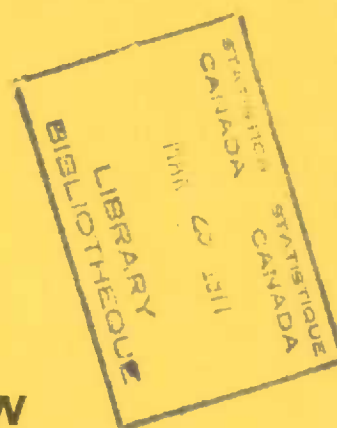


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GOVERNMENT OF CANADA *D.B.S.*



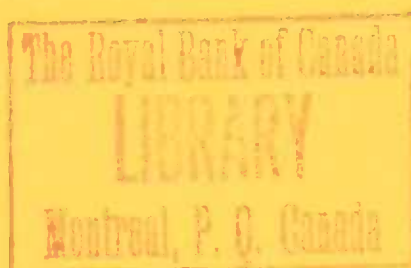
SUMMARY REVIEW
OF
THE GOLD MINING INDUSTRY
IN
CANADA
1948

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D.B.S.
PUBLICATION



DOMINION BUREAU OF STATISTICS
DEPARTMENT OF TRADE AND COMMERCE

553.41071



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1948

Published by Authority of the Rt. Hon. C. D. Howe,
Minister of Trade and Commerce

Prepared in the Mining, Metallurgical and Chemical Section,
of the Industry and Merchandising Division,
Dominion Bureau of Statistics, Ottawa

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THE GOLD MINING INDUSTRY IN CANADA, 1948

- 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.

Production of gold in Canada during 1948 amounted to 3,529,608 fine troy ounces valued at \$123,536,280 compared with the production of 3,070,221 troy ounces worth \$107,457,755 in 1947. The number of persons employed during the year was approximately the same as in 1947. The price of gold remained at \$55 per troy ounce as the Canadian dollar was officially quoted at par with the United States dollar.

Ontario was the leading producer of gold with 59.4 per cent of the total, followed by Quebec with 21.8 per cent and British Columbia with 8.7 per cent. The balance of the year's output was from Manitoba, Northwest Territories, Saskatchewan, Yukon, Nova Scotia and Alberta.

The gold mines received aid from the Emergency Gold Mining Assistance Act, which was designed to assist high cost or marginal mines to continue in operation during a period of rising costs. The estimated aid due for 1948 operations exceeded \$9 millions.

The cumulative total production of gold in Canada from 1858 to 1948 was 104,426,864 troy ounces valued at \$3,123,302,345.

The footage of diamond drilling done for exploration continued to decrease. On auriferous quartz deposits the footage in 1948 was 2,180,863 compared with 3,276,946 in 1947 and 4,984,752 in 1946. Exploratory diamond drilling in copper-gold-silver deposits remained at the approximate footage of the previous year.

Table 1 - PRODUCTION OF GOLD IN CANADA, FIFTY YEARS, 1899-1948

Year	Fine ounces	\$	Year	Fine ounces	\$
1899	1,028,529	21,261,584	1924	1,525,382	31,532,443
1900	1,350,057	27,908,153	1925	1,735,755	35,880,826
1901	1,167,216	24,129,503	1926	1,754,228	36,263,110
1902	1,032,161	21,336,667	1927	1,852,785	38,300,464
1903	911,559	18,843,590	1928	1,890,592	39,082,005
1904	796,374	16,462,517	1929	1,928,508	39,861,663
1905	684,951	14,159,195	1930	2,102,068	43,453,601
1906	556,415	11,502,120	1931	2,695,892	58,093,396
1907	405,517	8,382,780	1932	3,044,387	71,479,373
1908	476,112	9,842,105	1933	2,949,309	84,350,237
1909	453,865	9,382,230	1934	2,972,074	102,536,553
1910	493,707	10,205,835	1935	3,284,890	115,595,279
1911	473,159	9,781,077	1936	3,748,028	131,293,421
1912	611,885	12,648,794	1937	4,096,213	143,326,493
1913	802,973	16,598,923	1938	4,725,117	166,205,990
1914	773,178	15,983,007	1939	5,094,379	184,115,951
1915	918,056	18,977,901	1940	5,311,145	204,479,083
1916	930,492	19,234,976	1941	5,345,179	205,789,392
1917	738,831	15,272,992	1942	4,841,306	186,390,281
1918	699,681	14,463,689	1943	3,651,301	140,575,088
1919	766,764	15,850,423	1944	2,922,911	112,532,073
1920	765,007	15,814,098	1945	2,696,727	103,823,990
1921	926,329	19,148,920	1946	2,832,554	104,096,559
1922	1,263,364	26,116,050	1947	3,070,221	107,457,755
1923	1,233,341	25,495,421	1948	3,529,608	123,536,280

Table 2 - PRODUCTION OF NEW GOLD (*), BY PROVINCES AND TERRITORIES, 1939-1948

Year	Nova Scotia		Quebec		Ontario		Manitoba	
	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$
1939 ...	29,943	1,082,170	953,377	34,455,998	3,086,076	111,533,873	180,875	6,537,003
1940 ...	22,219	855,432	1,019,175	39,238,238	3,261,698	125,574,988	152,295	5,863,357
1941 ...	19,170	738,045	1,089,339	41,939,552	3,194,308	122,980,858	150,553	5,796,290
1942 ...	12,989	500,076	1,092,388	42,056,938	2,763,819	106,407,032	136,226	5,244,701
1943 ...	4,129	158,967	922,533	35,517,521	2,117,215	81,512,777	91,775	3,533,337
1944 ...	5,840	224,840	746,784	28,751,184	1,731,836	66,675,686	74,168	2,855,468
1945 ...	3,291	126,704	661,608	25,471,908	1,625,368	62,576,668	70,655	2,720,218
1946 ...	4,321	158,797	618,339	22,723,958	1,813,333	66,639,988	79,402	2,918,024
1947 ...	1,271	44,485	598,127	20,934,445	1,944,819	68,068,665	72,906	2,551,710
1948 ...	188	6,580	770,625	26,971,875	2,095,377	73,338,195	106,176	3,716,160

Year	Saskatchewan		British Columbia		Yukon		Northwest Territories	
	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$
1939 ...	77,120	2,787,194	626,970	22,659,323	87,745	3,171,192	51,914	1,876,224
1940 ...	102,925	3,962,613	617,011	23,754,924	80,458	3,097,633	55,159	2,123,621
1941 ...	138,015	5,313,578	608,203	23,415,816	70,959	2,731,922	74,417	2,865,054
1942 ...	178,871	6,886,533	474,339	18,262,052	83,246	3,204,971	99,394	3,826,669
1943 ...	174,090	6,702,465	241,346	9,291,821	41,160	1,584,660	59,032	2,272,732
1944 ...	122,782	4,727,107	196,857	7,578,994	23,818	916,993	20,775	799,838
1945 ...	108,568	4,179,868	186,854	7,193,879	31,721	1,221,258	8,655	333,218
1946 ...	112,101	4,119,712	136,242	5,006,893	45,286	1,664,260	23,420	860,685
1947 ...	93,747	3,281,145	249,011	8,715,385	47,745	1,671,075	62,517	2,188,095
1948 ...	87,927	3,077,445	306,998	10,744,930	60,614	2,121,490	101,625	3,556,875

(*) From all sources.

Note: Annual Alberta production was less than 375 ounces for the years specified.

Table 3 - PRODUCTION OF GOLD IN CANADA, BY MONTHS(*), 1946-1948

Table 3 - PRODUCTION OF GOLD IN CANADA, BY MONTH (1946-1948)							
Month	1946	1947	1948	Month	1946	1947	1948
	(fine ounces)				(fine ounces)		
January	238,502	234,194	273,415	July	239,583	261,461	296,247
February ...	229,488	223,071	261,650	August	231,151	260,954	305,452
March	248,308	263,933	287,760	September ...	229,966	247,703	294,963
April	238,604	254,951	286,124	October	241,003	258,828	306,989
May	240,702	268,975	288,474	November	231,305	252,235	311,399
June	234,503	269,163	290,102	December	229,439	274,753	327,033

(*) 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 4 - PRODUCTION OF GOLD FROM AURIFEROUS QUARTZ AND BASE METAL MINES, BY MONTHS, 1947 and 1948

Month	Gold production from base metal mines		Gold production from auriferous quartz mines and placer deposits	
	1947	1948	1947	1948
	(fine ounces)			
January	16,430	30,540	217,764	242,875
February	14,797	29,544	208,274	232,106
March	26,849	28,970	237,084	258,790
April	23,847	32,435	231,104	253,689
May	28,351	28,464	240,624	260,010
June	29,508	28,481	239,655	261,621
July	26,310	32,584	235,151	263,663
August	28,092	30,147	232,862	275,305
September	26,458	31,676	221,245	263,287
October	27,325	31,363	231,503	275,626
November	23,427	32,742	228,808	278,657
December	25,723	32,728	249,030	294,305
TOTAL	297,117	369,674	2,773,104	3,159,934

Table 5 - TOTAL (CUMULATIVE) RECORDED PRODUCTION IN CANADA OF SPECIFIED METALS TO DECEMBER 31, 1948

	Since	Unit of measure	Quantity	Value
				\$
Gold	1858	fine ounces	104,426,864	3,123,302,545
Silver	1887	fine ounces	935,020,934	532,227,511
Copper	1886	tons	5,749,212	1,441,836,947
Nickel	1889	tons	2,560,005	1,401,714,171
Lead	1887	tons	4,962,865	514,220,548
Zinc	1898	...	...	462,521,753
Cobalt	1904	tons	18,358	36,791,980

Table 6 - PRODUCTION OF NEW GOLD IN CANADA, BY PROVINCES AND SOURCES, 1947 and 1948
(Gold at \$20.671834 per fine ounce)

	1947		1948	
	Fine troy ounces	\$	Fine troy ounces	\$
Nova Scotia -				
In gold bullion	1,271	26,274	188	3,886
Estimated exchange equalization on gold produced	...	18,211	...	2,694
Total Value--Canadian Funds .....	...	44,485	...	6,580
Quebec -				
In gold bullion	465,177	9,616,062	575,651	11,899,762
In anode copper (b)	125,858	2,601,716	184,499	3,813,933
In ores, etc., exported	7,092	146,605	10,475	216,537
Total	598,127	12,364,383	770,625	15,930,232
Estimated exchange equalization on gold produced	...	8,570,062	...	11,041,643
Total Value--Canadian Funds .....	...	20,934,445	...	26,971,875
Ontario -				
Porcupine area--In gold bullion (c)	937,415	19,378,087	998,838	20,647,813
Kirkland Lake--In gold bullion (a)(c)	627,094	12,963,183	652,032	13,478,697
Other gold mines--In gold bullion (c)	331,260	6,847,752	394,481	8,154,646
In converter copper from nickel-copper ores	36,722	759,111	34,691	717,127
In ores, matte, etc., exported	12,328	254,843	15,335	317,003
Total	1,944,819	40,202,976	2,095,577	43,315,286
Estimated exchange equalization on gold produced	...	27,865,689	...	30,022,909
Total Value--Canadian Funds .....	...	68,068,665	...	73,338,195
Manitoba -				
In gold bullion	42,325	874,935	63,074	1,303,855
In blister copper	30,581	632,165	43,102	890,997
Total	72,906	1,507,100	106,176	2,194,852
Estimated exchange equalization on gold produced	...	1,044,610	...	1,521,308
Total Value--Canadian Funds .....	...	2,551,710	...	3,716,160
Saskatchewan -				
In alluvial gold	4	83	4	83
In blister copper	93,743	1,937,840	87,923	1,817,529
Total	93,747	1,937,923	87,927	1,817,612
Estimated exchange equalization on gold produced	...	1,343,222	...	1,259,833
Total Value--Canadian Funds .....	...	3,281,145	...	3,077,445
Alberta -				
In alluvial gold	78	1,612	78	1,612
Estimated exchange equalization on gold produced	...	1,118	...	1,118
Total Value--Canadian Funds .....	...	2,730	...	2,730
British Columbia -				
In alluvial gold	5,732	118,491	18,133	374,842
In gold bullion	126,109	2,606,904	153,208	3,167,090
In base bullion	4,712	97,406	6,858	141,767
In ores, etc., exported	112,458	2,324,713	128,799	2,662,512
Total	249,011	5,147,514	306,998	6,346,211
Estimated exchange equalization on gold produced	...	3,567,871	...	4,398,719
Total Value--Canadian Funds	8,715,385	...	10,744,930

Gold

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Table 6 - PRODUCTION OF NEW GOLD IN CANADA, BY PROVINCES AND SOURCES, 1947 and 1948 (Concluded)
(Gold at \$20.671854 per fine ounce)

	1947		1948	
	Fine troy ounces	\$	Fine troy ounces	\$
Northwest Territories -				
In ores, etc., shipped, and in placer	26	537	...	...
In gold bullion produced	62,491	1,291,804	101,625	2,100,775
Total	62,517	1,292,341	101,625	2,100,775
Estimated exchange equalization on gold produced	...	895,754	...	1,456,100
Total Value--Canadian Funds .....	...	2,188,095	...	3,556,875
Yukon -				
In alluvial gold	47,679	985,612	60,606	1,252,837
In ores exported	66	1,364	8	165
Total	47,745	986,976	60,614	1,253,002
Estimated exchange equalization on gold produced	...	684,099	...	868,488
Total Value--Canadian Funds .....	...	1,671,075	...	2,121,490
TOTAL FOR CANADA	3,070,221	63,467,099	3,529,608	72,963,468
Total Estimated Exchange Equalization on Gold Produced .....	...	43,990,636	...	50,572,812
GRAND TOTAL VALUE, INCLUDING EXCHANGE .....	...	107,457,735	...	123,536,280

Note: The estimated average price of a troy ounce of fine gold in Canadian funds was \$35 in 1947 and 1948.

(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 7 - GOLD RECOVERED IN CANADA ACCORDING TO NATURE OF ORE, BY PROVINCES, 1946-1948

Year and Province	Placer gold	Auriferous quartz ores	Copper-gold silver ores (fine ounces)	Nickel-copper ores	Silver-lead and other ores	TOTAL
1946						
Nova Scotia .....	...	4,321	...	...	...	4,321
Quebec .....	...	440,263	167,850	...	10,226(*)	618,339
Ontario .....	...	1,761,717	...	51,490	126	1,813,333
Manitoba .....	...	43,819	35,583	...	...	79,402
Saskatchewan	2	...	112,099	...	...	112,101
Alberta	110	...	...	...	...	110
British Columbia	15,530	108,944	7,287	...	4,481	136,242
Northwest Territories	...	23,420	...	...	...	23,420
Yukon	45,283	...	...	...	3	45,286
TOTAL CANADA	60,925	2,582,484	322,819	51,490	14,836	2,832,554
1947						
Nova Scotia .....	...	1,271	...	...	...	1,271
Quebec .....	...	488,547	102,488	...	7,092(*)	598,127
Ontario .....	...	1,901,096	...	43,672	51	1,944,819
Manitoba .....	...	42,325	30,581	...	...	72,906
Saskatchewan	4	...	93,743	...	...	93,747
Alberta	78	...	...	...	...	78
British Columbia	5,732	211,572	15,241	...	16,466	249,011
Northwest Territories	26	62,491	...	...	...	62,517
Yukon	47,679	...	...	...	66	47,745
TOTAL CANADA	53,519	2,707,302	242,053	43,672	23,675	3,070,221

Table 7 - GOLD RECOVERED IN CANADA ACCORDING TO NATURE OF ORE, BY PROVINCES, 1946-1948 (Concluded)

Year and Province	Placer gold	Auriferous quartz ores	Copper-gold silver-ores (fine ounces)	Nickel-copper ores	Silver-lead and other ores	TOTAL
1948						
Nova Scotia .....	...	188	...	...	...	188
Quebec .....	...	605,186	154,964	...	10,475	770,625
Ontario .....	...	2,055,625	...	39,752	...	2,095,377
Manitoba .....	...	63,074	43,102	...	...	106,176
Saskatchewan	4	...	87,923	...	...	87,927
Alberta	78	...	...	...	...	78
British Columbia	18,133	255,415	19,333	...	14,117	306,998
Northwest Territories	...	101,625	...	...	...	101,625
Yukon	60,606	...	...	...	8	60,614
TOTAL CANADA	78,821	3,081,113	305,322	39,752	24,600	3,529,608

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

Table 8 - GOLD PRODUCTION IN CANADA ACCORDING TO METHOD OF COMPUTATION AND RECOVERY, 1939-1948

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.
1939	2.5	82.1	0.6	10.4	4.4	5,094,579
1940	2.1	82.7	0.6	10.0	4.6	5,311,145
1941	2.0	82.6	0.4	10.3	4.7	5,345,179
1942	2.3	80.8	0.2	12.1	4.6	4,841,506
1943	1.45	78.71	0.19	15.61	4.04	3,651,501
1944	1.14	78.98	0.12	15.41	4.55	2,922,911
1945	1.55	76.77	0.09	15.50	6.29	2,696,727
1946	2.15	80.91	0.16	13.48	3.50	2,852,554
1947	1.74	84.4	0.15	9.41	4.3	5,070,221
1948	2.23	83.19	0.22	10.01	4.55	5,529,608

(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 9 - PRODUCTION OF GOLD AND SILVER IN CANADA BY PRINCIPAL MINES, 1948

Property and Province	Ore hoisted tons	Material sorted (discarded) tons	Ore treated tons	Gold produced fine oz.	Silver produced fine oz.	Mill capacity 24 hours tons	See foot- notes
Nova Scotia -							
Royal Canadian Mint receipts	...	...	...	188	8	...	
Quebec -							
Anglo-Rouyn	7,048	...	7,048	1,566	946	...	(a)
Belleterre	144,123	11,447	132,626	42,087	4,445	350	(c)
Bevcourt	13,700	...	8,720	1,518	616	...	(g)
Canadian Malartic	344,528	...	344,528	52,805	24,050	1,000	(c)
Consolidated Beattie	462,000	...	462,000	49,890	7,054	1,800	(c)
Consolidated Central Cadillac	119,373	2,561	116,865	15,558	1,945	400	(c)
Donalda	13,810	...	13,810	2,552	2,350	...	(h)
East Malartic	295,693	...	295,693	58,976	10,510	1,500	(c)
Elder	96,632	...	...	11,210	...	...	(b)
Hosco	22,912	...	21,692	2,864	55	150	(a)(c)
Lamaque	351,110	...	351,110	71,797	14,032	1,200	(c)
Louvencourt	145,180	15,824	129,344	16,440	4,335	450	(c)
Malartic Goldfields	299,518	...	299,518	60,345	2,169	750	(c)
New Marlon	63,295	1,840	61,455	11,016	2,271	175	(c)
New Rouyn Merger	23,514	...	...	4,169	...	...	(b)

Table 9 - PRODUCTION OF GOLD AND SILVER IN CANADA BY PRINCIPAL MINES, 1948 (Continued)

Property and Province	Ore hoisted tons	Material sorted (discarded) tons	Ore treated tons	Gold produced fine oz.	Silver produced fine oz.	Mill capacity 24 hours tons	See foot- notes
Quebec (Concluded) -							
O'Brien	57,248	...	56,935	29,215	1,833	200	(a)(c)
Perron	112,981	195	112,786	20,807	1,400	425	(c)
Powell Rouyn	124,256	...	21,034	15,195	373	450	(c)
Senator Rouyn	135,932	...	135,932	19,114	5,129	600	(c)
Sigma	408,155	...	408,155	68,769	14,674	1,100	(c)
Siscoe Gold	67,222	...	67,222	16,212	2,226	270	(a)(c)
Sladen Malartic	205,859	1,689	204,170	15,875	8,322	700	(c)
Stadacona	132,709	...	132,709	25,062	6,438	375	(c)
Sullivan Consolidated	176,971	31,064	145,907	31,418	9,660	500	(c)
Total Principal Gold Mines ..				604,260	124,811		
Copper-gold and other ores ..				166,365	2,251,943		
Total Quebec				770,625	2,376,754		
Ontario -							
Porcupine District							
Aunor	176,564	...	176,564	57,079	4,511	300	(c)
Bonetal	42,919	...	42,919	4,916	492	...	(d)
Broulan	80,824	11,016	69,808	14,978	2,116	350	(c)
Buffalo Ankerite	188,714	1,500	186,635	31,277	2,398	1,200	(c)
Coniaurum	129,175	...	129,175	33,859	6,317	500	(c)
Delnite	124,692	...	124,835	33,789	2,708	520	(c)
Dome	620,800	...	620,800	155,470	29,762	1,700	(a)(c)
Hallnor	127,059	...	127,059	45,216	3,379	400	(c)
Hollinger Consolidated (Timmins)	1,124,673	...	1,127,523	263,967	51,214	3,900	(c)
(Ross)	106,254	...	106,058	19,495	48,247	300	(c)
Hoyle	104,589	1,128	103,461	8,309	4	...	(e)
Hugh Pam	1,207	...	1,207	46	...	...	(d)
McIntyre Porcupine	673,654	...	673,950	194,525	58,068	2,400	(c)
Naybob (1945)	11,481	...	11,481	547	58	...	(c)
Pamour	412,352	...	412,352	37,914	5,178	1,600	(c)
Paymaster	165,066	...	158,123	33,968	12,506	600	(c)
Preston East Dome	238,057	...	237,405	53,116	6,357	800	(a)(c)
Porcupine Reef	47,817	...	47,817	10,353	...	...	(d)
Kirkland Lake District							
Bidgood Kirkland	43,897	...	43,767	11,268	1,840	125	(c)
Kirkland Lake Gold	93,882	...	93,882	39,310	3,391	400	(c)
Lake Shore	344,542	...	344,542	144,904	53,015	1,500	(c)
Macassa	103,650	...	103,650	40,791	6,397	400	(c)
Sylvanite	167,435	...	167,435	44,502	10,047	600	(c)
Teck-Hughes	73,885	...	73,885	28,772	5,041	600	(c)
Toburn	50,961	5,152	45,809	14,227	3,709	175	(c)
Upper Canada	119,279	...	119,279	36,574	11,549	350	(c)
Wright-Hargreaves	187,790	...	187,790	87,540	18,002	1,200	(c)
Larder Lake District							
Chesterville	306,713	...	310,564	37,484	1,591	900	(c)
Kerr-Addison	895,215	...	889,711	166,617	9,481	2,000	(c)
Matachewan District							
Hollinger Consolidated (Young Davidson)	251,295	...	250,509	22,264	4,336	1,050	(c)
Matachewan-Consolidated	256,427	...	256,252	26,695	12,270	1,000	(c)
Sudbury District							
Renable	100,622	...	100,072	23,918	8,048	425	(c)

Table 9 - PRODUCTION OF GOLD AND SILVER IN CANADA BY PRINCIPAL MINES, 1948 (Continued)

Property and Province	Ore hoisted tons	Material sorted (discarded) tons	Ore treated tons	Gold produced fine oz.	Silver produced fine oz.	Mill capacity 24 hours tons	See foot- notes
<u>Ontario (Concluded) -</u>							
<u>Thunder Bay District</u>							
Hardrock	87,128	5,092	82,036	10,658	735	450	(c)
Leitch	42,861	9,854	31,822	27,361	1,050	90	(a)(c)
Little Long Lac	112,528	16,698	95,830	25,368	2,324	300	(a)(c)
MacLeod-Cockshutt	230,175	53,954	176,221	40,318	637	650	(c)
Magnet Consolidated	21,140	...	21,140	8,173	918	150	(a)(c)
<u>Patricia District</u>							
Berens River	49,930	...	49,930	10,274	402,859	225	(f)
Central Patricia	141,028	...	141,028	42,359	3,643	400	(c)
Cochenour Willans	75,591	...	75,591	34,089	925	225	(a)(c)
Dickenson Red Lake	8,861	...	1,465	148	...	150	(c)
Hasaga	136,307	815	135,212	22,079	10,895	400	(a)(c)
Madsen Red Lake	165,780	...	151,686	35,228	8,286	400	(a)(c)
McKenzie Red Lake	88,974	13,007	75,967	20,274	4,755	240	(c)
McMarmac Red Lake	13,214	...	13,154	4,060	115	75	(a)(c)
Pickle Crow	115,072	7,918	107,319	46,461	6,747	400	(a)(c)
Starratt-Olsen	34,031	...	33,501	4,230	691	500	(c)
Total Principal Gold Mines				2,054,770	826,612		
Nickel-copper and other mines				40,607	2,383,495		
Total Ontario				2,095,377	3,210,107		
<u>Manitoba -</u>							
Jeep Gold	7,906	...	8,294	7,685	...	...	(i)
Ogama-Rockland	31,946	1,107	27,546	9,740	1,044	150	(c)
San Antonio	154,820	...	154,953	45,498	7,981	550	(a)(c)
Copper-gold and other ores				43,253	728,273		
Total Manitoba				106,176	737,298		
<u>Saskatchewan -</u>							
Copper-gold and alluvial ores				87,927	1,323,900		
<u>Alberta -</u>							
Alluvial gold				78	7		
<u>British Columbia -</u>							
Bralorne	150,240	2,121	148,119	75,459	21,460	500	(a)
Cariboo Gold Quartz	73,726	...	73,726	22,757	2,322	375	(c)
Hedley Mascot	42,788	...	42,788	13,880	3,470	225	(c)
Hedley Monarch	320	65	255	137	117	...	
Island Mountain	40,752	...	40,752	16,907	2,487	150	(c)
Kelowna Exploration	115,556	...	115,556	42,397	3,155	325	(c)
Kenville	46,228	10,289	35,939	10,036	4,152	125	(c)
Kootenay Central	1,150	600	550	741	606	...	
Privateer	23,648	9,248	14,402	10,484	5,059	75	(c)
Pioneer	55,821	3,418	52,211	23,643	5,043	325	(c)
Polaris-Taku	102,624	...	102,624	29,156	1,245	300	(f)
Sheep Creek Gold	25,432	...	25,432	8,273	2,624	150	(c)
Total Principal Gold Mines				253,870	51,740		
Placer gold				18,133	2,017		
Copper-gold and other ores				34,995	6,664,151		
Total British Columbia ..				306,998	6,717,908		

Gold

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Table 9 - PRODUCTION OF GOLD AND SILVER IN CANADA BY PRINCIPAL MINES, 1948 (Concluded)

Property and Province	Ore hoisted tons	Material sorted (discarded) tons	Ore treated tons	Gold produced fine oz.	Silver produced fine oz.	Mill capacity 24 hours tons	See foot- notes
Northwest Territories -							
Consolidated Mining & Smelting	100,697	...	100,697	55,253	14,456	350	(a)(c)
Giant Yellowknife	42,092	...	49,985	8,152	2,000	500	(a)
Negus	55,181	3,598	51,497	23,303	5,989	175	(a)(c)
Thompson-Lundmark	41,284	3,241	37,757	14,653	2,904	125	(c)
Other ores				264	33		
Total Northwest Territories				101,625	25,382		
Yukon -							
Placer and silver-lead ores				60,614	1,718,618		
TOTAL CANADA				3,529,608	16,109,982		
(a) Amalgamation process.				(e) Shipped to Pamour Porcupine.			
(b) Shipped to smelter.				(f) Flotation process, concentrates exported.			
(c) Cyanidation.				(g) Shipped to Perron mill.			
(d) Shipped to Broulan mill.				(h) Shipped to Powell Rouyn mill.			
				(i) Shipped to San Antonio mill.			

Table 10 - GOLD PRODUCTION OF THE WORLD (a) - (In Fine Ounces) - 1944, 1947 and 1948 (Taken from American Bureau of Metal Statistics)

Country	1944	1947	1948
North America -			
United States	1,001,865	2,320,531	2,099,178
Canada	2,922,911	3,070,221	3,527,606
Mexico	508,870	464,728	339,183
Newfoundland	18,329	14,600	12,252
Total North America	4,451,975	5,870,080	5,978,219
Central America and West Indies	275,000	250,000	270,000
South America -			
Brazil	178,300	135,000	130,000
Chile	203,749	168,852	164,254
Colombia	553,530	383,027	335,260
Ecuador	84,234	55,000	70,000
Peru	175,180	116,014	111,160
Guiana—British	18,986	26,389)	
Dutch	5,722	4,128)	45,000
French	18,583	14,930)	
Venezuela	59,064	21,830	43,000
Other South America	25,000	20,000	20,000
Total South America	1,322,348	945,170	918,674
Europe	400,000	400,000	400,000
Oceania -			
New South Wales	62,610	50,082	57,463
Queensland	51,223	72,281	69,004
Victoria	54,086	84,709	68,580
Western Australia	466,265	703,886	664,986
Tasmania	16,653	15,051	12,904
New Guinea .....	...	59,202	86,556
New Zealand	142,287	112,260	93,903
Fiji	40,443	94,295	98,000
Other Oceania	6,030	11,645	17,491

Table 10 - GOLD PRODUCTION OF THE WORLD (a) - (In Fine Ounces) - 1944, 1947 and 1948 (Concluded)

Country	1944	1947	1948
Asia -			
India	188,200	171,782	185,000
Philippines	(c)	64,441	212,874
Saudi Arabia	8,683	52,000	74,000
Japan	356,200	69,200	
Korea	118,957		
Other Asia	30,676	5,208	
Africa -			
Bechuanaland	11,575	7,381	
Belgian Congo	364,195	301,438	299,734
British West Africa (b)	544,582	560,000	675,000
Ethiopia	63,720	25,700	
French Cameroons	18,378	11,574	
French Equatorial Africa	74,104	63,100	47,000
Kenya	42,273	21,959	22,000
Liberia	30,772	19,000	
Madagascar	9,388	1,521	2,000
Rhodesia	593,038	522,966	514,620
Tanganyika	55,148	47,300	57,557
Transvaal, Cape Colony, Natal ..	12,277,228	11,197,638	11,574,871
Uganda	2,593	1,432	
Other Africa	16,940	21,503	
TOTAL WORLD - Except Russia	22,096,170	21,833,804	

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

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

(c) Included with the United States.

Table 11 - ESTIMATED AVERAGE MONTHLY VALUE OF AN OUNCE OF FINE GOLD, EXPRESSED IN CANADIAN FUNDS, 1933-1948

Month	1933	1934	1935	1936	1937	1938	1939	(1940) (1945)	1946	(1947) (1948)
(Dollars)										
January	23.64	33.05	34.95	35.06	35.01	34.99	35.30	38.50	38.50	35.00
February	24.74	35.29	35.05	35.18	35.01	35.00	35.19	38.50	38.50	35.00
March	24.78	35.08	35.40	35.11	34.98	35.05	35.13	38.50	38.50	35.00
April	25.33	34.93	35.18	35.13	34.95	35.15	35.15	38.50	38.50	35.00
May	27.75	34.94	34.95	35.00	34.94	35.22	35.13	38.50	38.50	35.00
June	28.24	34.73	35.05	35.09	35.02	35.36	35.07	38.50	38.50	35.00
July	30.58	34.59	35.08	34.91	35.05	35.24	35.06	38.50	35.35	35.00
August	30.09	34.19	35.09	35.00	35.00	35.12	35.01	38.50	35.00	35.00
September	31.79	34.18	35.28	34.99	35.00	35.12	37.21	38.50	35.00	35.00
October	31.48	34.27	35.49	34.99	34.99	35.32	38.43	38.50	35.00	35.00
November	32.68	34.16	35.37	34.95	34.98	35.25	38.50	38.50	35.00	35.00
December	32.14	34.57	35.33	34.98	34.93	35.28	38.50	38.50	35.00	35.00
YEARLY AVERAGE	28.60	34.50	35.19	35.03	34.99	35.17	36.14	38.50	36.75	35.00

Table 12- PRECIOUS METALS CONSUMED BY THE JEWELLERY AND SILVERWARE INDUSTRY IN CANADA, 1946 and 1947

Material	Cost at Works	
	1946	1947
Fine gold	\$ 5,318,697	\$ 5,145,343
Gold alloys	856,206	586,108
Fine silver	4,317,761	2,708,620
Silver alloys	1,947,151	1,840,066
Platinum	696,405	439,577
Old gold, jewellers' findings, waste and scrap for refining	1,335,776	1,175,922
Gold-filled wire and stock	379,308	228,242
Precious and semi-precious stones	2,412,085	1,602,698

TREND IN EMPLOYMENT, 1948Mining

Activity in the mining group was greater in 1948 than in 1947 or any earlier year except 1941. The latest annual index number of employment, at 173.6, was 9.8 per cent higher than in the preceding 12 months. In part, this improvement was due to better labour management relations in the industry, the situation in 1947 having been seriously affected by disputes, particularly in coal mining. This factor was of greatly lessened importance in 1948.

Accompanying the expansion in employment recorded in the year under review in mining as a whole, was a rise of 24.2 per cent in the weekly salaries and wages disbursed by the 663 leading operators from whom statistics were received in 1948. Their employees were then paid a weekly average of \$48.77, as compared with \$43.03 in 1947, \$39.21 in 1946, \$38.60 in 1945, \$38.05 in 1944, \$36.09 in 1943, and \$34.79 in 1942; the comparable 1939 figure was \$28.68. The hourly earnings of the wage-earners in mining for whom monthly data on man-hours were available averaged 111.1 cents, as compared with 98 cents in 1947, 87.3 cents in 1946 and 85 cents in 1945.

Coal Mining - The larger coal-mine operators reported a considerable increase in their staffs in 1948 as compared with 1947. As already stated, a reduction in the losses suffered in industrial disputes in the year under review contributed to the improved situation then indicated. It must also be noted, however, that with the exception of 1947, the time loss in man-working days in this industry was greater in 1948 than in any earlier year since 1925. Although the index number of employment, at 86.5, was 10.9 per cent higher than in 1947, it was lower than in any preceding year since 1933.

The sums disbursed in weekly salaries and wages by the reporting employers showed an advance of 28.3 per cent in 1948 as compared with 1947. The most recent payroll index was the highest in the monthly record, established only in the spring of 1941. The average earnings of their employees stood at \$47.81, as compared with \$41.61 in 1947 and \$39.03 in 1946. In 1939, the weekly earnings of persons employed by the same operators averaged \$22.16.

The wage-earners for whom record of hours worked were available received an average of 123.5 cents per hour in 1948, as compared with 110.4 cents, 95.9 cents and 93.8 cents in 1947, 1946 and 1945 respectively. The average hours worked per week rose from 36.9 in 1947; when losses due to strikes were especially heavy, to 38.2 hours per week in 1948. In both 1946 and 1945, the average had been 40.2 hours per week.

Metallic Ores - The volume of employment in the larger metal mines in 1948 was greater than in 1947 or any earlier year since 1942. At 326.0, the latest index number exceeded the 1947 figure by 8.6 per cent. The accompanying increase in the index number of payrolls was 19.8 per cent, bringing the 1948 figure to its highest position in the record.

The weekly salaries and wages reported by the 332 co-operating mines averaged \$51.12 per employee, as compared with \$46.25 in 1947. The previous annual average weekly earnings were: 1946, \$41.63; 1945, \$41.02; 1944, \$40.68; 1943, \$39.70, and 1942, \$38.60. The comparable figure in 1939 was \$33.46. During 1948, the hours worked by the wage-earners employed in these establishments averaged 44.7 per week, as compared with 44.4, 45.1 and 45.8 in 1947, 1946 and 1945, respectively. The average hourly rate in 1948 was 110.2 cents, as compared with 99.4 cents in 1947, 87.4 cents in 1946, and 85 cents in 1945.

Non-metallic Minerals other than Coal - The trend of employment in the extraction of miscellaneous non-metallic minerals continued upward in 1948, when activity in construction work again reached a high level. The index number of employment in quarries, asbestos mines, oil wells, etc., stood at 241.2 in 1948, exceeding by 12 per cent the previous high figure of 215.4 in 1947. In the year, the index of payrolls rose by 33 per cent, also to a new all-time maximum. The sums expended in weekly salaries and wages by the 180 larger firms in the miscellaneous non-metallic mineral mining group represented a weekly average of \$44.06 for their employees. In 1947, 1946, 1945, 1944, 1943 and 1942, the per capita figures were \$36.88, \$32.77, \$32.64, \$32.34, \$30.84 and \$28.51 respectively. The comparable figure in 1939 was \$24.17.

LEGISLATION AND TAXATION

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

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

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

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

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

Table 13 - EMERGENCY GOLD MINING ASSISTANCE ACT--ESTIMATED AID DUE ON OPERATIONS DURING 1948

Province	Estimated aid due
	\$
Nova Scotia	150
Quebec	2,830,428
Ontario	4,730,135
Manitoba	163,509
British Columbia	1,073,621
Northwest Territories	667,361
CANADA	9,465,204

THE ALLUVIAL GOLD MINING INDUSTRY, 1948

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

In 1948 there were 78,821 troy ounces of fine gold recovered from crude gold obtained in Canadian alluvial deposits. This is an increased production of 14.7 per cent from the preceding year. Reviewing the past twenty years, it is noted that the peak of production of placer gold occurred in 1939, and lowest annual output was in 1944.

No placer gold mining operations were reported for 1948 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 1948 were made chiefly from deposits located in the Atlin and Cariboo districts.

Yukon - About 75 per cent of the placer gold recovered in Canada during 1948 was found in the creeks of the Yukon.

Table 14 - SUMMARY STATISTICS OF ALLUVIAL GOLD MINING IN CANADA, 1947 and 1948

	1947			1948		
	British Columbia	Yukon	Alberta, Saskatchewan and Northwest Territories(a)	British Columbia	Yukon	Alberta and Saskatchewan(a)
Number of firms and individual operators (d)	41	5	...	43	4	...
Number of employees	64	394	...	126	369	...
Salaries and wages paid \$	141,979	1,542,470	...	330,411	1,272,654	...
Electricity generated for own use K.W.H.	25,000	28,330,800	...	...	22,868,900	...
Electricity generated for sale .....	...	5,934,500	...	...	6,486,300	...
Crude gold recovered: fine ounces (c)	4,675	47,679	108	18,133	60,606	82
Quantity of material handled: cu.yd. ....	...	7,054,753	...	1,692,585	7,813,449	...
Length of ditches .. miles (b)	15	48	...	33	53	...
Total gross value of alluvial products \$	200,620	1,668,765	3,780	636,167	2,130,525	2,870
Fuel and electricity used \$	15,523	124,073	...	68,079	124,698	...
Process supplies used \$	59,981	18,900	...	235,597	26,694	...
Cost of freight and express on dust, nuggets, bullion, etc., shipped (c)	817	17,988	...	1,581	23,047	...
Cost of smelter, refinery and mint treatment on material shipped (c)	199	598	...	2,648	805	...
Total net value of alluvial products \$	124,100	1,507,206	3,780	328,262	1,955,281	2,870

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

Table 15 - ALLUVIAL GOLD RECOVERED AND QUANTITY OF MATERIAL HANDLED (b), 1939-1948

Year	British Columbia				Yukon				Average value gold per fine ounce
	Material handled (c)	Gold recovered	Ounces per cu.yd.	Value per cu.yd.	Material handled (c)	Gold recovered	Ounces per cu.yd.	Value per cu.yd.	
	cu. yd.	fine oz.	fine oz.	\$	cu. yd.	fine oz.	fine oz.	\$	
1939 ...	4,779,407	39,797	0.0083	0.2999	11,152,198	85,572	0.0077	0.2782	36.14
1940 ...	6,680,457	32,128	0.0048	0.1848	11,551,170	79,905	0.0069	0.2656	38.50
1941 ...	4,587,103	35,020	0.0076	0.2926	8,792,220	70,847	0.0081	0.3119	38.50
1942 ...	1,884,887	26,323	0.0139	0.5352	11,875,833	83,198(a)	0.0070	0.2695	38.50
1943 ...	754,202	11,680	0.0156	0.6006	8,028,117	41,157(a)	0.0051	0.1964	38.50
1944 ...	531,737	9,402	0.0177	0.6815	4,687,174	23,816(a)	0.0050	0.1956	38.50
1945 ...	263,527	10,071	0.0382	1.4707	2,981,599	31,721(a)	0.0106	0.4081	38.50
1946 ...	428,603	15,530	0.0362	1.5303	5,917,740	45,283(a)	0.0076	0.2793	36.75
1947 ...	478,667	5,732	0.0120	0.4191	7,054,753	47,679(a)	0.0067	0.2365	35.00
1948 ...	1,692,585	18,133	0.0107	0.3750	7,813,449	60,606(a)	0.0078	0.2715	35.00

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

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

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

Table 16 - FUEL AND ELECTRICITY USED BY THE ALLUVIAL GOLD MINING INDUSTRY DURING 1948

Kind	Unit of Measure	Quantity	Cost at Plant
\$			
Bituminous coal -			
From Canadian mines	short ton	15	1,550
Coke	short ton	2	253
Gasoline	Imp. gal.	74,120	38,248
Kerosene or coal oil	Imp. gal.	854	705
Fuel oil and diesel oil	Imp. gal.	415,055	125,036
Wood (cords of 128 cubic feet of piled wood)	cord	1,426	26,970
Other fuel .....	...	...	15
TOTAL .....	...	...	192,777
Electricity generated - (a) For own use	K.W.H.	22,868,900	...
(b) For sale	K.W.H.	6,486,300	31,431

Table 17 - POWER EQUIPMENT IN THE ALLUVIAL GOLD MINING INDUSTRY, 1948

Description	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power	Number of units	Total horse power
Steam engines .....	...	...	1	20
Diesel engines	28	3,675	6	225
Gasoline, gas and oil engines, other than Diesel engines	25	708	3	11
Hydraulic turbines or water wheels	3	15,000	2	50
TOTAL	56	19,383	13	307
Electric motors operated by power generated by the establishment	155	12,910	250	6,000
Stationary power boilers	1	15	...	...
Motor-generator sets	3	370	2	18

THE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA

The great part of the gold of Canada comes from the Canadian Shield, an immense area of pre-cambrian 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.

In 1948 there were 280 active auriferous quartz mines compared with 517 in 1947, indicating that many prospects ceased development work. The number of producing properties totalled 101 during the year under review, as against 104 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 \$108,664,082 in 1948 compared with \$96,126,278 in 1947. The major producing provinces were Ontario with \$72,607,828, Quebec with \$21,351,998, and British Columbia with \$8,927,221.

Employees in the lode gold mining industry totalled 22,566 compared with 22,906 in 1947. Salaries and wages paid amounted to \$59,515,678 as against \$54,612,474 in the preceding year. Fuel and electricity cost \$6,982,231 and process supplies used amounted to \$19,536,566. The Canadian gold mining companies paid \$4,537,724 in taxes and spent \$2,496,382 in prospecting and preliminary exploration of new areas or deposits.

Table 18 - PRINCIPAL STATISTICS OF THE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA, 1947 and 1948

	Number of active opera- tors (b)	Number of em- ployees	Salaries and wages	Cost of fuel and electri- city	Cost of process supplies used (a)	Amount of freight, etc. paid on ship- ments of ore, slag, etc.	Smelter and refinery treatment costs	Gross value of bullion ore, concen- trates or residues shipped from mines (c)	Net value of bullion, ore, concentrates or residues shipped from mines (c)
			\$	\$	\$	\$	\$	\$	\$
1947									
Nova Scotia ...	3	14	21,261	3,883	100	1,597	1,031	29,990	23,379
Quebec	258	4,855	11,413,084	1,906,315	3,385,331	72,985	197,354	17,264,111	11,702,126
Ontario	153	14,574	34,478,742	4,019,260	11,706,846	103,372	439,498	66,962,574	50,693,598
Manitoba	22	601	1,497,783	218,931	277,124	3,676	12,034	1,486,035	974,270
Saskatchewan ..	...	...	...	...	...	...	...	...	...
British									
Columbia	40	2,020	4,720,450	540,792	2,054,829	276,217	281,518	8,184,566	5,031,210
Northwest									
Territories..	39	830	2,441,859	435,393	361,995	11,722	16,699	2,199,002	1,373,193
Yukon	1	12	39,295	5,085	64,741	...	...	...	-69,826
CANADA	516	22,906	54,612,474(d)	7,129,659	17,850,966	469,569	948,134	96,126,278	69,727,950
1948									
Nova Scotia ...	3	6	7,951	259	10	...	17	1,515	1,229
Quebec	140	4,929	12,096,719	1,730,226	4,184,514	161,030	337,378	21,351,998	14,938,850
Ontario	89	14,353	38,056,266	3,903,298	12,633,666	137,358	508,991	72,607,828	55,424,515
Manitoba	10	679	1,705,538	258,294	325,945	7,962	57,772	2,208,978	1,559,005
Saskatchewan ..	1	3	5,071	735	...	...	...	...	-735
British									
Columbia	26	1,816	5,071,423	548,593	1,827,835	294,730	225,383	8,927,221	6,030,680
Northwest									
Territories..	11	790	2,572,710	540,826	564,596	7,973	20,179	3,566,542	2,432,968
CANADA	280	22,566	59,515,678(d)	6,982,231	19,536,566	609,053	1,149,720	108,664,082	80,386,512

(a) Explosives, chemicals, etc.

(b) Producing mines: 1947--104; 1948--101.

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

(d) Includes in salaries \$7,606,569 for 1947 and \$7,734,997 in 1948.

Table 19 - PRINCIPAL STATISTICS RELATING TO PRODUCERS ONLY IN THE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA, 1948

Province	Number of producing plants or mines	Number of employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies used (a)	Value of freight paid on shipments of ore, slag, etc.	Smelter and refinery treatment costs (b)	Gross value of bullion, ore, concentrates or residues shipped from mines (c)	Net value of bullion, ore, concentrates or residues shipped from mines (c)
			\$	\$	\$	\$	\$	\$	\$
Nova Scotia	1	1 ^o	835	...	...	17	...	1,515	1,498
Quebec	25	4,480	11,072,341	1,572,326	3,973,267	161,030	337,578	21,351,998	15,307,997
Ontario	49	13,914	36,872,660	3,792,101	12,455,245	137,358	508,991	72,607,828	55,714,133
Manitoba	3	408	955,696	172,866	258,547	7,962	57,772	2,208,978	1,711,831
British Columbia	19	1,785	4,983,794	539,611	1,827,835	294,730	225,383	8,927,221	6,039,662
Northwest Territories	4	737	2,435,742	524,616	555,546	7,973	20,179	3,566,542	2,458,228
CANADA, 1948	101	21,325	56,321,068	6,601,520	19,070,440	609,053	1,149,720	108,664,082	81,233,349
Canada, 1947	104	20,229	47,881,992	6,221,601	16,577,722	469,569	948,134	96,126,278	71,909,252
Canada, 1946	88	18,790	40,353,652	5,596,595	13,560,586	305,807	1,112,944	88,422,683	67,846,751
Canada, 1945	83	16,382	34,556,530	5,159,813	10,953,744	348,852	1,391,138	85,819,315	67,965,768
Canada, 1944	85	16,657	36,153,991	5,850,906	11,119,240	373,074	1,586,095	94,263,416	75,354,101
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

(a) Explosives, etc.

(b) Includes handling charges.

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

Table 20 - ORES MINED AND MILLED, CRUDE BULLION RECOVERED AND CRUDE BULLION AND CONCENTRATES SHIPPED IN THE AURIFEROUS QUARTZ MINING INDUSTRY, 1948

		Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories and Saskatchewan	CANADA
Number of producing mines		1	25	49	3	19	4	101
Ore mined	ton	...	3,823,767	8,694,110	194,672	678,902	239,254	13,630,705
Material discarded (sorted) ...	ton	...	64,620	126,134	1,107	25,674	6,839	224,374
Ore milled (ground, etc.)	ton	...	3,499,479	8,527,432	190,793	652,631	239,936	13,110,271
Tailings re-treated	ton	...	...	...	...	537	...	537
Gold content of ores, slags, residues and concentrates shipped -								
To foreign smelters	fine oz.	...	...	10,274	...	99,198	...	109,472
To Canadian smelters ...	fine oz.	...	29,396	2,649	...	2,004	...	34,049
Bullion bars shipped -								
Gold content	fine oz.	43	564,558	2,063,999	62,188	152,469	100,388	2,943,645
Silver content	fine oz.	4	123,984	387,708	8,972	33,850	25,127	579,645
Bullion produced by amalgama- tion	crude oz.	...	13,282	246,234	7,463	...	36,498	...
Bullion produced by cyanidation	crude oz.	...	746,154	2,315,806	78,642	...	77,863	...
Total Bullion Produced	crude oz.	...	759,436	2,562,040	86,105	...	114,361	...
Content of bullion bars pro- duced: Gold	fine oz.	43	575,077	2,042,288	62,922	152,469	101,361	2,934,160
Silver	fine oz.	4	123,678	408,366	9,025	33,850	25,340	600,263
Gold value (standard)	\$	893	11,887,858	42,217,893	1,300,730	3,151,805	2,095,320	60,654,499
Silver value	\$	3	92,249	304,890	6,679	25,093	18,902	447,816
Exchange premium on bullion bars produced	\$	619	8,239,867	29,262,196	901,569	2,184,476	1,452,320	42,041,047
Value of ores, concentrates, slags and residues sold (shipped) .....	\$	...	1,132,024	822,849	...	3,565,847	...	5,520,720
Total Gross Value of Production	\$	1,515	21,351,998	72,607,828	2,208,978	8,927,221	3,566,542	108,664,082
Value of fuel, electricity and process supplies used, also freight on shipments, market- ing, smelter and refinery charges	\$	286	6,413,148	17,183,313	649,973	2,896,541	1,134,309	28,277,570
Net Value of Production ...	\$	1,229	14,938,850	55,424,515	1,559,005	6,030,680	2,432,233	80,386,512

Table 21 - ORES, CONCENTRATES, SLAGS, etc., SHIPPED TO SMELTERS FROM CANADIAN GOLD MINES, 1939-1948

Year	O r e s		Concentrates		Slags, residues, precipitates	
	Tons	Gold content fine oz.	Tons	Gold content fine oz.	Tons	Gold content fine oz.
<u>To Canadian Plants</u>						
1939	271,666	47,114	4,747	24,184	797	4,507
1940	201,941	34,315	4,485	13,532	158	3,761
1941	202,943	38,380	1,628	7,492	369	4,444
1942	280,978	38,492	2,555	7,307	137	2,831
1943	268,334	36,429	4,490	12,335	311	2,069
1944	205,379	26,535	4,835	11,900	143	1,858
1945	177,099	26,834	5,474	13,903	647	1,832
1946	146,075	19,532	5,155	10,646	314	2,359
1947	146,469	19,001	2,538	5,313	296	1,961
1948	223,834	28,997	630	2,192	248	2,860
<u>To Foreign Plants</u>						
1939	3,853	8,930	39,530	112,126	235	26,631
1940	7,453	8,107	44,570	125,704	103	47,160
1941	7,453	11,222	43,855	122,619	115	56,183
1942	1,356	1,020	40,428	126,931	68	55,999
1943 .....	...	...	20,615	59,949	40	34,704
1944 .....	...	...	20,755	54,233	73	35,955
1945	109	185	19,596	49,193	47	44,559
1946 .....	...	...	11,969	49,164	25	9,650
1947 .....	...	...	25,765	67,929	32	34,572
1948	289	6,400	24,446	64,531	36	44,795

Table 22 - SHIPMENTS FROM AURIFEROUS QUARTZ MINES, 1945-1948

	Quantity tons	Gold oz.	Silver oz.	Copper lb.	Lead lb.	Zinc lb.	Other lb.
<u>1945</u>							
To Canadian Smelters -							
Gold ore	177,099	26,834	608	...	5,596	16,676	...
Gold concentrates	5,474	13,903	5,948	975,598	...	...	...
Slags, precipitates, residues	647	1,832	1,577	862	...	...	...
Arsenical material	366	..	...	...	...	...	366(a)
To Foreign Smelters -							
Gold ore	109	185	54	1,518	...	...	...
Gold concentrates	18,510	49,094	94,979	239,943	2,697,977	...	...
Lead concentrates	752	99	56,083	...	668,762	...	...
Slags, precipitates, etc. ...	47	44,559	629,561	...	...	...	...
Arsenical material	604	...	...	...	...	...	604(a)
TOTAL	203,942(b)	136,506	788,810	1,217,921	3,372,335	254,475(c)	...
<u>1946</u>							
To Canadian Smelters -							
Gold ore	146,075	19,532	1,625	...	14,504	13,791	...
Gold concentrates	5,155	10,646	5,154	894,661	...	...	...
Slags, precipitates, residues	314	2,359	3,824	1,400	...	...	...
Arsenical material	282	...	...	...	...	...	210(a)
To Foreign Smelters -							
Gold concentrates	11,334	49,038	45,584	52,022	1,232,906	...	...
Slags, precipitates, etc. ...	25	9,650	448,920	...	...	...	...
Lead concentrates	587	126	58,946	...	699,244	...	...
Zinc concentrates	48	...	...	...	...	42,628	...
TOTAL	163,820	91,351	564,053	948,083	1,946,654	56,419	...

Table 22 - SHIPMENTS FROM AURIFEROUS QUARTZ MINES, 1945-1948 (Concluded)

		Total Gross Metal Content					
	Quantity tons	Gold oz.	Silver oz.	Copper lb.	Lead lb.	Zinc lb.	Other lb.
<u>1947</u>							
To Canadian Smelters -							
Gold ore	146,469	19,001	1,284	...	12,082	13,423	...
Gold concentrates	2,538	5,313	3,286	375,094	1,694	368	...
Slags, precipitates, residues	296	1,961	23,165	5,001	...	...	...
Arsenical material	415	...	...	...	...	...	337(a)
To Foreign Smelters -							
Gold concentrates	25,765	67,929	77,979	124,952	2,314,469	...	...
Slags, precipitates, etc. ...	32	34,572	223,592	...	...	...	...
Lead concentrates	258	51	23,261	...	297,647	...	...
TOTAL	175,773	128,827	353,567	505,047	2,625,892	13,791	...
<u>1948</u>							
To Canadian Smelters -							
Gold ore	223,834	28,997	1,253	...	216	310	...
Gold concentrates	630	2,192	1,327	...	8,897	2,087	...
Slags, precipitates, residues	248	2,860	17,707	...	...	...	...
Arsenical material	460	...	...	...	...	...	383(a)
To Foreign Smelters -							
Gold concentrates	24,172	64,461	14,407	213,035	...	...	...
Slags, precipitates, residues	36	44,795	368,081	...	...	...	...
Gold ore	289	146	1,743	...	...	...	...
Lead concentrates	274	70	40,131	...	355,570	...	...
TOTAL	249,943	143,521	444,649	213,035	364,683	2,397	...

(a) Tons of arsenious oxide. (b) Includes 334 tons zinc concentrates. (c) Includes metal content of zinc concentrates.

Table 23 - POWER EQUIPMENT (Including Stand-by or Emergency Equipment) 1948 - (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	10	394	4	330
Steam turbines	1	40	...	...
Diesel engines	69	13,589	42	9,485
Gasoline, gas and oil engines, other than				
Diesel engines	66	3,852	77	7,529
Hydraulic turbines or water wheels	12	13,717	1	780
Electric motors (except motor-generator sets) -				
(a) Operated by purchased power	10,154	282,957	1,440	49,346
TOTAL	10,312	314,549	1,564	67,470
(b) Operated by above primary units	735	14,441	147	2,800
Stationary boilers	103	8,246	32	2,012
Motor-generator sets	503	21,457	43	1,928

Table 24 - FUEL AND ELECTRICITY USED BY ENTIRE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA, BY PROVINCES, 1948

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	...	...	3,016	45,594	46	670	614	14,281
(b) Imported	short ton	...	...	13,408	202,905	36,098	489,094	...	...
Anthracite coal -									
(a) From United States	short ton	...	...	1,909	29,209	1,070	22,869	...	...
(b) Other	short ton	...	...	...	...	...	...	...	...
Coke (for fuel only)	short ton	...	...	...	...	20	436	...	...
Gasoline	Imp.gal.	40	15	180,952	70,046	238,060	95,659	35,878	16,432
Kerosene or coal oil	Imp.gal.	310	64	1,529	406	10,899	3,179	313	120
Fuel oil and diesel oil	Imp.gal.	92	20	531,894	113,454	735,097	165,932	97,586	31,363
Wood (cords of 128 cu.ft.) ...	cord	20	160	9,673	76,087	17,690	136,814	3,985	31,270
Charcoal	lb.	...	...	...	...	17,480	280	...	...
Other fuel .....	...	...	...	...	6	...	1,870	...	...
Electricity purchased for power and lighting	K.W.H.	...	...	190,453,093	1,192,519	554,428,769	2,970,892	18,503,508	155,042
Electricity purchased for other purposes	K.W.H.	...	...	...	...	15,499,242	15,603	6,524,250	9,786
TOTAL .....	...	...	259	...	1,730,226	...	3,903,298	...	258,294
Electricity generated for own use	K.W.H.	...	...	10,629,438	...	755,792	...	19,200	...
Electricity generated for sale	K.W.H.	...	...	...	...	...	...	...	...
		British Columbia		Saskatchewan		Northwest Territories		C A N A D A	
Bituminous coal -									
(a) From Canadian mines ...	short ton	1,507	26,594	...	...	...	...	5,183	87,139
(b) Imported	short ton	224	4,828	...	...	...	...	49,730	696,827
Lignite coal	short ton	1,020	12,460	...	...	...	...	1,020	12,460
Anthracite coal -									
(a) From United States	short ton	11	576	...	...	...	...	2,990	52,654
(b) Other	short ton	12	314	...	...	...	...	12	314
Coke (for fuel only)	short ton	1	69	...	...	...	...	21	505
Gasoline	Imp.gal.	43,012	16,413	...	...	41,545	19,909	539,487	218,474
Kerosene or coal oil	Imp.gal.	2,361	608	...	...	982	598	16,394	4,975
Fuel oil and diesel oil	Imp.gal.	1,086,126	215,180	3,200	735	1,438,982	313,342	3,892,977	840,026
Wood (cords of 128 cu.ft.) ...	cord	3,609	33,500	...	...	4,191	72,484	39,168	350,315
Charcoal	lb.	...	...	...	...	730	374	18,210	654
Other fuel .....	...	...	...	...	...	...	...	...	1,876
Electricity purchased for power and lighting	K.W.H.	30,621,967	238,051	...	...	9,024,688	134,119	803,032,025	4,690,623
Electricity purchased for other purposes	K.W.H.	...	...	...	...	...	...	22,023,492	25,389
TOTAL .....	...	...	548,593	...	735	...	540,826	...	6,982,231
Electricity generated for own use	K.W.H.	15,413,280	...	...	...	14,041,442	...	40,859,152	...
Electricity generated for sale	K.W.H.	401,280	16,759	9,447,700	34,834	9,848,980	51,593

Gold

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Table 25 - CERTAIN DATA RELATING TO THE PRODUCTION OF GOLD BY THE ENTIRE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA, 1939-1948 (Averages)

Year	Ounces of gold produced per wage-earner year	Cost of fuel and electricity per ounce of gold produced	Cost of wages per ounce of gold produced	Cost of explosives and other process supplies used per ounce of gold produced	Cost of freight and smelter refinery treatment on ores and bullion shipped per ounce of gold produced	Taxes per ounce gold produced	Total of specified costs
	Ounces	\$	\$	\$	\$	\$	\$
1939 ...	157	1.81	10.69	4.45	0.67		17.62
1940 ...	161	1.76	10.48	4.49	0.69		17.42
1941 ...	155	1.82	11.56	4.53	0.77		18.68
1942 ...	176	1.84	11.47	4.34	0.75		18.40
1943 ...	176.7	2.12	11.47	4.24	0.69	4.89	23.41
1944 ...	159	2.43	12.81	4.60	0.81	4.15	24.80
1945 ...	140	2.45	14.08	5.09	0.74	3.74	26.10
1946 ...	122	2.63	16.77	6.05	0.59	3.08	29.12
1947 ...	132	2.62	17.28	6.56	0.52	1.93	28.91
1948 ...	151	2.27	16.82	6.35	0.57	1.47	27.48

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, 1939-1948

Year	Ounces of gold produced per wage-earner year	Cost of fuel and electricity per ounce of gold produced	Cost of wages per ounce of gold produced	Cost of explosives and other process supplies used per ounce of gold produced	Cost of freight and smelter refinery treatment on ores and bullion shipped per ounce of gold produced	Taxes per ounce gold produced	Total of specified costs
	Ounces	\$	\$	\$	\$	\$	\$
1939 ...	164	1.76	10.25	4.33	0.67		17.01
1940 ...	165	1.72	10.20	4.41	0.69		17.02
1941 ...	158	1.79	11.37	4.46	0.77		18.39
1942 ...	177	1.83	11.41	4.33	0.75		18.32
1943 ...	177	2.12	11.42	4.23	0.69	4.89	23.35
1944 ...	163	2.41	12.59	4.57	0.81	4.12	24.50
1945 ...	151	2.34	13.17	4.97	0.74	3.68	24.90
1946 ...	141	2.35	14.38	5.69	0.59	2.99	26.00
1947 ...	148	2.29	15.20	6.10	0.52	1.86	25.97
1948 ...	159	2.14	16.00	6.20	0.57	1.41	26.32

Table 27 - PRINCIPAL STATISTICS RELATIVE TO ALL ONTARIO GOLD MINES, BY AREAS (a), 1946-1948

Camp or district	Number of pro- ducers	Ore treated (b) Tons	Total gold recovered Fine oz.	Average ounces per ton recovered	Employ- ees No.	Salaries and wages paid \$	Cost of fuel, electricity and process supplies \$
1946							
Porcupine	15	3,955,153	904,797	.23	7,362	15,343,070	6,210,283
Kirkland Lake	9	1,077,790	403,589	.37	2,806	5,950,431	2,620,709
Larder Lake	3	862,078	145,329	.17	879	1,848,871	1,086,520
Matachewan	2	431,509	42,702	.10	290	606,113	494,898
Sudbury .....	...	...	...	...	83	172,439	15,546
Thunder Bay	6	384,521	106,509	.28	934	1,981,239	1,057,250
Rainy River and Kenora	...	...	...	...	37	68,850	2,365
Patricia	8	555,745	158,122	.28	1,659	3,893,336	1,686,116
TOTAL	43	7,266,796	1,761,048	.24	14,050	29,864,349	13,173,687
1947							
Porcupine	17	3,926,588	937,415	.24	7,248	16,899,928	7,879,487
Kirkland Lake	10	1,092,316	438,933	.40	2,846	6,716,696	2,802,693
Larder Lake	4	1,109,513	188,158	.17	1,077	2,415,848	1,230,009
Matachewan	3)	503,563	52,175	.10	315	682,677	537,192
Sudbury	3)	25,743	4,731	.18	239	562,611	137,989
Thunder Bay	7	437,692	116,944	.27	1,056	2,574,359	1,174,518
Rainy River and Kenora	1	800	231	.29	75	133,385	36,182
Patricia	9	579,963	161,979	.28	1,718	4,495,238	1,928,036
TOTAL	51	7,676,178	1,900,566	.25	14,574	34,478,742	15,726,106
1948							
Porcupine	18	4,345,691	998,838	.23	7,272	18,966,279	8,540,188
Kirkland Lake	9	1,180,044	447,888	.38	2,862	7,530,556	2,940,959
Larder Lake	3	1,200,275	204,144	.17	1,028	2,826,519	1,130,730
Matachewan	3)	506,761	48,994	.10	291	772,057	681,547
Sudbury .....	)	100,072	23,974	.24	220	591,640	377,674
Thunder Bay	6	409,736	112,351	.27	888	2,371,402	993,605
Patricia	10	784,853	219,204	.28	1,792	4,997,813	1,872,261
TOTAL	49	8,527,432	2,055,393	.24	14,353	38,056,266	16,536,964

(a) Includes data for all active properties.

(b) 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, 1939-1948

Year	Ore hoisted tons	Ore milled (a) tons	Crude ore shipped to smelters (b) tons	Low-grade sorted out tons	Tailings re- treated tons	Gold recovered as bullion fine oz.	Gold in crude ore shipped fine oz.	Gold in concen- trates, slag, etc., shipped fine oz.
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
1942 ...	17,722,866	16,820,442	282,334	658,439	5,176	3,898,999	39,512	193,068
1943 ...	12,853,610	12,206,518	268,334	361,522	29,716	2,869,635	36,429	109,055
1944 ...	10,790,495	10,330,899	205,379	234,820	18,233	2,300,090	26,535	103,946
1945 ...	9,780,555	9,437,796	177,208	136,328	...	2,068,910	27,019	109,487
1946 ...	10,712,615	10,306,720	146,075	229,237	...	2,289,647	19,532	71,819
1947 ...	11,632,841	11,296,610	146,469	205,250	1,376	2,590,589	19,001	109,826
1948 ...	13,630,705	13,110,271	224,123	224,374	537	2,934,160	29,143	114,378

(a) + (b) = total crude ore treated.

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, 1939-1948

Year	Tonnage treated (c)	Gold content (b) fine oz.	Silver content (b) fine oz.	Ounces of fine gold per ton	Ounces of fine silver per ton	Average price of gold \$ per oz.	Average price of silver \$ per oz.
1939 ...	16,425,692(a)	4,383,844	2,119,708	.27	.13	36.14	0.405
1940 ...	18,292,833(a)	4,619,252	2,729,998	.25	.15	38.50	0.382
1941 ...	19,236,669(a)	4,646,326	2,773,460	.24	.14	38.50	0.383
1942 ...	17,102,776(a)	4,131,579	2,186,369	.24	.13	38.50	0.422
1943 ...	12,474,852(a)	3,015,119	1,399,778	.24	.11	38.50	0.452
1944 ...	10,536,278(a)	2,430,571	906,788	.23	.09	38.50	0.430
1945 ...	9,615,004(a)	2,205,416	1,205,147	.23	.13	38.50	0.47
1946 ...	10,452,775(a)	2,380,998	1,025,619	.23	.10	36.75	0.836
1947 ...	11,443,079(a)	2,719,416	845,749	.24	.07	35.00	0.72
1948 ...	13,334,931(a)	3,077,681	1,044,912	.23	.08	35.00	0.75

(a) Material discarded by sorting not included.

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

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

Table 30 - MILLING CAPACITY OF OPERATING CANADIAN GOLD MINES, 1939-1948 (Tons of 2,000 pounds per 24 hours)

Year	Nova Scotia	Quebec	Ontario	Manitoba	Saskatchewan	British Columbia	Northwest Territories
1939	562	9,580	33,324	865	1,000	4,417	...
1940	450	11,215	35,030	690	1,200	4,255	275
1941	319	12,654	37,416	990	1,355	4,510	510
1942	247	14,330	36,135	903	1,202	4,303	710
1943	280	13,304	32,555	753	2	2,845	510
1944	180	13,059	30,710	550	...	2,650	66
1945	187	12,600	30,457	550	...	2,740	417
1946	172	12,035	30,370	550	...	3,052	417
1947	50	13,010	29,430	550	...	3,235	467
1948 .....	...	12,395	29,990	700	...	2,550	1,150

Table 31 - SPECIFIED COSTS PER TON OF ORE MILLED AT CERTAIN OF THE PRINCIPAL AURIFEROUS QUARTZ MINES IN CANADA, 1948

Name of mine	Develop- ment and explora- tion (a)	Mining	Milling	General (b)	Total before deprecia- tion and taxes	Depre- ciation	Taxes	TOTAL COSTS
(Dollars)								
Quebec -								
Belleterre Quebec Mines Ltd. ..	1.035	5.108	1.350	0.261	7.754	0.811	0.771	9.336
Canadian Malartic Gold Mines Ltd.	0.37	1.58	0.70	0.59	3.24	0.13	0.01	3.38
Consolidated Beattie Mines Ltd.	0.300	2.442	1.047	0.679	4.468	1.211	...	5.679
East Malartic Mines Ltd.	0.606	2.395	0.684	0.746	4.431	0.809	0.112	5.352
Hosco Gold Mines Ltd.	0.706	1.388	1.865	0.998	4.957	...	...	4.957
Lamaque Mining Co. Ltd.	0.64	2.81	0.84	0.16	4.45	0.15	0.66	5.26
Louvicourt Goldfield Corp.	1.295	2.946	1.319	1.236	...	...	...	...
O'Brien Gold Mines Ltd.	1.94	6.24	2.08	3.76	14.02	0.59	0.35	14.96
Perron Gold Mines Ltd.	0.639	3.210	1.112	0.947	5.908	0.231	0.105	6.244
Senator Rouyn Ltd.	0.50	3.21	0.86	0.15	4.72	0.85	0.03	5.60
Sigma Mines (Quebec) Ltd.	0.597	2.735	0.687	0.445	4.464	0.177	0.366	5.007
Siscoe Gold Mines Ltd.	0.901	3.806	1.407	1.619	7.733	0.356	...	...
Sladen Malartic Mines Ltd.	0.685	1.657	0.893	0.450	3.685	0.297	0.035	4.017
Stadacona Mines (1944) Ltd. ...	0.73	2.54	0.97	0.97	5.21	...	...	5.21

Table 31 - SPECIFIED COSTS PER TON OF ORE MILLED AT CERTAIN OF THE PRINCIPAL AURIFEROUS QUARTZ MINES IN CANADA, 1948 (Concluded)

Name of mine	Develop- ment and explora- tion (a)	Mining	Milling	General (b)	Total before deprecia- tion and taxes	Depre- ciation	Taxes	TOTAL COSTS
(Dollars)								
Ontario -								
<u>Porcupine District</u>								
Aunor Gold Mines Ltd.	0.96	5.10	1.12	1.45	8.63	0.67	0.53	9.83
Bonetal Gold Mines Ltd.	0.19	1.86	1.52	0.62	4.19	0.48	...	4.67
Broulan Porcupine Mines Ltd. ...	0.68	3.60	1.09	0.82	6.29	0.08	0.37	6.74
Buffalo Ankerite Gold Mines Ltd.	1.671	3.804	0.917	0.917	7.649	0.340	...	7.649
Coniaurum Mines Ltd.	1.69	3.86	0.97	1.32	7.84	...	...	7.84
Hallnor Mines Ltd.	1.10	3.50	1.22	1.24	7.06	0.10	1.44	8.60
Hollinger Consolidated (Timmins)	1.001	4.253	0.863	1.089	7.206	0.085	0.304	7.595
Hollinger Consolidated (Ross) ..	0.906	2.686	1.699	0.820	6.111	0.440	0.173	6.724
Hoyle Mining Co. Ltd.	0.11	1.48	1.32	0.79	3.70	0.42	...	4.12
McIntyre Porcupine Mines Ltd. ..	0.702	5.744	1.124	0.222	7.792	0.109	0.808	8.709
Pamour Porcupine Mines Ltd.	0.73	1.68	0.63	0.46	3.50	0.16	...	3.66
Porcupine Reef Gold Mines Ltd. .	4.14	1.90	1.75	1.70	9.49	...	0.09	9.58
Preston East Dome Mines Ltd. ...	1.915	4.157	0.804	0.208	7.084	0.150	0.107	7.341
<u>Kirkland Lake District</u>								
Bidgood Kirkland Gold Mines Ltd.	2.002	5.908	1.692	1.292	10.894	0.354	0.020	11.268
Macassa Mines Ltd.	1.299	6.748	1.393	1.653	11.093	0.277	0.679	12.049
Teck-Hughes Gold Mines Ltd.	2.89	7.79	1.89	0.96	13.53	...	0.14	13.67
Upper Canada Mines Ltd.	2.28	3.76	1.03	1.03	8.10	0.73	0.46	9.29
Wright-Hargreaves Mines Ltd. ...	(c)	6.960	1.540	1.821	10.321	0.299	1.466	12.086
<u>Larder Lake District</u>								
Chesterville Mines Ltd.	0.264	1.777	0.711	0.498	3.250	0.222	0.039	3.511
Kerr-Addison Gold Mines Ltd. ...	0.922	1.596	0.811	0.493	3.822	0.563	0.584	4.969
<u>Thunder Bay District</u>								
Leitch Gold Mines Ltd.	5.12	9.16	3.40	1.23	18.91	2.81	2.20	23.92
Little Long Lac Gold Mines Ltd.	1.35	5.92	2.02	1.65	10.94	0.23	0.18	11.35
McLeod-Cockshutt Gold Mines Ltd.	1.042	3.816	1.871	1.331	8.060	1.358	...	9.418
Magnet Consolidated Mines Ltd. .	4.54	7.62	2.56	0.95	15.67	0.65	0.01	16.33
<u>Patricia District</u>								
Cochenour Willans Gold Mines Ltd.	2.245	3.704	2.297	2.259	10.506	0.915	0.26	11.446
Hasaga Gold Mines Ltd.	0.519	2.796	0.952	0.70	4.967	0.867	0.003	5.837
Madsen Red Lake Gold Mines Ltd.	0.747	2.456	1.068	1.280	5.551	0.804	0.280	6.635
McKenzie Red Lake Gold Mines Ltd.	1.970	4.962	1.569	1.694	10.195	0.395	...	10.590
McMarmac Red Lake Gold Mines Ltd.	0.39	4.03	2.78	3.22	10.42	1.53	3.01	14.96
Pickle Crow Gold Mines Ltd.	0.80	6.11	1.39	1.22	9.52	1.52	0.33	11.47
Starratt Olsen Gold Mines Ltd. .	0.47	3.37	1.56	1.40	6.80	...	...	6.80
Manitoba -								
Ogama-Rockland Gold Mines Ltd. .	3.49	3.11	1.66	6.08	14.34	2.67	0.01	17.02
British Columbia -								
Bralorne Mines, Ltd.	1.23	5.99	1.08	3.43	11.73	...	1.28	13.01
Cariboo Gold Quartz Mining Co. Ltd.	1.43	7.60	2.19	0.51	11.73	...	...	11.73
Hedley Mascot Gold Mines Ltd. ...	1.45	3.90	3.04	4.64	13.03	...	0.04	13.07
Island Mountain Mines Co. Ltd. ..	3.88	6.39	2.70	0.27	13.24	...	0.05	13.29
Kelowna Exploration Co. Ltd.	0.61	3.35	2.41	3.74	10.11	...	0.50	10.61
Pioneer Gold Mines of B.C. Ltd. .	3.96	6.49	2.77	2.73	15.95	...	...	15.95
Polaris-Taku Mining Co. Ltd.	1.17	4.67	1.36	3.20	10.40	...	...	10.40
Privateer Mine Ltd.	1.045	6.977	2.822	3.344	14.188	...	0.104	14.292
Sheep Creek Gold Mines Ltd.	2.78	5.73	2.34	1.61	12.46	...	0.01	12.47
Northwest Territories -								
Consolidated Mining & Smelting ..	2.48	6.13	4.71	4.33	17.65	...	...	17.65
Giant Yellowknife Gold Mines Ltd.	1.65	5.21	4.63	5.05	16.54	5.54	...	22.08

(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(*), 1939-1948

Year	Wage- earners No.	Salaried employees No.	Total employees No.	Wages paid \$	Average per capita wages paid \$	Salaries paid \$	TOTAL SALARIES and WAGES \$	
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	2,515	26,030	47,409,542	2,016	6,979,330	54,388,872	
1943 ...	17,061	1,977	19,038	34,576,891	2,027	6,088,392	40,665,283	
1944 ...	15,260	1,966	17,226	31,151,908	2,041	5,871,597	37,023,505	
	<u>Workmen</u>	<u>Adminis- trative</u>	<u>Male</u>	<u>Female</u>				
1945 ...	15,807	2,581	17,995	393	31,051,187	1,964	6,488,334	37,690,177
1946 ...	19,501	2,472	21,631	342	39,967,638	2,050	7,243,424	47,211,062
1947 ...	20,647	2,257	22,557	349	47,005,905	2,277	7,606,569	54,612,474
1948 ...	20,411	2,155	22,239	327	51,780,681	2,537	7,734,997	59,515,678

(*) 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, 1939-1948

Year	Nova Scotia		Quebec		Ontario		Manitoba	
	Produc- ing	Non- producing	Producing	Non- producing	Producing	Non- producing	Producing	Non- producing
	(Dollars)							
1939 ...	829,631	4,681	12,604,061	940,207	52,470,713	1,321,013	1,621,765	190,753
1940 ...	596,592	158	14,090,722	770,280	54,745,840	895,822	1,642,103	2,558
1941 ...	457,305	9,342	16,256,086	978,161	59,620,822	399,527	1,796,321	...
1942 ...	225,276	6,104	17,160,699	159,376	50,881,444	175,528	1,557,240	...
1943 ...	162,920	...	14,892,857	159,840	38,831,504	8,681	958,737	...
1944 ...	157,802	2,548	13,323,443	523,566	35,312,042	322,219	595,795	...
1945 ...	171,000	2,648	11,701,727	1,595,917	34,041,088	836,664	630,069	119,657
1946 ...	158,043	...	12,140,663	4,354,273	41,086,811	1,951,225	770,486	477,218
1947 ...	25,244	...	13,650,283	3,054,447	47,600,801	2,604,047	805,366	1,188,469
1948 ...	835	7,385	16,617,934	1,393,525	53,120,006	1,473,224	1,387,109	902,668
	Saskatchewan		British Columbia		Northwest Territories and Yukon		C A N A D A	
1939 ...	490,633	4,291	8,963,013	425,451	614,912	162,551	77,594,728	3,048,947
1940 ...	602,534	...	9,094,704	218,225	1,114,420	329,643	81,886,915	2,216,686
1941 ...	726,468	...	9,613,778	152,619	1,649,933	19,966	90,120,713	1,559,615
1942 ...	413,441	...	7,031,550	101,616	2,214,886	...	79,484,536	442,624
1943 ...	80	...	3,771,871	26,010	1,014,302	...	59,632,271	194,531
1944 ...	...	38,060	3,372,009	61,892	363,046	20,946	53,124,137	969,231
1945 ...	...	40,471	3,819,667	213,254	306,536	713,742	50,670,087	3,522,353
1946 ...	...	1,440	4,395,085	860,306	959,745	717,547	59,510,833	8,362,009
1947 ...	...	...	6,860,833	455,238	1,738,785	1,609,583	70,681,315	8,911,784
1948 ...	...	5,806	7,351,240	96,611	3,515,904	162,228	81,993,028	4,041,447

Table 34 - WORKMEN, BY MONTHS, IN THE ENTIRE AURIFEROUS QUARTZ MINING INDUSTRY, 1944-1948

Month	1944	1945	1946	1947	1948
January	15,796	15,222	19,083	20,656	20,867
February	16,001	15,137	19,577	20,850	20,559
March	16,014	14,887	19,837	20,959	20,387
April	15,634	14,573	20,036	20,768	20,211
May	15,314	14,624	20,182	20,816	20,203
June	15,172	14,873	20,175	20,937	20,530
July	15,134	15,082	19,480	20,947	20,637
August	14,837	15,249	19,125	20,267	20,312
September	14,501	15,746	18,623	19,611	20,031
October	14,486	16,988	18,946	19,778	20,276
November	14,786	18,110	19,093	20,458	20,464
December	14,595	18,170	18,990	20,672	20,315

Table 35 - WORKMEN IN PRODUCING LORE GOLD MINES IN CANADA, BY PROVINCES, 1947 and 1948

Month	Quebec		Ontario		British Columbia		Other districts and provinces		C A N A D A	
	1947	1948	1947	1948	1947	1948	1947	1948	1947	1948
January	3,696	3,950	12,927	12,793	1,451	1,942	588	923	18,662	19,608
February	3,741	3,976	12,991	12,759	1,457	1,806	609	910	18,798	19,451
March	3,716	3,938	12,917	12,674	1,512	1,706	575	912	18,720	19,230
April	3,536	3,907	12,897	12,733	1,493	1,606	581	941	18,507	19,187
May	3,551	3,896	12,810	12,694	1,615	1,589	547	972	18,523	19,151
June	3,320	4,011	12,864	12,922	1,684	1,573	523	1,009	18,391	19,515
July	3,352	4,062	12,759	12,944	1,731	1,540	516	1,071	18,358	19,617
August	3,296	4,075	12,223	12,732	1,732	1,463	536	1,070	17,787	19,340
September	3,237	4,132	11,802	12,557	1,790	1,413	443	1,047	17,272	19,149
October	3,228	4,201	11,872	12,670	1,954	1,492	467	1,017	17,521	19,380
November	3,506	4,266	12,216	12,858	2,113	1,528	485	982	18,320	19,634
December	3,665	4,172	12,469	12,908	2,139	1,477	490	998	18,763	19,555

Table 36 - CLASSIFICATION OF WORKMEN EMPLOYED IN ENTIRE AURIFEROUS QUARTZ MINING INDUSTRY, 1947 and 1948

Province	1947				1948					
	Mine		Under-ground	Mill	Mine		Under-ground	Mill		
	Surface				Surface					
	Male	Female	Male	Male	Male	Female	Male	Male	Female	
Nova Scotia	7	...	6	1	5	...	...	...	...
Quebec	1,462	35	2,483	307	1,260	43	2,706	387	...	
Ontario	3,914	75	8,290	1,007	3,635	48	8,444	1,015	...	
Manitoba	325	10	164	15	313	12	250	23	...	
Saskatchewan .....	...	...	...	...	2	...	...	...	...
British Columbia	569	49	1,022	197	386	29	1,004	199	1	
Northwest Territories	411	16	221	52	325	14	260	50	...	
Yukon	4	...	5	...	...	...	...	...	...
CANADA	6,692	185	12,191	1,579	5,926	146	12,664	1,674	1	

Table 37 - COST OF PROSPECTING CONDUCTED BY CANADIAN AURIFEROUS QUARTZ MINING COMPANIES, 1947 and 1948

Province pros- pecting was conducted in (a)	By Nova Scotia and Quebec companies (b)	By Ontario companies (b)	By Manitoba companies (b)	By British Columbia companies (b)	By Yukon and Northwest Territories companies	TOTAL
(Dollars)						
1947						
Nova Scotia	169	842	...	...	...	1,011
Quebec	1,104,930	140,867	...	9,668	9,752	1,265,217
Ontario	98,313	1,066,083	34,482	13,429	30,114	1,242,421
Manitoba	10,374	47,373	332,882	26,344	8,176	425,149
Saskatchewan ...	...	...	...	...	...	...
British Columbia	103,529	136,424	...	332,116	988	573,057
Northwest Terri- tories	8,565	10,859	...	...	...	574,205
Yukon	27,302	71,070	...	4,877	554,781	103,249
TOTAL CANADA..	1,353,182	1,473,518	367,364	386,434	603,811	4,184,309
1948						
Nova Scotia ....	...	...	...	...	...	...
Quebec	1,158,348	186,149	...	...	...	1,344,497
Ontario	210,316	469,614	32,334	9,000	688	721,952
Manitoba	10,249	19,196	62,222	2,000	457	94,124
Saskatchewan ...	...	1,006	2,000	...	...	3,006
British Columbia	53,676	40,114	...	220,066	2,193	316,049
Northwest Terri- tories	1,075	8,740	...	...	4,263	14,078
Yukon .....	...	2,676	...	...	...	2,676
TOTAL CANADA..	1,433,664	727,495	96,556	231,066	7,601	2,496,382

(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 38 - DRILLING COMPLETED ON AURIFEROUS QUARTZ DEPOSITS IN 1947 and 1948

	Footage drilled (a)	
	1947	1948
Diamond drilling for exploration (testing) -		
By companies with their own equipment and personnel	755,121	667,469
By contractors	2,521,825	1,513,394
Other drilling -		
Diamond drilling for breaking rock or ore -		
By companies with their own equipment and personnel	209,599	215,772
By contractors	293,965	435,563
Drilling by percussion and other machines (b)	24,354,773	32,187,104

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

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

The value of diamonds in all forms (bits, etc.) purchased by gold mining companies in 1948 totalled \$306,078.

Table 39 - SPECIFIED TAXES PAID BY ACTIVE CANADIAN AURIFEROUS QUARTZ MINES IN 1947 and 1948, BY PROVINCES(*)

Nature of tax	Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Terri- tories	CANADA
(Dollars)							
<u>1947</u>							
Dominion Income Tax, includ- ing tax on non-operating revenue .....	...	257,389	2,254,793	132,443	168,339	...	2,812,964
Dominion Excess Profits Tax.	...	116,757	816,582	29,732	...	...	963,071
Provincial Taxes	799	214,627	701,619	940	106,839	2,532	1,027,356
Municipal taxes	269	180,301	242,514	37	17,441	9,638	450,200
TOTAL	1,068	769,074	4,015,508	163,152	292,619	12,170	5,253,591
<u>1948</u>							
Dominion Income Tax, includ- ing tax on non-operating revenue .....	...	346,405	2,050,506	72,688	194,666	...	2,664,265
Dominion Excess Profits Tax.	...	22,551	38,900	...	...	...	61,451
Provincial taxes	45	225,379	936,064	42,680	92,491	7,581	1,304,260
Municipal taxes	42	206,632	275,688	17	15,265	10,104	507,748
TOTAL	87	800,967	3,301,158	115,385	302,422	17,685	4,537,724

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

Table 40 - CERTAIN SPECIFIED EXPENDITURES MADE BY AURIFEROUS QUARTZ MINING COMPANIES, 1945-1948

Province and year	Workmen's compensa- tion	Silicosis assessment	Unemploy- ment insurance	Aggregate cost of all sup- plies purchased	Aggregate cost of plant and equipment purchased	Cost of build- ings, machinery and equipment erected or installed
(Dollars)						
Nova Scotia -						
1945	4,309	...	1,191	21,732	6,204	200
1946	3,044	...	1,187	43,109	6,855	3,664
1947	773	...	148	...	...	...
1948	72	...	42	5,524	3,000	15,330
Quebec -						
1945	333,339	446	52,076	4,873,803	840,504	1,166,339
1946	577,507	574	60,671	7,127,669	2,195,574	4,373,899
1947	519,160	377	60,193	6,956,376	2,589,318	2,977,861
1948	584,149	571	69,114	6,660,647	1,828,003	2,669,943
Ontario -						
1945	645,288	288,470	142,803	12,172,411	702,336	1,171,712
1946	856,306	329,442	175,822	18,785,560	2,312,524	4,086,869
1947	974,440	381,626	169,056	19,987,340	3,599,256	6,023,438
1948	1,143,732	400,460	194,526	22,727,089	3,427,792	6,991,532
Manitoba -						
1945	15,743	3,487	2,972	296,102	40,792	45,927
1946	27,429	6,291	4,275	783,824	1,060,318	403,590
1947	50,590	11,902	6,352	1,665,327	1,671,166	2,800,511
1948	63,644	5,676	8,761	2,018,984	1,151,957	2,689,301
Saskatchewan -						
1945	587	...	284	2,160	16,596	11,237
1946	44	...	34	...	674	...
1947 .....	...	...	...	...	...	...
1948	712	...	48	3,735	...	1,016

Table 40 - CERTAIN SPECIFIED EXPENDITURES MADE BY AURIFEROUS QUARTZ MINING COMPANIES, 1945-1948 (Concluded)

Province and year	Workmen's compensa- tion	Silicosis assessment	Unemploy- ment insurance	Aggregate cost of all sup- plies purchased	Aggregate cost of plant and equipment purchased	Cost of build- ings, machinery and equipment erected or installed
(Dollars)						
British Columbia -						
1945	118,157	93,523	15,325	1,266,627	171,105	315,528
1946	129,471	106,968	15,448	1,965,146	708,065	661,426
1947	200,873	179,349	28,667	2,625,108	634,439	847,746
1948	202,498	177,970	22,008	2,395,862	393,526	351,872
Northwest Territories						
1945	16,854	43	3,679	611,511	164,474	344,443
1946	36,692	257	6,661	1,398,783	233,517	666,492
1947	37,991	200	5,140	2,236,264	897,153	1,364,263
1948	34,539	...	5,066	1,981,168	647,347	1,668,576
Yukon -						
1945	1,014	690	16	2,822	...	...
1946 .....	...	...	...	...	...	...
1947	1,318	...	123	69,826	45,012	116,279
1948 .....	...	...	...	...	...	...
TOTAL CANADA -						
1945	1,135,291	386,659	218,346	19,247,168	1,942,011	3,055,386
1946	1,630,493	443,532	264,098	30,104,091	6,517,527	10,195,940
1947	1,785,145	573,454	269,679	33,540,241	9,436,344	14,130,098
1948	2,029,346	584,677	299,565	35,793,009	7,451,625	14,387,570

THE COPPER-GOLD-SILVER MINING INDUSTRY, 1948

The mining of "copper-gold-silver" ores in Canada during 1948 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 1948 were reported by 35 firms, of which 11 were producers. The gross value of crude ore, concentrates, etc., shipped from the mines and mills to the smelters was estimated at \$107,831,148, the cost of fuel, purchased electricity, process supplies, freight and treatment totalled \$22,178,942, and the net value of shipments was computed at \$85,652,206. Employees totalled 6,401 compared with 5,220 in 1947 and 4,958 in 1946.

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.

Table 41 - PRINCIPAL STATISTICS (a) OF THE COPPER-GOLD-SILVER MINING INDUSTRY IN CANADA FOR SPECIFIED YEARS

Year	No. of active opera- tors (b)	No. of operating plants or mines (b)	Capital employed (b)	Number of em- ployees (b)	Salaries and wages (b)	Cost of fuel and electricity (b)	Value of ores and concen- trates shipped by mines
			\$		\$	\$	\$
1939 ...	28	30	58,867,620	6,083	9,920,591	1,223,523	26,182,577
1940 ...	25	26	60,446,948	6,115	10,777,827	1,297,454	25,804,419
1941 ...	21	22	81,521,902	5,866	10,695,023	1,264,567	30,220,331
1942 ...	26	28	84,776,243	5,646	11,097,412	1,338,737	33,688,642
1943 ...	20	22	94,750,186	5,748	11,806,827	1,426,710	43,840,679
1944 ...	23	26	(c)	5,175	10,710,071	1,402,243	38,198,039
1945 ...	38	41	(c)	4,658	9,663,612	1,175,916	38,165,269
1946 ...	42	44	(c)	4,958	10,244,487	1,152,925	37,433,982
1947 ...	31	32	(c)	5,220	13,149,093	1,361,890	52,173,584
1948 ...	35	37	(c)	6,401	17,919,526	1,706,874	85,652,206

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

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

(c) Not reported.

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

Table 42 - SHIPMENTS FROM COPPER-GOLD-SILVER MINES OF CANADA, 1947 and 1948

Total metal content as determined by settlement assay (c)							
	Quantity tons	Value \$	Gold fine oz.	Silver fine oz.	Copper pounds	Sulphur tons	Zinc pounds
<u>1947</u>							
<u>To Canadian Plants (a)</u>							
Ores	348,382	7,249,636	59,304	187,981	26,006,346	...	...
Copper concentrates	591,723	38,335,817	156,875	2,311,980	165,940,219	...	4,267,104
Zinc concentrates	141,232	11,518,874	6,737	188,548	10,612(d)	...	127,932,850
Iron pyrites concentrates	34,759	79,463	...	...	...	15,928	...
Slags, residues, gold pre- cipitates and bullion..	330	845,107	18,869	179,197	276,372	...	...
<u>To Foreign Plants</u>							
Ores	164	2,638	3	214	14,476	...	...
Copper concentrates	79,203	8,811,273	15,160	227,184	37,525,152	...	(d) 366,254
Zinc concentrates	39,883	2,955,750	...	...	...	...	41,459,863
Iron pyrites concentrates	95,798	270,488	...	...	...	44,635	...
Precipitates	950	229,647	...	...	1,066,747	...	...
TOTAL	1,332,424	70,298,693	256,948	3,095,104	230,829,312	60,563	173,659,817
Value of process supplies, etc. (b) .....	...	18,125,109	...	...	...	...	...
NET VALUE .....	...	52,173,584	...	...	...	...	...

Table 42 - SHIPMENTS FROM COPPER-GOLD-SILVER MINES OF CANADA, 1947 and 1948 (Concluded)

	Quantity tons	Value \$	Total metal content as determined by settlement assay (c)				
			Gold	Silver	Copper	Sulphur	Zinc
			fine oz.	fine oz.	pounds	tons	pounds
<u>1948 (Concluded)</u>							
<u>To Foreign Plants</u>							
Ores .....	...	...	...	...	...	...	...
Copper concentrates	87,944	10,539,594	19,304	249,008	42,633,532	...	...
Zinc concentrates	58,113	6,221,941	...	...	...	...	60,484,677
Iron pyrites concentrates	103,642	245,193	...	...	...	48,344	...
Precipitates	705	180,641	...	...	811,129	...	...
TOTAL	1,560,873	107,831,148	330,050	3,710,386	253,921,793	87,126	217,014,304
Value of process supplies etc. (b) .....	...	22,178,942	...	...	...	...	...
NET VALUE .....	...	85,652,206	...	...	...	...	...

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

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

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

(d) Lead (pounds).

Table 43 - ORES MINED, MILLED, AND CONCENTRATES PRODUCED BY THE COPPER-GOLD-SILVER MINING INDUSTRY, 1939-1948

Year	Ore mines tons	Ore milled tons	Copper con- centrates produced (c) tons	Zinc con- centrates produced tons	Iron pyrites concentrates produced tons	Net value of all estimated mine and mill shipments (b) \$
1939	8,474,855	7,760,725	828,963	105,842	161,238	32,991,716(a)
1940	8,931,291	8,325,979	930,622	126,346	172,500	34,914,051(a)
1941	9,263,071	8,402,656	974,250	187,622	309,050	36,990,853(a)
1942	8,575,626	7,816,813	858,580	264,739	219,874	40,730,834(a)
1943	8,251,579	7,482,831	914,360	315,670	292,007	50,774,104(a)
1944	7,395,608	6,873,542	870,726	276,737	257,423	44,770,863(a)
1945	5,914,580	5,441,121	730,724	229,980	228,618	44,258,780(a)
1946	5,009,490	4,606,503	661,554	219,985	201,873	42,609,415(a)
1947	5,462,233	5,140,376	662,088	185,630	178,263	58,198,612(a)
1948	6,496,499	6,061,132	724,066	232,131	184,069	91,403,196(a)

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

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

(c) Exclusive of copper precipitate 1943-1948.

Table 44 - ORE RESERVES OF SPECIFIED COPPER-GOLD-SILVER MINING COMPANIES (*)

	Tons	Copper Per cent	Zinc Per cent	Gold Ounces per ton	Silver Ounces per ton
<u>Noranda Mines Ltd., January 1, 1949 -</u>					
Indicated above the 2,975 foot level:					
Sulphide ore over 4 per cent copper	4,528,000	7.16	...	0.161	...
Sulphide ore under 4 per cent copper	14,000,000	0.67	...	0.195	...
Silicious fluxing ore	957,900	0.09	...	0.121	...
Capacity of mill: 24 hours	3,000	...	...	...	...
<u>Waite Amulet Mines Ltd., December 31, 1948 -</u>					
"F" orebody	50,000	2.5	7.0	0.01	1.01
"C" shaft orebodies	50,000	2.0	6.0	0.02	2.5
Amulet Dufault--Lower "A" orebody	1,251,204	5.67	4.06	0.045	1.5
Upper "A" orebody	113,200	1.8	6.5	0.07	1.6
Capacity of mill: 24 hours ..	1,800	...	...	...	...

Table 44 - ORE RESERVES OF SPECIFIED COPPER-GOLD-SILVER MINING COMPANIES (*) - (Concluded)

	Tons	Copper Per cent	Zinc Per cent	Gold Ounces per ton	Silver Ounces per ton
<u>Normetal Mining Corp. Ltd., December 31, 1948 -</u>					
No. 2 orebody	1,557,100	3.64	7.15	...	...
No. 3 orebody	68,800	0.55	16.71	...	...
Capacity of mill: 24 hours	750	...	...	...	...
<u>Sheritt Gordon Mines Ltd., December 31, 1948 -</u>					
West orebody	762,100	2.55	1.99	0.022	0.63
Capacity of mill: 24 hours	750	...	...	...	...
<u>Hudson Bay Mining & Smelting Co. Ltd., January 1, 1948 -</u>					
Ore reserves	22,700,000	3.0	4.3	0.084	1.20
Capacity of mill: 24 hours	6,100	...	...	...	...
<u>Granby Cons. Mining, Smelting & Power Co. Ltd., 1948</u>					
Ore reserves	7,606,000	1.2	...	...	...
<u>Britannia Mining & Smelting Co. Ltd. -</u>					
Capacity of mill: 24 hours	6,500	...	...	...	...
<u>East Sullivan Mines Ltd., 1948 -</u>					
Ore reserves	4,372,000	2.12	1.36	0.023	0.46
Capacity of mill: 24 hours	2,000	...	...	...	...
<u>Queмонт Mining Corp. Ltd., 1948 -</u>					
Ore reserves	9,431,000	1.49	2.69	0.174	0.943
Capacity of mill	2,000	...	...	...	...
<u>Cuprus Mines Ltd., December, 1948 -</u>					
Ore reserves	280,000	3.87	7.3	0.049	0.99
Capacity of mill: 24 hours	300	...	...	...	...

(*) Subject to revision.

Table 45 - SPECIFIED DATA RELATING TO THE COPPER-GOLD-SILVER MINING INDUSTRY, 1939-1948 (x)

Year	Wage- earners No.	Wages paid \$	Average per capita wages paid \$ (*)	Salaried employees No.	Salaries paid \$	Total salaries and wages \$
<u>Producing Mines</u>						
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	1,979	583	1,608,225	9,396,308
1946	4,105	7,865,062	1,916	531	1,656,938	9,522,000
1947	4,172	10,103,497	2,422	605	1,917,732	12,021,229
1948	4,930	13,509,938	2,740	694	2,442,309	15,952,247

Table 45 - SPECIFIED DATA RELATING TO THE COPPER-GOLD-SILVER MINING INDUSTRY, 1939-1948 (x) (Concluded)

Year	Wage- earners	Wages paid	Average per capita wages paid	Salaried employees	Salaries paid	Total salaries and wages
	No.	\$	\$ (*)	No.	\$	\$
<u>Non-producing mines</u>						
1939	186	256,999	...	26	38,671	295,670
1940	18	18,746	...	13	11,512	30,258
1941	12	10,449	...	6	5,718	16,167
1942	71	107,532	...	22	23,242	130,774
1943	51	79,818	...	26	31,097	110,915
1944	14	20,348	...	20	40,350	60,698
1945	97	180,861	...	42	86,443	267,304
1946	278	601,289	...	44	121,198	722,487
1947	388	951,269	...	55	176,595	1,127,864
1948	710	1,735,762	...	67	231,517	1,967,279

(x) Not including smelters or refineries.

(*) Including any bonus paid.

Table 46 - CLASSIFICATION OF WORKMEN EMPLOYED IN THE COPPER-GOLD-SILVER MINING INDUSTRY, BY PROVINCES, 1946-1948

	Surface		Underground		Mill		TOTAL	
	Male	Female	Male		Male	Female	Male	Female
<u>1948</u>								
Quebec	865	9	1,197		188	6	2,250	15
Ontario	9	...	6		5	...	20	...
Manitoba	257	21	391		79	...	727	21
Saskatchewan	542	8	570		141	...	1,253	8
British Columbia	283	27	620		403	13	1,306	40
TOTAL CANADA, 1948	1,956	65	2,784		816	19	5,556	84
Total Canada, 1947	1,613	60	2,122		746	19	4,481	79
Total Canada, 1946	1,779	61	1,909		608	26	4,296	87

Table 47 - SPECIFIED EXPENDITURES BY THE COPPER-GOLD-SILVER MINING INDUSTRY, 1946-1948

	1946	1947	1948
	(dollars)		
Workmen's compensation	495,645	576,387	685,829
Silicosis assessment	91,082	134,213	147,368
Unemployment insurance	67,076	68,216	100,005
Aggregate cost of all supplies purchased	8,710,123	8,704,411	15,419,448
Aggregate cost of plant and equipment purchased ..	1,174,342	1,508,447	3,960,036
Cost of buildings, machinery and equipment erected or installed during year	1,845,259	1,953,974	7,638,468

Table 48 - SPECIFIED DATA RELATING TO THE COPPER-GOLD-SILVER MINING INDUSTRY, 1939-1948 (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.	\$
1939 ...	247,180,650	1,203,878	8,900	5,539,545	1,582,350	16,587,402	2,119,520	19,645	1,250	46,071
1940 ...	270,601,445	1,297,454	8,900	5,812,178	882,633	17,378,092	...	...	...	...
1941 ...	251,488,789	1,264,533	10,520	5,504,530	1,873,728	25,964,492	...	34	...	1,425
1942 ...	259,238,497	1,333,969	8,900	5,682,271	1,932,958	26,483,998	108,000	4,768	...	21,184
1943 ...	269,523,279	1,413,989	8,900	5,493,875	1,353,139	21,409,079	...	12,721	...	12,840
1944 ...	262,411,942	1,401,935	8,900	5,170,105	720,920	16,898,032	...	308	...	476
1945 ...	243,557,533	1,154,097	8,900	4,870,144	1,240,533	13,800,559	443,000	21,819	...	...
1946 ...	260,558,741	1,094,763	8,900	3,917,734	939,213	10,755,921	4,411,365	58,162	...	104,774
1947 ...	244,608,803	1,280,824	8,900	4,471,330	1,079,677	11,020,404	7,751,751	81,066	...	191,808
1948 ...	266,621,278	1,608,378	8,900	3,768,387	1,057,183	15,570,769	9,407,168	98,496	...	275,729

(a) Not including smelters or refineries.

(b) Partly conjectural.

Table 49 - FUEL AND ELECTRICITY USED IN THE COPPER-GOLD-SILVER MINING INDUSTRY, 1947 and 1948

Kind	Unit of measure	1947		1948	
		Quantity	Cost at plant \$	Quantity	Cost at plant \$
Bituminous coal -					
(a) From Canadian mines	short ton	8,005	82,135	7,991	95,344
(b) Imported	short ton	1,698	22,809	2,009	32,714
Sub-bituminous (Alberta)	short ton	12,757	83,100	21,745	144,735
Anthracite coal--From United States	short ton	117	2,276	150	3,261
Lignite coal	short ton	61,643	292,613	65,748	312,181
Coke (for fuel only)	short ton	59	970	75	1,359
Gasoline	Imp.gal.	158,133	57,994	148,127	59,825
Kerosene or coal oil	Imp.gal.	10,573	3,033	6,899	2,198
Fuel oil and diesel oil	Imp.gal.	1,387,825	191,520	1,738,736	264,411
Wood (cords of 128 cu.ft. of piled wood)	cord	1,247	8,530	658	5,563
Other fuel .....	...	...	696	...	...
Electricity purchased, including service charges	K.W.H.	252,360,554	616,414	276,028,446	785,283
TOTAL .....	...	...	1,361,890	...	1,706,874
Electricity generated for own use..	K.W.H.	92,469,115	...	106,727,102	...
Electricity generated for sale	K.W.H.	943,713	14,298	658,572	10,366
Process supplies consumed (explosives, etc.) .....	...	...	4,663,138	...	4,044,116
GRAND TOTAL VALUE OF FUEL AND PROCESS SUPPLIES CONSUMED ....	...	...	6,035,028	...	5,761,356

Table 50 - POWER EQUIPMENT (Including stand-by or emergency equipment) IN THE COPPER-GOLD-SILVER MINING INDUSTRY IN CANADA, 1948

Description	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power	Number of units	Total horse power
Steam turbines	1	13,400	3	10,000
Diesel engines	21	5,846	4	830
Gasoline, gas and oil engines, other than Diesel engines	2	225	2	245
Hydraulic turbines or water wheels	6	8,900	...	...
Electric motors (except motor-generator sets) -				
(a) Operated by purchased power	3,067	106,372	299	10,106
Total	3,097	134,743	308	21,181
(b) Operated by power generated by above primary units	653	166,736	82	2,264
Stationary boilers	23	4,017	2	811
Motor-generator sets	119	36,295	8	240

Table 51 - TAXES PAID BY THE COPPER-GOLD-SILVER MINING INDUSTRY IN CANADA, 1947 and 1948

	1947	1948
	\$	\$
Dominion income tax, including tax on non-operating revenue	5,118,456	7,018,135
Dominion excess profits tax	3,607,674	835,567
Provincial tax	2,276,528	3,224,427
Municipal tax	490,600	426,990
GRAND TOTAL TAXES PAID	11,493,258	11,505,119

Table 52 - COST OF PROSPECTING CONDUCTED BY THE COPPER-GOLD-SILVER MINING INDUSTRY, BY PROVINCES, 1947 and 1948

Conducted in -	1947	1948	Conducted in -	1947	1948
	(dollars)			(dollars)	
Nova Scotia .....	...	...	Saskatchewan .....	...	14,374
New Brunswick .....	...	...	British Columbia	10,887	18,918
Quebec	205,492	381,370	Yukon	28,883	88,273
Ontario	38,485	63,088	Northwest Territories	...	2,988
Manitoba	67,812	231,039	TOTAL	351,559	800,050

Table 53 - DRILLING COMPLETED ON COPPER-GOLD-SILVER DEPOSITS IN CANADA, 1947 and 1948

	Footage Drilled	
	1947	1948
Diamond drilling for exploration (testing only) -		
By mining companies with their own personnel and equipment...	102,349	119,463
By diamond drilling contractors	325,403	365,681
Other diamond drilling -		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	706,848	1,052,510
By diamond drilling contractors .....	...	532
Drilling by percussion or other machines (*)	3,715,406	5,545,001

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

Table 54 - COPPER PRODUCTION (RECOVERABLE) IN CANADA ACCORDING TO NATURE OF ORE AND BY PROVINCES, 1945-1948

Province and year	From copper-gold-silver ores	From nickel-copper ores	From gold and other ores	TOTAL
	(pounds)			
1945 - Quebec	101,940,882	...	744,187	102,685,069
Ontario .....	...	239,450,083	792	239,450,875
Manitoba	41,126,155	...	...	41,126,155
Saskatchewan	65,900,701	...	...	65,900,701
British Columbia ..	25,613,355	...	137,897	25,751,252
TOTAL CANADA ...	234,581,093	239,450,083	882,876	474,914,052
1946 - Quebec	68,939,908	...	857,789	69,797,697
Ontario .....	...	179,421,176	3,463	179,424,639
Manitoba	38,501,047	...	...	38,501,047
Saskatchewan	62,712,954	...	...	62,712,954
British Columbia ..	17,430,549	...	69,989	17,500,538
TOTAL CANADA ...	187,584,458	179,421,176	931,241	367,936,875
1947 - Quebec	84,770,146	...	351,282	85,121,428
Ontario .....	...	227,860,515	7,098	227,867,613
Manitoba	30,631,768	...	...	30,631,768
Saskatchewan	66,301,926	...	...	66,301,926
British Columbia ..	41,766,876	...	33,482	41,800,358
TOTAL CANADA ...	223,470,716	227,860,515	391,862	451,723,093
1948 - Quebec	97,611,653	...	14,626	97,626,279
Ontario .....	...	240,374,476	391,330	240,765,806
Manitoba	37,920,181	...	...	37,920,181
Saskatchewan	62,148,713	...	...	62,148,713
British Columbia ..	42,894,675	...	108,312	43,002,987
TOTAL CANADA ...	240,575,222	240,374,476	514,268	481,463,966

Table 55 - PRODUCTION OF REFINED COPPER(*) IN CANADA, 1939-1948

Year	Short tons	Year	Short tons
1939	251,684	1944	256,244
1940	261,878	1945	237,457
1941	278,224	1946	204,016
1942	268,447	1947	202,427
1943	251,495	1948	221,275

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

Table 56 - SILVER PRODUCTION IN CANADA ACCORDING TO NATURE OF ORES, BY PROVINCES, 1948

Province	Crude placer gold	Auriferous quartz ores	Copper- gold-silver ores	Nickel- copper ores	Silver- lead-zinc ores	Silver- cobalt and other ores	TOTAL
(ounces)							
Nova Scotia ....	...	8	...	...	...	...	8
Quebec .....	...	125,889	1,059,817	...	1,191,048	...	2,376,754
Ontario .....	...	788,537	...	1,404,338	38,124	979,108	3,210,107
Manitoba .....	...	9,031	728,267	...	...	...	737,298
Saskatchewan ...	...	...	1,323,900	...	...	...	1,323,900
Alberta	7	...	...	...	...	...	7
British Columbia	2,017	53,678	262,221	...	6,399,992	...	6,717,908
Northwest Terri- tories .....	...	25,382	...	...	...	...	25,382
Yukon	12,421	...	...	...	1,706,197	...	1,718,618
CANADA	14,445	1,002,525	3,374,205	1,404,338	9,335,361	979,108	16,109,982

Table 57 - SELENIUM AND TELLURIUM COMMERCIALY RECOVERED FROM CANADIAN ORES, 1939-1948

Year	From copper-gold- silver ores		From nickel-copper ores		T O T A L	
	Selenium	Tellurium	Selenium	Tellurium	Selenium	Tellurium
(pounds)						
1939	23,841	2,940	126,930	...	150,771	2,940
1940	43,510	...	136,350	3,491	179,860	3,491
1941	264,432	...	142,498	11,453	406,930	11,453
1942	419,369	1,584	76,000	9,500	495,369	11,086
1943	292,013	...	82,000	8,600	374,013	8,600
1944	233,592	761	65,000	9,900	298,592	10,661
1945	211,187	484	168,000	...	379,187	484
1946	251,261	1,648	270,606	14,200	521,867	15,848
1947	354,684	3,025	146,406	6,169	501,090	9,194
1948	281,905	2,686	108,989	8,739	390,894	11,425

Table 58 - ZINC PRODUCTION (RECOVERABLE) IN CANADA ACCORDING TO NATURE OF ORE AND BY PROVINCES, 1946-1948

Year and province	Recovered from copper-gold-silver ores	Recovered from silver-lead-zinc and other ores	TOTAL
	(pounds)		
1946 - Quebec	49,881,428	39,768,701	89,650,129
Ontario .....	...	42,628	42,628
Manitoba	35,580,537	...	35,580,537
Saskatchewan	71,077,110	...	71,077,110
British Columbia .....	...	274,269,956	274,269,956
CANADA	156,539,075	314,081,285	470,620,360
1947 - Quebec	35,078,583	34,384,342	69,462,925
Manitoba	27,753,131	...	27,753,131
Saskatchewan	65,503,602	...	65,503,602
British Columbia	4,164,033	248,842,135	253,006,168
CANADA	132,499,349	283,226,477	415,725,826

Table 58 - ZINC PRODUCTION (RECOVERABLE) IN CANADA ACCORDING TO NATURE OF ORE AND BY PROVINCES, 1946-1948
(Concluded)

Year and province	Recovered from copper-gold-silver ores	Recovered from silver-lead-zinc and other ores (pounds)	TOTAL
1948 - Quebec	51,186,597	44,571,442	95,758,039
Manitoba	41,315,045	...	41,315,045
Saskatchewan	60,943,757	...	60,943,757
British Columbia	5,620,225	264,689,970	270,310,195
CANADA	159,065,624	309,261,412	468,327,036

Table 59 - REFINED ZINC PRODUCED IN CANADA, 1939-1948

Year	Short tons	Year	Short tons
1939	175,641	1944	168,518
1940	185,722	1945	182,267
1941	213,608	1946	185,683
1942	215,795	1947	178,264
1943	206,510	1948	196,575

Table 60 - CADMIUM RECOVERED FROM CANADIAN ORES, 1939-1948

Year	From copper-gold- silver ores	From silver-lead- zinc ores (pounds)	TOTAL
1939	140,438	799,253	939,691
1940	129,336	778,791	908,127
1941	169,917	1,081,374	1,251,291
1942	176,550	972,413	1,148,963
1943	187,938	598,673	786,611
1944	140,560	386,410	526,970
1945	135,632	510,432	646,064
1946	166,333	636,315	802,648
1947	172,896	545,638	718,534
1948	148,864	617,226	766,090

Table 61 - AVERAGE ANNUAL METAL PRICES, IN CANADIAN DOLLARS, 1939-1948

Year	Gold Troy oz.	Silver Troy oz.	Copper pound (dollars)	Lead pound	Zinc pound
1939	36.14	0.405	0.101	0.032	0.031
1940	38.50	0.382	0.101	0.034	0.034
1941	38.50	0.3826	0.101	0.034	0.034
1942	38.50	0.4216	0.101	0.034	0.034
1943	38.50	0.4525	0.117	0.037	0.040
1944	38.50	0.43	0.12	0.045	0.043
1945	38.50	0.47	0.1255	0.05	0.0644
1946	36.75	0.836	0.128	0.067	0.078
1947	35.00	0.72	0.2039	0.1367	0.1123
1948	35.00	0.75	0.2235	0.1804	0.1395

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

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

- (a) For melting and assaying - one dollar for the first four hundred ounces or part thereof and twenty-five cents for each additional one hundred ounces or part thereof.
- (b) For refining - when the deposit contains not more than 5 per cent base metal, 3 cents the ounce.
 - Over 5 per cent but not over 10 per cent base metal, $3\frac{1}{2}$ cents the ounce.
 - Over 10 per cent but not over 15 per cent base metal, $4\frac{1}{4}$ cents the ounce.
 - Over 15 per cent but not over 20 per cent base metal, 5 cents the ounce.
 - On deposits which contain over 20 per cent base metal, or which require other treatment, a charge not exceeding 10 cents the ounce, to be determined by the cost of treatment.

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

A handling charge at the rate of 20 cents the ounce fine, to cover costs of realization in a market outside Canada, shall be made on all newly-mined Canadian gold deposited with the Mint, and this charge shall be increased to \$1.00 the ounce fine on all other gold accepted as a deposit. The charges under this paragraph are in addition to the Mint charges payable under Clause 5 of the Mint Regulations and are effective on and after July 27, 1946.

The gross value of gold deposited for sale with the Royal Canadian Mint or the Dominion of Canada Assay Office, Vancouver, shall be the market price of gold in the country to which the Government is at the time of the receipt of the deposit exporting gold, converted into Canadian funds at the average of the buying rates of exchange of that country reported to the Department of Finance by the Bank of Canada at 11 a.m. daily during the week in which the gold is deposited with the Mint or Assay Office.

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

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

The gross value of a deposit shall be calculated at a rate of one dollar for each 23.22 grains fine gold contained therein (equivalent to \$20.6718+ the ounce fine) and at a rate for all silver in excess of one per centum of the weight of the deposit after melting to be determined by the Minister of Finance. The rate to be paid, under Clause 4 of the Regulations, for silver in excess of one per centum of the weight of deposits received in any week, shall average for that week of the official New York daily

quotation for fine silver, from Monday to Friday, inclusive, converted into Canadian funds at the average of the Foreign Exchange Control Board's buying rate for United States funds. This Instruction shall become effective for the week commencing Monday, December 9, 1946.

Coinage

There was an increase of \$2,216,456 in the amount of coin issued during 1948 as compared with the previous year. A detailed statement of the issues by denominations for the years 1947 and 1948 is set out below.

Denomination	Coin issued in			
	1947	1948		1948 Total
		Dated 1947	Dated 1948	
	\$	\$	\$	\$
Silver Coin -				
1 dollar	67,000.00	21,876.00	8,080.00	29,956.00
50 cents	278,000.00	30,242.00	17,758.00	48,000.00
25 cents	397,000.00	1,099,038.75	632,961.25	1,732,000.00
10 cents	444,000.00	983,424.20	36,575.80	1,020,000.00
Total Silver	1,186,000.00	2,134,580.95	695,375.05	2,829,956.00
Nickel Coin -				
5 cents	391,000.00	525,076.60	90,423.40	615,500.00
Bronze Coin -				
1 cent	360,300.00	452,296.05	256,003.95	708,300.00
		3,111,953.60	1,041,802.40	4,153,756.00
Total	1,937,300.00	4,153,756.00		
Representing		Number of Pieces		
		70,043,894	30,350,062	
TOTALS	50,501,000	100,393,956		100,393,956

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

	Silver				Nickel	Bronze
	Dollar	50 cents	25 cents	10 cents	5 cents	1 cent
	\$	\$	\$	\$	\$	\$
Calgary .....	...	2,000	162,000	92,000	46,000	54,000
Charlottetown .....	...	...	...	...	...	...
Halifax .....	...	6,000	86,000	44,000	24,000	20,500
Montreal	6,000	4,000	304,000	210,000	160,000	183,700
Ottawa	13,956	10,000	92,000	54,000	28,000	24,300
Regina .....	...	8,000	158,000	102,000	30,500	43,000
Saint John .....	...	...	48,000	42,000	20,000	6,000
Toronto	6,000	14,000	594,000	344,000	219,000	251,500
Vancouver	2,000	2,000	76,000	82,000	39,000	64,600
Winnipeg	2,000	2,000	212,000	50,000	49,000	60,700
Total	29,956	48,000	1,732,000	1,020,000	615,500	708,300

Worn and mutilated coin withdrawn from circulation:

	Withdrawn	Net increase in circulation
	\$	\$
Silver coin	50,301.75	2,779,654.25
Nickel coin--5 cents (mutilated only)	1,062.15	614,437.85
Tomback coin--5 cents	138,930.05	...
Steel coin--5 cents	438.25	...
Bronze coin	2,406.41	705,893.59

Gold Bullion

Four thousand seven hundred and thirteen 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 4,252,389 ounces, containing by assay 3,401,991 ounces fine gold and 504,369 ounces fine silver. The receipts show an increase as compared with the year 1947 of 482 in the number of deposits, gross weight 692,892 ounces, gold content 533,522 ounces and fine silver 92,740 ounces.

The net amount paid by cheque to depositors was \$115,020,002.50. In addition 14,716.011 ounces of fine gold with a statutory value of \$304,207.38 was also issued in payment of gold deposits.

Postage collected for the Postmaster General on deposits shipped by mail, postage collect, amounted to \$25,764.00.

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

Source	Gross weight Ounces	Fine gold Ounces	Fine silver Ounces
From Canadian Mines and Refineries -			
Ontario	2,581,418.609	2,092,486.019	294,693.23
Quebec	1,073,891.150	868,557.978	123,665.17
British Columbia	239,507.570	179,085.529	36,406.81
Manitoba	102,365.925	79,811.495	8,622.52
Yukon	76,047.525	60,605.961	12,421.31
Nova Scotia	203.575	188.484	7.98
Northwest Territories	143,274.940	101,475.956	25,283.75
Alberta and Saskatchewan	111.370	81.636	7.35
Total from Mines and Refineries	4,216,820.664	3,382,293.058	501,108.12
From Jewellery and Scrap	37,877.320	20,320.631	3,419.93
GRAND TOTAL	4,254,697.984	3,402,613.689	504,528.05

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

	Ounces fine
8,195 Trade Bars transferred to Exchange Fund Account of Minister of Finance and held in safe-keeping by Bank of Canada	3,277,758.706
Depositors--granulated	14,716.011
Sales to manufacturers--granulated	108,659.045
Proof plate for assay purposes	2.500
Medals	4.862
Sweep	3,932.211
	3,405,073.335

This total shows an increase of 545,989.117 ounces fine as compared with the year 1947.

Summary of Transactions in Gold Bullion of the Ottawa Branch of the Royal Mint
from its opening on January 2, 1908 to its disestablishment on November 30, 1931,
and of the Royal Canadian Mint from December 1, 1931 to December 31, 1948

Year	Gold Received		Gold Issued		
	Gross weight	Statutory value	Coin	Bullion	Statutory value coin and bullion
	Ounces	gold only			
		\$	\$	Ounces fine	\$
1908 to 1938	64,471,725.556	1,083,048,898.91	7,923,878.73	51,880,502.929	1,080,389,048.99
1939	6,181,336.290	100,656,105.55	...	4,834,214.285	99,932,075.82
1940	6,295,218.554	103,169,970.38	30.00	5,026,792.728	103,913,055.43
1941	6,444,056.215	105,273,560.67	...	5,134,347.805	106,136,385.78
1942	5,761,045.973	95,338,135.90	...	4,611,892.227	95,336,270.79
1943	4,456,437.559	74,769,168.35	...	3,645,739.964	75,364,131.92
1944	3,537,734.636	59,163,794.79	...	2,829,755.000	58,496,226.17
1945	3,102,991.020	51,750,218.87	...	2,499,163.674	51,662,297.22
1946	3,271,246.445	54,826,765.59	...	2,665,964.763	55,110,381.61
1947	3,559,496.703	59,296,515.31	...	2,859,084.218	59,102,514.80
1948	4,252,389.454	70,325,402.34	...	3,405,073.335	70,389,111.41
	111,333,678.405	1,857,618,536.66	7,923,908.73	89,392,530.928	1,855,831,499.94

D I R E C T O R Y

ACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1948

Name	Head or Executive Office Address	Location
<u>Nova Scotia -</u>		
Killag Sweet Gold Mines Ltd.	Sheet Harbour	Halifax Co.
Redden, Wm. K.	Upper Stewiacke	Halifax Co.
Smith, A. J.	East Chezzetcook	Lake Catcha
<u>Quebec -</u>		
Abitibi Ventures Limited	680 Ouest rue Sherbrooke, Montreal	Abitibi
Alger Gold Mines Ltd.	357 Bay St., Toronto, Ontario	Cadillac Tp.
Amalgamated Chibougamou Gold Mines Ltd.	215 St. James St. W., Montreal	Roy Tp.
Anglo-Huronian Ltd.	80 King St. W., Toronto, Ontario	
Anglo Rouyn Mines Ltd.	100 Adelaide St., Toronto, Ontario	Rouyn Tp.
Angus Mines Ltd.	7000 Jeanne Mance St., Montreal	Cadillac
Auf Der Maur Corporation	313 Elm Ave., Montreal	Charlevoix Co.
Bachelor Lake Gold Mines Ltd.	330 Bay St., Toronto, Ontario	Bachelor Lake
Barmont Mines Ltd.	276 St. Jacques St. Ouest, Montreal	Barraute Tp.
Batch River Gold Mines Ltd.	330 Bay St., Toronto, Ontario	Lesueur Tp.
Beau Rand Gold Mines Ltd.	320 Bay St., Toronto, Ontario	Beauchastel Tp.
Belle-Clare Mining Synd.	Box 1192, Rouyn	Aguebelle Tp.
Bellevue Gold Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Freville Tp.
Belleterre Quebec Mines Ltd.	Belleterre	Belleterre
Bevcourt Gold Mines Ltd.	1700 Royal Bank Building, 360 St. James St. W., Montreal	Louvicourt
Bolduc, Seraphin	Beauceville Est	
Bordulac Mines Ltd.	21 King St. E., Toronto, Ontario	Dasserat Tp.
Brenmore Quebec Mines, Ltd.	New Liskeard, Ontario	Guillet Tp.
Buffadison Gold Mines Ltd.	603 Royal Bank Bklding, 2-8 King St. E., Toronto, Ontario	Louvicourt Tp.
Blondor Quebec Mines Ltd.	330 Bay St., Toronto, Ontario	Blondeau Tp.
Bobjo Mines Ltd.	302 Bay St., Toronto, Ontario	Duplessis Tp.

ACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1948
(Continued)

Name	Head or Executive Office Address	Location
Quebec (Continued) -		
Bourcier Kuntz Minerals Exploration Part.	Box 300, Malartic	Duplessis Tp.
Cache Bay Chibougamau Mines Ltd.	411 Canada Cement Building, Montreal	Obalski Tp.
Canadian Malartic Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Malartic Tp.
Caron Malartic Gold Mines Ltd.	261 St. James St. W., Montreal	Fournière Tp.
Centremaque Gold Mines Ltd.	407 McGill St., Montreal	Bourlamaque Tp.
Central Mining Corp.	465 St. John St., Montreal	Bourlamaque Tp.
Chimo Gold Mines Ltd.	24 King St. W., Toronto, Ontario	Vauquelin Tp.
Chuco Gold Mines Ltd.	73 Adelaide St. W., Toronto, Ontario	
Consolidated Beattie Mines Ltd.	Duparquet	Duparquet
Consolidated Central Cadillac Mines Ltd.	717 Transportation Building, Montreal	Cadillac Tp.
Consolidated Duquesne Mining Co. Ltd.	Box 970, Noranda	Destor Tp.
Consolidated Mining & Smelting Co. of Canada Ltd.	Trail, British Columbia	Guercheville Tp.
Crangold Mines Ltd.	67 Yonge St., Toronto, Ontario	Senneville Tp.
Croinor Pershing Mines Ltd.	Senneterre	Senneterre Tp.
Cross Fault Gold Mines Ltd.	45 Richmond St. W., Toronto, Ontario	Clericy Tp.
D'Aragon Mines Ltd.	11 King St. W., Toronto, Ontario	Bourlamaque Tp.
Dome Exploration Co. (Quebec) Ltd.	Bourlamaque	Lesueur and Louvicourt Tps.
Donalda Mines Ltd.	625 Burnside St., Montreal	Rouyn Tp.
Donmaque Gold Mines Ltd.	1865 Danforth Ave., Toronto, Ontario	Bourlamaque Tp.
Dubuisson Mines Ltd.	516 Canada Cement Building, Montreal	Dubuisson Tp.
East Amphi Gold Mines Ltd.	Malartic	Malartic
East Bay Gold Ltd.	Box 456, Noranda	Duparquet
East Malartic Mines Ltd.	355 St. James St. W., Montreal	Fournière Tp.
Elder Mines Ltd.	11 King St. W., Toronto, Ontario	Noranda
Eldona Gold Mines Ltd.	402 Temple Building, Toronto, Ontario	Rouyn Tp.
Emil Oil Mining Ltd.	28½ Adelaide St. E., Toronto, Ontario	Ducos Tp.
Fayolle, Antoine	Cassier Postal 1229, Rouyn	Dasserat Tp.
Frokar Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Louvicourt Tp.
Gilmont Mines Ltd.	Rouyn	Dasserat Tp.
Goldvue Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Duvernay Tp.
Glencona Mining Company Limited	132 St. James St. W., Montreal	Rouyn Tp.
Goldora Mines Ltd.	717 Transportation Building, 132 St. James St. W., Montreal	Bourlamaque Tp.
Gunnar Gold Mines Ltd.	1501 Star Building, Toronto, Ontario	Lesueur Tp.
Grand Chibougamau Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Chibougamau Tp.
Hebecourt Prospecting & Mining Co.	21 King St. E., Toronto, Ontario	Hebecourt Tp.
Hebecourt Gold Mines Ltd.	132 rue St. Jacques, Montreal	Hebecourt Tp.
Hewbet Mines Ltd.	603 Royal Bank Building, Toronto, Ontario	Lesueur Tp.
Heva Gold Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Joannes Tp.
Hewfran Gold Mines Ltd.	12 Richmond St. E., Toronto, Ontario	Lesueur Tp.
Hosco Gold Mines Ltd.	357 Bay St., Toronto, Ontario	Joannes Tp.
International Mining Corp. (Canada) Ltd.	85 Richmond St. W., Toronto, Ontario	
Jervis Mines Ltd.	465 St. John St., Montreal	Piedmont Tp.
Joliet-Quebec Mines Ltd.	25 King St. W., Toronto, Ontario	Rouyn Tp.
Kayrand Mining & Development Co. Ltd.	215 St. James St. W., Montreal	Louvicourt Tp.
Kennco Explorations Ltd.	25 King St. W., Toronto, Ontario	
Lake Wasa Mining Corp.	Arntfield	Arntfield
Lamaque Mining Co. Ltd.	Bourlamaque	Bourlamaque Tp.
Lencourt Gold Mines Ltd.	1700 Royal Bank Building, 360 St. James St. W., Montreal	
La Roncière Gold Mines Ltd.	67 Yonge St., Toronto, Ontario	Louvicourt Tp.
Louvicourt Goldfield Corporation	1604 edifice Aldred, Montreal	Abitibi Tp.
Macho River Gold Mines Ltd.	330 Bay St., Toronto, Ontario	Louvicourt Tp.
Malartic Gold Fields Ltd.	355 St. James St. W., Montreal	Urban Tp.
		Dubuisson and Fournière Tps.

ACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1948
(Continued)

Name	Head or Executive Office Address	Location
<u>Quebec (Concluded) -</u>		
Mallich Quebec Gold Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Duverney Tp.
Marco Mining Corp. Ltd.	437 St. James St. W., Montreal	Dandrienne
Mistassini Lead Corp. Ltd.	904 Bank of Montreal Building, Toronto, Ontario	Bachelor Lake
McWatters Gold Mines Limited	Drawer 988, Haileybury, Ontario	Rouyn Tp.
Mining Corporation of Canada Limited	350 Bay St., Toronto, Ontario	
Mylamaque Mines Ltd.	40 Adelaide St. W., Toronto, Ontario	Bourlamaque Tp.
New Marlon Gold Mines Ltd.	24 King St. W., Toronto, Ontario	Rouyn Tp.
New Rouyn Merger Mines Ltd.	603-4 Royal Bank Building, 2-8 King St. E., Toronto, Ontario	Rouyn Tp.
New Thurbois Mines Ltd.	66 King St. W., Toronto, Ontario	Abitibi Tp.
Norbenite Malartic Mines Ltd.	330 Bay St., Toronto, Ontario	Vassan and Malartic Tps.
O'Brien Gold Mines Ltd.	Kewagama	Cadillac Tp.
Oneonta Pershing Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Vauquelin Tp.
Oleary Malartic Mines Ltd.	Box 535, Rouyn	various
Ordala Mines Ltd.	171 Yonge St., Toronto, Ontario	Noranda
Osisko Lake Mines Ltd.	25 King St. W., Toronto, Ontario	Rouyn Tp.
Pen-Ray Gold Mines Ltd.	62 Richmond St. W., Toronto, Ontario	Rouyn Tp.
Perron Gold Mines Ltd.	Perron	Perron
Powell Rouyn Gold Mines Ltd.	Box 200, Noranda	Noranda
Prahova Mines Ltd.	276 St. Jacques Ouest, Montreal	Barraute Tp.
Quebec Explorers Ltd.	132 St. Jacques St. W., Montreal	Dufresnoy Tp.
Quebec Gold Rocks Exploration Ltd.	477 St. Francois-Xavier, Montreal	Launay
Quebec Smelting and Refining Corp.	215 St. James St. W., Montreal	Urban Tp.
Quebec Mines Ltd.	320 Bay St., Toronto, Ontario	Duprat Tp.
Randona Quebec Gold Mines Ltd.	330 Bay St., Toronto, Ontario	Abitibi Co.
Royran Gold Fields Inc.	215 St. James St. W., Montreal	
Roybar Chibougama Mines Ltd.	67 Yonge St., Toronto, Ontario	Chibougama Tp.
Saguenay Mining & Smelting Co. Ltd.	De Salles, Charlevoix	De Salles Tp.
Scott Chibougama Mines Ltd.	215 St. James St. W., Montreal	Scott and McKenzie Tps.
Seguin Consolidated Mines Ltd.	c/o Arthur Seguin, Rouyn	Bachelor Lake
St. Francis Mining Co. Ltd.	603 Royal Bank Building, Toronto, Ontario	Vassan
Senator-Rouyn Ltd.	Box 780, Noranda	Rouyn Tp.
Sigma Mines (Quebec) Ltd.	Bourlamaque	Bourlamaque Tp.
Siscoe Gold Mines Ltd.	907 Dominion Square Building, Montreal	Dubuisson Tp.
Sladen-Malartic Mines Ltd.	56 Sparks St., Ottawa, Ontario	Malartic Tp.
South Dufault Mines Ltd.	302 Bay St., Toronto, Ontario	Rouyn Tp.
Stadacona Mines (1944) Ltd.	377 St. James St. W., Montreal	Rouyn Tp.
Sullivan Consolidated Mines Ltd.	1604 Aldred Building, Montreal	Dubuisson Tp.
Titanic Mine Holdings Ltd.	215 St. James St. W., Montreal	Senneville Tp.
U. K. Exploration Co. Ltd.	15 King St. W., Toronto, Ontario	Lesueur Tp.
Vinray Malartic Mines Ltd.	Box 1285, Rouyn	Malartic Tp.
Wakeko Mines Ltd.	67 Yonge St., Toronto, Ontario	Beauchastel Tp.
Wadasa Gold Mines Ltd.	67 Govt. Road W., Kirkland Lake, Ontario	Benoit Tp.
West Malartic Mines Ltd.	7000 Jeanne-Mance St., Montreal	Cadillac Tp.
Western Quebec Mines Co. Ltd.	465 St. John St., Montreal	Vassan Tp.
<u>Ontario -</u>		
<u>Porcupine District</u>		
Aunor Gold Mines Ltd.	1600 Royal Bank Building, Toronto	Timmins
Bobs Lake Gold Mines Ltd.	85 Richmond St. W., Toronto	Whitney Tp.
Bonetal Gold Mines Ltd.	1705 Sterling Tower Building, 372 Bay St., Toronto	
Broulan Porcupine Mines Ltd.	1705 Sterling Tower Building, 372 Bay St., Toronto	Pamour
Buffalo Ankerite Gold Mines Ltd.	Box 533, South Porcupine	Whitney Tp.
Central Porcupine Mines Ltd.	25 King St. W., Toronto	Deloro Tp.
Clavos Porcupine Mines Ltd.	85 Richmond St. W., Toronto	Porcupine
		German Tp.

ACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1948
(Continued)

Name	Head or Executive Office Address	Location
<u>Ontario (Continued) -</u>		
<u>Porcupine District (Concluded)</u>		
Coniaurum Mines Ltd.	25 King St. W., Toronto	Tisdale Tp.
Delnite Mines Ltd.	Box 590, Timmins	Deloro Tp.
Dome Mines Ltd.	South Porcupine	Tisdale Tp.
Goldhawk Porcupine Mines Ltd.	320 Bay St., Toronto	Macklem Tp.
Hallnor Mines Ltd.	1600 Royal Bank Building, Toronto	Whitney Tp.
Hollinger Consolidated Gold Mines Ltd.	Timmins	Hislop Tp.
Hoyle Mining Co. Ltd.	Box 997, Haileybury	Pamour Tp.
Hugh-Pam Porcupine Mines Ltd.	719 Yonge St., Toronto	Cochrane District
Kelore Mines Ltd.	330 Bay St., Toronto	Hislop Tp.
Marchaud Mines Ltd.	Box 999, Haileybury	Michaud Tp.
McIntyre Porcupine Mines Ltd.	Schumacher	Schumacher
Midcamp Mines Ltd.	1600 Royal Bank Building, Toronto	Tisdale Tp.
Naybob (1945) Gold Mines Ltd.	85 Richmond St. W., Toronto	Timmins
Pamour Porcupine Mines Ltd.	Pamour	Whitney Tp.
Paymaster Consolidated Mines Ltd.	Box 508, South Porcupine	Deloro and Tisdale Tps.
Porcupine Penninsular Gold Mines Ltd.	Star Building, 80 King St. W., Toronto	Nighthawk Lake
Porcupine Reef Gold Mines Ltd.	1705 Sterling Tower, 372 Bay St., Toronto	Pamour
Preston East Dome Mines Ltd.	Box 545, South Porcupine	South Porcupine
Riczone Mines Ltd.	55 York St., Toronto	Rickard Tp.
<u>Kirkland Lake District</u>		
Bidgood Kirkland Gold Mines Ltd.	357 Bay St., Toronto	Label Tp.
Kirkland Golden Gate Mines Ltd.	36 Toronto St., Toronto	Swastika
Kirkland Lake Gold Mining Co. Ltd.	1314 Metropolitan Building, Toronto	Teck Tp.
Lake Shore Mines Ltd.	Kirkland Lake	Kirkland Lake
Macassa Mines Ltd.	85 Richmond St. W., Toronto	Kirkland Lake
Northland Mines (1940) Ltd.	171 Yonge St., Toronto	
Queenston Gold Mines Ltd.	1101 Federal Building, Toronto	Gauthier Tp.
Sylvanite Gold Mines Ltd.	Box 670, Kirkland Lake	Teck Tp.
Teck-Hughes Gold Mines Ltd., The	14 Finkle St., Woodstock	Kirkland Lake
Toburn Gold Mines Ltd.	1809 Royal Bank Building, Toronto	Kirkland Lake
Upper Canada Mines Ltd.	1101 Federal Building, Toronto	Gauthier Tp.
Wright-Hargreaves Mines Ltd.	Fort Erie	Kirkland Lake
<u>Larder Lake District</u>		
Amalgamated Larder Mines Ltd.	80 King St. W., Toronto	Larder Lake
Armistice Gold Mines Ltd.	100 Adelaide St. W., Toronto	McGarry Tp.
Cathroy Larder Mines Ltd.	171 Yonge St., Toronto	McElroy Tp.
Chesterville Mines Ltd.	330 Bay St., Toronto	McGarry Tp.
Kerr-Addison Gold Mines Ltd.	80 King St. W., Toronto	McGarry Tp.
Omega Gold Mines Ltd.	80 King St. W., Toronto	McVittie Tp.
Winchester Larder Mines Ltd.	1101 Federal Bldg., 85 Richmond St. W., Toronto	Larder Lake
<u>Matachewan District</u>		
Matachewan Consolidated Mines Ltd.	25 King St. W., Toronto	Powell Tp.
Hollinger Consolidated Gold Mines Ltd.	Timmins	Powell Tp.
<u>Sudbury District</u>		
Dulama Gold Mines Ltd.	330 Bay St., Toronto	Leeson Tp.
Jerome Gold Mines Ltd.	350 Bay St., Toronto	Osway Tp.
Joburke Gold Mines Ltd.	357 Bay St., Toronto	Joburke
Orofino Mines Ltd.	67 Yonge St., Toronto	Horwood Tp.
Renabie Mines Ltd.	85 Richmond St. W., Toronto	Sudbury
Stover Gold Mines Ltd.	5 Elgin St. S., Sudbury	Missanabie Area

ACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1948
(Continued)

Name	Head or Executive Office Address	Location
<u>Ontario (Concluded) -</u>		
<u>Thunder Bay District</u>		
Andowan Mines Ltd.	Kashabowrie	Kashabowrie
Gold Island Porcupine Mines Ltd.	159 Bay St., Toronto	Garrison Tp.
Green Lake Gold Mines Ltd.	357 Bay St., Toronto	Geraldton
Hard Rock Gold Mines Ltd.	Geraldton	Ashmore Tp.
Lake Superior Mining Corp. Ltd.	330 Bay St., Toronto	
Leitch Gold Mines Ltd.	Beardmore	Summers Tp.
Little Long Lac Gold Mines Ltd.	25 King St. W., Toronto	Errington Tp.
MacLeod-Cockshutt Gold Mines Ltd.	357 Bay St., Toronto	Geraldton
Magnet Consolidated Mines Ltd.	515 Jarvis St., Toronto	Geraldton
Mosher Long Lac Gold Mines Ltd.	67 Yonge St., Toronto	Long Lac
Talmora Long Lac Gold Mines Ltd.	217 Bay St., Toronto	Errington Tp.
Undersill Gold Mining Company Ltd.	25 King St. W., Toronto	Beardmore
<u>Kenora District</u>		
Kerwall Gold Mines Ltd.	26-28 Adelaide St. W., Toronto	Ball Tp.
<u>Patricia District</u>		
Advance Red Lake Gold Mines Ltd.	347 Bay St., Toronto	Red Lake
Berens River Mines Ltd.	Favourable Lake	Favourable Lake
Campbell Red Lake Mines Ltd.	Balmertown	Balmer Tp.
Central Patricia Gold Mines Ltd.	Central Patricia	Central Patricia
Cochenour Willans Gold Mines Ltd.	801 Dominion Bank Building, Toronto	Dome Tp.
Clinger Gold Mines Ltd.	67 Yonge St., Toronto	Echo Tp.
Conwest Exploration Co. Ltd.	85 Richmond St. W., Toronto	Various
Crowshore Patricia Gold Mines Ltd.	171 Yonge St., Toronto	Patricia
Detta Red Lake Mines Ltd.	40 Adelaide St. W., Toronto	Balmer Tp.
Dickenson Red Lake Mines Ltd.	40 Adelaide St. W., Toronto	Balmer Tp.
Hasaga Gold Mines Ltd.	25 King St. W., Toronto	Dome Tp.
Lingman Lake Gold Mines Ltd.	80 King St. W., Toronto	Lingman Lake
Lunward Gold Mines Ltd.	217 Bay St., Toronto	Echo Tp.
Madsen Red Lake Gold Mines Ltd.	67 Yonge St., Toronto	Heyson Tp.
Marcus Gold Mines Ltd.	357 Bay St., Toronto	Dome Tp.
McKenzie Red Lake Gold Mines Ltd.	19 Richmond St. W., Toronto	Dome Tp.
McMarmac Red Lake Gold Mines Ltd.	402 Premier Trust Building, Toronto	Dome Tp.
Miles (Red Lake) Mines Ltd.	357 Bay St., Toronto	Ball Tp.
Norpick Gold Mines Ltd.	85 Richmond St. W., Toronto	Patricia
Pickle Crow Gold Mines Ltd.	Pickle Crow	Pickle Crow
Slate Bay Gold Mines Ltd.	371 Bay St., Toronto	McDonough Tp.
Starratt-Olsen Gold Mines Ltd.	25 King St. W., Toronto	Baird Tp.
New Jason Mines Ltd.	24 King St. W., Toronto	Casummit Lake
<u>Manitoba -</u>		
Central Manitoba Mines Ltd.	274 Fort St., Winnipeg	Rice Lake
Consolidated Mining & Smelting Co. of Canada Ltd.	Trail, British Columbia	Channing
Herb Lake Mining & Exploration Ltd.	23 Scott St., Toronto, Ontario	Herb Lake
Howe Sound Exploration Co. Ltd.	Snow Lake	Snow Lake
Jeep Gold Mine Ltd.	237 Curry Building, Winnipeg	Bissett
Northern Canada Mines Ltd.	44 Victoria St., Toronto, Ontario	Snow Lake
Ogama-Rockland Gold Mines Ltd.	1501 Star Building, 80 King St. W., Toronto, Ontario	
Roxy Gold Mines Ltd.	395 Main St., Winnipeg	Long Lake
San Antonio Gold Mines Ltd.	237 Curry Building, Winnipeg	Rice Lake
Sno-Squall Mines Ltd.	Box 779, Flin Flon	Bissett
		Herb Lake
<u>Saskatchewan -</u>		
Nicholson Mines, Ltd.	25 King St. W., Toronto, Ontario	Goldfields

ACTIVE OPERATORS IN THE CANADIAN AURIFEROUS QUARTZ MINING INDUSTRY, 1948
(Concluded)

Name	Head or Executive Office Address	Location
<u>British Columbia -</u>		
Alpine Gold Ltd.	Box 191, Nelson	Nelson
Bralorne Mines Ltd.	555 Burrard St., Vancouver	Bralorne
Consolidated Mining & Smelting Co. of Canada Ltd.	Trail	Omineca
Canyon Cariboo Gold Mines Ltd.	789 W. Pender St., Vancouver	Cariboo
Cariboo Gold Quartz Mining Co. Ltd.	1007 Royal Bank Building, 675 W. Hastings St., Vancouver	Cariboo
Dentonia Mines Ltd.	509 Richards St., Vancouver	Greenwood
Esperanza Mines Ltd.	624 Columbia St., New Westminster	Cassiar
Halforth Mines Ltd.	67 Yonge St., Toronto, Ontario	Portland Canal
Hedley Monarch Gold Mines Ltd.	602 Rogers Building, Vancouver	Osoyoos
Hedley Mascot Gold Mines Ltd.	908 Royal Bank Building, Vancouver	Osoyoos
Island Mountain Mines Co. Ltd.	Wells	Cariboo
Kelowna Exploration Co. Ltd.	Hedley	Osoyoos
Kenville Gold Mines Ltd.	603 Royal Bank Building, Toronto, Ontario	Nelson
Kootenay Belle Leasers	Sheep Creek	Sheep Creek
Kootenay Central Mines Ltd.	Box 2020, Rossland	Rossland
Morris Summit Gold Mines Ltd.	510 Stock Exchange Building, Vancouver	Salmon River
Pioneer Gold Mines of B.C. Ltd.	711 Yorkshire Building, Vancouver	Lillooet
Polaris-Taku Mining Co. Ltd.	Tulsequah	Atlin
Privateer Mine Ltd.	602 Stock Exchange Building, Vancouver	Zeballos
Sheep Creek Gold Mines Ltd.	616 Stock Exchange Building, Vancouver	Nelson
<u>Northwest Territories -</u>		
Akaiitcho Yellowknife Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Yellowknife
Consolidated Mining & Smelting Company of Canada Ltd.	Trail, British Columbia	Yellowknife
Crestaurum Mines Ltd.	25 King St. W., Toronto, Ontario	Yellowknife
Discovery Yellowknife Mines Ltd.	171 Yonge St., Toronto, Ontario	Yellowknife
Giant Yellowknife Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Yellowknife
Frobisher Ltd.	25 King St. W., Toronto, Ontario	Yellowknife
Negus Mines Ltd.	410 Royal Bank Building, Toronto, Ontario	Yellowknife
Newnorth Gold Mines Ltd.	1006 Concourse Building, Toronto, Ontario	Courageous Lake
Ranney Gold Mines Ltd.	25 King St., Toronto, Ontario	Yellowknife
Thompson-Lundmark Gold Mines Ltd.	320 Bay St., Toronto, Ontario	Yellowknife

PRINCIPAL CANADIAN ALLUVIAL GOLD OPERATORS, 1948

Name	Head or Executive Office Address	Location
<u>British Columbia -</u>		
American Gold Fields	320 Platt Building, Portland, Oregon	Cariboo
Andersen, M. A.	Wells	Cariboo
Atkinson Dredging Co. Ltd.	Princeton	Similkameen
Atlin Ventures Ltd.	2836 E. 16th Ave., Vancouver	Atlin
Boulder Creek Partnership	Atlin	Atlin
Boyd, John	410 Maclean Block, Calgary, Alberta	Fort Steele
Biggs, Leroy	Stanley	Cariboo
Bride, Maurice	Spruce Creek, Atlin	Atlin
Brister, J. V., Co.	Atlin	Atlin
Chimney Creek-Fraser Placer Mines Ltd.	45 Richmond St.W., Toronto, Ontario	Quesnel
Fallow Bros Ltd.	Vernon	Vernon
Fook Chung	Wells	Cariboo
Falconer, D. K.	Spruce Creek, Atlin	Atlin
Freeman, F. W., and Hind, J.	Van Winkle	Cariboo

PRINCIPAL CANADIAN ALLUVIAL GOLD OPERATORS, 1948
(Concluded)

Name	Head or Executive Office Address	Location
<u>British Columbia (Concluded) -</u>		
Fry, Thomas	Quesnel and Rochon Creek	Cariboo
Gunn, J. J.	Wells	Cariboo
Hall, Ralph	Manson Creek	Manson Creek
Hugh, R., and J. A. Reddick	Princeton	Similkameen
Holm, A., and T. M. Petersen	Barkerville	Cariboo
Ivanic, Steve & Partners	Atlin	Spruce Creek
Lowhee Mining Co. Ltd.	605 Tacoma Building, Tacoma, Washington, U.S.A.	Cariboo
Geometal Mines Ltd.	612 Federal Building, Toronto	Quesnel
Lincoln Gold Placers Ltd.	Manson Creek	Omineca
Moccasin Mines Ltd.	5261 Stockton Blvd., Sacramento, California, U.S.A.	McDame Creek
Neland, John W.	Atlin	Spruce Creek
Prpich, Tom	Atlin	Atlin
Piccolo Bros.	Atlin	Atlin
Summit Mines, Ltd.	5261 Stockton Blvd., Sacramento, California, U.S.A.	Cariboo
Swanson & Watt	Atlin	Atlin
Swift River Dredging Co. Ltd.	Box 845, Quesnel	Cariboo
Van Deinse, F. C.	351 California St., San Francisco, California, U.S.A.	Omineca
<u>Yukon -</u>		
Clear Creek Placers Ltd.	Dawson	Clear Creek
Kluane Dredging Co. Ltd.	Whitehorse	Burwash Creek
Yukon Explorations Ltd.	675 West Hastings St., Vancouver, British Columbia	Big Gold Creek
Yukon Consolidated Gold Corp. Ltd.	1919 Marine Building, Vancouver, British Columbia	Various

OPERATORS IN CANADIAN COPPER-GOLD-SILVER MINING INDUSTRY, 1948

Name	Head or Executive Office Address	Location
<u>Quebec -</u>		
Continental Copper Mines Ltd.	67 Yonge St., Toronto, Ontario	Dufresnoy Tp.
Cusau Mines Ltd.	477 St. François Xavier St., Montreal	LaSarre Tp.
East Sullivan Mines Ltd.	1004 Aldred Building, Montreal	Bourlamaque Tp.
Gaspé Copper Mines Ltd.	Noranda	Holland Tp.
Gan Copper Mines Ltd.	c/o H. G. Donley, 38 King St. W., Toronto, Ontario	Beauchastel Tp.
Insko Mines Ltd.	355 St. James St., Montreal	Dufresnoy Tp.
Lake Dufault Mines Ltd.	Duparquet	Dufresnoy Tp.
Noranda Exploration Co. Ltd.	Noranda	Holland Tp.
Noranda Mines Ltd.	1600 Royal Bank Building, Toronto, Ontario	Noranda
Norbec Copper Mines Ltd.	25 King St. W., Toronto, Ontario	Dufresnoy Tp.
Normetal Mining Corp. Ltd.	350 Bay St., Toronto, Ontario	Desmeloiges Tp.
Paramount Mining Corp. Ltd.	5225 Avenue de Gaspé, Montreal	Dalquier
Quebec Manitou Mines Ltd.	78 Sparks St., Ottawa, Ontario	Abitibi
Rainville Copper Mines Ltd.	25 King St. W., Toronto, Ontario	Louvicoourt Tp.
Richard Copper Corp.	Box 898, Haileybury, Ontario	Destor Tp.
Touton Mining & Exploration Co.	c/o Joseph Hurtubise, 500 Place d'Armes, Montreal	Fabre Tp.
Quemont Mining Corp. Ltd.	350 Bay St., Toronto, Ontario	Rouyn Tp.
Waite Amulet Mines Ltd.	Noranda	Dufresnoy Tp.
Quebec Smelters Ltd.	Noranda	Gaspé

OPERATORS IN CANADIAN COPPER-GOLD-SILVER MINING INDUSTRY, 1948
(Concluded)

Name	Head or Executive Office Address	Location
<u>Ontario -</u>		
Bi-Ore Mines Ltd.	199 Bay St., Toronto	Iron Bridge
Ryan Lake Mines Ltd.	Drawer 102, Matachewan	Powell Tp.
Trethewey Ossian Copper Mines Ltd.	23A Earl St., Kirkland Lake	Boston Creek
<u>Manitoba -</u>		
Cuprus Mines Ltd.	500 Royal Bank Building, Winnipeg	Flin Flon
Hudson Bay Mining & Smelting Co. Ltd.	500 Royal Bank Building, Winnipeg	Flin Flon
Sherritt-Gordon Mines Ltd.	25 King St.W., Toronto, Ontario	Sherridon
Callinan Flin Flon Mines Ltd.	66 King St. W., Toronto, Ontario	Flin Flon
Dickstone Copper Mines Ltd.	395 Main St., Winnipeg	Morton Lake
<u>Saskatchewan -</u>		
Hudson Bay Mining & Smelting Co. Ltd.	500 Royal Bank Building, Winnipeg, Manitoba	Flin Flon
<u>British Columbia -</u>		
Britannia Mining & Smelting Co. Ltd.	Britannia Beach	Britannia Beach
Granby Consolidated Mining, Smelting and Power Co. Ltd.	675 West Hastings St., Vancouver	Similkameen
Guichon Mine Ltd.	124 Pacific Building, 744 West Hastings St., Vancouver	Yale
Quatsino Copper Gold Mines Ltd.	572 Howe St., Vancouver	Greenwood
Vananda Mines (1948) Ltd.	616 Stock Exchange Building, Vancouver	Vananda
Velvet Mine	730 Vance Building, Seattle, Washington, U.S.A.	Trail Creek

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