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GOVERNMENT OF CANADA



THE GOLD MINING INDUSTRY
1950



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Canada

DOMINION BUREAU OF STATISTICS — DEPARTMENT OF TRADE AND COMMERCE

THE GOLD MINING INDUSTRY

1950

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NOTICE

The Industry and Merchandising Division of the Bureau of Statistics collects and compiles figures on (a) the primary industries in Canada — mining, forestry and fishing; (b) manufacturing; (c) construction, and (d) merchandising and services.

The following reports constitute the complete volume on Mineral Statistics of Canada. Individual reports are issued as the information becomes available; they are arranged in a form suitable for binding.

- A General Review of the Mining Industry, 25¢
- B The Gold Mining Industry, 50¢.
- C The Silver-Lead-Zinc Mining Industry, 30¢.
- D The Nickel-Copper Mining, Smelting and Refining Industry, 25¢.
- E The Miscellaneous Metal Mining Industry, 30¢.
- F The Non-ferrous Smelting and Refining Industry, 25¢.
- G The Coal Mining Industry, 75¢.
- H The Natural Gas and Crude Petroleum Industry, 25¢.
- I The Asbestos Mining Industry, 25¢.
- J The Feldspar and Quartz Mining Industry, 25¢
- K The Gypsum Industry, 25¢.
- L The Peat Industry, 25¢.
- M The Salt Industry, 25¢.
- N The Talc and Soapstone Industry, 25¢.
- O The Miscellaneous Non-Metal Mining Industry, 30¢.
- P The Cement Manufacturing Industry, 25¢.
- Q The Clay and Clay Products Industry, 25¢.
- R The Lime Industry, 25¢.
- S The Sand and Gravel Industry, 25¢.
- T The Stone Industry, 35¢.
- U Contract Diamond Drilling in the Mining Industry, 25¢.

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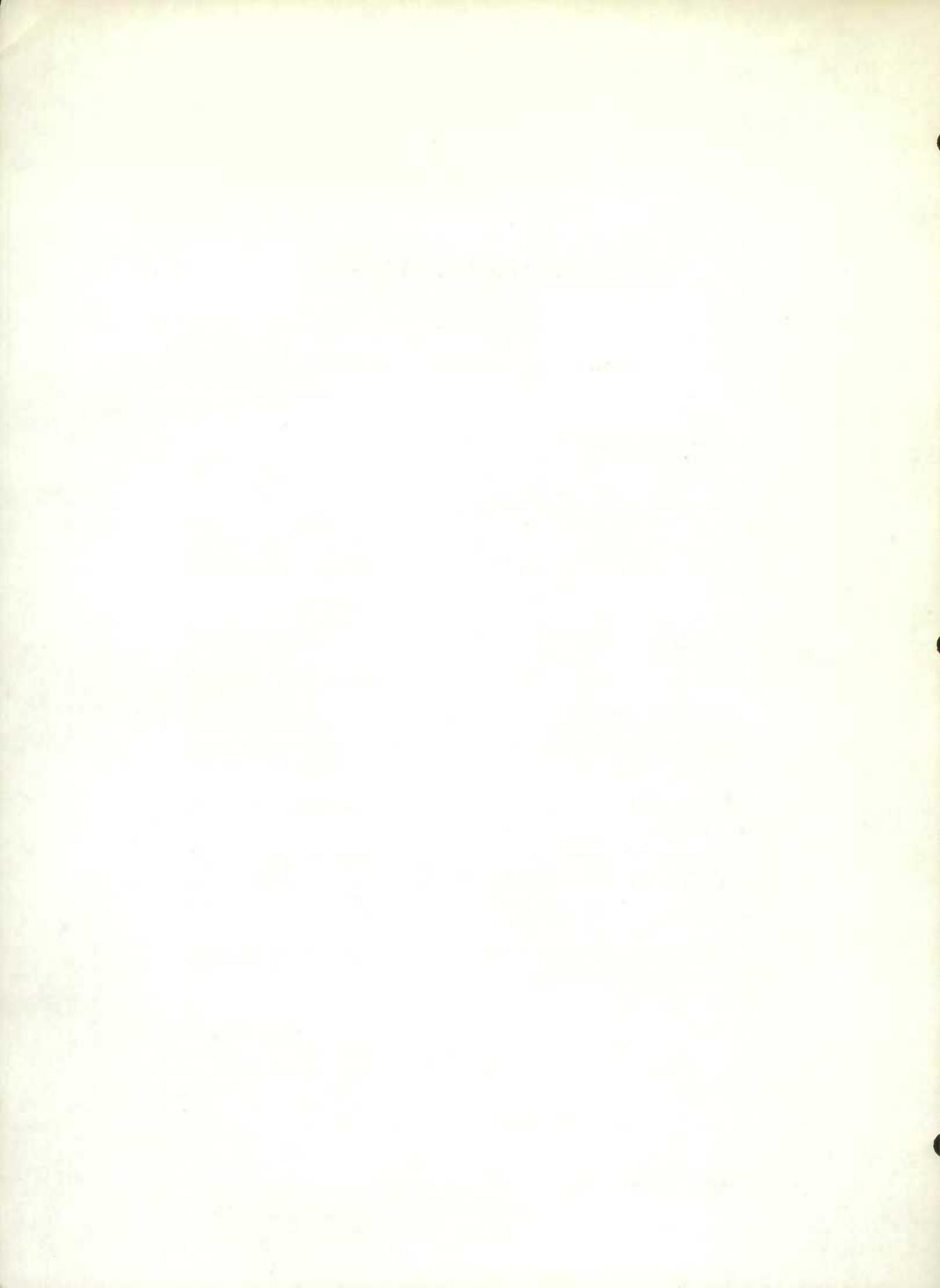
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THE GOLD MINING INDUSTRY

1950

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

Definition of the Industry — Gold mining in Canada is divided into three principal industries: (a) the recovery of gold from the gravels and sands of stream channels or beaches, described as "The Alluvial Gold Mining Industry"; (b) the recovery of the 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 comprehensive survey of Canadian gold production.

Gold production in Canada during 1950 amounted to 4,441,227 fine troy ounces valued at \$168,988,687 compared with 4,123,518 troy ounces worth \$148,446,648 in the preceding year. There was only a slight increase in 1950 in the number of employees in the gold mining industry and in some areas the mines lacked sufficient labor to carry out their development programs.

Ontario continued to be the leading producer of gold with 56 per cent of the total. Quebec retained second position with 25 per cent, followed by British Columbia with 6.5 per cent. Production from the other provinces was in the order of Northwest Territories, Manitoba, Yukon, Saskatchewan, Newfoundland, Alberta and Nova Scotia.

During the first nine months of the year the Government maintained the ten per cent discount on the Canadian dollar in relation to the United States dollar so the price of gold was \$38.50 per fine ounce in Canadian funds. On October 1, 1950, the Canadian dollar was freed and allowed to fluctuate normally in the monetary market. During the last quarter of the year the price of gold paid by the Royal Canadian Mint varied from \$36.29 to \$37.08 per ounce. The average nominal price for the year was calculated at \$38.05 per troy ounce and this figure was used in computing the production value for the twelve months' period.

The aid payable to the gold mines by the Emergency Gold Mining Assistance Act was estimated at \$7,176,000 in 1950 compared with \$12,500,000 in 1949 and with \$10,500,000 in 1948.

TABLE 1. Production of Gold, Fifty Years, 1901-1950

Year	Fine ounces	\$	Year	Fine ounces	\$
1901.....	1,167,216	24,128,503	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	1,928,308	39,861,663
1905.....	684,951	14,159,195	1930	2,102,068	43,453,601
1906.....	556,415	11,502,120	1931	2,693,892	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	104,096,359
1922.....	1,263,364	26,116,050	1947	3,070,221	107,457,735
1923.....	1,233,341	25,495,421	1948	3,529,608	123,536,280
1924.....	1,525,382	31,532,443	1949	4,123,518	148,446,648
1925.....	1,735,735	35,880,826	1950	4,441,227	168,988,687

TABLE 2. Total (Cumulative) Recorded Production of Specified Metals to December 31, 1950

	Since		Quantity	Value
				\$
Gold.....	1858	fine ounces	112,991,609	3,440,737,680
Silver.....	1887	fine ounces	975,883,858	564,093,880
Copper.....	1886	tons	6,276,878	1,669,767,500
Nickel.....	1889	tons	2,812,354	1,612,992,085
Lead.....	1887	tons	5,288,237	612,595,879
Zinc.....	1898	-	-	636,934,045
Cobalt.....	1904	tons	18,960	38,708,443

TABLE 3. Production of Gold, by Months¹, 1948-1950

Month	1948	1949	1950	Month	1948	1949	1950
	(Fine ounces)				(Fine ounces)		
January	273,415	310,981	353,615	July	296,247	327,235	367,766
February	261,650	308,724	349,291	August	305,452	359,931	375,924
March	287,760	343,877	382,624	September	294,963	364,689	364,361
April	286,124	327,828	369,070	October	306,989	366,680	376,315
May	288,474	333,126	373,124	November	311,399	362,772	378,294
June	290,102	344,275	368,347	December	327,033	373,200	382,496
				Total	3,529,608	4,123,518	4,441,227

1. Compiled from monthly reports received from principal operators but the amounts have been adjusted slightly to make the 12 months' total agree with the year's 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, 1948-1950

Month	Gold production from base metal mines			Gold production from auriferous quartz mines and placer deposits		
	1948	1949	1950	1948	1949	1950
(Fine ounces)						
January	30,540	34,838	47,250	242,875	276,143	306,365
February	29,544	31,309	45,191	232,106	277,415	304,100
March	28,970	35,859	51,410	258,790	308,018	331,214
April	32,435	34,115	50,208	253,689	293,713	318,862
May	28,464	34,444	49,827	260,010	298,682	323,297
June	28,481	37,897	49,321	261,621	306,378	319,026
July	32,584	37,235	46,150	263,663	290,000	321,616
August	30,147	39,888	46,039	275,305	320,043	329,885
September	31,676	47,384	43,283	263,287	317,305	321,078
October	31,363	37,675	44,625	275,626	329,205	331,690
November	32,742	44,304	45,788	278,657	318,468	332,506
December	32,728	45,804	49,235	294,305	327,396	333,261
Total	369,674	460,752	568,327	3,159,934	3,662,766	3,872,900

TABLE 5. Production of Gold¹, by Provinces, 1941-1950

Year	Nova Scotia		Quebec		Ontario		Manitoba	
	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$
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
1949	64	2,304	964,184	34,710,624	2,354,509	84,762,324	137,399	4,946,364
1950	65	2,473	1,094,645	41,651,242	2,481,110	94,406,236	191,725	7,295,136
		Saskatchewan		British Columbia		Yukon		Northwest Territories
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
1949	94,208	3,391,468	304,307	10,955,052	81,970	2,950,920	177,493	6,389,748
1950	79,784	3,035,781	290,490	11,053,144	93,339	3,551,549	200,663	7,635,227

1. From all sources.

Note: Annual Alberta production was less than 215 ounces for the years specified. Newfoundland production was 9,269 ounces in 1949 and 9,254 ounces in 1950.

TABLE 6. Production of Gold, by Provinces, According to Nature of Ores, 1949 and 1950

Year and Province	Placer gold	Auriferous quartz ores	Copper-gold-silver ores	Nickel-copper ores	Silver-lead and other ores	Total
(Fine ounces)						
1949						
Newfoundland.....	—	—	—	—	9,269	9,269
Nova Scotia.....	—	64	—	—	—	64
Quebec.....	—	703,677	245,991	—	14,516	964,184
Ontario.....	—	2,318,761	—	35,748	—	2,354,509
Manitoba.....	—	106,755	30,644	—	—	137,399
Saskatchewan.....	14	—	94,194	—	—	94,208
Alberta.....	115	—	—	—	—	115
British Columbia.....	14,497	259,420	24,072	—	6,318	304,307
Northwest Territories.....	18	177,475	—	—	—	177,493
Yukon.....	81,970	—	—	—	—	81,970
Canada.....	96,614	3,566,152	394,901	35,748	30,103	4,123,518
1950						
Newfoundland.....	—	—	—	—	9,254	9,254
Nova Scotia.....	—	65	—	—	—	65
Quebec.....	—	743,241	332,592	—	18,812	1,094,645
Ontario.....	—	2,444,839	7	36,264	—	2,481,110
Manitoba.....	—	137,020	54,705	—	—	191,725
Saskatchewan.....	—	—	79,784	—	—	79,784
Alberta.....	152	—	—	—	—	152
British Columbia.....	14,632	238,949	12,779	—	24,130	290,490
Northwest Territories.....	20	200,643	—	—	—	200,663
Yukon.....	93,339	—	—	—	—	93,339
Canada.....	108,143	3,764,757	479,867	36,264	52,196	4,441,227

TABLE 7. Gold Production by Provinces and Principal Areas, 1948-1950

Province and Area	1948		1949		1950	
	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$
Newfoundland.....	Not included		9,269	333,684	9,254	352,115
Nova Scotia.....	188	6,580	64	2,304	65	2,473
Quebec:						
Gold mines.....	605,186	21,181,510	703,677	25,332,372	743,241	28,230,320
Base metal mines.....	165,439	5,790,365	260,507	9,378,252	351,404	13,370,922
Total Quebec.....	770,625	26,971,875	964,184	34,710,624	1,094,645	41,651,242
Ontario:						
Gold mines:						
Porcupine.....	998,838	34,959,330	1,047,949	37,726,164	1,100,122	41,859,642
Kirkland Lake.....	447,888	15,676,080	475,819	17,129,484	448,391	17,061,278
Larder Lake.....	204,144	7,145,040	314,434	11,319,624	341,081	12,978,132
Matachewan.....	48,994	1,714,790	49,526	1,782,936	50,048	1,904,326
Sudbury.....	23,974	839,090	32,725	1,178,100	36,930	1,405,187
Algoma.....	165	5,775	—	—	—	—
Thunder Bay.....	112,351	3,932,285	117,863	4,243,068	131,413	5,000,265
Patricia.....	219,204	7,672,140	280,348	10,092,528	336,854	12,817,295
Other mines.....	39,819	1,393,665	35,845	1,290,420	36,271	1,380,111
Total Ontario.....	2,095,377	73,338,195	2,354,509	84,762,324	2,481,110	94,406,236
Manitoba:						
Gold mines.....	63,074	2,207,590	106,755	3,843,180	137,020	5,213,611
Other mines.....	43,102	1,508,570	30,644	1,103,184	54,705	2,081,525
Total Manitoba.....	106,176	3,716,160	137,399	4,946,364	191,725	7,295,136
Saskatchewan:						
Gold mines.....	4	140	14	504	—	—
Other mines.....	87,923	3,077,305	94,194	3,390,984	79,784	3,035,781
Total Saskatchewan.....	87,927	3,077,445	94,208	3,391,488	79,784	3,035,781
Alberta (placer).....	78	2,730	115	4,140	152	5,784
British Columbia:						
Gold mines (lode).....	254,130	8,894,550	260,088	9,363,168	238,949	9,092,009
Gold mines (placer).....	18,133	634,655	14,497	521,892	14,632	556,747
Other mines.....	34,735	1,215,725	29,722	1,069,992	36,909	1,404,387
Total British Columbia.....	306,998	10,744,930	304,307	10,955,052	290,490	11,053,144
Northwest Territories:						
Gold mines and placer.....	101,625	3,556,875	177,493	6,369,748	200,663	7,635,227
Yukon (chiefly placer).....	60,614	2,121,490	81,970	2,950,920	93,339	3,551,549
Total Canada.....	3,529,608	123,536,280	4,123,518	148,446,648	4,441,227	168,988,687

TABLE 8. Production of Gold and Silver by Principal Mines, 1950

Mine and Province	Ore hoisted	Material sorted (discarded)	Ore treated	Gold produced	Silver produced	Mill capacity 24 hours	See footnotes
	Tons	Tons	Tons	Fine ounces	Fine ounces	Tons	
NEWFOUNDLAND:							
Base metal ores	—	—	—	9,254	575,524	—	—
NOVA SCOTIA:							
Royal Canadian Mint receipts from Nova Scotia mines	—	—	—	65	2	—	—
QUEBEC:							
Anglo-Rouyn	57,297	—	57,297	11,949	6,680	—	1
Belleterre	133,410	5,790	127,750	39,597	6,160	350	2
Bevcourt	48,564	—	48,564	11,234	4,609	—	3
Barnat	214,135	—	214,610	23,638	7,794	600	2
Canadian Malartic	470,705	—	470,705	43,737	26,744	1,300	2
Consolidated Beattie	613,460	3,060	610,400	56,725	24,151	1,800	2
Consolidated Duquesne	24,174	—	24,174	4,568	113	—	4
Donald a	93,045	—	93,045	14,554	12,157	—	1
East Malartic	431,944	—	431,944	68,040	12,006	1,500	2
Elder	133,643	—	133,643	20,819	3	—	5
Lamaque	537,255	—	537,255	111,482	20,449	1,200	1
Malartic Goldfields	606,096	—	606,096	105,545	4,549	1,500	1
O'Brien	66,805	—	66,805	28,038	1,811	200	2,6
Powell Rouyn	152,108	—	152,108	16,608	1,151	525	5,2
Perron	95,553	—	95,553	14,243	1,376	425	2
Quesabe	27,378	—	27,378	8,551	638	400	2,5
Senator Rouyn	184,252	—	184,252	21,219	4,468	600	2
Sigma	424,984	—	424,984	73,970	15,391	1,100	2
Stadacona	159,651	19,506	140,145	23,268	6,663	400	2
Sullivan Consolidated	222,325	40,944	181,381	44,151	12,368	500	2
Total for principal gold mines in Quebec	—	—	—	741,936	169,281	—	—
Copper-gold and other ores	—	—	—	352,709	4,174,098	—	—
Total Quebec	—	—	—	1,094,645	4,343,379	—	—
ONTARIO:							
<i>Porcupine District</i>							
Aunor	177,371	—	177,371	65,424	4,802	300	2
Bonetal	37,614	—	37,614	6,293	291	—	7
Broulan	44,688	762	43,926	12,777	4,023	350	2
Buffalo-Ankerite	107,120	—	106,900	29,472	1,905	1,200	2
Contaurum	133,995	—	133,995	31,636	5,543	500	2
Delnite	153,503	—	153,165	39,316	3,531	520	2
Dome	680,000	—	680,000	159,904	29,857	1,850	2,6
Hallnor	131,760	—	131,760	48,994	3,883	400	2
Hollinger-(Timmins)	1,128,939	—	1,127,616	288,929	50,876	3,900	2
Hollinger-(Ross)	110,409	—	110,752	19,943	44,659	300	2
Hugh-Pam	8,298	—	8,298	2,484	—	—	7
McIntyre	753,573	—	741,410	201,459	41,418	2,400	2
Panour	605,081	—	605,081	58,213	6,159	1,600	2
Paymaster	190,217	—	186,055	37,093	12,887	600	2
Porcupine Reef	104,114	4,529	99,585	40,630	—	—	7
Preston East Dome	238,645	—	238,657	56,931	7,015	800	2,6
<i>Kirkland Lake District</i>							
Kirkland Lake Gold	114,826	—	114,826	39,115	3,809	400	2
Lake Shore	370,267	—	370,267	140,797	37,391	1,500	2
Macassa	128,710	—	128,710	43,312	7,690	400	2
Sylvanite	170,410	—	170,552	48,034	10,656	600	2
Tech Hughes	169,673	—	160,535	42,034	11,077	600	2
Toburn	45,866	3,272	42,594	13,911	2,300	175	2
Upper Canada	138,969	—	138,969	39,437	12,338	400	2
Wright Hargreaves	194,496	—	194,496	81,751	16,036	1,200	2
<i>Larder Lake District</i>							
Chesterville	320,759	—	320,759	18,773	1,198	900	2
Kerr Addison	1,583,940	—	1,582,974	320,808	16,549	4,000	2
<i>Matachewan District</i>							
Matachewan Consolidated	246,622	—	246,622	18,784	8,719	1,000	2
Young Davidson	318,191	—	318,194	31,264	5,517	1,050	2

1. Shipped to Powell Rouyn mill.
2. Cyanidation.
3. Shipped to Perron mill.
4. Shipped to Consolidated Beattie.
5. Shipped to smelter.
6. Amalgamation process.
7. Shipped to Broulan mill.

TABLE 8. Production of Gold and Silver by Principal Mines, 1950 — Concluded

Mine and Province	Ore hoisted	Material sorted (discarded)	Ore treated	Gold produced	Silver produced	Min. capacity 24 hours	See footnotes
	Tons	Tons	Tons	Fine ounces	Fine ounces	Tons	
ONTARIO — Concluded							
<i>Sudbury District</i>							
Renabie	158,048	—	157,948	36,910	12,044	450	1
<i>Thunder Bay District</i>							
Hard Rock	167,152	—	167,152	.13,426	1,298	600	1
Leitch	43,553	10,554	31,736	25,457	957	90	1, 2
Little Long Lac	117,932	2,135	115,797	27,889	2,612	300	1, 2
MacLeod-Cockshutt	286,791	25,688	261,103	55,006	1,266	1,000	1
Magnet consolidated	44,771	—	44,771	8,764	1,002	150	1, 2
Theresa	7,352	140	7,212	871	36	100	2
<i>Patricia District</i>							
Campbell Red Lake	153,889	14,470	139,742	58,733	3,680	300	1, 2
Central Patricia	85,669	—	85,669	22,621	2,043	400	1
Cochenour Willans	71,171	—	71,171	38,096	1,591	200	1, 2
Hasaga	163,625	20,125	143,035	15,612	6,043	400	1
Madsen Red Lake	282,050	—	282,050	65,450	15,022	800	1
McKenzie Red Lake	88,949	9,272	79,677	24,140	4,453	240	1
New Dickenson	46,546	—	46,234	20,783	1,824	150	1, 2
New Jason	35,222	—	38,654	12,966	1,230	150	1, 2
Pickle Crow	134,383	13,291	121,467	46,812	7,249	400	1, 2
Starratt Olsen	137,151	—	136,801	31,580	5,644	500	1
Total for principal gold mines in Ontario	—	—	—	2,442,634	418,123	—	—
Nickel-copper and other mines	—	—	—	38,476	4,370,144	—	—
Total Ontario	—	—	—	2,481,110	4,408,620	—	—
MANITOBA:							
Howe Sound	664,153	—	664,153	75,188	8,096	2,000	1
Ogama-Rockland	60,240	11,711	48,529	12,626	1,623	150	1
Jeep Gold	3,085	—	3,085	1,806	—	—	3
San Antonio	170,128	—	177,900	46,562	7,974	550	1, 2
Copper-gold and other ores	—	—	—	55,543	875,406	—	—
Total Manitoba	—	—	—	191,725	893,099	—	—
SASKATCHEWAN:							
Copper-gold and alluvial ores	—	—	—	79,784	1,207,796	—	—
ALBERTA:							
Alluvial gold	—	—	—	152	14	—	—
BRITISH COLUMBIA:							
Bralorne	185,074	—	185,074	77,238	20,535	500	2
Cariboo Gold Quartz	60,689	—	60,689	22,070	2,153	375	1
Island Mountain	40,580	—	40,580	16,809	2,378	150	1
Kelowna Exploration (Nickel Plate)	123,689	—	123,689	44,617	3,901	325	1, 4
Kelowna Exploration (French)	2,740	—	2,740	3,186	—	—	1, 5
Polaris-Taku	95,667	—	95,667	33,228	—	300	1, 4
Pioneer	74,248	697	73,551	35,350	7,563	325	1
Sheep Creek Gold (Queen)	15,846	—	15,846	5,004	2,082	150	1
Total for principal gold mines in B.C.	—	—	—	237,502	38,612	—	—
Placer gold	—	—	—	14,362	2,275	—	—
Copper-gold and other ores	—	—	—	38,356	8,487,220	—	—
Total British Columbia	—	—	—	290,490	8,528,107	—	—
NORTHWEST TERRITORIES:							
Consolidated Mining & Smelting	107,580	—	107,580	57,290	20,496	350	1, 2
Discovery Yellowknife	29,995	—	29,995	18,031	1,888	100	1
Giant Yellowknife	148,271	—	151,546	105,289	34,002	500	1, 2
Negus	68,112	246	58,290	20,033	5,722	185	1, 2
Other ores	—	—	—	20	3	—	—
Total Northwest Territories	—	—	—	200,663	62,111	—	—
YUKON:							
Placer and silver-lead ores	—	—	—	93,339	3,202,779	—	—
Total Canada	—	—	—	4,441,227	23,221,431	—	—

1. Cyanidation.
2. Amalgamation process.
3. Shipped to San Antonio mine.
4. Flotation process, concentrates exported.
5. Milled at Nickel Plate mine.

TABLE 9. Gold Production of the World¹ — (Omitting Russia) — 1947-1950 (Taken from the Annual Report of the American Bureau of Metal Statistics)

Country	1947	1948	1949	1950
Fine ounces				
North America:				
United States.....	2,320,531	2,099,178	1,996,435	2,375,130
Canada.....	3,070,221	3,529,608	4,123,518	4,430,612
Newfoundland.....	14,600	12,252		
Mexico.....	464,728	339,183	405,540	408,112
Total North America.....	5,870,080	5,980,221	6,525,493	7,213,854
Central America and West Indies.....	250,000	270,000	242,000	180,000
South America:				
Brazil ²	135,544	130,243	119,179	131,700
Chile.....	168,852	164,126	179,140	185,538
Colombia.....	383,027	335,260	359,475	379,412
Ecuador.....	55,000	70,196	80,982	83,071
Peru.....	116,014	111,160	113,753	125,388
Guiana:				
British.....	21,111	16,518	21,098	—
Dutch.....	4,134	4,177	3,794	4,600
French.....	14,918	13,625	14,265	12,249
Venezuela.....	22,409	49,730	61,377	—
Other South America.....	20,000	20,000	—	—
Total South America.....	941,009	915,025	—	—
Europe.....	400,000	400,000	300,000	300,000
Australia:				
New South Wales.....	50,082	57,462	56,075	43,028
Queensland.....	72,281	69,646	76,282	87,266
Victoria.....	84,709	68,580	68,426	59,487
Western Australia.....	703,886	664,985	648,425	610,333
Tasmania.....	15,051	12,904	12,152	14,725
Other Australia.....	11,645	17,225	31,979	36,116
Total Australia (Commonwealth).....	927,654	890,802	893,329	850,955
New Guinea.....	59,202	86,556	93,045	80,000
New Zealand.....	112,260	93,903	84,874	75,891
Fiji.....	94,295	98,000	104,036	100,000
Asia:				
China.....	107,535	—	—	—
India.....	171,782	185,000	162,000	188,493
Japan.....	69,200	97,607	128,445	—
Korea ³	329,000	3,466	3,418	—
Philippines Republic.....	64,441	209,225	287,844	333,991
Saudi Arabia.....	52,000	74,000	66,835	66,202
Other Asia.....	12,958	23,327	—	—
Total Asia.....	906,916	592,625	—	—
Africa:				
Bechuanaland.....	7,381	1,507	256	—
Belgian Congo.....	301,438	299,767	333,847	339,408
British West Africa ⁴	562,614	677,480	681,606	696,400
Ethiopia.....	25,700	41,595	45,102	—
French Cameroons.....	11,574	10,719	8,931	7,169
French Equatorial Africa.....	64,034	63,715	57,259	54,977
Kenya.....	21,959	23,429	20,072	31,314
Liberia.....	19,000	13,797	14,656	—
Madagascar.....	1,521	2,095	2,572	1,929
Rhodesia.....	522,966	514,440	528,180	511,163
Tanganyika.....	47,300	57,557	68,989	65,127
Transvaal, Cape Colony, Natal.....	11,200,281	11,584,849	11,705,048	11,663,713
Uganda.....	1,432	921	871	586
Other Africa.....	27,065	40,800	—	—
Total Africa.....	12,814,265	13,332,671	—	—
Russia ⁵	7,000,000	7,000,000	7,000,000	—
Total.....	29,285,681	29,659,813	—	—

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

2. Mined gold only; production of alluvial gold unknown.

3. Beginning 1948 South Korea only.

4. Comprising Gold Coast, Sierra Leone and Nigeria.

5. As reported by Director of the Mint.

TABLE 10. Gold Production According to Method of Computation and Recovery, 1941 - 1950

Year	In alluvial gold	In crude gold bullion produced at mines ¹	In base bullion produced at lead smelters	In blister and anode copper produced ²	In ores, matte, slags, etc., exported	Total gold produced
	%	%	%	%	%	Fine ounces
1941	2.0	82.6	0.4	10.3	4.7	5,345,179
1942	2.3	80.8	0.2	12.1	4.6	4,841,306
1943	1.45	78.71	0.19	15.61	4.04	3,651,301
1944	1.14	78.98	0.12	15.41	4.35	2,922,911
1945	1.55	76.77	0.09	15.30	6.29	2,696,727
1946	2.15	80.91	0.16	13.48	3.30	2,832,554
1947	1.74	84.4	0.15	9.41	4.3	3,070,221
1948	2.23	83.19	0.22	10.01	4.35	3,529,608
1949	2.35	83.94	0.23	9.71	3.77	4,123,518
1950	2.43	81.51	0.38	12.26	3.42	4,441,227

1. Includes a small quantity of gold contained in shipments of gold ores, slags, etc., to Canadian smelters.

2. Contains a small quantity of gold recovered from auriferous quartz ores.

TABLE 11. Estimated Average Monthly Value of an Ounce of Fine Gold, Expressed in Canadian Funds, 1939 - 1950

Month	1939	1940-1945	1946	1947-1948	1949 ⁱ	1950	Dollars
January	35.30	38.50	38.50	35.00	35.00	38.50	38.50
February	35.19	38.50	38.50	35.00	35.00	38.50	38.50
March	35.13	38.50	38.50	35.00	35.00	38.50	38.50
April	35.15	38.50	38.50	35.00	35.00	38.50	38.50
May	35.13	38.50	38.50	35.00	35.00	38.50	38.50
June	35.07	38.50	38.50	35.00	35.00	38.50	38.50
July	35.06	38.50	35.35	35.00	35.00	38.50	38.50
August	35.01	38.50	35.00	35.00	35.00	38.50	38.50
September	37.21	38.50	35.00	35.00	36.52	38.50	38.50
October	38.43	38.50	35.00	35.00	38.50	36.86	36.86
November	38.50	38.50	35.00	35.00	38.50	36.43	36.43
December	38.50	38.50	35.00	35.00	38.50	36.83	36.83
Yearly average	36.14	38.50	36.75	35.00	36.00	38.05	38.05

1. United States dollar equivalent to \$1.10 Canadian funds from September 18, 1949 to October 1, 1950.

TABLE 12. Precious Metals Consumed by the Jewellery and Silverware Industry, 1947 - 1949

Material	Cost at works		
	1947	1948	1949
	\$	\$	\$
Fine gold	5,145,343	5,882,780	5,578,690
Gold alloys	586,108	636,185	917,037
Fine silver	2,708,620	2,898,952	4,618,640
Silver alloys and sterling	1,840,068	3,037,540	4,005,635
Platinum	439,577	469,408	434,730
Old gold, jewellers' findings, waste and scrap refining	1,175,922	1,571,467	2,327,295
Gold-filled wire and stock	228,242	348,176	235,867
Precious and semi-precious stones	1,602,698	2,168,413	2,623,783

EMERGENCY GOLD MINING ASSISTANCE ACT

The Act authorized the Minister of Mines and Resources, and later, as provided in the amendments to the Regulations, the Minister of Mines and Technical Surveys to make assistance payments to operators of primary gold mines in respect of gold produced from their mines and sold to the Royal Canadian Mint, or exported from Canada and sold during each of three designated years, which are the calendar years 1948, 1949 and 1950.

The amount of assistance payable to each gold mine operator in respect of gold produced and sold during the designated years 1948 and 1949 is determined by applying the "rate of assistance" to a portion of the gold so produced and sold, and the amount that may be paid in respect of the designated year 1950 shall be the "rate of assistance", minus \$3.50 multiplied by a similar portion of the gold produced and sold as in the designated years 1948 and 1949. In order to provide large assistance benefits for the high-cost or marginal mines, the "rate of assistance" increases with the cost of production, being 50 per cent of the amount by which the average cost of production per ounce exceeds \$18.00, with a provision that in no case is the "rate of assistance" to exceed \$16.00. Following the devaluation of the Canadian dollar on September 20, 1949, the gold mines received \$38.50 a fine ounce for gold produced and sold to the Royal Canadian Mint. In the part of 1949 after devaluation the gold mines re-

ceived not only the benefits from devaluation, but also the full amount of cost aid under the unamended Act. In the designated year 1950, however, the rate of assistance payable under the Act was reduced by \$3.50 an ounce, the amount of devaluation, or from a maximum of \$16.00 to a maximum of \$12.50 a fine ounce.

The Act provides that this "rate of assistance" shall apply to the number of ounces of gold by which the number of ounces produced in a designated year exceeds two-thirds of the number produced by the mine in the base year, or to one third of the number of ounces produced in a designated year, whichever is the greater. In the case of old producing mines, the base year is the year ending June 30, 1947 or if any mine was idle during that period, the base year means the period of 12 months commencing with the day on which operation of the mine was resumed after June 30, 1947. In the case of new mines coming into production on or after July 1, 1946 the base year is the period of 12 months after commencing production, as determined for the purposes of exemption under Section 4 (x) of the Income War Tax Act or under Section 74 of the Income Tax Act. These new mines receive a large measure of assistance during the first year of production, the "rate of assistance" applying to all the gold produced and sold from the mine during that part of a designated year that is also part of the first year of production.

TABLE 13 Emergency Gold Mining Assistance Act - Estimated Assistance Payable

Province	1948	1949	1950
(Dollars)			
Quebec.....	2,898,388	3,470,791	2,130,797
Ontario.....	5,012,347	5,879,092	3,168,582
Manitoba.....	159,681	784,474	543,156
British Columbia	1,245,162	1,090,705	572,604
Northwest Territories.....	919,418	968,846	665,162
Yukon.....	285,327	363,415	95,839
Canada.....	10,520,323	12,557,323	7,176,140

THE ALLUVIAL GOLD MINING INDUSTRY - 1950

Most of the alluvial gold was produced in the Yukon and British Columbia; small quantities were recovered in Alberta and in the Northwest Territories.

In 1950 a total of 108,143 troy ounces of fine gold were recovered from crude gold obtained from Canadian alluvial deposits. This represented an increase of 11.9 per cent over the preceding year. Reviewing the past twenty years, it is noted that the peak of production of placer gold occurred in 1939, and that the lowest annual output was in 1944.

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 dis-

trict, in the 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 1950 were made chiefly from deposits located in the Atlin and Cariboo districts. Output was estimated at 14,632 fine ounces.

Yukon — About 86 per cent of the placer gold recovered in Canada during 1950 was found in the creeks of the Yukon. Production in 1950 totalled 93,339 fine ounces.

TABLE 14. Summary Statistics for Alluvial Gold Mining, 1949 and 1950

	1949			1950		
	British Columbia	Yukon	Alberta, Saskatchewan and Northwest Territories ¹	British Columbia	Yukon	Alberta, Saskatchewan and Northwest Territories ¹
Number of firms and individual operators ²	53	3	—	42	16	—
Number of employees	93	305	—	106	305	—
Salaries and wages paid..... \$	292,167	1,217,256	—	326,082	1,272,793	—
Electricity generated for own use..... K.W.H.	—	33,996,700	—	—	1,577,300	—
Electricity generated for sale	—	—	—	—	—	—
Crude gold recovered ³ fine ozs.	14,497	81,970	147	14,632	93,339	172
Quantity of material handled..... cu. yds.	1,696,363	9,263,700	—	494,066	7,860,497	—
Length of ditches ⁴	miles	22	26	—	26	49
Total gross value of alluvial products..... \$	530,222	2,964,298	5,307	569,917	3,568,056	6,558
Fuel and electricity used..... \$	70,657	17,957	—	44,299	67,772	—
Process supplies used	\$ 98,322	357,049	—	60,091	310,924	—
Cost of freight and express on dust, nugget ¹ , bullion, etc., shipped ³	\$ 1,451	14,980	—	2,505	20,988	—
Cost of smelter, refinery and mint treatment on material shipped ³	\$ 2,301	16,813	—	3,848	21,921	—
Total net value of alluvial products..... \$	357,488	2,557,499	5,307	459,174	3,146,451	6,558

1. Represents receipts of fine gold at Dominion Assay Office, Vancouver, British Columbia, or Royal Canadian Mint, Ottawa, Ontario.

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

3. Information not completely available.

4. Includes flume in use.

TABLE 15. Alluvial Gold Recovered and Quantity of Material Handled¹, 1941-1950

Year	British Columbia				Yukon			
	Material handled ²	Gold recovered	Ounces per cu. yd.	Value per cu. yd.	Material handled ²	Gold recovered	Ounces per cu. yd.	Value per cu. yd.
	Cu. yds.	Fine ounces	Fine ounces	\$	Cu. yds.	Fine ounces	Fine ounces	\$
1941	4,587,103	35,020	0.0076	0.2926	8,792,220	70,847	0.0081	0.3119
1942	1,884,887	26,323	0.0139	0.5352	11,875,833	83,198 ³	0.0070	0.2695
1943	754,202	11,680	0.0156	0.6006	8,028,117	41,157 ³	0.0051	0.1964
1944	531,737	9,402	0.0177	0.6815	4,687,174	23,816 ³	0.0050	0.1956
1945	263,527	10,071	0.0382	1.4707	2,981,599	31,721 ³	0.0106	0.4081
1946	428,603	15,530	0.0362	1.3303	5,917,740	45,283 ³	0.0076	0.2793
1947	478,667	5,732	0.0120	0.4191	7,054,753	47,679 ³	0.0067	0.2365
1948	1,692,585	18,133	0.0107	0.3750	7,813,449	60,606 ³	0.0078	0.2715
1949	1,696,363	14,497	0.0085	0.3074	9,263,700	81,970 ³	0.0088	0.3185
1950	494,066	14,632	0.0296	1.1263	7,860,497	93,339 ³	0.0118	0.4490

1. In addition, relatively small amounts of alluvial gold have been recovered in 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.

2. Data partly conjectural and include some overburden and barren material.

3. Fine gold received at Royal Canadian Mint (Vancouver Assay Office); previous years' figures represent estimated fine gold recovered.

THE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA

The greater part of Canada's gold comes from the Canadian Shield, an immense area of precambrian rocks extending from the Labrador Coast westward almost to the mouth of the MacKenzie River. The area of the shield is roughly 1,825,000 square miles, almost half of Canada. The deposits of the shield are of two main types, namely, quartz veins, from which most of the gold, up to the present time, has been won, and sulphide deposits which produce a smaller but very considerable proportion. The second great source of gold in Canada has been the Western or Cordilleran section, comprising British Columbia and the Yukon Territory, the gold production from this section including relatively large quantities obtained from alluvial deposits. In Nova Scotia, gold was mined as early as 1862 but in late years the production in this province has dwindled to a very small percentage of Canada's output.

The gross value of output of the entire auriferous quartz mining industry, including the value of all recoverable metals, totalled \$144,044,607 in 1950 compared with \$129,550,461 in 1949. The major producing provinces were Ontario with \$93,167,805, Quebec with \$28,780,382 and British Columbia with \$9,206,688.

Employment in this industry in 1950 numbered 22,491 persons compared with 22,358 in 1949 and salaries and wages totalled \$64,533,114 compared with \$61,293,334. Fuel cost \$2,241,170 and 980,383,437 k.w.h. of electricity were purchased for \$5,632,793. Process supplies which included explosives, chemicals, drill steel, etc., cost \$24,715,152. Canadian gold mining companies paid \$7,859,809 in taxes and spent \$2,758,669 in prospecting and preliminary exploration of new areas or deposits.

TABLE 16. Principal Statistics for the Auriferous Quartz Mining Industry, 1949 and 1950

	Number of active operators ¹	Number of employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies used ²	Amount of freight etc. paid on shipments of ore, slag, etc.	Smelter and refinery treatment costs	Gross value of bullion, ore, concentrates or residues shipped from mines ³	Net value of bullion, ore, concentrates or residues shipped from mines ⁴
1949									
Nova Scotia	4	4	1,413	289	—	7	9	492	187
Quebec	115	4,952	12,965,292	1,735,893	5,937,771	221,279	776,299	25,481,341	16,810,099
Ontario	75	14,234	38,986,236	4,115,746	14,297,000	116,059	562,169	84,278,641	65,187,667
Manitoba	9	731	2,054,025	331,797	811,349	14,339	28,320	3,904,864	2,719,059
Saskatchewan	1	6	23,432	—	—	—	—	—	—
British Columbia	31	1,643	4,677,942	495,815	1,700,494	360,379	274,919	9,451,673	6,620,066
Northwest Territories	11	788	2,584,994	627,613	505,260	16,147	41,204	6,433,450	5,243,226
Canada	246	22,358	61,293,334	7,307,153	23,251,874	728,210	1,682,920	129,550,461	96,580,304
1950									
Nova Scotia	2	1	782	315	110	—	—	467	42
Quebec	132	5,125	13,760,259	1,714,407	6,205,367	256,725	927,081	28,780,382	19,676,802
Ontario	100	14,347	41,213,560	4,403,534	15,395,634	106,285	590,858	93,167,805	72,671,494
Manitoba	7	694	1,981,517	447,971	912,156	14,137	38,043	5,220,151	3,807,841
British Columbia	24	1,461	4,386,226	475,282	1,469,990	216,282	397,565	9,206,688	6,647,569
Northwest Territories	16	863	3,190,770	832,454	731,895	17,420	50,734	7,669,114	6,036,611
Canada	281	22,491	64,533,114	7,873,963	24,715,152	610,849	2,004,281	144,044,607	106,108,904

¹. Producing mines only: in 1949-103, in 1950-92.². Explosives, chemicals, etc.³. Value of bullion produced plus value of ore, concentrates, etc., shipped.⁴. Gross value less cost of supplies, fuel and electricity, treatment costs and freight.

TABLE 17. Principal Statistics Relating to Producers only in the Auriferous Quartz Mining Industry, 1950

Province	Number of producing plants or mines	Number of employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies used ¹	Value of freight paid on shipments of ore, slag, etc.	Smelter and refinery treatment costs ²	Gross value of bullion, ore, concentrates or residues shipped from mines ³	Net ⁴ value of bullion, ore, concentrates or residues shipped from mines
Nova Scotia.....	1	1	782	315	110	—	—	467	42
Quebec.....	22	4,784	12,910,820	1,635,851	6,078,820	256,725	927,081	28,780,382	19,881,905
Ontario.....	45	14,137	40,652,013	4,350,087	15,319,199	106,285	590,858	93,167,805	72,801,376
Manitoba.....	5	693	1,980,925	447,971	912,156	14,137	38,043	5,220,151	3,807,844
British Columbia.....	16	1,416	4,224,256	465,986	1,389,701	216,282	397,565	9,206,688	6,737,154
Northwest Territories.....	4	837	3,119,627	806,610	684,780	17,420	50,734	7,669,114	6,109,570
Canada, 1950.....	93	21,868	62,888,423	7,706,820	24,384,766	610,849	2,004,281	144,044,607	109,337,891
Canada, 1949.....	103	21,985	60,296,116	7,219,282	22,997,149	728,210	1,682,920	129,550,461	96,922,900
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

1. Explosives, etc.

2. Includes handling charges.

3. Value of bullion produced plus value of ore, concentrates, etc., shipped.

4. Gross value less cost of fuel and electricity, process supplies, freight and treatment charges.

TABLE 18. Principal Statistics Relating to All¹ Gold Mines in Ontario, by Areas, 1948-1950

Camp or district	Number of producers	Ore treated ²	Total gold recovered	Average ounces per ton recovered	Employees	Salaries and wages paid	Cost of fuel, electricity and process supplies
	No.	Tons	Fine oz.		No.	\$	\$
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.....	3	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
1949							
Porcupine.....	16	4,500,059	1,047,949	.23	7,044	19,499,185	9,672,375
Kirkland Lake.....	9	1,288,886	475,819	.37	2,915	7,855,537	2,977,177
Larder Lake.....	2	1,860,742	314,434	.17	1,053	2,857,876	1,448,960
Matachewan.....	3	563,295	49,526	.09	281	759,770	646,825
Sudbury.....	3	155,049	32,725	.21	218	572,418	346,873
Thunder Bay.....	8	466,525	117,957	.25	914	2,395,799	1,018,567
Rainy River and Kenora.....							
Patricia.....	10	1,032,683	280,348	.27	1,809	5,045,651	2,301,969
Total.....	48	9,867,239	2,318,758	.23	14,234	38,986,236	18,412,746
1950							
Porcupine.....	16	4,582,185	1,100,098	.24	7,063	20,714,637	10,013,774
Kirkland Lake.....	8	1,320,949	448,391	.34	2,948	8,169,677	3,210,275
Larder Lake.....	2	1,903,733	341,081	.18	1,069	3,039,920	1,653,243
Matachewan.....	3	564,816	50,048	.09	281	760,416	675,665
Sudbury.....	3	157,948	36,930	.23	249	672,983	407,284
Thunder Bay.....	6	627,771	131,413	.21	1,010	2,892,516	1,351,152
Rainy River and Kenora.....							
Patricia.....	10	1,144,500	336,793	.29	1,727	4,963,411	2,487,700
Total.....	45	10,301,902	2,444,734	.24	14,347	41,213,560	19,799,165

1. Includes employees, etc., for all active properties whether producing or not.

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

TABLE 19. Ores Mined and Treated by Auriferous Quartz Mining Industry, 1941-1950

Year	Ore hoisted	Ore milled ¹	Crude ore shipped to smelters ²	Low-grade sorted out	Tailings retreated	Gold recovered as bullion	Gold in crude ore shipped	Gold in concentrates slag, etc., shipped
	Tons	Tons	Tons	Tons	Tons	Fine ounces	Fine ounces	Fine ounces
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
1949	15,988,866	15,374,803	243,137	184,373	112	3,423,303	34,405	143,274
1950	16,980,027	16,297,461	315,390	206,797	—	3,630,358	46,202	98,804

1. + 2. = Total crude ore treated.

TABLE 20. Ores Mined and Milled, Crude Bullion Recovered and Crude Bullion and Concentrates Shipped in the Auriferous Quartz Mining Industry, 1950

	Unit of measure	Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories and Saskatchewan	Canada
Number of producing mines		1	22	45	4	16	4	92
Ore mined	ton	—	4,696,784	10,432,315	902,103	599,364	353,958	16,984,524
Material discarded (sorted)	ton	—	89,830	104,236	11,711	772	246	206,797
Ore milled (ground, etc.)	ton	—	4,158,974	10,301,902	890,582	598,592	347,411	16,297,461
Tailings re-treated	ton	—	—	—	—	—	—	—
Gold content of ores, slags, residues and concentrates shipped:								
To foreign smelters	fine oz.	—	—	—	—	94,571	—	94,571
To Canadian smelters	fine oz.	—	44,927	4,392	—	1,116	—	50,435
Bullion bars shipped:								
Gold content	fine oz.	13	712,539	2,436,539	136,590	143,232	198,885	3,627,798
Silver content	fine oz.	—	170,660	418,053	17,632	26,029	66,979	699,353
Bullion produced by amalgamation	crude oz.	11	—	282,913	4,792	1	52,298	
Bullion produced by cyanidation	crude oz.	—	941,485	2,513,246	173,803	1	214,030	
Total bullion produced	crude oz.	11	941,485	4,796,159	178,595	1	266,329	
Content of bullion bars produced:								
Gold	fine oz.	13	709,103	2,440,362	137,006	143,232	200,642	3,630,358
Silver	fine oz.	—	170,310	416,226	17,693	26,029	62,108	692,366
Gold value	\$	467	26,931,575	92,666,169	5,205,807	5,464,320	7,618,753	137,887,091
Silver value	\$	—	138,319	334,354	14,344	21,048	50,361	558,426
Value of ores, concentrates, slags and residues sold (shipped)	\$	—	1,710,468	167,282	—	3,721,320	—	3,678,916
Total gross value of production	\$	467	28,780,382	93,167,805	5,220,151	9,206,688	7,669,114	144,044,607
Value of fuel, electricity and process supplies used, also freight on shipments, marketing, smelter and refinery charges	\$	425	9,103,580	20,496,311	1,412,307	2,559,119	1,632,503	35,204,245
Net value of production	\$	42	19,676,802	72,671,494	3,807,844	6,647,569	6,036,611	106,108,904

1. Not recorded.

TABLE 21. Ores, Concentrates, Slags, etc., Shipped to Smelters from Canadian Gold Mines, 1941-1950

Year	Ores		Concentrates		Slags, residues, precipitates	
	Tons	Gold content fine oz.	Tons	Gold content fine oz.	Tons	Gold content fine oz.
TO CANADIAN PLANTS						
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
1949	243,121	34,114	325	1,196	253	3,690
1950	294,387	45,215	—	—	153	5,220
TO FOREIGN PLANTS						
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	9,660
1947	—	—	25,765	67,929	32	34,572
1948	289	6,400	24,446	64,531	36	44,795
1949	16	291	25,331	69,935	29	34,048
1950	51	987	20,471	53,811	15	39,773

TABLE 22. Shipments from Auriferous Quartz Mines, 1949 and 1950

	Quantity	Total gross metal content					
		Gold	Silver	Copper	Lead	Zinc	Other
		Tons	Ounces	Ounces	lb.	lb.	lb.
1949							
To Canadian smelters:							
Gold ore	243,121	34,114	1,627	—	14,691	14,123	—
Gold concentrates	325	1,196	59	—	500	192	—
Slags, precipitates, residues	253	3,690	8,672	7,277	—	—	—
Arsenical material	411	—	—	—	—	—	335 ¹
To foreign smelters:							
Gold ore	16	291	232	—	—	—	—
Gold concentrates	25,331	69,935	10,717	182,108	—	—	—
Slags, precipitates, etc.	29	34,048	3,334	—	—	—	—
Total	269,491	143,247	24,641	189,385	15,191	14,315	—
1950							
To Canadian smelters:							
Gold ore	294,387	45,215	1,994	—	8,904	4,997	—
Gold concentrates	—	—	—	—	—	—	—
Slags, precipitates, residues	153	5,220	5,663	544	—	—	—
Arsenical material	313	—	—	—	—	—	264 ¹
To foreign smelters:							
Gold concentrates	20,471	53,811	9,468	—	—	—	—
Slags, precipitates, residues	15	39,773	3,956	—	—	—	—
Gold ore	51	987	2,544	—	—	—	—
Total	315,390	145,006	23,625	544	8,904	4,997	—

¹. Tons of arsenious oxide.

TABLE 23. Certain Data Relating to the Production of Gold by the Entire Auriferous Quartz Mining Industry 1941-1950 (Averages)

Year	Average ounces of gold produced per wage-earner	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	\$	\$	\$	\$	\$	\$
1941.....	155	1.82	11.56	4.53	0.77	Information not available	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
1949.....	176	2.05	15.03	6.52	0.68	1.73	26.01
1950.....	186	2.08	14.83	6.55	0.69	2.08	26.23

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. The trends should not be interpreted as entirely reflecting operations of producing mines only, but rather as indices of change in the industry as a whole. For data relating to producers only, see Table 24.

TABLE 24. Certain Data (Averages) Relating to the Total Production of Gold by Producers Only in the Auriferous Quartz Mining Industry, 1941-1950

Year	Average ounces of gold produced per wage-earner	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	\$	\$	\$	\$	\$	\$
1941.....	158	1.79	11.37	4.46	0.77	Information not available	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
1949.....	179	2.02	14.83	6.45	0.68	1.71	25.69
1950.....	191	2.04	14.50	6.46	0.69	2.06	25.75

TABLE 25. 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, and the Average Price of Gold and Silver in Canadian Funds, 1941-1950

Year	Tonnage treated ^{1,3}	Gold content ²	Silver content ²	Ounces of fine gold per ton	Ounces of fine silver per ton	Average price of gold	Average price of silver
		Fine ounces	Fine ounces			\$ per oz.	\$ per oz.
1941.....	19,236,669	4,646,326	2,773,460	.24	.14	38.50	0.383
1942.....	17,102,776	4,131,579	2,186,369	.24	.13	38.50	0.422
1943.....	12,474,852	3,015,119	1,399,778	.24	.11	38.50	0.452
1944.....	10,536,278	2,430,571	906,788	.23	.09	38.50	0.430
1945.....	9,615,004	2,205,416	1,205,147	.23	.13	38.50	0.47
1946.....	10,452,775	2,380,998	1,025,619	.23	.10	36.75	0.836
1947.....	11,443,079	2,719,416	845,749	.24	.07	35.00	0.72
1948.....	13,334,931	3,077,681	1,044,912	.23	.08	35.00	0.75
1949.....	15,617,940	3,566,577	682,569	.23	.04	36.00	0.743
1950.....	16,297,461	3,775,364	715,991	.23	.04	38.05	0.808

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

2. Relatively small quantities 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; represents metal content of total bullion produced plus metal in ores or concentrates shipped to smelters.

3. Material discarded by sorting not included.

TABLE 26. Specified Costs per Ton of Ore Milled at Certain of the Principal Auriferous Quartz Mines, 1950

Name of mine	Development and exploration ¹	Mining	Milling	General ²	Total before depreciation and taxes	Depreciation	Taxes	Total costs
(Dollars)								
QUEBEC:								
Anglo Rouyn Mines Ltd.	0.62	3.08	2.83	0.87	7.40	1.99	—	9.39
Barnat Mines Ltd.	0.94	1.62	0.87	0.70	4.13	—	—	4.13
Belleterre Quebec Mines Ltd.	0.735	6.098	1.431	0.264	8.528	0.431	0.875	9.834
Bevcourt Gold Mines Ltd.	—	2.635	2.050	2.193	6.878	—	—	—
Canadian Malartic Gold Mines Ltd.	0.623	1.482	0.599	0.630	3.334	0.281	0.022	3.637
Consolidated Beattie Mines Ltd.	0.425	2.187	0.930	0.413	3.955	—	—	—
Consolidated Duquesne Mining Co. Ltd.	3.05	8.84	3.56	2.59	18.04	1.27	—	19.34
Donaldia Mines Ltd.	0.975	3.269	2.728	0.728	7.700	0.313	—	8.013
East Malartic Mines Ltd.	0.700	3.159	0.608	0.382	4.849	1.317	0.132	6.298
Lamaque Mining Co. Ltd.	1.14	3.35	0.77	0.11	5.37	0.19	0.70	6.26
O'Brien Gold Mines Ltd.	1.68	7.55	2.05	3.41	14.69	0.57	0.20	15.46
Perron Gold Mines Ltd.	0.827	3.118	0.825	0.962	5.732	0.335	0.024	6.091
Senator-Rouyn Ltd.	0.55	2.50	0.83	0.13	4.01	0.42	0.04	4.47
Sigma Mines (Quebec) Ltd.	0.890	2.742	0.692	0.440	4.764	0.187	0.470	5.421
Stadacona Mines (1944) Ltd.	1.09	1.91	0.89	0.91	4.80	1.09	0.06	5.95
Sullivan Consolidated Mines Ltd.	2.54	3.34	1.00	0.68	7.56	0.35	0.41	8.32
ONTARIO:								
<i>Porcupine District</i>								
Aunor Gold Mines Ltd.	1.28	5.40	1.22	0.84	8.74	0.77	1.23	10.74
Bonetal Gold Mines Ltd.	1.01	2.89	1.78	0.80	6.48	—	0.05	6.53
Broulan Porcupine Mines Ltd.	0.85	3.40	1.14	1.06	6.45	0.14	1.85	8.44
Buffalo Ankerite Gold Mines Ltd.	2.441	4.970	1.423	0.915	9.749	0.514	0.051	10.314
Coniarium Mines Ltd.	1.90	3.95	1.07	1.54	8.48	0.07	0.11	8.64
Hallnor Mines Ltd.	1.07	3.85	1.36	1.37	7.65	0.09	1.77	9.51
Hollinger Consolidated (Timmins)	0.570	4.951	0.840	1.313	7.674	0.234	0.633	8.541
Hollinger Consolidated (Ross)	1.192	2.853	1.822	0.905	6.772	0.598	0.083	7.453
McIntyre Porcupine Mines Ltd.	1.05	5.79	1.15	0.18	8.17	0.17	1.14	9.48
Pamour Porcupine Mines Ltd.	0.86	1.58	0.60	0.45	3.48	0.06	0.05	3.60
Porcupine Reef Gold Mines Ltd.	1.06	2.90	1.92	1.05	6.93	—	0.30	7.23
Preston East Dome Mines Ltd.	2.075	4.670	0.845	0.251	7.841	0.697	0.087	8.625
<i>Kirkland Lake District</i>								
Macassa Mines Ltd.	1.403	8.241	1.405	1.460	10.509	0.236	0.607	11.352
Teck-Hughes Gold Mines Ltd.	0.93	5.03	1.31	0.50	7.77	0.06	0.50	8.33
Upper Canada Mines Ltd.	1.49	3.74	1.19	0.87	7.09	0.91	0.46	8.46
Wright-Hargreaves Mines Ltd.	3	7.344	1.581	1.771	10.696	0.280	1.647	12.623
<i>Larder Lake District</i>								
Chesterville Mines Ltd.	0.18	1.55	0.83	0.47	3.03	—	—	—
Kerr Addison Gold Mines Ltd.	0.875	1.148	0.792	0.422	3.237	0.487	1.118	4.842
<i>Matachewan District</i>								
Matachewan Consolidated Mines Ltd.	0.311	1.177	0.800	0.725	3.013	—	—	3.013
Hollinger Consolidated (Young Davidson)	0.130	1.250	0.854	0.385	2.619	0.054	0.310	2.983
<i>Thunder Bay District</i>								
Leitch Gold Mines Ltd.	6.11	10.54	3.50	0.25	20.46	1.68	—	—
Little Long Lac Gold Mines Ltd.	0.789	4.920	1.765	1.381	8.855	0.085	0.072	9.012
MacLeod-Cockshutt Gold Mines Ltd.	1.467	2.917	1.608	1.035	7.027	1.000	0.010	8.037
Magnet Consolidated Mines Ltd.	1.43	7.10	1.77	0.92	11.22	—	—	—
<i>Patricia District</i>								
Cochenour Williams Gold Mines Ltd.	2.172	4.497	2.005	1.691	10.365	1.388	2.179	13.932
Hasaga Gold Mines Ltd.	0.587	2.036	1.101	0.410	4.134	0.680	0.015	4.829
Madsen Red Lake Gold Mines Ltd.	1.142	2.326	1.069	—	5.290	0.860	0.700	6.850
McKenzie Red Lake Gold Mines Ltd.	1.37	4.57	1.52	1.68	9.14	0.36	0.14	9.64
New Dickenson Mines Ltd.	4.99	3.48	2.23	3.40	14.08	4.16	0.01	18.25
Pickle Crow Gold Mines Ltd.	1.26	5.45	1.55	1.20	9.46	1.64	0.76	2.40
Starratt Olsen Gold Mines Ltd.	0.413	2.706	1.500	0.40	5.019	—	0.06	5.06
MANITOBA:								
Ogama Rockland Gold Mines Ltd.	1.58	2.88	1.36	1.67	7.50	—	—	—
BRITISH COLUMBIA:								
Bralorne Mines Ltd.	1.15	5.20	1.05	3.78	11.18	—	1.07	12.25
Carlbo Gold Quartz Mining Co. Ltd.	2.23	7.72	2.58	0.57	13.10	—	—	13.10
Island Mountain Mines Co. Ltd.	3.84	7.98	2.52	0.15	14.49	—	0.17	14.66
Pioneer Gold Mines of B.C. Ltd.	0.67	9.52	2.14	1.82	14.15	—	—	14.15
Polaris-Taku Mining Co. Ltd.	1.184	4.049	2.396	5.883	13.512	—	—	13.512
Sheep Creek Gold Mines Ltd.	4.02	4.95	2.40	2.29	13.46	—	0.19	13.65
NORTHWEST TERRITORIES:								
Consolidated Mining & Smelting Co.	2.53	6.68	6.07	2.42	17.70	—	—	—
Giant Yellowknife Gold Mines Ltd.	2.69	3.20	4.08	2.90	12.87	7.58	—	20.45
Discovery Yellowknife Mines Ltd.	4.29	6.79	4.00	6.07	21.15	—	—	—
Negus Mines Ltd.	4.136	4.637	2.383	3.210	14.366	—	—	—

1. Exclusive of outside exploration.

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

3. Included in mining.

TABLE 27. Milling Capacity of Operating Canadian Gold Mines, 1941-1950

Year	Nova Scotia	Quebec	Ontario	Manitoba	Saskatchewan	British Columbia	Northwest Territories	Canada
(Tons of 2,000 pounds per 24 hours)								
1941	319	12,654	37,416	990	1,355	4,510	510	57,754
1942	247	14,330	36,135	903	1,202	4,303	710	57,830
1943	280	13,304	32,555	753	2	2,845	510	50,249
1944	180	13,059	30,710	550	-	2,650	66	47,215
1945	187	12,600	30,457	550	-	2,740	417	46,951
1946	172	12,035	30,370	550	-	3,052	417	46,596
1947	50	13,010	29,430	550	-	3,235	467	46,742
1948	-	12,395	29,990	700	-	2,550	1,150	46,785
1949	25	13,460	33,150	2,700	-	2,690	1,135	53,160
1950	-	12,400	33,175	2,700	-	2,125	785	51,185

TABLE 28. Employees and Salaries and Wages Paid by Entire Auriferous Quartz Mining Industry¹, 1941-1950

Year	Wage-earners	Salaried employees	Total employees		Wages paid	Average per capita wages paid	Salaries paid	Total salaries and wages
			No.	No.				
1941	29,820	2,731	32,551		54,735,716	1,836	7,415,094	62,150,810
1942	23,517	2,513	26,030		47,409,542	2,016	6,979,330	54,388,872
1943	17,061	1,977	19,038		34,576,891	2,027	6,088,392	40,665,283
1944	15,260	1,966	17,226		31,151,908	2,041	5,871,597	37,023,505
	Workmen	Administrative	Male	Female				
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
1949	20,233	2,125	22,032	326	53,613,176	2,650	7,680,158	61,293,334
1950	20,265	2,226	22,180	311	55,995,176	2,763	8,537,936	64,533,114

1. Including any bonus paid.

TABLE 29. Workmen, by Months, in the Entire Auriferous Quartz Mining Industry, 1946-1950

Month	1946	1947	1948	1949	1950	Number
January	19,083	20,656	20,867	20,237	20,388	
February	19,577	20,850	20,559	20,058	20,295	
March	19,837	20,959	20,387	19,993	20,163	
April	20,036	20,768	20,211	19,651	20,050	
May	20,182	20,816	20,203	19,993	20,163	
June	20,175	20,937	20,530	20,100	20,564	
July	19,480	20,947	20,637	20,173	20,294	
August	19,125	20,267	20,312	20,292	19,981	
September	18,623	19,611	20,031	20,490	19,878	
October	18,946	19,778	20,276	20,667	20,192	
November	19,093	20,458	20,464	20,764	20,297	
December	18,990	20,672	20,315	20,361	20,025	

TABLE 30. Workmen in Producing Lode Gold Mines, by Provinces, 1949 and 1950

Month	Quebec		Ontario		British Columbia		Other districts and provinces		Canada	
	1949	1950	1949	1950	1949	1950	1949	1950	1949	1950
Number										
January	4,266	4,489	13,010	13,147	1,470	1,360	1,289	1,392	20,035	20,388
February	4,215	4,480	12,908	13,107	1,450	1,331	1,266	1,377	19,839	20,295
March	4,240	4,479	12,918	13,032	1,376	1,283	1,246	1,369	19,780	20,163
April	4,160	4,546	12,846	12,895	1,246	1,264	1,201	1,345	19,453	20,050
May	4,250	4,635	12,860	13,038	1,326	1,129	1,242	1,361	19,678	20,163
June	4,320	4,810	12,803	13,168	1,374	1,145	1,262	1,441	19,759	20,564
July	4,268	4,746	12,801	13,039	1,411	1,131	1,325	1,378	19,805	20,294
August	4,367	4,737	12,871	12,781	1,389	1,139	1,295	1,324	19,922	19,981
September	4,414	4,638	12,979	12,691	1,406	1,245	1,347	1,304	19,878	19,878
October	4,423	4,644	13,134	12,864	1,429	1,300	1,416	1,384	20,402	20,192
November	4,438	4,573	13,263	13,117	1,417	1,238	1,431	1,369	20,549	20,297
December	4,340	4,427	13,086	13,067	1,400	1,206	1,304	1,325	20,130	20,025

TABLE 31. Classification of Workmen Employed in Entire Auriferous Quartz Mining Industry, 1949 and 1950

Province	1949				1950				Mill	
	Mine		Mill	Mine		Surface	Under-ground			
	Surface	Under-ground		Male	Female					
	Male	Female		Male	Female		Male			
Number										
Nova Scotia	3	—	—	1	1	—	—	—	—	
Quebec	1,066	24	2,965	380	1,171	14	3,072	346		
Ontario	3,269	43	8,625	1,065	3,258	57	8,566	1,109		
Manitoba	231	19	343	55	181	21	340	65		
Saskatchewan	4	—	—	—	—	—	—	—		
British Columbia	364	23	898	173	263	21	847	154		
Northwest Territories	263	13	321	85	278	8	381	92		
Canada	5,200	122	13,152	1,759	5,152	121	13,226	1,766		

TABLE 32. Cost of Prospecting Conducted by Canadian Auriferous Quartz Mining Companies, 1949 and 1950

Province in which prospecting was conducted ¹	By Nova Scotia and Quebec companies ²	By Ontario companies ²	By Manitoba companies ²	By British Columbia companies ²	By Yukon and Northwest Territories companies	Total
1949						
Newfoundland	—	—	—	4,058	—	4,058
Nova Scotia	1,424	7,269	—	—	—	8,693
New Brunswick	5,176	—	—	—	—	5,176
Quebec	1,346,930	185,791	—	11,266	—	1,543,987
Ontario	319,522	471,762	53,771	19,065	2,282	866,402
Manitoba	6,231	40,556	7,225	1,879	—	55,891
Saskatchewan	26,426	6,322	—	164	—	32,912
British Columbia	35,737	28,254	—	407,689	399	472,079
Northwest Territories	140,996	44,897	—	15	18,614	204,522
Yukon	—	17,254	—	—	—	17,481
Total Canada	1,882,442	802,332	60,996	444,136	21,295	3,211,201
1950						
Newfoundland	460	—	—	—	—	460
Nova Scotia	1,243	—	—	—	—	1,243
New Brunswick	344	555	—	—	—	899
Quebec	1,008,057	220,833	—	—	2,500	1,231,390
Ontario	225,284	653,813	—	8,000	—	887,237
Manitoba	452	11,981	—	—	—	47,852
Saskatchewan	453	—	140	—	6,500	6,953
British Columbia	72,109	38,211	35,419	—	—	494,000
Northwest Territories	—	1,420	—	383,680	78,387	79,807
Yukon	5,528	3,300	—	—	—	8,828
Total Canada	1,313,930	930,113	35,559	391,680	87,387	2,758,669

1. Prospecting includes the search for new mineral deposits on the surface, and preliminary exploration.

2. Province in which the companies' principal operations are conducted.

TABLE 33. Drilling Completed on Auriferous Quartz Deposits, 1948-1950

	Footage drilled ¹		
	1948	1949	1950
Diamond drilling for exploration (testing):			
By companies with their own equipment and personnel	667,469	647,821	525,482
By contractors	1,513,394	1,459,401	2,261,988
Other drilling:			
Diamond drilling for breaking rock or ore:			
By companies with their own equipment and personnel	215,772	270,014	272,281
By contractors	435,563	545,799	580,514
Drilling by percussion and other machines ²	32,187,104	34,480,521	36,580,081

1. Subject to revision as drilling was not reported by some new companies.

2. This is not complete as some companies do not compile these data.

Note. The value of diamonds in all forms (bits, etc.) purchased by gold mining companies in 1949 totalled \$288,459.

TABLE 34. Specified Taxes Paid by Active Canadian Auriferous Quartz Mines, 1949 and 1950, by Provinces¹

Nature of tax	Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories	Canada
(Dollars)							
1949							
Dominion Income Tax, including tax on non-operating revenue	—	424,286	3,108,732	58,038	289,427	—	3,880,483
Provincial taxes	170	245,483	1,337,300	29,758	131,549	13,630	1,757,890
Municipal taxes	—	231,443	265,186	3,912	6,121	10,270	536,932
Total	170	901,212	4,731,218	91,708	427,097	23,900	6,175,305
1950							
Dominion Income Tax, including tax on non-operating revenue	—	559,243	4,299,176	94,121	163,400	—	5,115,940
Provincial taxes	35	309,248	1,634,649	64,773	108,557	13,165	2,130,427
Municipal taxes	—	256,038	293,109	13,151	27,384	23,760	613,442
Total	35	1,124,529	6,226,934	172,045	299,341	36,925	7,859,809

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

TABLE 35. Certain Specified Expenditures Made by Auriferous Quartz Mining Companies, 1948-1950

Province and year	Workmen's compensation	Silicosis assessment	Unemployment insurance	Aggregate cost of all supplies purchased	Aggregate cost of plant and equipment purchased	Cost of buildings, machinery and equipment erected or installed
(Dollars)						
Nova Scotia:						
1948	72	—	42	5,524	3,000	15,330
1949	28	—	38	1,204	11,201	11,701
1950	—	—	—	—	—	—
Quebec:						
1948	584,149	571	69,114	6,660,647	1,828,003	2,669,943
1949	577,108	214	98,065	8,948,502	798,208	1,093,666
1950	473,158	739	112,708	9,883,566	1,159,285	1,628,783

TABLE 35. Certain Specified Expenditures Made by Auriferous Quartz Mining Companies, 1948-1950 — Concluded

Province and year	Workmen's compensation	Silicosis assessment	Unemployment insurance	Aggregate cost of all supplies purchased	Aggregate cost of plant and equipment purchased	Cost of buildings, machinery and equipment erected or installed
(Dollars)						
Ontario:						
1948	1,143,732	400,460	194,526	22,727,089	3,427,792	6,991,532
1949	1,270,055	615,094	273,830	22,575,013	2,500,662	5,156,771
1950	1,217,855	620,405	319,773	25,488,447	2,229,828	3,793,710
Manitoba:						
1948	63,644	5,676	8,761	2,018,984	1,151,957	2,689,301
1949	64,843	5,317	13,727	2,067,664	51,838	778,553
1950	52,749	3,604	15,063	1,990,148	24,668	335,312
Saskatchewan:						
1948	712	—	48	3,735	—	1,016
1949	—	—	—	580	—	—
1950	—	—	—	—	—	—
British Columbia:						
1948	202,498	177,970	22,008	2,395,862	393,526	351,872
1949	176,096	107,338	30,404	2,071,808	558,419	536,108
1950	176,912	81,040	25,611	1,829,916	716,721	375,176
Northwest Territories:						
1948	34,539	—	5,066	1,981,168	647,347	1,668,576
1949	24,850	1,838	5,435	1,936,745	769,896	1,293,253
1950	55,575	200	11,729	3,032,541	1,068,383	1,569,871
Total Canada:						
1948	2,029,346	584,677	299,565	35,793,009	7,451,625	14,387,570
1949	2,112,980	729,801	421,499	37,601,516	4,690,224	8,870,052
1950	1,976,249	703,988	484,884	42,224,618	5,198,885	7,702,852

THE COPPER-GOLD-SILVER MINING INDUSTRY — 1950

The mining of "copper-gold-silver" ores in Canada during 1950 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. The lead-zinc-copper ores of Newfoundland also contribute to the production of copper, gold and silver. General statistics relating to labor, etc., in the nickel-copper or the silver-lead-zinc industry are not included in this report.

There were 15 producing mines in this industry in 1950, but there were about 40 additional copper-gold-silver deposits being explored or developed. The gross value of crude ore, concentrates, etc., shipped from the mines and mills to the smelters was estimated at \$121,853,818. Fuel cost \$806,662 and 394,997,985 k.w.h. of electricity was purchased for \$1,398,032. Process supplies, freight and treatment charges amounted to \$36,467,200. Employees

numbered 7,554 to whom \$23,489,366 were distributed as salaries and wages.

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 36. Principal Statistics¹ of the Copper-Gold-Silver Mining Industry 1941-1950

Year	No. of active operators ²	No. of operating plants or mines ²	Capital employed ²	Number of employees ²	Salaries and wages ²	Cost of fuel and electricity ²	Value of ores and concentrates shipped by mines ⁴
			\$		\$	\$	\$
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	3	5,175	10,710,071	1,402,243	38,198,039
1945.....	38	41	3	4,658	9,663,612	1,175,916	38,165,269
1946.....	42	44	3	4,958	10,244,487	1,152,925	37,433,982
1947.....	31	32	3	5,220	13,149,093	1,361,890	52,173,584
1948.....	35	37	3	6,401	17,919,526	1,706,874	85,652,206
1949.....	30	33	3	7,395	21,776,150	1,630,715	74,591,660
1950.....	55	56	3	7,554	23,489,366	2,204,694	83,181,924

1. Data relating to idle mines and smelters not included.

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

3. Not reported.

4. 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 37. Shipments from Copper-Gold-Silver Mines, 1947-1950

	Quantity	Value	Total metal content as determined by settlement assay ¹				
			Gold	Silver	Copper	Sulphur	Zinc
	Tons	\$	Fine ounces	Fine ounces	Pounds	Tons	Pounds
1947							
TO CANADIAN PLANTS:							
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 ²	—	127,932,850
Iron pyrite concentrates	74,063	146,380	—	—	—	34,091	—
Slags, residues, gold precipitates and bullion.....	330	845,107	18,869	179,197	276,372	—	—
Total	1,332,424	70,380,169	256,948	3,095,104	230,829,312	82,637	173,659,817
1948							
TO CANADIAN PLANTS:							
Ores	414,205	6,998,305	75,725	169,948	19,281,789	—	—
Copper concentrates	640,950	60,343,052	204,435	2,868,163	189,439,916	—	365,355
Zinc concentrates	170,496	22,109,074	7,979	211,152	1,360,018	—	166,164,272
Iron pyrite concentrates	80,428	167,795	—	—	—	38,782	—
Slags, residues, bullion and gold precipitates.....	4,390	1,025,553	22,607	212,115	395,409	—	—
Total	1,560,873	107,831,148	330,050	3,710,386	253,921,793	87,126	217,014,304

1. In addition, cadmium, tellurium and selenium are recovered from these ores.

2. Lead (pounds)

TABLE 37. Shipments from Copper-Gold-Silver Mines, 1947-1950 — Concluded

	Quantity	Value	Total metal content as determined by settlement assay ¹				
			Gold	Silver	Copper	Sulphur	Zinc
	Tons	\$	Fine ounces	Fine ounces	Pounds	Tons	Pounds
1949							
TO CANADIAN PLANTS:							
Ores	485, 299	8, 460, 662	95, 748	207, 353	24, 884, 934	—	—
Copper concentrates	737, 440	55, 919, 871	267, 436	3, 397, 727	230, 318, 246	—	2, 768, 479
Zinc concentrates	162, 715	20, 181, 472	6, 849	198, 282	987, 356	—	150, 430, 701
Iron pyrite concentrates	72, 666	153, 150	—	—	—	34, 580	—
Slags, residues, bullion and gold precipitates	498	1, 057, 936	23, 846	198, 563	320, 012	—	—
TO FOREIGN PLANTS:							
Ores	—	—	—	—	—	—	—
Copper concentrates	103, 804	11, 546, 361	23, 874	337, 150	53, 353, 495	—	—
Zinc concentrates	85, 163	8, 087, 792	—	—	—	—	87, 958, 875
Iron pyrite concentrates	177, 810	443, 334	—	—	—	88, 000	—
Precipitates	719	143, 920	—	—	760, 994	—	—
Total	1, 826, 114	105, 994, 498	417, 753	4, 329, 075	310, 625, 037	122, 580	241, 158, 055
Value of process supplies, etc. ²	—	31, 402, 838	—	—	—	—	—
Net value	—	74, 591, 660	—	—	—	—	—
1950							
TO CANADIAN PLANTS:							
Ores	594, 808	10, 691, 575	109, 376	264, 605	27, 671, 577	—	—
Copper concentrates	756, 131	65, 503, 794	341, 984	3, 881, 842	230, 131, 209	—	—
Zinc concentrates	176, 356	13, 731, 427	8, 035	230, 457	1, 075, 532	—	162, 960, 402
Iron pyrite concentrates	81, 983	196, 774	—	—	—	38, 881	—
Slags, residues, bullion and gold precipitates	418	1, 309, 510	29, 306	203, 416	318, 402	—	—
TO FOREIGN PLANTS:							
Ores	10, 788	144, 879	1, 727	3, 870	335, 957	—	—
Copper concentrates	78, 241	9, 554, 641	19, 320	247, 606	39, 657, 035	—	—
Zinc concentrates	134, 137	20, 095, 185	—	—	—	—	138, 736, 969
Iron pyrite concentrates	230, 631	486, 037	—	—	—	111, 606	—
Precipitates	623	139, 996	—	—	687, 780	—	—
Total	2, 064, 116	121, 853, 818	509, 748	4, 831, 796	299, 877, 482	150, 487	301, 697, 371
Value of process supplies, etc. ²	—	38, 671, 894	—	—	—	—	—
Net value	—	83, 181, 924	—	—	—	—	—

1. In addition, cadmium, tellurium and selenium are recovered from these ores.

2. Includes freight on ore shipments, smelter charges and purchased electricity.

TABLE 38. Ores Mined, Milled and Concentrates Produced by the Copper-Gold-Silver Mining Industry, 1941-1950

Year	Ore mined	Ore milled	Copper concentrates produced ¹	Zinc concentrates produced	Iron pyrite concentrates produced	Net value of all estimated mine and mill shipments ^{2,3}	
						Tons	\$
1941	9, 263, 071	8, 402, 656	974, 250	187, 622	309, 050	36, 990, 853	
1942	8, 575, 626	7, 816, 813	858, 580	264, 739	219, 874	40, 730, 834	
1943	8, 251, 579	7, 482, 831	914, 360	315, 670	292, 007	50, 774, 104	
1944	7, 395, 608	6, 873, 542	870, 726	276, 737	257, 423	44, 770, 863	
1945	5, 914, 580	5, 441, 121	730, 724	229, 980	228, 618	44, 258, 780	
1946	5, 009, 490	4, 606, 503	661, 554	219, 985	201, 873	42, 609, 415	
1947	5, 462, 233	5, 140, 376	662, 088	185, 630	178, 263	58, 198, 612	
1948	6, 496, 499	6, 061, 132	724, 066	232, 131	184, 069	91, 403, 196	
1949	8, 245, 402	7, 682, 382	839, 609	250, 595	250, 476	83, 721, 839	
1950	8, 758, 607	6, 159, 756	830, 438	313, 161	322, 117	94, 727, 261	

1. Exclusive of copper precipitate 1943-1950.

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

3. Includes the value of any cyanide precipitate shipped from mills to smelters.

TABLE 39. Ore Reserves of Specified Copper-Gold-Silver Mining Companies¹

	Tons	Copper	Zinc	Gold	Silver
		Per cent	Per cent	Ounces per ton	Ounces per ton
Noranda Mines Ltd., January 1, 1951:					
Sulphide ore over 4 per cent copper.....	4,031,000	7.05	—	0.157	—
Sulphide ore under 4 per cent copper.....	12,559,000	0.68	—	0.195	—
Silicous fluxing ore.....	957,900	0.09	—	0.121	—
Chadbourne orebody.....	1,550,000	—	—	0.126	—
No. 5 Zone Horne ¹	320,000	—	—	0.128	—
No. 5 Zone Horne ²	1,500,000	0.7	—	0.120	—
Capacity of mill: 24 hours.....	3,000	—	—	—	—
Waite Amulet Mines Ltd., December 31, 1950:					
East Waite shaft.....	700,000	4.0	3.0	0.048	0.88
"C" shaft orebodies.....	65,000	1.8	1.3	0.010	1.0
Amulet Dufault:					
Lower "A" orebody.....	871,076	5.76	4.08	0.045	1.5
Upper "A" orebody.....	52,110	1.11	6.02	0.07	1.6
Ore below 1000-ft level.....	200,000	2.75	0.6	0.022	0.52
Capacity of mill: 24 hours.....	1,800	—	—	—	—
Normal Mining Corp. Ltd., December 31, 1950:					
Ore reserves.....	1,573,100	3.32	7.59	—	—
Additional ore No. 3 Shaft.....	401,700	—	11.62	—	—
Additional ore No. 2 Shaft.....	36,900	—	9.34	—	—
Capacity of mill: 24 hours.....	850	—	—	—	—
Sherritt-Gordon Mines Ltd., December 31, 1950:					
West orebody.....	128,431	2.59	2.07	0.021	0.62
Capacity of mill: 24 hours.....	3,000	—	—	—	—
Hudson Bay Mining & Smelting Co. Ltd., January 1, 1950:					
Ore reserves.....	20,157,000	3.04	4.34	0.084	1.14
Capacity of mill: 24 hours.....	6,200	—	—	—	—
Granby Cons. Mining, Smelting & Power Co. Ltd., Dec. 31, 1950:					
Ore reserves.....	5,530,000	1.1	—	—	—
Capacity of mill.....	5,000	—	—	—	—
Britannia Mining & Smelting Co. Ltd.:					
Capacity of mill: 24 hours.....	6,500	—	—	—	—
East Sullivan Mines Ltd., 1950:					
Ore reserves.....	4,918,000	1.78	0.87	0.017	0.39
Capacity of mill: 24 hours.....	2,000	—	—	—	—
Quemont Mining Corp. Ltd., 1950:					
Ore reserves.....	9,402,000	1.43	2.87	0.107	0.95
Capacity of mill.....	2,000	—	—	—	—
Cuprus Mines Ltd., December, 1950:					
Ore reserves.....	245,000	3.62	6.8	0.045	0.91
Capacity of mill: 24 hours.....	300	—	—	—	—

1. Subject to revision.

TABLE 40. Specified Data Relating to the Copper-Gold-Silver Mining Industry, 1941-1950¹

Year	Wage-earners	Wages paid	Average per capita wages paid ²	Salaried employees	Salaries paid	Total salaries and wages
	No.	\$	\$	No.	\$	\$
PRODUCING MINES						
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
1949	6,516	18,573,840	2,850	852	3,143,623	21,717,463
1950	6,584	19,870,222	3,018	894	3,439,529	23,309,751
NON-PRODUCING MINES						
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
1949	18	43,007	—	9	15,680	58,687
1950	65	158,687	—	11	20,928	179,615

1. Not including smelters or refineries.

2. Including any bonus paid.

TABLE 41. Classification of Workmen Employed in the Copper-Gold-Silver Mining Industry, by Provinces, 1948-1950

	Surface		Underground	Mill		Total	
	Male	Female	Male	Male	Female	Male	Female
(Number)							
1950							
Quebec	728	16	1,898	349	2	2,975	18
Ontario	10	—	—	—	—	10	—
Manitoba	326	15	470	105	—	901	15
Saskatchewan	528	5	561	119	—	1,208	5
British Columbia	321	23	745	415	13	1,481	36
Canada, 1950	1,913	59	3,674	988	15	6,575	74
Canada, 1949	1,963	69	3,522	961	19	6,446	88
Canada, 1948	1,956	65	2,784	816	19	5,556	84

TABLE 42 Specified Expenditures by the Copper-Gold-Silver Mining Industry, 1948-1950

	1948	1949	1950	(Dollars)
Workmen's compensation	685,829	893,898	841,003	
Silicosis assessment	147,368	103,097	101,786	
Unemployment insurance	100,005	154,766	193,554	
Aggregate cost of all supplies purchased	15,419,448	16,445,653	17,074,795	
Aggregate cost of plant and equipment purchased	3,960,036	7,179,284	4,900,575	
Cost of buildings, machinery and equipment erected or installed during year	7,638,468	10,507,554	6,872,991	

TABLE 43. Taxes Paid by the Copper-Gold-Silver Mining Industry, 1948-1950

	1948	1949	1950	(Dollars)
Dominion income tax, including tax on non-operating revenue	7,018,135	8,183,172	8,842,345	
Dominion excess profits tax	835,567	—	—	
Provincial tax	3,224,427	3,419,742	3,690,872	
Municipal tax	426,990	716,141	1,204,810	
Grand total taxes paid	11,505,119	12,319,055	13,738,027	

TABLE 44. Cost of Prospecting Conducted by the Copper-Gold-Silver Mining Industry, by Provinces, 1949 and 1950

Conducted in-	1949	1950	Conducted in-	1949	1950
Nova Scotia	—	—	Saskatchewan	23,673	19,303
New Brunswick	—	—	British Columbia	42,343	84,638
Quebec	261,562	469,434	Yukon	40,921	7,479
Ontario	28,831	134,308	Northwest Territories	32,090	8,28
Manitoba	121,595	85,398	Total	549,015	801,388

TABLE 45. Drilling Completed on Copper-Gold-Silver Deposits, 1948-1950

	Footage drilled		
	1948	1949	1950
Diamond drilling for exploration (testing only):			
By mining companies with their own personnel and equipment	119,463	119,627	170,307
By diamond drilling contractors	365,681	420,012	480,253
Other diamond drilling:			
Blast hole diamond drilling:			
By mining companies with their own personnel and equipment	1,052,510	1,589,817	1,922,830
By diamond drilling contractors	532	61,419	88,001
Drilling by percussion or other machines ¹	5,545,001	8,868,074	9,095,279

1. Not complete as these data are not recorded by some operators.

TABLE 46. Copper Production (recoverable) According to Nature of Ore and by Provinces, 1948-1950

Province and year	From copper-gold-silver ores	From nickel-copper ores	From gold and other ores	Total
(Pounds)				
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
1949:				
Newfoundland	—	—	7,233,952	7,233,952
Quebec	135,644,936	—	—	135,644,936
Ontario	—	224,726,682	1,358,741	226,085,423
Manitoba	33,920,148	—	—	33,920,148
Saskatchewan	69,919,293	—	—	69,919,293
British Columbia	53,195,933	—	913,947	54,109,880
Total Canada	292,680,310	224,726,682	9,506,640	526,913,632
1950:				
Newfoundland	—	—	6,442,825	6,442,825
Quebec	145,253,590	—	527,781	145,781,371
Ontario	—	234,394,012	26,532	234,420,544
Manitoba	41,634,697	—	—	41,634,697
Saskatchewan	57,963,500	—	—	57,963,500
British Columbia	40,289,361	—	1,885,998	42,175,359
Total Canada	285,141,148	234,394,012	8,883,136	528,418,296

TABLE 47. Production of Refined Copper¹, 1941-1950

Year	Short tons	Year	Short tons
1941	278,224	1946	204,016
1942	268,447	1947	202,427
1943	251,495	1948	221,275
1944	256,244	1949	228,083
1945	237,457	1950	238,204

1. In all forms and from all sources, including scrap.

TABLE 48. Silver Production According to Nature of Ores, by Provinces, 1950

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)							
Newfoundland	—	—	—	—	575,524	—	575,524
Nova Scotia	—	2	—	—	—	—	2
Quebec	—	169,627	2,053,986	—	2,119,766	—	4,343,379
Ontario	—	418,188	—	1,045,106	—	2,945,326	4,408,620
Manitoba	—	17,694	875,405	—	—	—	893,099
Saskatchewan	—	—	1,207,796	—	—	—	1,207,796
Alberta	14	—	—	—	—	—	14
British Columbia	2,275	42,361	198,017	—	8,285,454	—	8,528,107
Northwest Territories	3	62,108	—	—	—	—	62,111
Yukon	20,424	—	—	—	3,182,355	—	3,202,779
Canada	22,716	709,980	4,335,204	1,045,106	14,163,099	2,945,326	23,221,431

TABLE 49. Selenium and Tellurium Recovered from Canadian Ores, 1941-1950

Year	From copper-gold-silver ores		From nickel-copper ores		Total	
	Selenium	Tellurium	Selenium	Tellurium	Selenium	Tellurium
(Pounds)						
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	270,806	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
1949	231,383	2,966	86,842	8,726	318,225	11,692
1950	198,264	4,065	63,709	6,010	261,973	10,075

TABLE 50. Zinc Production (Recoverable) According to Nature of Ore and by Provinces, 1948-1950

Year and province	Recovered from copper-gold-silver ores	Recovered from silver-lead-zinc and other ores	Total	
			(Pounds)	
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	
1949:				
Newfoundland	—	63,818,908	63,818,908	
Quebec	74,332,795	50,988,503	125,321,298	
Manitoba	34,081,713	—	34,081,713	
Saskatchewan	64,266,312	—	64,266,312	
British Columbia	11,188,239	277,000,381	288,188,620	
Yukon	—	847,246	847,246	
Canada	183,869,059	392,635,038	576,524,097	
1950:				
Newfoundland	—	61,077,614	61,077,614	
Quebec	117,275,049	54,363,269	171,638,318	
Manitoba	42,905,613	—	42,905,613	
Saskatchewan	54,981,653	—	54,981,653	
British Columbia	18,473,209	271,871,018	290,344,227	
Yukon	—	5,507,173	5,507,173	
Canada	233,635,524	392,819,074	626,454,598	

TABLE 51. Refined Zinc Produced from all Sources, 1941-1950

Year	Short tons	Year	Short tons
1941	213,608	1946	185,683
1942	215,795	1947	178,264
1943	206,510	1948	196,575
1944	168,518	1949	206,045
1945	182,267	1950	204,367

TABLE 52. Cadmium Recovered from Canadian Ores, 1941-1950

Year	From copper-gold-silver ores	From silver-lead-zinc ores	Total	Year	From copper-gold-silver ores	From silver-lead-zinc ores	Total
(Pounds)							
1941	169,917	1,081,374	1,251,291	1946	166,333	636,315	802,648
1942	176,550	972,413	1,148,963	1947	172,896	545,638	718,534
1943	187,938	598,673	786,611	1948	148,864	617,226	766,090
1944	140,560	386,410	526,970	1949	181,092	665,449	846,541
1945	135,632	510,432	646,064	1950	141,456	706,950	848,406

TABLE 53. Average Annual Metal Prices, in Canadian Dollars, 1941-1950

Year	Gold	Silver	Copper	Lead	Zinc
	Troy ounces	Troy ounces	Pounds	Pounds	Pounds
(Dollars)					
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	38.75	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	0.1393
1949	36.00	0.7425	0.1997	0.158	0.1325
1950	38.05	0.8082	0.2342	0.1445	0.1565

TRANSACTIONS IN GOLD BULLION AT THE ROYAL CANADIAN MINT
(From the Annual Report of the Royal Canadian Mint)

Five thousand nine hundred and twenty-three deposits of gold bullion were received at the Mint during the year from Canadian Mining Companies, the Assay Office, Royal Canadian Mint, Vancouver, and sundry persons. The gross weight of the deposits amounted to 5,485,957 ounces, containing by assay 4,422,968 ounces fine gold and 651,228 ounces fine silver. The receipts show increases as compared with the year 1949 of 447 in the number of deposits, gross weight 544,208 ounces, gold content 497,350 ounces and fine silver 59,175 ounces.

The net value paid by cheque to depositors was \$162,108,013.68. In addition the amount of fine gold issued to depositors was 14,879.740 ounces with a statutory value of \$307,592.07.

Postage collected for the Postmaster General on deposits shipped by mail, postage collect, amounted to \$40,804.18.

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

From Canadian Mines and Refineries	Gross weight	Fine gold	Fine silver
		Ounces	Ounces
Ontario	3,210,825.741	2,622,489.212	350,140.21
Quebec	1,395,290.350	1,142,778.349	165,377.28
British Columbia	226,233.525	178,288.390	29,605.37
Manitoba	203,181.250	160,406.740	17,822.26
Yukon	117,964.595	93,339.068	20,423.96
Nova Scotia	69.575	65.484	2.16
Northwest Territories	286,295.650	198,711.835	62,303.61
Alberta and Saskatchewan	201.160	152.035	14.02
Total from Canadian mines and refineries	5,440,061.846	4,396,231.113	645,688.87
From jewellery and scrap	41,161.265	21,489.063	4,052.73
Foreign	—	—	—
Grand total	5,481,223.111	4,417,720.176	649,741.60

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

	Ounces fine
10,285 Trade Bars transferred to Exchange Fund Account of Minister of Finance and held in safe-keeping by Bank of Canada..	4,111,868.015
Depositors - granulated	14,879.740
Sales to manufacturers - granulated	207,731.986
Proof plate for assay purposes	4.000
Medals, etc.	10.895
Sweep	13,467.262
	4,347,961.898

This total shows an increase of 482,665.521 ounces fine as compared with the year 1949.

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, 1950

Year	Gold received		Gold issued		
	Gross weight	Statutory value gold only	Coin	Bullion	Statutory value coin and bullion
	Ounces	\$	\$	Ounces fine	\$
1908 to 1940	76,948,280.400	1,286,874,974.84	7,923,908.73	61,741,509.942	1,284,234,180.24
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	—	4,611,882.227	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
1949	4,941,749.248	81,149,717.63	—	3,865,296.377	79,902,766.08
1950	5,485,956.751	91,430,862.97	—	4,347,961.898	89,880,347.18
Total	121,761,384.404	2,030,199,117.26	7,923,908.73	97,605,789.203	2,025,614,613.20

THE GOLD MINING INDUSTRY

Directory of Principal Canadian Alluvial Gold Operators, 1950

Name	Head or Executive Office Address	Location
BRITISH COLUMBIA:		
Anderson, Adolf	Likely	Quesnel
Anderson, M.A.	Wells	Cariboo
Antler Mountain Gold Ltd.	789 West Pender St., Vancouver	Cariboo
A.P. & S. Co. Ltd.	208 Pacific Bldg., Vancouver	Cariboo
Atkinson Dredging Co. Ltd.	902 Rogers Bldg., Vancouver	Similkameen
Baker, George S.	Keithley	Quesnel
Bedrock Placers Inc.	2204 Northern Life Tower, Seattle, Washington, U.S.A.	Quesnel
Boulder Creek Partnership	Atlin	Atlin
Brister, J.V.	Atlin	Atlin
Bride, Maurice	Box 26, Atlin	Cariboo
Brown, A.F.	Stanley	Quesnel
Cariboo Keithley Gold Placers Ltd.	3850 Parker St., Vancouver	Quesnel
Cariboo Metals Ltd.	Foncier Bldg., Vancouver	Quesnel
Dowsett, E.S.	Barkerville	Quesnel
Ennerdale Placers	Van Winkle	Cariboo
Falconer, D.K.	Spruce Creek	Atlin
Fountain View Placers	Lillooet	Lillooet
Fredericks, Fred	Likely	Quesnel
Goldsmith, McGregor & Dunham	Keithley Creek	Quesnel
Haylmore, Will	Goldbridge	Lillooet
Hixon Placers	1905-2nd Ave., Seattle, Washington, U.S.A.	Cariboo
Holm & Petersen	Barkerville	Cariboo
Jacoble, F., & Webber, H.C.	475 Howe St., Vancouver	Quesnel
Lawless Creek Mining Co.	Likely	Quesnel
Loper, Geo. H., & Sons	Germansen Landing	Omineca
Lowhee Gulch Placers	Box 6, Barkerville	Cariboo
Lyne, C.J.	Likely	Quesnel
McMilian, Ellis	Cottonwood	Cariboo
Markuson, A.J.	Sardis	New Westminster
Martinson & Edberg	Wells	Cariboo
Moen, Arling	Stanley	Cariboo
Moose Syndicate Group	2457 Collingwood St., Vancouver	Quesnel
Muncaster, W. & F.	Squaw Creek	Atlin
Nation River Project	4101 S.E. 26 Ave., Portland, Ore., U.S.A.	Omineca
Noland Mines Ltd.	602 W. Hastings St., Vancouver	Atlin
Nora Gold Mines	Box 2388, Dawson Creek	Watson Lake
Quesnel Forks Placers Inc.	416 Virginia St., Seattle, Washington, U.S.A.	Quesnel
Stankowy, E.	Fort St. James	Omineca
Stoney Creek Placers Ltd.	331 Bay St., Toronto	Cariboo
Swanson & Watt	Atlin	Atlin
Tulameen Dredging Co. Ltd.	902 Rogers Bldg., Vancouver	Similkameen
Van Deinse, F.C.	351 California St., San Francisco	Quesnel
Webber, Paul	Bridesville	Greenwood
Wesley, Roy R.	1736 Stephens St., Vancouver	Nicola
YUKON:		
Bedrock Mining Co.	Glacier Creek	Sixtymile
Boutillier, D.F. & H.C.	Dawson	Adams Gulch
Bremner, John	Dawson	Last Chance Creek
Brown-McDade Mines Ltd.	844 W. Hastings St., Vancouver	Dawson
Clear Creek Placers Ltd.	Dawson	Clear Creek
Cole Brothers	Dawson	Homestake Creek
Coulombe, A. & C.	Dawson	Ballarat Creek
Currie, McMillan & McMillan	Dawson	Moose Creek
Froberg, Ralph E.	Dawson	Bonanza
Gould, J.A. & R.S.	Box 328, Dawson	Nuggett Hill
Huley, Peter	Dawson	Last Chance Creek
Joiner, W.M., & Morgan, W.F.	Dawson	Caribou Creek
Winans & King	Readford	Quartz Creek
Yukon Consolidated Gold Corp. Ltd.	1919 Marine Bldg., Vancouver	Dawson
Yukon Gold Placers Ltd.	Dawson	Dawson

Directory of Active Operators in the Canadian Auriferous Quartz Mining Industry, 1950

Name	Head or Executive Office Address	Location
NOVA SCOTIA:		
K.-V.-Mines	Liverpool	Liverpool
Smith, A.J.	East Chezzetcook	Lake Catcha
QUEBEC:		
Abitibi Ventures Ltd.	680 Ouest, rue Sherbrooke, Montréal, Quebec	Abitibi
Adelement Gold Mines Ltd.	360 St. James St. W., Montreal, Quebec	Val d'Or, Quebec
Anglo-Rouyn Mines Ltd.	44 King St. W., Toronto, Ontario	Temiscamingue, Quebec
Angus Mines Ltd.	7000 Jeanne Mance St., Montreal 15, Quebec	Cadillac Twp.
Ankrno Mines Ltd.	330 Bay St., Toronto, Ontario	Malartic Twp.
Annamaque Mines Ltd.	501-67 Yonge St., Toronto, Ontario	Bourlamaque, Quebec
Aumaque Gold Mines Ltd.	307-100 Adelaide St. W., Toronto, Ontario	Bourlamaque Twp.
Ava Gold Mining Co., Ltd.	320 Bay St., Toronto, Ontario	Duparquet Twp.
Barnat Mines Ltd.	56 Sparks St., Ottawa, Ontario	Malartic, Quebec
Barymin Company Ltd.	67 Yonge St., Toronto, Ontario	Waswanipi Lake
Batege Mines Ltd.	P.O. Box 478, Val d'Or, Quebec	Barraute Twp.
Beacon Mining Co., Ltd.	Bourlamaque, Quebec	Bourlamaque
Belle-Chibougamau Mines, Ltd.	50 King St. W., Toronto, Ontario	Chibougamau
Belleterre Quebec Mines, Ltd.	25 King St. W., Toronto 1, Ontario	Belleterre
Bellevue Gold Mines, Ltd.	1596 Danforth Ave., Toronto, Ontario	Freville Twp.
Bevcourt Gold Mines, Ltd.	360 St. James St. W., Montreal, Quebec	Bourlamaque
Bobjo Mines, Ltd.	302 Bay St., Toronto, Ontario	Queylus & Foucamp Twp.
Bolgo Gold Mines, Ltd.	1593 St. Lawrence Blvd., Montreal, Quebec	Privat Twp.
Bonville Gold Mines, Ltd.	100 Adelaide St. W., Toronto, Ontario	Villeban Twp.
Buffadison Gold Mines, Ltd.	44 King St. W., Toronto 1, Ontario	Louvicourt Twp.
Burge Lake Goldfields Ltd.	P.O. Box 610, 838 3rd Ave., Val d'Or, Quebec	Duplessis Twp.
Cache Bay (Chibougamau) Mines Ltd.	610 Cathcart St., Montreal, Quebec	Obalski Twp.
Calder Bousquet Gold Mines, Ltd.	44 King St. W., Toronto, Ontario	Cadillac Twp.
Canadian Malartic Gold Mines Ltd.	25 King St. W., Toronto 1, Ontario	Malartic
Candoo Gold Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Bourlamaque
Central Mining Corporation	465 St. John St., Montreal, Quebec	Bourlamaque Twp.
Cheskirk Mines Limited	100 Adelaide St. W., Toronto, Ontario	Rouyn, Quebec
Chibougamau Explorers Ltd.	431 St. James St. W., Montreal, Quebec	Dauversiere Twp.
Consolidated Astoria Mines Ltd.	62 Richmond St. W., Toronto, Ontario	Rouyn
Consolidated Beattie Mines Ltd.	Duparquet, Quebec	Duparquet
Consolidated Duquesne Mining Co. Ltd.	Box 970, Noranda, Quebec	Dester Twp.
Consolidated Harpers Malartic Gold Mines Ltd.	330 Bay St., Toronto, Ontario	Dubisson Twp.
Coronet Gold Mines Ltd.	478 Craig St. E., Montreal, Quebec	Rouyn Twp.
Cournor Mining Company	360 St. James St., W., Montreal, Quebec	Louvicourt Twp.
Crangold Mines Ltd.	45 Richmond St. W., Toronto 1, Ontario	Vassan Twp.
D'Aragon Mines Ltd.	11 King St. W., Toronto, Ontario	Bourlamaque Twp.
Defor Chibougamau Mines Ltd.	57 James St. W., Montreal	Chibougamau
Dome Exploration Company (Quebec) Ltd.	Bourlamaque, Quebec	Bourlamaque
Dominion Gulf Company	P.O. Drawer 2038, Pittsburgh 30, Pa., U.S.A.	Beauchastel Twp.
Donalds Mines Ltd.	625 Burnside St., Montreal, Quebec	Temiskaming, Quebec
Donmaque-Gold Mines Ltd.	1596 Danforth Ave., Toronto, Ontario	Perron Twp.
Dubuisson Mines Ltd.	516 Canada Cement Bldg., Montreal, Quebec	Lesueur Twp.
Duffree & Rouyn Mines Ltd.	67 Yonge St., Toronto, Ontario	Rouyn
Dupresnoy Mines Ltd.	Duparquet, Quebec	Dufresnoy Twp.
East Bay Gold Mines	29 Sixth St., Noranda, Quebec	Duparquet Twp.
East Malartic Mines Ltd.	355 St. James St. W., Montreal, Quebec	Fourniere Twp.
Elder Mines, Ltd.	86 Bloor St., W., Toronto, Ontario	Noranda Twp.
Eldona Gold Mines Ltd.	62 Richmond St., W., Toronto, Ontario	Rouyn
Ellmargo Mining Co., Ltd.	Halleybury, Ontario	Courville Twp.
El Pen-Rey Oil & Mines, Ltd.	62 Richmond St., W., Toronto, Ontario	Rouyn Twp.
El Sol Gold Mines Ltd.	100 Adelaide St., W., Toronto, Ontario	Louvicourt Twp.
Eplott Mining & Development Co. Ltd.	New Liskeard, Ontario	Beauchastel Twp.
Evans-Berthiaume Mineral Exploration Partnership	Royal Bank Bldg., Montreal, Quebec	Canton Le Tac
Fayolle-Antoine	175, rue Noranda Ouest, Rouyn, Quebec	Dasserat
Flobec Gold Mines Ltd.	372 Bay St., Toronto, Ontario	Guillet Twp.
Fortress Mining & Oil Ltd.	430 King St. W., Toronto, Ontario	Dufresnoy Twp.
Glencona Mining Co., Ltd.	132 St. James St. W., Montreal	Rouyn

Directory of Active Operators in the Canadian Auriferous Quartz Mining Industry, 1950 — Continued

Name	Head or Executive Office Address	Location
QUEBEC — Continued.		
Gothic Gold Miners Ltd.	50 Richmond St. W., Suite A - Toronto, Ontario	Duvernay Twp.
Gunnar Gold Mines Ltd.	80 King St. W., Toronto, Ontario	Opawica Lake
Harricana Gold Mine Incorporated	330 Bay St., Toronto, Ontario	Bourlamaque
Hebecourt Gold Mines Ltd.	132 rue St-Jacques Ouest, Montréal	Canton Twp.
Heva Gold Mines Ltd.	100 Adelaide St. W., Toronto	Joannes Twp.
Highridge Mining Co., Ltd.	330 Bay St., Toronto, Ontario	McGarry Twp.
Hosco Gold Mines Ltd.	357 Bay St., Toronto 1, Ontario	Joannes Twp.
Joannes Goldfields Ltd.	1117 Ste. Catherine St. W., Montreal	Dasserat Twp.
Kayrand Mining and Development Co., Ltd.	215 St. James St. W., Montreal	Merrill Island
Kenncor Explorations, (Canada) Ltd.	1010 Ste Catherine St. W., Montreal 2	Guercheville Twp.
Keyboycon Mines Ltd.	330 Bay St., Toronto, Ontario	Vauquelin Twp.
La Flamme & La Haye	139, rue De Montmorency, Québec	Cranbourne
La Rongiere Gold Mines Ltd.	67 Yonge St., Toronto, Ontario	La Rongiere
Lake Opawica Mines Ltd.	516 Canada Cement Bldg., Montreal	Lake Opawica
Lake Surprise Mine Ltd.	9 Adelaide St. East, Toronto, Ontario	Langlosure Twp.
Lake Wasa Mining Corporation	Arntfield, Quebec	Beauchastel Twp.
Lamaque Mining Co., Ltd.	Bourlamaque, Quebec	Bourlamaque
Lavalie Mines Ltd.	24 King St. W., Toronto, Ontario	Bourlamaque
Leys, Wm., Mining Corporation Ltd.	1456 St. Mark St., Montreal, Quebec	Dasserat Twp.
Louvicourt Goldfields Corporation	100 Adelaide St. W., Toronto, Ontario	Bourlamaque
Malartic Gold Fields Ltd.	355 St. James St. W., Montreal	Fourniere Twp.
Marbenor Malartic Mines Ltd.	330 Bay St., Toronto, Ontario	Dubuisson Twp.
Marvel Rouyn Mines Limited	100 Adelaide St. W., Toronto, Ontario	Rouyn
McIntyre Porcupine Mines, Ltd.	25 King St., W., Toronto 1, Ontario	Lesseur Twp.
McWatters Gold Mines Ltd.	Drawer 988, Haileybury, Ontario	Rouyn
Minerva Mining Corporation Ltd.	21 Dundas Square, Toronto, Ontario	Krelghoff Twp.
Mining Corporation of Canada, The, Ltd.	44 King St. W., Toronto 1, Ontario	Verneuil Twp.
Moneta Porcupine Mines, Ltd.	320 Bay St., Toronto, Ontario	Bourlamaque
Mylamaque Mines Ltd.	40 Adelaide St. W., Toronto	Malartic
National Malartic Gold Mines Ltd.	360 St. James St. W., Montreal, Quebec	Amos, Quebec
New Goldvue Mines Ltd.	100 Adelaide St. W., Toronto	Desjardins Twp.
New Jersey Zinc Explorations Ltd.	80 St. Peter St., Quebec	Noranda
New Marlon Gold Mines Ltd.	24 King St. W., Toronto, Ontario	Bourlamaque
New Norseman Mines Ltd.	100 Adelaide St. W., Toronto	Rouyn
New Rouyn Merger Mines Ltd.	44 King St. W., Toronto 1, Ontario	Destor Twp.
New Thurbois Mines Ltd.	66 King St. W., Toronto, Ontario	Malartic Twp.
Norlartic Mines Ltd.	330 Bay St., Toronto, Ontario	Souart Twp.
Nubar Mines Limited	330 Bay St., Toronto, Ontario	Cadillac Twp.
O'Brien Gold Mines, Ltd.	Kewagama, Quebec	Chibougamau
O'Leary Malartic Mines Ltd.	228 Third Ave., Noranda	Rouyn
Old Mill Gold Mines Ltd.	211 Dominion Bank Bldg., Toronto, Ontario	Levy Twp.
Opagold Mines Limited	215 St. James St. W., Montreal	Rouyn Twp.
Osisko Lake Mines Ltd.	25 King St. W., Toronto 1, Ontario	Senneville Twp.
Perron Gold Mines Ltd.	Perron, Quebec	Noranda
Powell Rouyn Gold Mines Ltd.	Box 200, Noranda, Quebec	Pouliaries Twp.
Preston East Dome Mines Ltd.	South Porcupine, Ontario	Levy
Quebec Explorers Ltd.	132 St. Jacques St., Montreal	Obalski Twp.
Quebec Smelting and Refining Ltd.	215 St. James St. W., Montreal	Quesabe
Quesabe Mines Limited	320 Bay St., Toronto, Ontario	Dufresnoy Twp.
Quetide Mining Co. Ltd.	330 Bay St., Toronto, Ontario	Beauchastel Twp.
Ribago Rouyn Mines Limited	36 Toronto St., Toronto 1, Ontario	McKenzie Twp.
Richglen Mines, Limited	11 King St. W., Toronto, Ontario	Beauchastel Twp.
Rouandah Gold and Metals Ltd.	100 Adelaide St. W., Toronto, Ontario	Obalski Twp.
Royran Gold Fields Ltd.	215 St. James St. W., Montreal	Labarre
Quartz Bleu du Saguenay, Le	235 St. Joseph d'Alma, Quebec	Bourlamaque
Salbourin Creek Mines Ltd.	80 Richmond St. W., Toronto 1, Ontario	McKenzie
Scott Chibougamau Mines Ltd.	215 St. James St. W., Montreal	Noranda
Senator Rouyn Ltd.	Box 780, Noranda, Quebec	Dubuisson
Shawkey (1945) Mines Ltd.	80 King St. W., Toronto, Ontario	Bourlamaque
Sigma Mines (Quebec) Ltd.	Bourlamaque, Quebec	Siacoe Island
Siacoe Gold Mines Ltd.	907 Dominion Square Bldg., Montreal	

Directory of Active Operators in the Canadian Auriferous Quartz Mining Industry, 1950 — Continued

Name	Head or Executive Office Address	Location
QUEBEC — Concluded:		
South Dufoult Mines Ltd.	302 Bay St., Toronto, Ontario	Rouyn Twp.
Stadacona Mines (1944) Ltd.	P.O. Box 390, Rouyn, Quebec	Rouyn
St. Francis Mining Co. Ltd.	186-3rd Ave., Noranda, Quebec	Noranda
Sullivan Consolidated Mines Ltd.	1604 Aldred Building, Montreal	Dubuisson Twp.
Teck Exploration Co. Ltd.	25 King St. W., Toronto, Ontario	Queylus Twp.
Timmins, N.A. (1938) Ltd.	1010 Canada Cement Bldg., Montreal 2	Montalambert
Titanic Mine Holding Ltd.	215 St. James St. W., Montreal	Merrill Island
Union Mining Corporation	465 St. John St., Montreal	Bourlamaque
United Mic Mac Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Bousquet Twp.
Vicour Mines Limited	44 King St. W., Toronto 1, Ontario	Louvicourt
Wildor Gold Mines Ltd.	357 Bay St., Toronto, Ontario	Bourlamaque Twp.
Wright — Hargreaves Mines, Ltd.	Canadian Bank of Commerce, Fort Erie, Ontario	Barlow
ONTARIO:		
<i>Porcupine District</i>		
Aunor Gold Mines Ltd.	1600 Royal Bank Building, Toronto	Timmins
Bonetal Gold Mines Ltd.	1705 Sterling Tower Bldg., 372 Bay St., Toronto	Pamour
Broulan Porcupine Mines Ltd.	1705 Sterling Tower Bldg., 372 Bay St., Toronto	Whitney Twp.
Buffalo Ankerite Gold Mines Ltd.	Box 533, South Porcupine	Deloro Twp.
Carshaw Porcupine Gold Mines Ltd.	906 Canada Bldg., Windsor	Carman Twp.
Coniaurum Mines Ltd.	25 King St., W., Toronto	Tisdale Twp.
Delnite Mines Ltd.	Box 590, Timmins	Deloro Twp.
Dome Mines Ltd.	South Porcupine	Tisdale Twp.
Goldhawk Porcupine Mines Ltd.	320 Bay St., Toronto	Macklem Twp.
Hallnor Mines Ltd.	1600 Royal Bank Building, Toronto	Whitney Twp.
Hollinger Consolidated Gold Mines Ltd.	Timmins	Hislop Twp.
Hoyle Mining Co. Ltd.	Box 997, Haileybury	Pamour Twp.
Hugh-Pam Porcupine Mines Ltd.	50 King St., W., Toronto	Cochrane District
McIntyre Porcupine Mines Ltd.	Schumacher	Schumacher
Midcamp Mines Ltd.	1600 Royal Bank Building, Toronto	Tisdale Twp.
Pamour Porcupine Mines Ltd.	Pamour	Whitney Twp.
Paymaster Consolidated Mines Ltd.	Box 508, South Porcupine	Deloro and Tisdale Twps.
Porcupine Peninsular Gold Mines Ltd.	100 Adelaide St. W., Toronto	Cody Twp.
Porcupine Reef Gold Mines Ltd.	1705 Sterling Tower, 372 Bay St., Toronto	Pamour
Preston East Dome Mines Ltd.	Box 545, South Porcupine	South Porcupine
<i>Kirkland Lake District</i>		
Biroco Kirkland Mines Ltd.	372 Bay St., Toronto	Lebel and Gauthier Twps.
Gateford Mines Ltd.	40 Adelaide St. W., Toronto	Swastika
Kirkland Lake Gold Mining Co. Ltd.	1314 Metropolitan Building, Toronto	Teck Twp.
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	Dobie
Queenston Gold Mines Ltd.	1101 Federal Bldg., Toronto	Teck Twp.
Sylvanite Gold Mines Ltd.	Box 670, Kirkland Lake	Kirkland Lake
Teck-Hughes Gold Mines Ltd., The	14 Finkle St., Woodstock	Kirkland Lake
Toburn Gold Mines Ltd.	1809 Royal Bank Building, Toronto	Gauthier Twp.
Upper Canada Mines Ltd.	1101 Federal Building, Toronto	Kirkland Lake
Wright-Hargreaves Mines Ltd.	Fort Erie	
<i>Larder Lake District</i>		
Cathroy Larder Mines Ltd.	171 Yonge St., Toronto	McElroy Twp.
Chesterville Mines Ltd.	330 Bay St., Toronto	McGarry Twp.
Highridge Mining Co. Ltd.	330 Bay St., Toronto	McGarry Twp.
Kerr-Addison Gold Mines Ltd.	44 King St. W., Toronto	McGarry Twp.
Kidihawk Mines Ltd.	21 Dundas Square, Toronto	Larder Lake
Larder "U" Island Mines Ltd.	330 Bay St., Toronto	McGarry Twp.
Mary Ann Mines Ltd.	185 Bay St., Toronto	Larder Lake
Tobaco Consolidated Gold Mines Ltd.	44 King St. West, Toronto	Gauthier Twp.
Twindyke Mines Ltd.	1412-55 York St., Toronto	Rickard Twp.
Winchester Larder Mines Ltd.	85 Richmond St. W., Toronto	McGarry

Directory of Active Operators in the Canadian Auriferous Quartz Mining Industry, 1950 — Continued

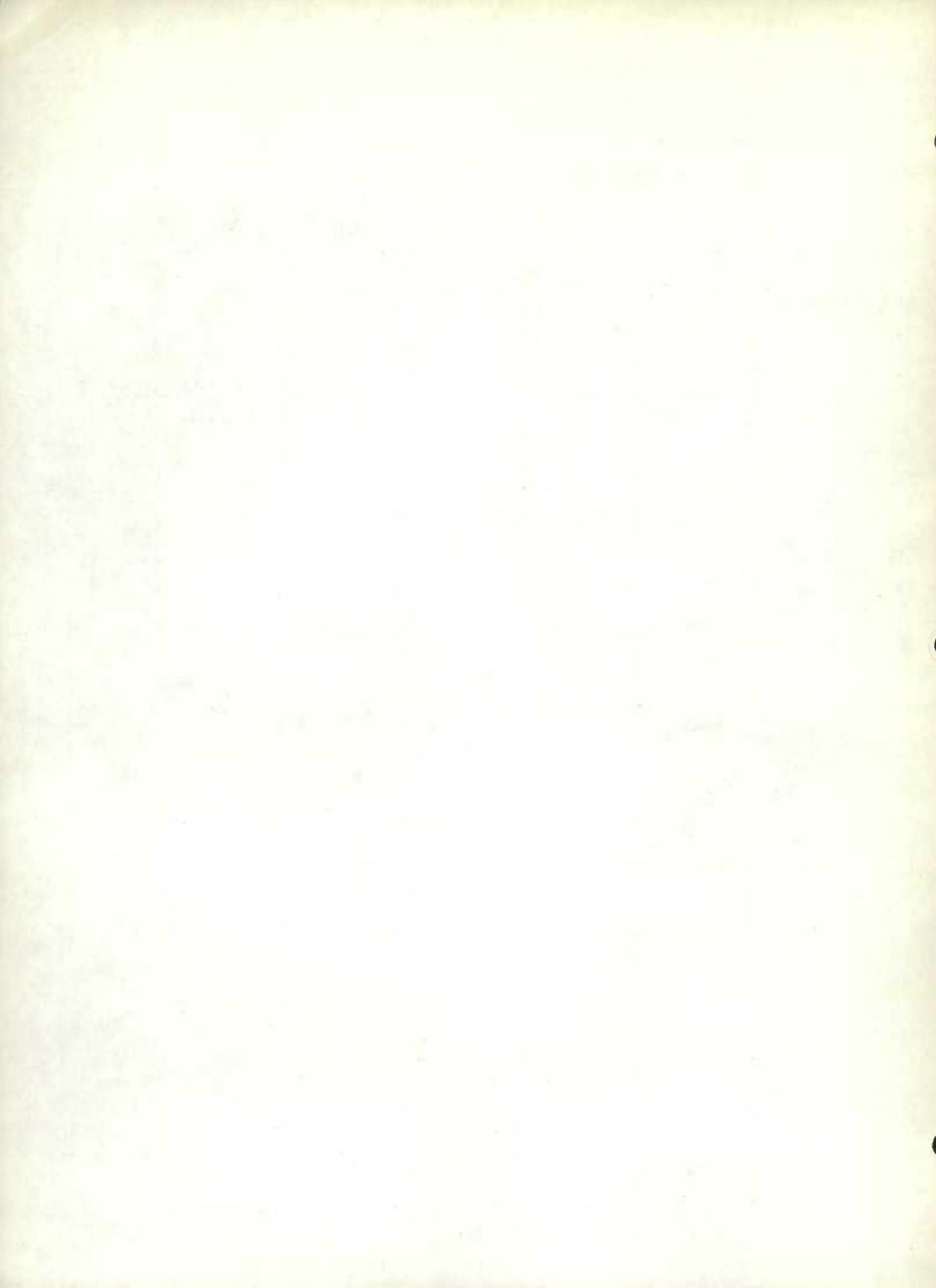
Name	Head or Executive Office Address	Location
ONTARIO — Concluded:		
<i>Matachewan District</i>		
Hollinger Consolidated Gold Mines Ltd.	Timmins	Powell Twp.
Matachewan Consolidated Mines Ltd.	25 King St. W., Toronto	Powell Twp.
<i>Sudbury District</i>		
Delhi (Temagami) Gold Mines Ltd.	330 Bay St.	Delhi Twp.
Gor-Smith Syndicate	735 Dovercourt Rd., Toronto	Horwood Twp.
Greenway Mines Ltd.	Webbwood	Shakespeare Twp.
Jess-Mac Gold Mines Ltd.	Sudbury	Huffman Twp.
Ladulama Gold Mines Ltd.	330 Bay St., Toronto 1	Leeson Twp.
Radiant Exploration Ltd.	80 Richmond St. W., Toronto	Horwood Twp.
Renable Mines Ltd.	85 Richmond St. W., Toronto	Sudbury
<i>Thunder Bay District</i>		
Amichi Gold Mines Ltd.	200 Bay St., Toronto	Michibishu Lake
Brenbar Mines Ltd.	11 Jordon St., Toronto	Thunder Bay
Hard Rock Gold Mines Ltd.	Geraldton	Ashmore Twp.
Lake Superior Mining Corp. Ltd.	330 Bay St., Toronto	Hemlo
Lake-Osu Mines Ltd.	320 Bay St., Toronto	O'Sullivan Lake
Leitch Gold Mines Ltd.	Beardmore	Summers Twp.
Little Long Lac Gold Mines Ltd.	25 King St. W., Toronto	Errington Twp.
McLellan Gold Mines Ltd.	67 Yonge St., Toronto	Errington Twp.
MacLeod-Cockshutt Gold Mines Ltd.	357 Bay St., Toronto	Geraldton
Magnet Consolidated Mines Ltd.	185 Bay St., Toronto	Geraldton
New Mosher Long Lac Mines Ltd.	67 Yonge St., Toronto	Long Lac
Shebnor Mines Ltd.	85 Richmond St. W., Toronto	Shebandowan
Theresa Gold Mines Ltd.	Long Lac	Theresa
Thunderhead Gold Mines Ltd.	330 Bay St., Toronto	Gorham Twp.
Tombill Gold Mines Ltd.	217 Bay St., Toronto 1	Geraldton
<i>Kenora District</i>		
Duport Mining Co. Ltd.	25 King St. W., Toronto	Shoal Lake
<i>Patricia District</i>		
Brewis Red Lake Mines Ltd.	40 Adelaide St. W., Toronto	Balmer Twp.
Bride Echo Lake Mines Ltd.	44 King St. W., Toronto	Echo Twp.
Calmor Mines Ltd.	Haileybury	Willett Twp.
Campbell Red Lake Mines Ltd.	Balmerton	Balmer Twp.
Central Manitoba Mines Ltd.	274 Fort St., Winnipeg	Neepawa Island
Central Patricia Gold Mines Ltd.	Central Patricia	Central Patricia
Cochenour Willans Gold Mines Ltd.	801 Dominion Bank Bldg., Toronto	Dome Twp.
Conecho Mines Ltd.	44 King St. W., Toronto	Echo Twp.
Dougron Gold Mines Ltd.	330 Bay St., Toronto	Red Lake
East Lun Gold Mines Ltd.	45 Richmond St., Toronto	Echo Twp.
Floregold Red Lake Mines Ltd.	77 York St., Toronto	Casummit Lake
Hasaga Gold Mines Ltd.	25 King St. W., Toronto	Dome Twp.
Headway Red Lake Gold Mines Ltd.	67 Yonge St., Toronto	Heyson Twp.
Lake Rawan (1945) Mines Ltd.	40 Adelaide St. W., Toronto	Red Lake
Lun-Echo Gold Mines	67 Yonge St., Toronto	Echo Twp.
Macfie Red Lake Mines Ltd.	40 Adelaide St. W., Toronto	Balmer Twp.
McKenzie Red Lake Gold Mines Ltd.	McKenzie Island	McKenzie Island
Madsen Red Lake Gold Mines Ltd.	Madsen	Heyson Twp.
Marcus Gold Mines Ltd.	357 Bay St., Toronto	Dome Twp.
New Dickenson Mines Ltd.	40 Adelaide St. W., Toronto	Balmer Twp.
New Jason Mines Ltd.	24 King St. W., Toronto	Casummit Lake
Newlund Mines Ltd.	80 King St. W., Toronto	Echo Twp.
Pickle Crow Gold Mines, Ltd.	Pickle Crow	Connell Twp.
Red Crest Gold Mines Ltd.	New Liskeard	Todd Twp.
Starrett Olsen Gold Mines Ltd.	25 King St. W., Toronto	Baird Twp.
Windward Gold Mines Ltd.	44 King St. W., Toronto	Echo Twp.
Winora Gold Mines Ltd.	357 Bay St., Toronto	Lingman Lake

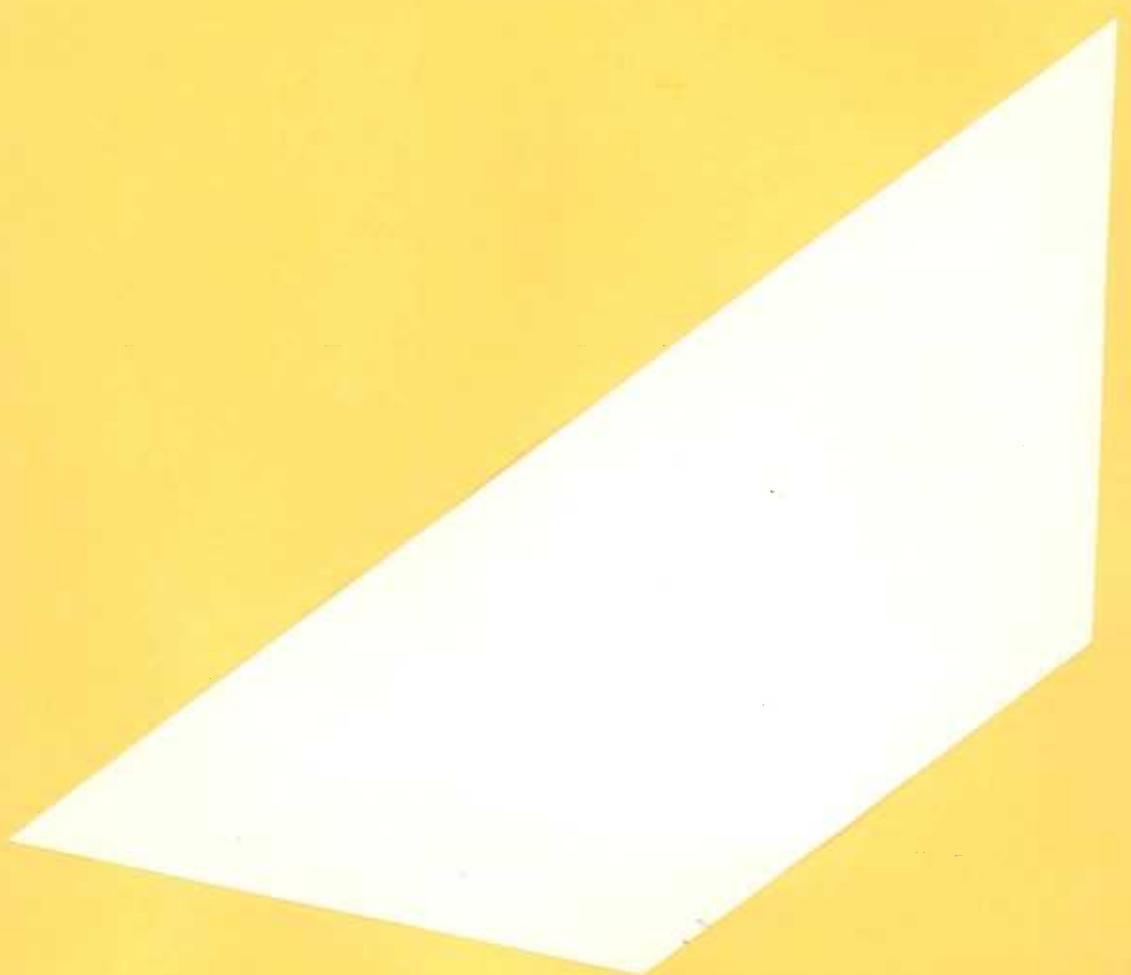
Directory of Active Operators in the Canadian Auriferous Quartz Mining Industry, 1950 — Concluded

Name	Head or Executive Office Address	Location
MANITOBA:		
Forty-Four Mines Ltd.	237 Curry Bldg., Winnipeg	Rice Lake
Howe Sound Exploration Co., Ltd.	Snow Lake	Snow Lake
Jeep Gold Mine Ltd.	237 Curry Bldg., Winnipeg	Rice Lake
Ogama Kirkland Gold Mines Ltd.	80 King St. W., Toronto, Ontario	Long Lake
Roxy Gold Mines Ltd.	395 Main St., Winnipeg	Rice Lake
San Antonio Gold Mines Ltd.	237 Curry Bldg., Winnipeg	Bissett
BRITISH COLUMBIA:		
Antimony Mines & Metals (Slocan) Ltd.	420 W. Broadway, Vancouver	Slocan
Bess Mines Ltd.	555 Burrard St., Vancouver	Sandon
Bralorne Mines, Ltd.	555 Burrard St., Vancouver	Bralorne
Cariboo Gold Quartz Mining Co., Ltd.	675 W. Hastings St., Vancouver	Cariboo
Gem Gold Mines Ltd.	1604 Royal Bank Bldg., Vancouver	Nanaimo
Gold Belt Mining Co., Ltd.	Sheep Creek	Nelson
Golden Contact Mines Ltd.	736 Granville St., Vancouver	Lillooet
Gray Rock Mining Co.	207 W. Hastings St., Vancouver	Lillooet
Harbour, H.L.	Box 10, Slocan City	Slocan
Hovland, John	Stewart	Portland Canal
Island Mountain Mines Ltd.	Wells	Cariboo
Kelowna Exploration Co., Ltd.	Hedley	Osogoos & Slocan
Kootenay Belle Gold Mines Ltd.	Sheep Creek	Nelson
Midas Mines	Keithley Creek	Quesnel
Nicholson Creek Mining Corp.	Usk	Usk
Northwestern Explorations Ltd.	1010 St. Catherine St. W., Montreal	Omineca
Nugget Mine c/o A. Enderby	Fruitvale	Nelson
Phillips, A.A.	Stewart	Portland Canal
Pioneer Gold Mines of B.C. Ltd.	711 Yorkshire Bldg., Vancouver	Lillooet
Polaris-Taku Mining Co., Ltd.	602 W. Hastings St., Vancouver	Atlin
Providence Mine	Greenwood	Greenwood
Red Hawk Gold Mines Ltd.	572 Howe St., Vancouver	Kaslo
Sheep Creek Gold Mines Ltd.	209 Williams Bldg., Vancouver	Nelson
Surf Inlet Consolidated Gold Mines Ltd.	615 W. Hastings St., Vancouver	Vancouver
Venango Option	Box 296, Nelson	Nelson
Zeballos Leasing Co.	Zeballos	Alberni
NORTHWEST TERRITORIES:		
Akaitcho Yellowknife Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Yellowknife
American Yellowknife Gold Mines Ltd.	19 Richmond St. W., Toronto, Ontario	Yellowknife
Atlas Yellowknife Mines Ltd.	330 Bay St., Toronto, Ontario	Yellowknife
Captain Yellowknife Mines Ltd.	330 Bay St., Toronto, Ontario	Yellowknife
Consolidated Mining & S. Co. of Canada Ltd.	Trail, British Columbia	Yellowknife
Crestaurum Mines Ltd.	25 King St. W., Toronto, Ontario	Yellowknife
Discovery Yellowknife Mines Ltd.	19 Richmond St. W., Toronto, Ontario	Yellowknife
Garskie Gold Mines Ltd.	67 Yonge St., Toronto, Ontario	Yellowknife
Giant Yellowknife Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Yellowknife
Homer Yellowknife Mines Ltd.	330 Bay St., Toronto, Ontario	Yellowknife
Indigo Consolidated Gold Mines Ltd.	185 Bay St., Toronto, Ontario	Indin Lake
Kamcon Mines Ltd.	Yellowknife	Yellowknife
Lyn Yellowknife Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Yellowknife
Mate Yellowknife Gold Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Yellowknife
Negus Mines Ltd.	410 Royal Bank Bldg., Toronto, Ontario	Yellowknife
Paysan Yellowknife Gold Mines Ltd.	303 Lumsden Building, Toronto, Ontario	Giaque Lake
Salmita Consolidated Mines Ltd.	73 Adelaide St. W., Toronto, Ontario	Yellowknife
Thompson-Lundmark Gold Mines Ltd.	320 Bay St., Toronto, Ontario	Yellowknife

Directory of Operators in Canadian Copper-Gold-Silver Mining Industry, 1950

Name	Head or Executive Office Address	Location
QUEBEC:		
Antoinette Lake Mines Limited	11 King St. West, Toronto, Ontario	Chibougamau
Area Mines Limited	80 King St. West, Toronto, Ontario	Holland Twp.
Bagamac Mines Limited	Oak Ridges, Ontario	Rouyn
Campbell Chibougamau Mines Ltd.	630 Dorchester St. W., Montreal 2	Obalski Twp.
Caron Malartic Gold Mines Ltd.	240 St. James St. W., Montreal 1	Beauchastel Twp.
East Sullivan Mines Ltd.	1604 Aldred Building, Montreal	Bourlamaque Twp.
Flicker Red Lake Mines Ltd.	431 St. James St. W., Montreal	Roy Twp. Abitibi
Gaspe Copper Mines, Limited	44 King St. W., Toronto, Ontario	Holland Twp.
Golden Shaft Mines Ltd.	67 Yonge St., Toronto, Ontario	Dasserat Twp.
Inesco Mines, Ltd.	355 St. James St. W., Montreal	Dufresnoy Twp.
Joculet Mines Limited	85 Richmond St. W., Toronto 1, Ontario	McKenzie Twp.
Joliet-Quebec Mines Ltd.	25 King St. West, Toronto 1, Ontario	Rouyn Twp.
Lachance-Hind Mineral Exploration	7112-7th Ave., Ville St. Michel, Montreal 38	Marlow Twp.
Lake Dufault Mines Ltd.	Noranda, Quebec	Dufresnoy Twp.
Laurentide (Chibougamau) Mines Ltd.	360 Craig St. W., Montreal	McKenzie Twp.
Lecopa Mines Ltd.	11 King St. W., Toronto, Ontario	McKenzie Twp.
Lyndhurst Mining Co., Ltd.	360 St. James St. W., Montreal	Destor Twp.
Merrill Island Mining Corp. Ltd.	266 Notre Dame St. W., Montreal	Chibougamau
Metalore Mining Corp. Ltd.	80 Richmond St. N., Toronto 1, Ontario	Desmeloizes Twp.
Miller Copper Mines Ltd.	414 St. James St. W., Montreal	Holland Twp.
New Formaque Mines Ltd.	437 St. James St. W., Montreal	Dalquier Twp.
Nicupt Mines Ltd.	83 Ouest, 1ère Avenue, Amos, Quebec	Montauban Twp.
Noranda Mines Ltd.	1700 Bank of Nova Scotia Bldg., Toronto, Ontario	Noranda
Normetal Mining Corporation Ltd.	44 King St. W., Toronto 1, Ontario	Desmeloizes Twp.
Obaska Lake Mines Ltd.	25 King St. W., Toronto, Ontario	Bourlamaque Twp.
Quebec Gold Locks Exploration Ltd.	477 St. Francois-Xavier, Montreal	Abitibi
Quebec Manitou Mines Ltd.	63 Sparks St., Ottawa, Ontario	Bourlamaque Twp.
Quemont Mining Corporation, Ltd.	44 King St. W., Toronto 1, Ontario	Noranda
Roland Gold & Copper Mines Ltd.	Val d'Or, Quebec	Canton
Russ Rae Club Mines Ltd.	431 St. James St. W., Montreal	McKenzie Twp.
Touton Mining & Exploration Co.	507 Place d'Armes, Montreal	Fabre Twp.
Vauze Dufault Mines Limited	1112 Star Building, Toronto 1, Ontario	Duprat Twp.
Waite Amulet Mines Ltd.	Noranda, Quebec	Defresnoy Twp.
ONTARIO:		
Bi-Ore Mines Ltd.	199 Bay St., Toronto, Ontario	Mississaga
Ryan Lake Mines Ltd.	Matachewan	Matachewan
MANITOBA:		
Cuprus Mines Ltd.	500 Royal Bank Bldg., Winnipeg, Manitoba	Flin Flon
Hudson Bay Mining & Smelting Co. Ltd.	500 Royal Bank Bldg., Winnipeg, Manitoba	Flin Flon
Sherritt Gordon Mines Ltd.	25 King St. West, Toronto, Ontario	Sherritt
Thompson Mines Ltd.	4 North Ave., Flin Flon, Manitoba	Flin Flon
SASKATCHEWAN:		
Hudson Bay Mining & Smelting Co. Ltd.	500 Royal Bank Bldg., Winnipeg, Manitoba	Flin Flon
BRITISH COLUMBIA:		
Britannia Mining & Smelting Co. Ltd.	Britannia Beach, British Columbia	Britannia Beach
B.R.X. (1935) Consolidated Mines Ltd.	209 Williams Bldg., 413 Granville St., Vancouver, B.C.	Bridge River
Caron Mining Co. Ltd.	1531 Davie St., Vancouver, British Columbia	Pender Harbour
Granby Consolidated Mining, Smelting and Power Co. Ltd.	675 West Hastings St., Vancouver, British Columbia	Similkameen
Hedley Mascot Gold Mines Ltd.	908 Royal Bank Bldg., Vancouver, British Columbia	Victoria
Rico Copper Mines Ltd.	850 W. Hastings St., Vancouver, British Columbia	Laidlaw
Vananda Mines (1948) Ltd.	413 Granville St., Vancouver, British Columbia	Nanaimo
Vancouver Island Base Metals Ltd.	850 W. Hastings St., Vancouver, British Columbia	Duncan





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