltd.	62 Government Road West, Kirkland Lake, Ont.	Gauthier Tp.
<u>Matachewan Area</u>		
Central Matachewan Mining Co.	331 Bay St., Toronto, Ont.	Baden Tp.
Culver Gold Mines Ltd.	suite 1007 - 67 Yonge St., Toronto, Ont.	Powell Tp.
Young-Davidson Mines Ltd.	Timmins, Ont.	Powell Tp.
Laclothian Mines Ltd.	suite 1001 - 85 Richmond St. West, Toronto	Midlothian Tp.
Laroma Midlothian Mines Ltd.	suite 1705 - 372 Bay St., Toronto, Ont.	Midlothian Tp.
Matachewan Consolidated Mines Ltd.	25 King St. West, Toronto, Ont.	Powell Tp.
Welsh-Mac Mines Ltd.	674 Ontario St., Toronto, Ont.	Tyrrell Tp.
<u>Sudbury Area</u>		
Camdeck Gold Mines Ltd.	Box 963, Kirkland Lake, Ont.	Knight Tp.
Jerome Gold Mines Ltd.	suite 602 - 350 Bay St., Toronto, Ont.	Jerome
Rush Lake Gold Mines Ltd.	suite 504 - 357 Bay St., Toronto, Ont.	Marion Tp.
Shunsby Gold Mines Ltd.	suite 504 - 357 Bay St., Toronto, Ont.	Stover Tp.
Wanapitei Basin Mines Ltd.	130 Carlton St., Toronto, Ont.	Scadding Tp.
<u>Thunder Bay Area</u>		
Charles Long Lac Gold Mines Ltd.	suite 1104 - 67 Yonge St., Toronto, Ont.	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. West, Toronto, Ont.	Ashmore Tp.



ACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1945 (Continued)

<u>Name</u>	<u>Head or Executive Office Address</u>	<u>Location</u>
<u>Ontario (Con.)-</u>		
<u>Thunder Bay Area (Con.)</u>		
MacLeod-Cockshutt Gold Mines Ltd.	357 Bay St., Toronto, Ont.	Geraldton
Magnet Consolidated Mines Ltd.	515 Jarvis St., Toronto, Ont.	Geraldton
Marquette Long Lac Gold Mines Ltd.	room 503 - 357 Bay St., Toronto, Ont.	Long Lac
<u>Kenora Area</u>		
Andowan Mines Ltd.	Kashabowie	Shebandowan Lake
Jack Lake Mines Ltd.	190A Adelaide St., Toronto, Ont.	McCaul Tp.
Van Houten Gold Mines Ltd.	171 Yonge St., Toronto, Ont.	Dymont
Undersill Gold Mining Co. Ltd.	14 Wall St., New York, N.Y.	Beardmore
<u>Patricia District</u>		
Advance Red Lake Gold Mines Ltd.	room 701 - 347 Bay St., Toronto, Ont.	Red Lake
Aiken Red Lake Gold Mines Ltd.	room 303 - 53 Yonge St., Toronto, Ont.	Red Lake
Bayview Red Lake Gold Mines Ltd.	80 Richmond St. West, Toronto, Ont.	Todd Tp.
Berens River Mines Ltd.	Favourable Lake	Favourable Lake
Bright Red Lake Mines Ltd.	room 311 - 21 King St. East, Toronto, Ont.	Fairlie Tp.
Buffalo Red Lake Mines Ltd.	room 1701 - 372 Bay St., Toronto, Ont.	Red Lake
Campbell Red Lake Mines Ltd.	room 620 Richmond St. East, Toronto, Ont.	Red Lake
Carricoma Gold Mines Ltd.	room 305 - 350 Bay St., Toronto, Ont.	Heyson Tp.
Central Patricia Gold Mines Ltd.	Central Patricia, Ont.	Central Patricia
Cochenour Willans Gold Mines Ltd.	801 Dominion Bank Bldg., Toronto, Ont.	Mackenzie Island
Craibbe-Fletcher Gold Mines Ltd.	suite 1, 26-28 Adelaide St. West, Toronto	Dome Tp.
Crowshore Patricia Gold Mines Ltd.	171 Yonge St., Toronto, Ont.	Crow River
Dexter Red Lake Gold Mines Ltd.	room 620 - 12 Richmond St. East, Toronto, Ont.	Red Lake
Dickinson Red Lake Mines Ltd.	200 Bay St., Toronto, Ont.	Balmer Tp.
Hasaga Gold Mines Ltd.	Red Lake, Ont.	Heyson Tp.
Lingman Lake Gold Mines Ltd.	707 McArthur Bldg., Winnipeg, Man.	Lingman Lake
Lunward Gold Mines Ltd.	room 714 - 320 Bay St., Toronto, Ont.	Echo Tp.
Madsen Red Lake Gold Mines Ltd.	67 Yonge St., Toronto, Ont.	Heyson Tp.
McKenzie Red Lake Gold Mines Ltd.	19 Richmond St. W., Toronto, Ont.	Dome Tp.
Pickle Crow Gold Mines Ltd.	Pickle Crow, Ont.	Pickle Crow
Martin-McNeely Mines Ltd.	24 Fraser St., North Bay, Ont.	Dome Tp.
McFinley Red Lake Gold Mines Ltd.	100 Adelaide St., Toronto, Ont.	Bateman Tp.
McMarmac Red Lake Gold Mines Ltd.	room 402 - 19 Richmond St. West, Toronto, Ont.	Dome Tp.
Mink Gold Mines Ltd.	room 504 - 357 Bay St., Toronto, Ont.	Mink Lake
Red Area Gold Mines Ltd.	80 Richmond St. West, Toronto, Ont.	Fairlie Tp.
Redaurum Red Lake Gold Mines Ltd.	100 Adelaide St. West, Toronto, Ont.	Baird Tp.
Redwood Gold Mines Ltd.	suite 1024 - 85 Richmond St. West, Toronto	Heyson Tp.
Richmac Gold Mines Ltd.	room 1502 - 372 Bay St., Toronto, Ont.	Dome Tp.
Russet Red Lake Gold Mines Ltd.	room 318 - 371 Bay St., Toronto, Ont.	Baird Tp.
San Pedro Mining Corp. Ltd.	630 Confederation Life Bldg., Toronto, Ont.	Heyson Tp.
Slate Bay Gold Mines Ltd.	room 318 - 371 Bay St., Toronto, Ont.	McDonough Tp.
Spruce Lake Gold Mines Ltd.	suite 1007 - 67 Yonge St., Toronto, Ont.	Heyson Tp.
Starratt Olsen Gold Mines Ltd.	Red Lake, Ont.	Baird Tp.
Virginia Red Lake Mines Ltd.	suite 1, 26-28 Adelaide St. West, Toronto	Balmer Tp.
<u>Manitoba -</u>		
Ken-Bay Gold Mines Ltd.	320 Bay St., Toronto, Ont.	Little Stull Lake
Kiwago Gold Mines Ltd.	Electric Railway Chambers, Winnipeg, Man.	Central Manitoba
San Antonio Gold Mines Ltd.	237 Curry Bldg., Winnipeg, Man.	Bissett
Sengold Mines Ltd.	67 Yonge St., Toronto, Ont.	Rice Lake
Tartan Lake Gold Mines Ltd.	330 Bay St., Toronto, Ont.	Athapapukow
Wekusko Consolidated Ltd.	395 Main St., Winnipeg, Man.	Herb Lake
<u>Saskatchewan -</u>		
Nesnah Mining & Exploration Co. Ltd.	320 Bay St., Toronto, Ont.	Beaver Lake
Newcor Mining & Refining Ltd.	67 Yonge St., Toronto, Ont.	Douglas Lake

ACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1945 (Continued)

Name	Head or Executive Office Address	Location
<u>Northwest Territories -</u>		
American Yellowknife Gold Mines Ltd.	171 Yonge St., Toronto, Ont.	Yellowknife
Amy Yellowknife Mines Ltd.	55 York St., Toronto, Ont.	Indin Lake
Atlas Yellowknife Mines Ltd.	330 Bay St., Toronto, Ont.	Yellowknife
Aurora Yellowknife Mines Ltd.	100 Adelaide St. West, Toronto, Ont.	Yellowknife
Eravo Yellowknife Mines Ltd.	11 King St. West, Toronto, Ont.	Prosperous Lake
Bruin Yellowknife Mines Ltd.	330 Bay St., Toronto, Ont.	Yellowknife
Bryhern Exploration Development & Mining Ltd.	100 Adelaide St. West, Toronto, Ont.	Yellowknife
Cardinal Yellowknife Mines Ltd.	67 Yonge St., Toronto, Ont.	Yellowknife
Cassidy Yellowknife Mines Ltd.	36 Toronto St., Toronto, Ont.	Yellowknife
Colomac Yellowknife Mines Ltd.	100 Adelaide St. West, Toronto, Ont.	Yellowknife
The Consolidated Mining & Smelting Co. of Canada Ltd.	Trail, B.C.	Yellowknife
Conwest Exploration Co. Ltd.	Spencerville, Ont.	Yellowknife
Crestaurum Mines Ltd.	25 King St. West, Toronto, Ont.	Yellowknife
Aunaxa Mining Ltd.	302 Bay St., Toronto, Ont.	Yellowknife
Discovery Yellowknife Mines Ltd.	171 Yonge St., Toronto, Ont.	Yellowknife
Dolphin Yellowknife Mines Ltd.	357 Bay St., Toronto, Ont.	Yellowknife
Frederick Yellowknife Mines Ltd.	100 Adelaide St. West, Toronto, Ont.	Yellowknife
Giant Yellowknife Gold Mines Ltd.	25 King St. West, Toronto, Ont.	Yellowknife
Goldcrest Mines Ltd.	171 Yonge St., Toronto, Ont.	Indin Lake
Goldknife Mines Ltd.	67 Yonge St., Toronto, Ont.	Vital Lake
Great Yellowknife Mines Ltd.	36 Toronto St., Toronto, Ont.	Yellowknife
Homer Yellowknife Mines Ltd.	330 Bay St., Toronto, Ont.	Yellowknife
Ingrahm Yellowknife Mines Ltd.	357 Bay St., Toronto, Ont.	Yellowknife
Jackknife Gold Mines Ltd.	330 Bay St., Toronto, Ont.	Yellowknife
Lake Fortune Gold Mines Ltd.	941 Dominion Square Bldg., Toronto, Ont.	Yellowknife
Leta Explorations Ltd.	67 Yonge St., Toronto, Ont.	Yellowknife
Lexindin Gold Mines Ltd.	67 Yonge St., Toronto, Ont.	Indin Lake
Lynx Yellowknife Gold Mines Ltd.	25 King St. West, Toronto, Ont.	Yellowknife
Massive Yellowknife Mines Ltd.	36 Toronto St., Toronto, Ont.	Yellowknife
Mate Yellowknife Gold Mines Ltd.	85 Richmond St. West, Toronto, Ont.	Yellowknife
Nib Yellowknife Mines Ltd.	10 Adelaide St. East, Toronto, Ont.	Yellowknife
Negus Mines Ltd.	410 Royal Bank Building, Toronto, Ont.	Yellowknife
Nicholson Mines Ltd.	25 King St. West, Toronto, Ont.	Yellowknife
Pensive Yellowknife Mines Ltd.	80 Richmond St. West, Toronto, Ont.	Yellowknife
Quebec Yellowknife Gold Mines Ltd.	132 St. James St. West, Montreal, Que.	Yellowknife
Ranney Gold Mines Ltd.	25 King St. West, Toronto, Ont.	Yellowknife
Redmont Yellowknife Mines Ltd.	820 Transportation Bldg., Montreal, Que.	Yellowknife
Ryanor Mining Co. Ltd.	85 Richmond St. West, Toronto, Ont.	Yellowknife
Sovereign Yellowknife Mines Ltd.	302 Bay St., Toronto, Ont.	Johnston Lake
Sunset Yellowknife Mines Ltd.	67 Yonge St., Toronto, Ont.	Yellowknife
Tiffany Yellowknife Mines Ltd.	11 King St. West, Toronto, Ont.	Yellowknife
Trans-American Mining Corp. Ltd.	55 York St., Toronto, Ont.	Yellowknife
Transcontinental Resources Ltd.	25 King St. West, Toronto, Ont.	Yellowknife
Transterra Mines Ltd.	85 Richmond St. W., Toronto, Ont.	Yellowknife
Yellorex Mines Ltd.	330 Bay St., Toronto, Ont.	Yellowknife
<u>British Columbia -</u>		
Bralorne Mines Ltd.	555 Burrard St., Vancouver, B.C.	Bralorne
Barkerville Mining Co. Ltd.	607 Rogers Bldg., Vancouver, B.C.	Wells
Berton Gold Mines Ltd.	815 West Hastings St., Vancouver, B.C.	Alberni
Bridge River Consolidated Mines Ltd.	475 Howe St., Vancouver, B.C.	Goldbridge
B.R.X. (1935) Consolidated Mines Ltd.	475 Howe St., Vancouver, B.C.	Shalalth
Cariboo Gold Quartz Mining Co. Ltd.	1007 Royal Bank Bldg., Vancouver, B.C.	Wells
Cariboo Mine	Rock Creek	Greenwood
Gem Gold Mines Ltd.	1604 Royal Bldg., Vancouver, B.C.	Nanaimo
Gold Belt Mining Co. Ltd.	Sheep Creek	Sheep Creek
Gold Drop Mines Ltd.	Stewart	Marmot River
Grull-Wihksne Gold Mines Ltd.	475 Howe St., Vancouver, B.C.	Goldbridge



ACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1945 (Concluded)

Name	Head or Executive Office Address	Location
<u>British Columbia (Con.) -</u>		
Hedley Mascot Gold Mines Ltd.	908 Royal Bank Bldg., Vancouver, B.C.	Yale
Hellstoke Mining Co. Ltd.	616 Stock Exchange Bldg., Vancouver, B.C.	Bridge River
Hunstone & McLeod	1225 Nelson St., Vancouver, B.C.	Hedley
Island Mountain Mines Co. Ltd.	Wells	Wells
Kenville Gold Mines Ltd.	184 Bay St., Toronto, Ont.	Blewett
Kelowna Exploration Co. Ltd.	Hedley	Osoyoos
I.X.L. Leasing Syndicate	Rossland	Trail Creek
D.H. & A.G. Norcross	Nelson	Nelson
Pacific (Eastern) Gold Mines Ltd.	184 Bay St., Toronto, Ont.	Lillooet
Pellaire Mines Ltd.	184 Bay St., Toronto, Ont.	Clinton
Pioneer Gold Mines of B.C. Ltd.	607 Rogers Bldg., Vancouver, B.C.	Lillooet
Privateer Mine Ltd.	475 Howe St., Vancouver, B.C.	Zeballas
Prosperpine Mines Ltd.	607 Rogers Bldg., Vancouver, B.C.	Wells
Second Relief Mine	Salmo	Nelson
Sheep Creek Gold Mines Ltd.	616 Stock Exchange Bldg., Vancouver, B.C.	Sheep Creek
Silbak Premier Mines Ltd.	626 Pender St. West, Vancouver, B.C.	Portland Canal

PRINCIPAL CANADIAN ALLUVIAL GOLD OPERATORS, 1945

Name	Head of Executive Office Address	Location
<u>British Columbia -</u>		
Anderson, Marius A.	Wells	Eight Mile Lake
Bride, Maurice	Atlin	Spruce Creek
Brister, J. V.	Atlin	Spruce Creek
Columbia Development Ltd.	Atlin	Atlin
Coulter Creek Hydraulics	Wells	Barkerville
Doddy, James	Barkerville	Cariboo
Edwardson, Mark	Atlin	Spruce Creek
Ennerdale Placers	Van Winkle	Cariboo
Fisher, N. S.	Atlin	Boulder Creek
Fry, Thomas	Quesnel	Cariboo
Grison and Huffman	Atlin	Pine Creek
Gaensbauer and Piccolo	Atlin	McKee Creek
Gunn, J. J.	Wells	Cariboo
Haylmore, W.	Goldbridge	Lillooet
Holm and Petersen	Barkerville	Antler Creek
Ivanic, Steve & Co.	Atlin	Spruce Creek
Johnson, Konrad	Atlin	Wright Creek
Ketch Placers	Wells	Cariboo
Lowhee Mining Co. Ltd.	605 Tacoma Bldg., Tacoma, Wash.	Barkerville
MacKinnon, Chas. E.	Atlin	Spruce Creek
Miller, James W.	Marysville	Sawmill Creek
Murphy, Nathan	Atlin	Atlin
Noland, John W.	Atlin	Spruce Creek
Piccolo, Luigi	Atlin	Pine Creek
Frpish, Tom	Atlin	O'Donnel
Rask, Eric	Wells	Cariboo
Reed, R. MacD.	Barkerville	Cariboo
Risberg, Carl A.	Van Winkle	Cariboo
Savery, Walter H.	Wells	Mink Gulch
Swanson & Watt	Atlin	McKee Creek
Tabert, Issac	Willow River	Cariboo
Wickstrom & Partners	Atlin	Ruby Creek
Wright Creek Hydraulic Co.	Atlin	Wright Creek
<u>Yukon -</u>		
Clear Creek Placers Ltd.	Dawson	Clear Creek
Lunde, V.	Mayo	various
Numaloke Mines Ltd.	25 King St. West, Toronto, Ont.	various
Yukon Alluvial Golds Ltd.	Dawson	Thistle Creek
Yukon Consolidated Gold Corp. Lt.	1919 Marine Bldg., Vancouver, B.C.	various





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