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THE GOLD MINING INDUSTRY 1955



DOMINION BUREAU OF STATISTICS

Industry and Merchandising Division

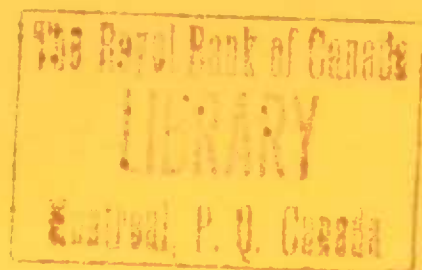
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DOMINION BUREAU OF STATISTICS

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THE GOLD MINING INDUSTRY

1955

Published by Authority of

The Right Honourable C. D. Howe, Minister of Trade and Commerce

NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I** – The Primary Industries, including mining, forestry and fisheries; **Volume II** – Manufacturing; **Volume III** – Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume I consists of the following parts:

- Part I – Mineral Statistics
- Part II – Forestry Statistics – Operations in the Woods
- Part III – Fisheries Statistics

Part I includes the following reports which constitute the complete series 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, 50¢
- B – The Gold Mining Industry, 50¢
- C – The Silver-Lead-Zinc Mining Industry, 25¢
- D – The Nickel-Copper Mining, Smelting and Refining Industry, 25¢
- E – The Miscellaneous Metal Mining Industry, 25¢
- F – The Smelting and Refining Industry, 25¢
- G – The Coal Mining Industry, \$1.00
- H – The Crude Petroleum and Natural Gas 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, 25¢
- 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, 25¢
- U – Contract Drilling in the Mining Industry, 25¢

THE GOLD MINING INDUSTRY

1955

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THE GOLD MINING INDUSTRY

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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 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.

During 1955 the production of gold amounted to 4,541,962 troy ounces valued at \$156,788,528 compared with 4,366,440 ounces valued at \$148,764,611 in 1954. The record production was in 1941 when 5,345,179 ounces were produced at a valuation of \$205,789,392.

Ontario continued to be the leading producer of gold with 55 per cent of the total. Quebec, in second position, produced 25 per cent and Northwest Territories accounted for 7 per cent of the total. The other provinces ranked in the following order: British Columbia, Manitoba, Saskatchewan, Yukon, Newfoundland, Nova Scotia and Alberta.

The price of gold in Canadian funds averaged \$34.52 per troy ounce. It ranged from \$33.79 per troy ounce in January, 1955, to \$35.01 per troy ounce in December. The fluctuations were due to foreign exchange rates. The Royal Canadian Mint purchased gold on the basis of \$(U.S.) 35.00 per troy ounce. The United States dollar was quoted at a discount, except for two weeks during the year.

The assistance, which was payable to the gold mines through the Emergency Gold Mining Assistance Act, was approximately \$8,091,000 in 1955 compared with \$16,302,000 in 1954.

TABLE 1. Production of Gold, Fifty Years, 1906-1955

Year	Fine ounces	\$	Year	Fine ounces	\$
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	64,350,237
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	916,056	16,977,901	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	140,575,068
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	35,860,826	1950	4,441,227	168,988,687
1926	1,754,228	36,263,110	1951	4,392,751	161,872,873
1927	1,852,785	38,300,464	1952	4,471,725	153,246,016
1928	1,890,592	39,082,005	1953	4,055,723	139,597,985
1929	1,928,308	39,861,663	1954	4,366,440	148,764,611
1930	2,102,068	43,453,601	1955	4,541,962	156,788,528

TABLE 2. Total (Cumulative) Recorded Production of Specified Metals to December 31, 1955

	Since		Quantity	Value
				\$
Gold	1858	troy ounces	134,820,210	4,191,007,693
Silver	1887	"	1,111,633,398	681,383,563
Copper	1886	tons	7,686,865	2,531,895,646
Nickel	1889	"	3,670,716	2,472,081,014
Lead	1887	"	6,230,374	892,138,199
Zinc	1898	"	...	1,206,545,110
Cobalt	1904	tons	23,676	62,251,749

TABLE 3. Production of Gold from Auriferous Quartz and Base Metal Mines, by Months, 1953-1955

	Gold production from base metal mines			Gold production from auriferous quartz mines and placer deposits			Gold production from all types of mines		
	1953	1954	1955	1953	1954	1955	1953	1954	1955
	Troy ounces								
January	47,907	19,330	49,059	322,225	274,670	317,116	370,132	294,000	366,175
February	42,660	24,940	44,190	309,151	286,713	306,382	351,811	311,653	350,572
March	52,238	43,043	40,265	325,799	326,307	331,619	378,037	369,350	371,884
April	47,492	43,903	48,422	321,117	313,936	321,444	368,609	357,839	369,866
May	47,740	52,086	49,266	319,710	331,470	334,198	367,450	383,556	383,464
June	47,737	52,890	51,412	313,460	324,384	321,666	361,197	377,274	373,078
July	49,346	54,933	51,576	317,859	325,952	332,884	367,205	380,885	384,460
August	37,566	52,433	56,211	290,114	317,001	329,506	327,680	369,434	385,717
September	35,210	49,383	55,096	298,377	324,427	339,216	333,587	373,810	394,310
October	21,315	47,766	49,438	262,633	331,121	345,764	283,948	378,887	395,202
November	21,705	49,263	49,768	250,684	336,087	338,272	272,389	385,350	388,040
December	17,775	47,944	52,514	255,903	336,458	326,678	273,678	384,402	379,192
Total	468,691	537,914	597,217	3,587,032	3,828,526	3,944,745	4,055,723	4,366,440	4,541,962

TABLE 4. Production of Gold¹, by Provinces, 1946-1955

Year	Newfoundland		Nova Scotia		Quebec		Ontario		Manitoba	
	Troy ounces	\$	Troy ounces	\$	Troy ounces	\$	Troy ounces	\$	Troy ounces	\$
1946			4,321	158,797	618,339	22,723,958	1,813,333	66,639,988	79,402	2,916,024
1947			1,271	44,485	598,127	20,934,445	1,944,819	68,068,665	72,906	2,551,710
1948	2		188	6,580	770,625	26,971,875	2,095,377	73,338,195	106,176	3,716,160
1949	9,269	333,684	64	2,304	964,184	34,710,624	2,354,509	84,762,324	137,399	4,946,364
1950	9,254	352,115	65	2,473	1,094,645	41,651,242	2,481,110	94,406,236	191,725	7,295,136
1951	8,515	313,776	17	626	1,067,306	39,330,226	2,463,179	90,768,146	163,914	6,040,231
1952	8,595	294,551	1,433	49,109	1,113,204	38,149,501	2,513,691	86,144,910	141,947	4,864,524
1953	7,654	263,451	3,248	111,796	1,021,698	35,166,845	2,182,437	75,119,481	131,309	4,519,656
1954	6,528	222,409	3,754	127,899	1,098,570	37,428,280	2,361,385	80,452,387	134,944	4,597,542
1955	6,337	218,753	3,880	133,938	1,154,522	39,854,099	2,523,040	87,095,340	123,888	4,276,614
	Saskatchewan		Alberta		British Columbia		Northwest Territories		Yukon	
1946	112,101	4,119,712	110	4,042	136,242	5,006,893	23,420	860,685	45,286	1,664,260
1947	93,747	3,281,145	78	2,730	249,011	8,715,385	82,517	2,188,095	47,745	1,671,075
1948	87,927	3,077,445	78	2,730	306,998	10,744,930	101,625	3,556,875	60,614	2,121,490
1949	94,208	3,391,488	115	4,140	304,307	10,955,052	177,493	6,369,748	81,970	2,950,920
1950	79,784	3,035,781	152	5,784	290,490	11,053,144	200,663	7,635,227	93,339	3,551,549
1951	110,216	4,061,460	97	3,574	289,992	10,686,205	212,211	7,819,975	77,504	2,856,022
1952	93,585	3,207,158	111	3,804	273,059	9,357,732	247,581	8,484,601	78,519	2,690,846
1953	88,327	3,040,215	65	2,237	264,976	9,120,474	289,929	9,979,356	66,080	2,274,474
1954	101,785	3,467,815	195	6,644	268,508	9,148,068	308,563	10,512,741	82,208	2,800,826
1955	83,580	2,885,182	214	7,387	252,979	8,732,835	321,321	11,092,001	72,201	2,492,379

1. From all sources.

2. Newfoundland joined confederation in 1949.

TABLE 5. Production of Gold, by Provinces, According to Nature of Ores, 1954 and 1955

Year and province	Placer gold	Auriferous quartz ores	Copper-gold-silver ores	Nickel-copper ores	Silver-lead and other ores	Total
Troy ounces						
1954						
Newfoundland	—	—	—	—	6,528	6,528
Nova Scotia	—	162	—	—	3,572	3,754
Quebec	16	792,449	284,739	—	21,366	1,098,570
Ontario	—	2,315,211	439	45,735	—	2,361,385
Manitoba	—	111,648	22,623	673	—	134,944
Saskatchewan	1	—	101,784	—	—	101,785
Alberta	195	—	—	—	—	195
British Columbia	7,105	210,948	19,980	—	30,475	268,508
Northwest Territories	46	308,517	—	—	—	308,563
Yukon	82,208	—	—	—	—	82,208
Canada	89,571	3,738,955	429,565	46,408	61,941	4,366,440
1955						
Newfoundland	—	—	—	—	6,337	6,337
Nova Scotia	—	128	—	—	3,752	3,880
New Brunswick	—	—	—	—	—	—
Quebec	—	769,928	366,150	—	18,444	1,154,522
Ontario	—	2,475,938	863	46,133	106	2,523,040
Manitoba	—	99,366	23,759	763	—	123,888
Saskatchewan	—	13	83,567	—	—	83,580
Alberta	214	—	—	—	—	214
British Columbia	6,206	199,430	17,967	—	29,376	252,979
Northwest Territories	—	321,321	—	—	—	321,321
Yukon	72,201	—	—	—	—	72,201
Canada	78,621	3,866,124	492,306	46,896	58,015	4,541,962

TABLE 6. Gold Production by Provinces and Principal Areas, 1953-1955

Province and area	1953		1954		1955	
	Troy ounces	\$	Troy ounces	\$	Troy ounces	\$
Newfoundland.....	7,654	263,451	6,528	222,409	6,337	218,753
Nova Scotia	3,248	111,796	3,754	127,899	3,880	133,938
Quebec:						
Gold mines	764,703	26,321,077	792,465	26,999,283	769,928	26,577,914
Base metal mines	256,995	8,845,768	306,105	10,428,997	384,594	13,276,185
Total Quebec	1,021,698	35,166,845	1,098,570	37,428,280	1,154,522	39,854,099
Ontario:						
Gold mines:						
Porcupine	876,814	30,179,938	1,038,919	35,395,970	1,074,916	37,106,100
Kirkland Lake	404,901	13,936,692	392,787	13,382,253	393,294	13,576,509
Larder Lake	334,247	11,504,782	363,139	12,372,146	427,193	14,746,702
Matachewan	31,173	1,072,975	30,671	1,044,961	29,806	1,028,903
Sudbury	41,265	1,420,341	42,728	1,455,743	38,046	1,313,348
Thunder Bay	113,713	3,914,001	96,365	3,283,156	102,806	3,548,863
Patricia	340,113	11,706,690	350,576	11,944,124	409,820	14,146,986
Other mines	40,211	1,384,062	46,200	1,574,034	47,159	1,627,929
Total Ontario	2,182,437	75,119,481	2,361,385	80,452,387	2,523,040	87,095,340
Manitoba:						
Gold mines	108,370	3,730,096	111,648	3,603,847	99,366	3,430,114
Other mines	22,939	789,560	23,296	793,695	24,522	846,500
Total Manitoba	131,309	4,519,656	134,944	4,597,542	123,888	4,276,614
Saskatchewan:						
Gold mines	—	—	1	34	13	449
Other mines	88,327	3,040,215	101,784	3,467,781	83,567	2,884,733
Total Saskatchewan	88,327	3,040,215	101,785	3,467,815	83,580	2,885,182
Alberta (placer)	65	2,237	195	6,644	214	7,387
British Columbia:						
Gold mines (lode)	204,045	7,023,229	210,948	7,186,998	199,430	6,884,324
Gold mines (placer)	11,360	391,011	7,105	242,068	6,206	214,231
Other mines	49,571	1,706,234	50,455	1,719,002	47,343	1,634,280
Total British Columbia	264,976	9,120,474	268,508	9,148,068	252,979	8,732,835
Northwest Territories:						
Gold mines and placer	289,929	9,979,356	308,563	10,512,741	321,321	11,092,001
Yukon (chiefly placer)	66,080	2,274,474	82,208	2,800,826	72,201	2,492,379
Total Canada	4,055,723	139,597,985	4,366,440	148,764,611	4,541,962	156,788,528

TABLE 7. Production of Gold and Silver by Principal Mines, 1955

Mine and province	Ore hoisted	Material sorted (discarded)	Ore treated	Gold produced	Silver produced	Mill capacity—24 hours	See foot-notes
	Tons			Troy ounces		Tons	
Newfoundland:							
Base metal ores .....	...	...	...	6,337	701,792	...	...
Nova Scotia:							
Base metal ores and Mint receipts .....	...	...	...	3,880	262,067	...	...
New Brunswick:							
Base metal ores .....	...	...	...	—	25,087	...	...
Quebec:							
Barnat	213,212	—	212,823	55,598	542	600	1
Beattie-Duquesne	564,750	—	564,750	49,399	13,737	1,800	1
Belleville Quebec	124,012	—	123,867	33,791	5,045	350	1
Bevcon	261,505	—	260,829	29,516	1,020	800	1
Canadian Malartic	469,431	—	469,431	46,841	18,297	1,300	1
Donalda	81,645	16,917	64,446	10,191	9,763	300	1
East Malartic	540,910	—	540,910	91,666	15,748	1,500	1
Elder	154,684	—	...	25,873	—	—	2
Eldrich	1,608	—	...	250	—	—	2
Lamaque	736,425	—	736,425	128,751	22,134	2,000	1
Malartic Goldfields	671,866	—	671,866	113,402	6,201	1,500	1
New Senator-Rouyn	80,067	—	80,067	7,077	1,700	600	1
O'Brien	70,055	—	71,385	22,201	1,285	200	1
Powell Rouyn	180,092	—	...	14,779	—	—	2
Sigma	407,157	—	407,157	75,208	15,115	1,100	1
Stadacona	139,999	—	139,999	21,678	8,175	400	1
Sullivan Consolidated	204,834	28,922	175,912	43,453	10,469	500	1
Total for principal gold mines in Quebec .....	...	...	...	769,314	129,231	...	...
Copper-gold and other ores .....	...	...	...	385,208	4,657,464	...	...
Total Quebec .....	...	...	...	1,154,522	4,786,695	...	...

TABLE 7. Production of Gold and Silver by Principal Mines, 1955 - Concluded

Mine and province	Ore hoisted	Material sorted (discarded)	Ore treated	Gold produced	Silver produced	Mill capacity—24 hours	See foot-notes
	Tons			Troy ounces		Tons	
Ontario:							
Porcupine District							
Aunor	180,271	—	180,271	69,886	4,956	300	1
Broulan Reef.....	149,484	—	149,484	36,039	2,885	700	1
Coniaurum	128,870	—	128,870	28,054	5,110	500	1
Delnte	158,628	—	158,710	38,281	2,937	520	1
Dome	711,800	—	711,800	170,620	31,179	1,975	1, 3
Hallnor	134,922	—	134,922	48,544	3,539	400	1
Hollinger (Timmins)	1,037,843	—	1,034,549	273,441	51,501	3,900	1
Hollinger (Ross)	107,475	—	107,501	19,746	30,995	360	1
Hugh-Pam	45,857	—	...	11,831	—	—	4
McIntyre	810,420	—	810,420	217,378	47,514	2,400	1
Pamour	635,984	—	635,984	52,235	4,973	1,700	1
Paymaster	167,036	—	165,480	39,890	8,192	600	1
Preston East Dome	245,570	—	245,410	68,937	7,675	800	1, 3
Kirkland Lake District							
Kirkland Lake Gold	113,839	—	113,839	32,101	3,118	400	1
Lake Shore	236,494	—	236,494	89,159	35,788	1,500	1
Macassa	142,860	—	142,860	60,290	8,523	400	1
Sylvanite	172,296	—	171,296	53,751	8,072	600	1
Teck Hughes	224,675	—	224,675	33,723	6,845	650	1
Upper Canada	200,257	—	200,257	45,903	21,369	500	1
Wright-Hargreaves	190,540	—	190,540	78,367	16,035	750	1
Larder Lake District							
Kerr Addison	1,663,329	—	1,660,533	427,193	23,490	4,000	1
Matatchewan District							
Young Davidson	312,726	—	312,985	29,806	8,615	1,050	1
Sudbury District							
Renable	165,681	—	165,656	38,046	11,840	450	1
Thunder Bay District							
Letch	51,032	11,598	41,133	35,302	1,291	120	1, 3
MacLeod-Cockshutt	599,985	—	600,810	67,467	6,846	1,700	1
Patricia District							
Campbell Red Lake	276,909	40,577	236,332	125,633	9,214	600	1, 3
Cochonour Willans	68,521	—	68,521	35,583	1,303	200	1, 3
Madsen Red Lake	295,713	—	295,713	104,867	19,853	800	1, 3
McKenzie Red Lake	87,850	11,405	76,445	19,924	11,622	240	1
New Dickenson	144,852	—	144,261	66,663	5,882	400	1, 3
Pickle Crow	123,855	869	124,240	48,293	5,942	400	1, 3
Starratt Olson	63,990	—	64,090	10,811	635	500	1
Total for principal gold mines in Ontario .....	...	...	...	2,475,764	407,539	...	...
Nickel-copper and other mines .....	...	...	...	47,276	5,643,478	...	...
Total Ontario .....	...	...	...	2,523,040	6,051,017	...	...
Manitoba:							
Forty-Four Mines Ltd.	49,232	—	...	9,614	1,615	...	5
Britannia	611,732	—	611,732	66,151	5,291	2,000	1
San Antonio	125,352	—	125,399	31,600	5,274	500	1, 3
Copper-gold and other ores .....	...	...	...	16,523	442,348	...	...
Total Manitoba .....	...	...	...	123,888	454,528	...	...
Saskatchewan:							
Copper-gold and alluvial ores .....	...	...	...	83,580	1,230,179	...	...
Alberta:							
Alluvial gold .....	...	...	...	214	21	...	...
British Columbia:							
Bralorne	166,831	—	166,831	65,525	13,972	500	3
Cariboo Gold Quartz	108,652	—	108,652	41,464	3,989	375	1
Kelowna Mines Hedley (French and nickel plate)	93,822	—	93,822	38,521	3,536	325	1
Pioneer	96,725	7,662	89,063	53,920	10,880	325	1
Total for principal gold mines in British Columbia .....	...	...	...	199,430	32,377	...	...
Placer gold .....	...	...	...	6,206	1,004	...	...
Copper-gold and other ores .....	...	...	...	47,343	8,668,741	...	...
Total British Columbia .....	...	...	...	252,979	8,702,122	...	...
Northwest Territories:							
Consolidated Mining and Smelting (Con Mine)	169,478	—	169,478	80,302	22,073	450	1, 3
Consolidated Mining and Smelting (Rycon Mine)	651	—	...	200	53	...	6
Consolidated Discovery Yellowknife	38,693	2,990	35,703	66,742	6,682	100	1
Giant Yellowknife	388,448	100,137	290,039	174,077	28,371	825	1, 3
Other ores .....	...	...	...	—	1,298	...	...
Total Northwest Territories .....	...	...	...	321,321	58,477	...	...
Yukon:							
Placer and silver-lead ores .....	...	...	...	72,201	5,712,219	...	...
Total Canada .....	...	...	...	4,541,962	27,984,204	...	...

1. Cyanidation.
2. Shipped to smelter.

3. Amalgamation process.
4. Shipped to Broulan Reef mill.

5. Treated at San Antonio mill.
6. Treated at Con mill.

TABLE 8. Gold Production of the World¹ - 1951-1955 (Taken from the Annual Report of the American Bureau of Metal Statistics)

Country	1951	1952	1953	1954	1955
	Fine ounces				
North America:					
United States	1,996,493	1,937,818	1,990,149	1,867,296	1,890,783
Canada	4,392,751	4,471,725	4,055,723	4,366,440	4,544,802
Mexico	393,420	459,391	458,808	386,925	382,874
Total North America	6,782,664	6,868,934	6,504,680	6,620,661	6,818,459
Central America and West Indies	313,600	315,500	333,900	258,600	
South America:					
Brazil ³	135,837	136,764	115,869	119,984	111,500
British Guiana	14,689	24,223	20,966	26,938	23,766
Chile	174,864	177,050	130,690	124,967	122,877
Colombia	430,723	422,240	437,297	377,467	380,828
Ecuador	12,683	24,267	29,239	16,900	13,805
French Guiana	12,056	8,231	2,576	1,512	—
Peru	158,270	130,944	128,211	147,424	160,310
Surinam	6,494	6,134	6,482	6,780	7,210
Venezuela	2,861	4,797	27,304	56,074	61,140
Total South America, as reported	948,477	934,650	898,634	878,046	
Europe	300,000	400,000	400,000	400,000	
Australia:					
New South Wales	48,910	39,030	26,461	31,374	29,744
Queensland	78,580	85,756	91,887	97,951	64,294
Victoria	66,063	68,777	63,917	52,665	38,552
Western Australia	648,245	727,469	823,062	861,992	834,326
Tasmania	14,446	10,072	16,988	19,368	16,882
Other Australia	39,307	45,331	52,866	54,392	65,161
Total Australia (Commonwealth)	895,551	980,435	1,075,181	1,117,742	1,048,959
New Guinea	94,082	127,431	120,787	86,728	74,853
New Zealand	75,115	59,373	38,656	41,713	26,443
Fiji	93,635	78,282	76,970	72,200	70,100
Total Oceania	262,832	265,086	236,413	200,641	171,396
Asia:					
India	226,233	253,264	223,013	240,712	211,461
Japan	177,472	201,392	256,590	251,616	241,279
Korea, Republic of	1,000	15,657	15,860	52,250	47,037
Philippines Republic	393,602	469,408	480,625	416,052	419,112
Saudi Arabia	73,104	69,394	81,566	128	
Taiwan (Formosa)	30,500	33,178	24,821	21,541	
Malaya	17,018	19,806	18,283	20,955	22,838
Total Asia	918,929	1,062,099	1,100,758	1,003,254	
Africa:					
Bechuanaland	493	1,245	1,109	1,216	
Belgian Congo	352,302	368,749	371,011	365,481	369,913
Ethiopia	33,938	27,291	26,696	33,894	
French Cameroons	5,420	2,604	1,029	685	518
French Equatorial Africa	52,848	51,504	54,173	45,299	46,553
Gold Coast	698,676	691,460	730,936	787,057	681,208
Kenya	19,765	10,210	9,590	6,607	9,528
Liberia	9,806	949	863	1,135	672
Madagascar	1,961	1,788	1,640	1,363	981
Nigeria	1,566	1,349	689	730	
Sierra Leone	3,292	2,591	3,585	286	
Southern Rhodesia	486,907	496,731	501,057	535,852	524,701
Tanganyika (exports)	65,583	64,693	69,886	71,447	68,892
Uganda	223	181	572	568	450
Union of South Africa	11,516,450	11,818,681	11,940,615	13,237,111	14,093,668
Total Africa, as reported	13,248,230	13,540,006	13,713,451	15,088,731	
Russia ⁴	9,500,000	9,500,000	9,000,000	9,000,000	
Total world, as reported	33,170,283	33,866,710	33,263,017	34,567,675	
Estimated world total²	33,500,000	34,300,000	33,700,000	35,100,000	

1. In compiling this table, free use has been made of the reports of the Director of the Mint, the U.S. Bureau of Mines and other publications.

2. This estimate includes the following countries which also produce gold: Angola, Argentina, Austria, Bolivia, Bulgaria, Burma, China, Czechoslovakia, Egypt, Sarawak, South West Africa, Sudan and Thailand, from whom definitive figures are not available.

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

4. Conjectural.

TABLE 9. Gold Production According to Method of Computation and Recovery, 1946-1955

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
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
1951	2.19	81.86	0.33	12.20	3.42	4,392,751
1952	2.08	83.22	0.39	11.37	2.94	4,471,725
1953	1.91	84.11	0.25	9.77	3.96	4,055,723
1954	2.05	83.14	0.34	11.18	3.29	4,366,440
1955	1.73	83.10	0.16	12.15	2.86	4,541,962

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 10. Estimated Average Monthly Value of an Ounce of Fine Gold, Expressed in Canadian Funds, 1939-1955

Month	1939	1940-1945	1946	1947-1948	1949 ¹	1950	1951	1952	1953	1954	1955
	Dollars										
January	35.30	38.50	38.50	35.00	35.00	38.50	36.81	35.19	33.97	34.05	33.81
February	35.19	38.50	38.50	35.00	35.00	38.50	36.73	35.03	34.20	33.83	34.19
March	35.13	38.50	38.50	35.00	35.00	38.50	36.65	34.85	34.44	33.98	34.45
April	35.13	38.50	38.50	35.00	35.00	38.50	37.07	34.34	34.43	34.39	34.52
May	35.13	38.50	38.50	35.00	35.00	38.50	37.25	34.43	34.79	34.45	34.51
June	35.07	38.50	38.50	35.00	35.00	38.50	37.42	34.26	34.80	34.34	34.45
July	35.06	38.50	35.35	35.00	35.00	38.50	37.12	33.93	34.72	34.10	34.46
August	35.01	38.50	35.00	35.00	35.00	38.50	36.96	33.65	34.59	33.96	34.48
September	37.21	38.50	35.00	35.00	36.52	38.50	36.94	33.59	34.45	33.94	34.57
October	38.43	38.50	35.00	35.00	38.50	36.86	36.78	33.75	34.39	33.94	34.84
November	38.50	38.50	35.00	35.00	38.50	36.43	36.53	34.17	34.22	33.93	34.98
December	38.50	38.50	35.00	35.00	38.50	36.83	35.89	33.97	34.06	33.88	34.98
Yearly average	36.14	38.50	36.75	35.00	36.00	38.05	36.85	34.27	34.42	34.07	34.52

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

TABLE 11. Precious Metals Consumed by the Jewellery and Silverware Industry, 1951-1954

Material	Cost at works			
	1951	1952	1953	1954
	\$	\$	\$	\$
Fine gold	7,999,071	4,016,040	4,430,535	4,200,491
Gold alloys	724,585	1,117,833	1,332,022	1,058,150
Fine silver	4,222,994	2,986,857	3,356,649	3,043,831
Silver alloys and sterling	3,731,996	2,637,240	3,342,133	1,924,483
Platinum	909,699	710,611	1,142,002	1,016,684
Old gold, jewellers' findings, waste and scrap refining	2,475,768	1,910,567	2,303,876	2,066,522
Gold-filled wire and stock	152,601	310,413	223,856	137,150
Precious and semi-precious stones	2,155,727	2,478,179	3,065,499	2,902,340

EMERGENCY GOLD MINING ASSISTANCE ACT

(Taken from the "Report on the Administration of the Emergency Gold Mining Assistance Act" of the Department of Mines and Technical Surveys)

Summary of Operations for the Year 1955-1956

The operation of the Emergency Gold Mining Assistance Act terminated on December 31, 1954. At that time a review of the conditions facing the gold mining industry indicated that it would be advisable to extend the Act for the years 1955 and 1956.

Legislation was presented to Parliament early in 1955 to implement this decision and by Chapter 19, 3-4 Elizabeth II, 1955, which received Royal Assent on May 26, 1955, this Act was extended to cover the calendar years 1955 and 1956. Payments under the Act for these two years are based on a revised formula.

Certain modifications to the application forms were approved by Order in Council P.C. 1956-11, dated January 5, 1956, in order that they would conform to the most recent amendments to the Act. A new office consolidation of the Act and Regulations was prepared in 1955 and published in April, 1956. The consolidation incorporates all legislation pertaining to the Act in force prior to February, 1956.

Applications for assistance were received from 47 gold mines with respect to the calendar year 1955. The bulk of the lode gold mines which are expected to apply for assistance in that year are included in this total. Only three applications were processed for placer mines and it is estimated an additional 15-20 of these operators will apply for assistance before the end of June, 1956, which is the expiry date for such applications.

The estimated total assistance payable in respect of gold produced and sold under the provisions of the Act in 1955 as now calculated is \$9,300,000. The actual assistance paid in respect of the applications received prior to March 31, 1956, is \$6,472,843.00, which is 80 per cent of the assistance payable. The remaining 20 per cent is payable when the books of the companies have been audited by the Cost Inspection and Audit Division of the Office of the Comptroller of the Treasury.

The final audit for the calendar year 1954 has been completed with the exception of three applications. A total of \$16,008,472.65 has been actually paid with respect to this year and it now appears that when the holdbacks are completed that the final figure will be approximately \$16,301,000 or \$200,000 under the original estimate of \$16,500,000.

In 1955 five lode gold mines suspended operations and one other mine was absorbed by the parent company. One new lode mine came into production in 1955. One mine elected to sell its production

on the free market during 1955 and was, therefore, ineligible for assistance. No mines were on the free market in 1954.

The gold mining industry continued to face difficult economic problems although a small amount of relief was experienced due to the narrowing of the exchange rate differential between the United States and Canadian dollars. The average price per ounce of gold paid by the Royal Canadian Mint in 1955 was \$34.52 compared with \$34.07 in 1954. A few mines were able to improve their positions in 1955 due, mainly, to the finding of better grades of ore.

Method of Calculating Assistance Payments for the Calendar Year 1955

A mine to be classified as a gold mine within the meaning of this Act and thereby become eligible for assistance must fulfil the following conditions:

- (1) The value of the gold produced must be 70 per cent or more of the total value of the output of the mine.
- (2) The mine or operation must produce at least 50 troy ounces of gold in a designated year.
- (3) Ore reserves of commercial significance must be developed and there must be a possibility of attaining production of gold on a commercial basis within a reasonable time.
- (4) New mines to be eligible must be declared in production within the meaning of Section 83(5) of the Income Tax Act.

The basic factors affecting the amount of assistance payable are the costs of production and the number of ounces produced. For the purposes of this Act the cost of production of gold from a mine is the cost properly attributable to the gold produced from the mine during the year and includes mining, milling, smelting, refining, transportation, and administration costs and amounts in respect of depreciation, amortization, pre-production costs, deferred development expenditures, and costs of exploration and development, as determined in accordance with the Regulations.

The assistance payable to a mine in respect of gold produced and sold in a designated year is the product of the "rate of assistance" and the "assistance ounces". The factor "rate of assistance" applied during the designated year 1955 was two-thirds of the amount by which the average cost of production of an ounce of gold exceeded \$26.50, the maximum "rate of assistance" being \$12.33.

The term "assistance ounces" applied in the calculations for the designated year 1955 was two-thirds of the production of the mine during the year. The expression "base year" which was used to calculate the "assistance ounces" in the seven previous years of the operation of the Act was eliminated entirely for 1955.

Sale of Gold on the Premium Market

The Mint Custom Refining and Storing Regulations, as prescribed by Order in Council P.C. 1954-1619, dated October 28, 1954, and as amended by Order in Council P.C. 1955-649, dated May 5, 1955, extended to the gold mines the opportunity to sell their production on the premium market, subject to the terms of the Gold Export Act. These regulations, as applied to the calendar year 1955, stipulate that the mines could elect within thirty days of the commencement of any quarter of the year to sell their production on the premium market. However, this election could have been terminated on June 30, or December 31 of that year on thirty days notice in writing to the Minister of Finance, but the election would continue in force until so terminated.

Under the terms of The Emergency Gold Mining Assistance Act gold mines electing to sell their production on the premium market are not entitled to receive assistance during the elected period. They do become eligible again however during those portions of the year in which they do not sell on the premium market.

In 1955 one gold mine elected to sell all of its production on the premium market. None elected to do so in 1954, five elected in 1953 and 13 in 1952.

Act and Regulations

- (1) The Act received Royal Assent on May 14, 1948, and came into force by proclamation on June 15, 1948.
- (2) The Regulations made by the Governor in Council under the authority of Section 6 of the Act were approved by Order in Council, P.C. 2664, June 11, 1948.

Amendments to the Act

- (3) Chapter 20, 13 George VI (Second Session), received Royal Assent, December 10, 1949.
- (4) Chapter 49, 15 George VI (First Session), received Royal Assent, June 30, 1951.
- (5) Chapter 25, 1 Elizabeth II, received Royal Assent, June 18, 1952.
- (6) Chapter 32, 2 Elizabeth II, received Royal Assent, May 14, 1953.
- (7) Chapter 26, 2-3 Elizabeth II, received Royal Assent, March 31, 1954.
- (8) Chapter 19, 3-4 Elizabeth II, received Royal Assent, May 26, 1955.

Amendments to the Regulations

- (9) Order in Council, P.C. 1753, April 12, 1950.
- (10) Order in Council, P.C. 3925, July 31, 1951.
- (11) Order in Council, P.C. 1954-379, March 19, 1954.
- (12) Order in Council, P.C. 1954-863, June 10, 1954.
- (13) Order in Council, P.C. 1956-11, January 5, 1956.

TABLE 12. Emergency Gold Mining Assistance Act — Estimated Assistance Payable

Province	1949	1950	1951	1952	1953	1954	1955
Dollars							
Quebec	3,470,791	2,568,400	2,743,144	2,814,226	4,199,408	4,132,767	2,475,113
Ontario	5,868,450	4,048,652	5,590,635	5,579,649	7,154,505	8,700,203	4,182,665
Manitoba	784,474	597,013	469,927	379,003	454,694	580,741	618,758
British Columbia	1,109,890	844,502	736,682	782,155	1,046,076	1,036,677	431,128
Northwest Territories	968,846	750,900	927,415	1,011,211	1,408,134	1,483,692	344,543
Yukon	366,693	181,505	258,378	252,736	389,263	367,839	38,847
Canada	12,569,144	8,990,972	10,726,181	10,818,980	14,652,080	16,301,919	8,091,054

THE ALLUVIAL GOLD MINING INDUSTRY

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

In 1955 a total of 78,621 troy ounces of fine gold were recovered from crude gold obtained from Canadian alluvial deposits. This represented a decrease of 12 per cent from the preceding year. Reviewing the past twenty years, it is noted that the peak of production of placer gold occurred in 1939, and that the lowest annual output was in 1944.

Quebec — After many years of no production there was a recorded output of 38 ounces in 1951 and 39 ounces in 1952, none in 1953, 16 ounces in 1954 and nil in 1955.

Saskatchewan and Alberta — The small amount of gold, considered as being placer in origin, received at the Royal Canadian Mint, Ottawa, is assumed to have come from along the North Saskatchewan River. There has been activity in this district, 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 1955 were made chiefly from deposits located in the Atlin and Cariboo districts. Output was estimated at 6,206 fine ounces.

Yukon — Over 90 per cent of the placer gold recovered in Canada during 1955 was found in the creeks of the Yukon. Production in 1955 totalled 72,201 fine ounces.

The placer gold industry employed an average of 345 persons to whom \$1,480,868 were paid in wages and salaries. Fuel and electricity cost \$122,882; electricity generated for own use was 21,959,500 kwh. and the electricity for sale was 6,588,600 kwh. Process supplies were valued at \$98,278. Freight and express on shipments amounted to \$41,912 and \$21,439 were paid for treatment and marketing.

TABLE 13. Principal Statistics for Alluvial Gold Mining, Significant Years, 1921-1955

Year	Establishments	Employees	Earnings	Cost of fuel and electricity	Process supplies and containers	Gross value of products	Net value ¹ of production
	No.	No.	\$	\$	\$	\$	\$
1921	197	428	671,783	N.A.	N.A.	1,576,222	N.A.
1929	68	488	586,193	2,969	"	836,006	"
1931	109	337	682,935	41,745	"	1,226,541	"
1933	74	454	704,151	35,165	"	1,218,250	"
1937	109	1,069	1,689,911	99,072	77,488	3,243,196	3,066,636
1939	104	830	1,439,765	119,692	90,610	4,523,587	4,204,974
1941	110	797	1,954,278	155,518	68,489	4,132,503	3,800,142
1944	47	211	598,556	43,591	13,702	1,281,125	1,197,021
1946	39	340	1,112,984	84,206	46,870	1,849,511	1,693,568
1949	56	398	1,509,423	88,614	455,371	3,499,823	2,920,290
1951	47	362	1,553,103	44,678	507,830	3,572,516	2,951,342
1952	39	361	1,638,672	33,298	417,153	3,181,730	2,662,952
1953	56	306	1,372,504	75,791	133,697	2,137,321	1,878,310
1954	62	351	1,619,460	146,300	253,128	3,051,665	2,575,038
1955	64	345	1,480,868	122,882	98,278	2,728,106	2,443,595

1. Gross value less fuel, electricity, process supplies, freight and treatment charges.

TABLE 14. Alluvial Gold Recovered and Quantity of Material Handled¹, 1946-1955

Year	British Columbia				Yukon				Canada
	Material handled ²	Gold recovered ³	Ounces per cu. yd.	Value per cu. yd.	Material handled ²	Gold recovered ³	Ounces per cu. yd.	Value per cu. yd.	
	cu. yd.	Fine ounces		\$	cu. yd.	Fine ounces		\$	
1946	428,603	15,530	0.0362	1.3303	5,917,740	45,283	0.0076	0.2793	60,925
1947	478,667	5,732	0.0120	0.4191	7,054,753	47,629	0.0067	0.2365	53,519
1948	1,692,585	18,133	0.0107	0.3750	7,813,499	60,606	0.0078	0.2715	78,821
1949	1,696,363	14,497	0.0085	0.3074	9,263,700	81,970	0.0088	0.3185	96,614
1950	494,066	14,632	0.0296	1.1263	7,860,497	93,339	0.0116	0.4400	108,143
1951	335,487	18,802	0.0560	2.0636	7,266,422	77,504	0.0107	0.3942	96,441
1952	270,656	7,950	0.0294	1.0075	6,727,353	92,789	0.0138	0.4729	92,843
1953	597,073	11,360	0.0199	0.6850	5,155,826	66,080	0.0140	0.4832	77,505
1954	233,114	7,105	0.0305	1.0390	6,889,820	82,208	0.0119	0.4065	89,571
1955	110,594	6,206	0.0561	1.9365	6,379,755	72,201	0.0113	0.3992	78,621

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).

TABLE 15. Employees and Their Earnings in the Alluvial Gold Mining Industry, 1951-1955

Year	Number of employees ¹					Number of man-hours worked	Earnings		
	Administration		Workmen		Total		Admin-istration	Workmen	Total
	Male	Female	Male	Female					
							\$	\$	\$
1951	13	—	342	7	362	1,546,917	68,170	1,484,933	1,553,103
1952	11	3	333	8	341	1,071,381	98,073	1,540,599	1,638,672
1953	4	3	290	9	306	856,399	46,395	1,326,109	1,372,504
1954	11	—	330	10	351	799,744	35,851	1,583,609	1,619,460
1955	14	2	321	8	345	746,727	53,475	1,427,393	1,480,868

1. Several placer deposits are operated by partnerships which have no employees.

THE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA

The gold quartz mining industry produced, during 1955, minerals valued at \$134,476,377 compared with \$127,644,959 in the preceding year. The total valuation included gold, silver, copper and other recoverable metals found in the gold ores.

The average number of employees was 18,032 whose earnings amounted to \$63,961,744. Fuel cost \$1,315,047 and 996,954,367 kwh. of electricity were purchased for \$5,765,878. Process supplies, which included explosives, chemicals, dull steel, etc., cost \$24,496,662. Electricity generated for own use was 29,909,507 kwh. and generated for sale was 1,472,708 kwh.

The greater part of Canada's gold comes from the Canadian Shield, an immense area of precam-

brian 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.

TABLE 16. Principal Statistics for the Auriferous Quartz Mining Industry, Significant Years, 1921-1955

	Establish-ments	Employees	Earnings	Cost of fuel and electricity	Cost of process supplies	Gross value of products	Net ² value of production
	No.	No.	\$	\$	\$	\$	\$
1921	59	3,889	6,072,318	1,154,606	N.A.	16,689,784	N.A.
1929	85	8,660	14,258,733	2,579,481	"	37,275,986	"
1931	69	9,636	16,467,165	2,700,326	"	49,144,578	"
1933	216	12,823	20,536,012	3,330,137	"	69,151,535	"
1937	689	29,140	48,219,318	7,345,401	16,230,722	122,676,103	97,961,278
1939	474	30,622	53,206,225	7,952,580	19,484,870	160,014,172	129,633,245
1941	357	32,551	62,150,810	8,462,618	21,066,900	179,103,182	145,978,833
1944	262	17,226	37,023,505	5,895,117	11,174,746	94,263,416	75,234,384
1946	686	21,973	47,211,062	6,259,876	14,401,904	88,422,683	66,342,152
1949	247	22,358	61,293,334	7,307,153	23,251,874	129,550,461	96,580,304
1951	211	22,126	68,739,531	7,791,586	26,677,361	136,703,452	100,059,503
1952	216	20,757	69,004,828	7,591,979	25,574,869	134,996,056	100,083,506
1953	173	18,751	60,920,362	6,876,895	22,670,232	122,381,725	91,408,605
1954	157	18,479	63,578,156	6,987,528	23,639,788	127,644,959	95,627,104
1955	136	18,032	63,961,744	7,080,925	24,496,662	134,476,377	101,382,077

2. Gross value less fuel, electricity, process supplies, freight and treatment charges.

TABLE 17. Principal Statistics for the Auriferous Quartz Mining Industry, 1954 and 1955

	Number of active operators	Number of employees	Salaries and wages	Cost of fuel and purchased 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 ⁴ value of bullion, ore, concentrates or residues shipped from mines
			\$	\$	\$	\$	\$	\$	\$
1954									
Quebec and Nova Scotia	91	4,347	14,640,004	1,720,126	5,261,621	157,156	388,098	27,239,289	19,712,288
Ontario	44	11,647	39,393,783	3,842,328	14,923,060	91,903	563,904	78,897,941	59,476,746
Manitoba	3	506	1,864,651	349,265	752,649	7,326	30,661	3,807,902	2,668,001
British Columbia	12	1,247	4,062,845	441,004	1,826,093	10,419	40,438	7,221,659	4,903,705
Northwest Territories	7	732	3,616,873	634,805	876,365	23,165	77,469	10,478,168	8,866,364
Canada	157	18,479	63,578,156	6,987,528	23,639,788	289,969	1,100,570	127,644,959	95,627,104
1955									
Quebec and Nova Scotia	73	4,165	14,211,085	1,644,176	4,753,122	182,712	404,475	26,734,316	19,749,831
Ontario	42	11,582	40,440,711	4,047,304	16,015,034	88,312	556,557	85,953,033	65,245,826
Manitoba	3	500	1,869,270	263,437	762,751	7,614	26,815	3,719,356	2,558,739
British Columbia	9	1,059	3,788,721	352,039	1,797,374	68,615	79,320	6,910,169	4,612,422
Northwest Territories	9	726	3,651,957	673,969	1,168,381	23,361	78,932	11,159,503	9,214,860
Canada	136	18,032	63,961,744	7,080,925	24,496,662	370,614	1,146,099	134,476,377	101,382,077

1. Producing mines; in 1952-85, in 1953-71, in 1954-69, in 1955-67.

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 18. Ores Mined and Treated by the Auriferous Quartz Mining Industry, 1946-1955

Year	Ore hoisted	Ore milled ¹	Crude ore shipped to smelters ²	Low-grade sorted out	Tailings re-treated	Gold recovered as bullion	Gold in crude ore shipped	Gold in concentrates, slag, etc., shipped
			Tons			Fine ounces		
1946	10,712,615	10,306,720	146,075	229,237	—	2,289,647	19,532	71,816
1947	11,632,841	11,296,610	146,469	205,250	1,376	2,590,589	19,001	109,825
1948	13,630,705	13,110,271	224,123	224,374	537	2,934,160	29,143	114,374
1949	15,999,866	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
1951	16,548,264	15,907,335	311,324	171,137	—	3,572,655	41,549	84,813
1952	16,496,218	15,991,130	307,464	145,999	312	3,709,717	41,943	72,285
1953	15,247,337	14,842,517	198,535	233,813	800	3,412,964	28,105	76,422
1954	16,178,273	15,560,138	285,697	271,642	—	3,610,496	44,336	74,808
1955	16,404,660	15,660,528	333,783	221,077	634	3,764,817	50,516	58,343

1 + 2 = Total crude ore treated.

TABLE 19. Ores Mined and Milled, Crude Bullion Recovered and Crude Bullion and Concentrates Shipped, in the Auriferous Quartz Mining Industry, 1955

	Quebec and Nova Scotia	Ontario	Manitoba	British Columbia	Northwest Territories	Canada
Number of producing mines	20	35	3	5	4	67
Ore mined	tons	4,905,347	9,649,697	786,316	466,030	16,404,660
Material discarded (sorted)	"	45,839	64,449	—	7,662	221,077
Ore milled (ground, etc.)	"	4,522,954	9,446,204	737,131	458,368	15,660,528
Tailings re-treated	"	—	634	—	—	634
Gold content of ores, slags, residues and concentrates shipped:						
To foreign smelters	troy ounces	—	—	—	14,876	14,876
To Canadian smelters or mills	"	41,668	3,747	9,917	38,651	93,983
Bullion bars shipped:						
Gold content	troy ounces	730,173	2,469,368	97,445	145,903	3,764,206
Silver content	"	142,298	409,719	9,978	24,898	643,634
Content of bullion bars produced:						
Gold	troy ounces	728,277	2,471,868	97,448	145,903	3,764,817
Silver	"	142,104	397,563	9,978	24,898	631,722
Gold value	\$	25,166,322	85,457,191	3,369,419	5,029,090	130,131,011
Silver value	\$	125,012	351,939	8,809	21,989	558,263
Value of ores, concentrates, slags and residues sold (shipped)	\$	1,442,982	143,903	341,128	1,859,090	3,787,103
Total gross value of production	\$	26,734,316	85,953,033	3,719,356	6,910,169	134,476,377
Value of fuel, electricity and process supplies used, also freight on shipments, marketing, smelter and refinery charges	\$	6,984,485	20,707,207	1,160,617	2,297,348	33,094,300
Net value of production	\$	19,749,831	65,245,826	2,558,739	4,612,821	101,382,077

TABLE 20. Ores, Concentrates, Slags, etc., Shipped to Smelters and Mills from Canadian Gold Mines, 1946-1955

Year	Ores		Concentrates		Slags, residues, precipitates	
	Tons	Gold content-fine ounces	Tons	Gold content-fine ounces	Tons	Gold content-fine ounces
TO CANADIAN PLANTS						
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
1951	296,341	41,398	—	9	349	7,245
1952	298,207	41,908	20	241	91	4,427
1953	198,535	28,088	20	227	123	9,300
1954	282,331	44,276	—	—	404	8,647
1955	333,783	50,516	—	—	237	4,816
TO FOREIGN PLANTS						
1946	—	—	11,969	49,164	25	9,650
1947	—	—	25,765	67,929	32	34,572
1948	289	6,400	24,446	64,531	36	44,795
1949	16	291	25,331	69,935	29	34,048
1950	51	987	20,471	53,811	15	39,773
1951	34	151	14,303	37,360	29	40,126
1952	1	35	9,125	24,085	20	43,532
1953	3	37	143	16,468	20	50,427
1954	2	60	2,938	14,931	22	51,230
1955	—	—	2,807	14,876	17	38,651

TABLE 21. Shipments from Auriferous Quartz Mines, 1954 and 1955

	Quantity	Total gross metal content					
		Gold	Silver	Copper	Lead	Zinc	Other
	Tons	Ounces			Pounds		
1954							
To Canadian smelters:							
Gold ore	282,331	44,276	82	—	—	—	—
Gold concentrates	—	—	—	—	—	—	—
Slags, precipitates, residues	404	8,647	9,129	1,467	—	—	—
To foreign smelters:							
Gold ore	2	60	118	—	—	—	—
Gold concentrates	2,938	14,931	4,530	—	—	—	—
Slags, precipitates, residues	22	51,230	4,843	—	—	—	—
Total	285,697	119,144	18,702	1,467	—	—	—
1955							
To Canadian smelters:							
Gold ore	333,783	50,516	1,615	—	—	—	—
Gold concentrates	—	—	—	—	—	—	—
Slags, precipitates, residues	237	4,816	11,568	5,393	—	—	—
To foreign smelters:							
Gold ore	—	—	—	—	—	—	—
Gold concentrates	2,807	14,876	4,105	—	—	—	—
Slags, precipitates, etc.	17	38,651	3,579	—	—	—	—
Total	336,844	108,859	20,867	5,393	—	—	—

TABLE 22. Certain Data Relating to the Production of Gold by the Entire Auriferous Quartz Mining Industry, 1946-1955 (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 of gold produced	Total of specified costs
	Ounces	\$	\$	\$	\$	\$	\$
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
1951	193	2.11	15.60	7.21	0.59	2.19	27.70
1952	209	1.96	15.19	6.60	0.46	1.84	26.05
1953	209	1.96	14.85	6.46	0.41	1.55	25.23
1954	225	1.87	14.70	6.34	0.37	1.57	24.85
1955	240	1.83	14.20	6.32	0.39	1.60	24.34

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 23.

TABLE 23. Certain Data (Averages) Relating to the Total Production of Gold by Producers Only, in the Auriferous Quartz Mining Industry, 1946-1955

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 of gold produced	Total of specified costs
	Ounces	\$	\$	\$	\$	\$	\$
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
1951	197	2.07	15.31	7.16	0.59	2.17	27.30
1952	212	1.93	14.97	6.47	0.46	1.82	25.65
1953	210	1.94	14.73	6.41	0.41	1.53	25.02
1954	227	1.85	14.55	6.28	0.37	1.56	24.61
1955	241	1.82	14.11	6.30	0.38	1.59	24.21

TABLE 24. Gold and Silver Content of Bullion Produced, 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, 1946-1955

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				\$ per oz.	
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
1951	15,907,335	3,699,016	658,719	.22	.04	36.85	0.945
1952	16,289,337	3,823,747	688,489	.23	.04	34.27	0.835
1953	15,041,261	3,509,527	620,146	.23	.04	34.42	0.840
1954	15,842,471	3,729,640	660,259	.24	.04	34.07	0.832
1955	15,997,372	3,873,676	652,589	.24	.04	34.52	0.882

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 25. Specified Costs per Ton of Ore Milled at Certain of the Principal Auriferous Quartz Mines, 1955

Name of mine	Develop- ment and explora- tion ¹	Mining	Milling	General ²	Total before deprecia- tion and taxes	Depre- ciation	Taxes	Total costs specified
Dollars								
Quebec:								
Barnat Mines Ltd.	0.967	3.572	0.976	0.672	6.187	0.940	0.098	7.225
Bellevue Quebec Mines Ltd.	1.47	5.73	1.65	0.26	9.11	0.16	0.24	9.51
Beattie-Duquesne Mines Ltd.	0.005	1.988	1.072	0.440	3.505	—	0.019	3.524
Canadian Malartic Gold Mines Ltd.	0.597	1.335	0.752	0.621	3.305	0.153	0.015	3.473
East Malartic Mines Ltd.	0.360	3.045	0.729	0.578	4.712	1.136	0.123	5.971
Elder Mines Ltd.	0.413	2.696	1.492	0.588	5.189	0.813	0.036	6.038
Lamaque Mining Co. Ltd.	0.78	2.88	0.84	0.15	4.65	0.28	0.33	5.26
O'Brien Gold Mines Ltd.	0.34	7.03	1.92	2.41	11.70	0.08	0.03	11.81
Powell Rouyn Mines Ltd.	—	2.20	1.09	0.93	4.22	—	0.03	4.25
Sigma Mines (Quebec) Ltd.	1.249	2.569	0.807	0.518	5.143	0.167	0.316	5.626
Stadacona Mines (1944) Ltd.	1.05	2.04	0.92	0.04	4.05	0.26	0.04	4.35
Ontario:								
<i>Porcupine District</i>								
Aunor Gold Mines Ltd.	0.91	7.46	1.36	0.98	10.71	1.02	0.47	12.20
Broulan Reef Mines Ltd.	1.49	2.76	1.38	1.54	7.17	—	—	—
Conlaum Mines Ltd.	1.66	4.75	1.12	1.42	8.95	0.06	—	9.01
Hallnor Mines Ltd.	2.20	3.89	1.55	1.10	8.74	0.11	1.19	10.04
Hollinger Consolidated (Timmins)	0.3495	4.8112	0.8284	2.1006	8.0897	0.1630	0.3179	8.5706
Hollinger Consolidated (Ross)	0.7974	2.8404	2.0924	1.0867	6.8169	1.1543	0.4396	7.5316
Hugh Pam Porcupine Mines Ltd.	0.81	2.95	1.38	1.97	7.11	—	—	—
McIntyre Porcupine Mines Ltd.	1.36	5.80	1.09	0.30	8.55	0.11	0.25	8.91
Preston East Dome Mines Ltd.	2.101	4.610	0.990	1.231	8.932	0.395	0.044	9.371
Pamour Porcupine Mines Ltd.	0.40	1.97	0.70	0.27	3.34	0.06	0.02	3.42
<i>Kirkland Lake District</i>								
Macassa Mines Ltd.	1.932	5.820	1.700	0.924	10.376	0.263	0.861	11.500
Deek-Hughes Gold Mines Ltd.	0.851	3.100	1.234	0.311	5.496	0.007	0.039	5.542
Lake Shore Mines Ltd.	0.678	8.703	2.415	0.539	12.335	0.168	0.051	12.554
Upper Canada Mines Ltd.	1.07	4.12	1.00	0.95	7.14	0.28	0.01	7.43
Wright-Hargreaves Mines Ltd.	0.953	6.351	1.362	1.842	10.508	0.851	0.104	11.463
<i>Kearney Lake District</i>								
Kerr Addison Gold Mines Ltd.	0.675	2.493	0.915	0.489	4.572	0.371	1.365	6.308
<i>Matachewan District</i>								
Hollinger Consolidated (Young Davidson)	3	1.0908	0.7410	0.3207	2.1525	0.0078	0.3999	2.5602
<i>Sudbury District</i>								
Renable Mines Ltd.	0.865	2.263	1.405	0.967	5.500	1.087	0.134	6.721
<i>Thunder Bay District</i>								
Leitch Gold Mines Ltd.	5.93	10.18	4.30	1.19	21.60	1.10	1.82	24.52
MacLeod-Cockshutt Gold Mines Ltd.	0.3337	0.7499	1.5812	0.5252	3.1900	0.1987	0.143	3.4030
<i>Patricia District</i>								
Cochonour Willans Gold Mines Ltd.	5.830	5.417	2.452	1.670	15.369	1.314	—	16.683
Madsen Red Lake Gold Mines Ltd.	0.1049	5.0311	1.1729	0.8706	7.1795	0.7310	1.3932	9.3037
McKenzie Red Lake Gold Mines Ltd.	3.335	3.459	1.952	1.596	10.342	0.175	—	10.517
New Dickenson Mines Ltd.	1.15	3.91	2.48	1.66	9.20	4.32	0.21	13.73
Pickle Crow Gold Mines Ltd.	2.916	5.027	1.647	1.082	10.672	0.247	0.789	11.708
Starratt Olsen Gold Mines Ltd.	3.989	2.363	1.966	1.702	10.020	5.106	0.018	15.144
British Columbia:								
Bralorne Mines Ltd.	2.08	6.22	1.32	2.91	12.53	—	—	—
Cariboo Gold Quartz Mining Co. Ltd.	2.05	9.59	2.33	0.44	14.41	0.99	—	15.40
Pioneer Gold Mines of B.C. Ltd.	2.352	8.758	2.720	2.229	16.059	0.977	0.140	17.176
Northwest Territories:								
Consolidated Mining & Smelting Co. (Con)	1.35	5.56	3.45	1.77	12.13	—	—	—
Consolidated Discovery Yellowknife Mines Ltd.	6.23	5.89	3.48	8.99	24.59	6.05	5.05	35.69
Giant Yellowknife Gold Mines Ltd.	2.70	4.50	3.65	2.42	13.27	4.02	—	17.29

1. Exclusive of outside exploration.

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

3. Included in mining costs.

TABLE 26. Milling Capacity of Operating Canadian Gold Mines, 1946-1955

Year	Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories	Canada
Tons of 2,000 pounds per 24 hours							
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
1951	—	12,825	33,998	2,695	1,950	1,105	52,573
1952	—	13,600	33,099	2,550	1,650	1,380	52,279
1953	—	13,200	31,268	2,550	1,675	1,210	49,903
1954	—	12,650	29,168	2,550	1,700	1,375	47,443
1955	—	12,650	29,423	2,550	1,525	1,375	47,533

TABLE 27. Employees and Earnings in the Entire Auriferous Quartz Mining Industry, 1951-1955

Year	Number of employees					Number of man-hours worked (all employees)	Earnings		
	Administrative and office		Workmen		Total		Administrative and office	Workmen	Total
	Male	Female	Male	Female					
							\$	\$	\$
1951	2,777	194	19,070	85	22,126	52,224,723	11,028,345	57,711,186	68,739,531
1952	2,005	198	18,462	92	20,757	48,223,254	10,193,402	58,811,426	69,004,828
1953	1,754	182	16,743	72	18,751	42,454,069	8,789,624	52,130,738	60,920,362
1954	1,734	166	16,490	89	18,479	43,007,329	8,759,284	54,818,872	63,578,156
1955	1,695	169	16,099	69	18,032	41,757,023	8,943,675	55,018,069	63,961,744

TABLE 28. Number of Workmen, by Months, in the Gold Mining Industry, 1954 and 1955

Month	1954	1955					
	Total	Mine			Mill		Total
		Surface		Underground	Male	Female	
		Maie	Female	Male			
January	15,630	4,023	65	10,929	1,488	—	16,505
February	16,307	4,011	66	10,854	1,477	—	16,408
March	16,487	3,941	62	10,823	1,481	—	16,307
April	16,464	3,976	64	10,677	1,485	1	16,203
May	16,500	4,066	67	10,655	1,515	—	16,303
June	16,764	4,207	67	10,589	1,550	—	16,413
July	16,790	4,198	68	10,289	1,532	—	16,087
August	16,858	4,162	69	10,491	1,516	—	16,238
September	16,764	3,968	67	10,311	1,482	—	15,828
October	16,803	3,966	64	10,467	1,454	—	15,953
November	16,764	3,905	64	10,491	1,437	—	15,897
December	16,603	3,848	63	10,374	1,439	—	15,726
Average	16,579	4,031	68	10,578	1,490	1	16,168
Man-hours worked	38,621,888						37,464,373

TABLE 29. Cost of Prospecting Conducted by Canadian Auriferous Quartz Mining Companies, 1954 and 1955

Province in which prospecting was conducted ¹	By Nova Scotia and Quebec companies ²	By Ontario companies ²	By Manitoba and Saskatchewan companies ²	By British Columbia companies ²	By Yukon and Northwest Territories companies	Total
Dollars						
1954						
Newfoundland	66,014	—	—	—	—	66,014
Nova Scotia	13,646	171	—	—	—	13,817
New Brunswick	76,991	57,282	—	—	—	134,273
Quebec	1,466,667	68,844	—	—	—	1,535,511
Ontario	646,644	560,270	16,397	—	8,914	1,232,225
Manitoba	15	15	24,287	—	—	24,317
Saskatchewan	204,103	520	—	—	—	204,623
British Columbia	5,138	60	4,562	103,081	—	112,841
Northwest Territories	28,787	—	—	—	25,572	54,359
Yukon	1,558	20,217	—	—	—	21,775
Total Canada	2,509,538	707,379	45,246	103,081	34,486	3,399,755
1955						
Newfoundland	18,691	—	—	—	—	18,691
Nova Scotia	51	176	—	—	—	227
New Brunswick	119,866	53,655	—	—	—	173,521
Quebec	541,419	76,058	—	—	692	618,169
Ontario	111,707	692,236	95,629	—	30,295	929,867
Manitoba	3,666	3,278	21,144	—	—	28,088
Saskatchewan	116,557	586	2,013	—	—	119,156
British Columbia	1,666	4,652	—	277,426	31,200	314,944
Northwest Territories	—	45,311	—	—	64,006	109,317
Yukon	54,604	34,017	—	—	—	88,621
Total Canada	968,227	909,969	118,786	277,426	126,193	2,400,601

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 30. Drilling Completed on Auriferous Quartz Deposits, 1953-1955

	Footage drilled ¹		
	1953	1954	1955
Diamond drilling for exploration (testing):			
By companies with their own equipment and personnel	747,711	652,839	830,442
By contractors	1,259,152	1,525,621	1,353,214
Other drilling:			
Diamond drilling for breaking rock or ore:			
By companies with their own equipment and personnel	53,330	64,993	58,401
By contractors	156,335	175,400	112,515
Drilling by percussion and other machines ²	30,012,597	36,784,541	40,107,292

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 1954 totalled \$154,585 and in 1955 — \$153,626.

TABLE 31. Specified Taxes Paid by Active Canadian Auriferous Quartz Mines, 1954 and 1955, by Provinces¹

Nature of tax	Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories	Canada
Dollars							
1954							
Dominion income tax, including tax on non-operating revenue	—	599,043	3,209,541	44,000	128,930	—	3,981,514
Provincial tax	20	279,661	847,398	6,262	48,003	12,110	1,193,454
Municipal tax	—	271,270	313,365	13,067	46,552	51,181	695,435
Total	20	1,149,974	4,370,304	63,329	223,485	63,291	5,870,403
1955							
Dominion income tax, including tax on non-operating revenue	—	302,447	3,630,971	—	115,174	16,327	4,064,919
Provincial tax	21	231,394	1,081,987	10,979	60,338	46,548	1,431,267
Municipal tax	—	278,080	316,783	13,067	28,330	66,006	702,266
Total	21	811,921	5,029,741	24,046	203,842	128,881	6,198,452

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

TABLE 32. Certain Specified Expenditures Made by Auriferous Quartz Mining Companies, 1953-1955

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:						
1953	—	—	—	—	—	—
1954	—	—	—	—	—	—
1955	—	—	—	30	—	—
Quebec:						
1953	406,470	822	115,995	9,317,680	840,348	2,390,469
1954	438,533	248	113,214	8,836,723	796,099	939,586
1955	571,706	123	110,637	8,188,362	484,863	469,134
Ontario:						
1953	912,528	701,280	299,371	20,870,584	1,224,149	1,662,037
1954	1,112,985	755,265	288,642	22,627,996	2,363,008	4,258,805
1955	1,257,045	884,836	308,426	24,165,438	1,408,573	3,411,704
Manitoba:						
1953	38,337	—	12,140	1,413,075	7,714	41,950
1954	35,406	—	12,673	1,544,507	5,386	45,245
1955	31,138	—	12,749	1,485,179	26,034	45,235
British Columbia:						
1953	155,644	84,062	31,001	2,129,084	64,054	97,861
1954	146,928	87,361	30,594	2,266,660	154,652	37,838
1955	177,844	120,714	33,980	2,180,467	90,132	127,229
Northwest Territories:						
1953	94,953	—	11,299	3,750,912	607,237	1,126,916
1954	83,164	195	11,272	3,538,597	567,929	1,103,786
1955	77,487	183	11,527	2,916,120	731,176	1,502,356
Total Canada:						
1953	1,608,932	786,164	469,806	37,481,335	2,743,502	5,319,233
1954	1,817,016	843,069	459,395	38,814,483	3,887,074	6,385,260
1955	2,115,220	1,005,856	477,319	36,935,596	2,740,778	5,555,658

TABLE 33. Estimated Capital and Repair Expenditures, 1951-1955

Year	Capital expenditures			Repair expenditures			Capital and repair expenditures		
	Construction	Machinery	Total	Construction	Machinery	Total	Construction	Machinery	Total
Thousands of dollars									
1951	3,271	2,528	5,799	1,111	6,980	8,091	4,382	9,508	13,890
1952	4,736	3,350	8,086	1,324	8,930	10,254	6,060	12,280	18,340
1953	4,625	3,280	7,905	1,251	7,419	8,670	5,876	10,699	16,575
1954	5,791	3,891	9,682	1,526	7,544	9,070	7,317	11,435	18,752
1955 ¹	4,581	3,738	8,319	2,419	6,880	9,299	7,000	10,618	17,618

1. Preliminary estimates.

THE COPPER-GOLD-SILVER MINING INDUSTRY

The mining of "copper-gold-silver" ores in Canada during 1955 was confined to the provinces of Quebec, Ontario, Manitoba, Saskatchewan and British Columbia. There was considerable development work done on this type of ore deposits in the other provinces. 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.

Some firms which were formerly classified in the silver-lead-zinc mining industry have been included in the copper-gold-silver mining industry. The value of their copper production exceeded that of zinc.

During 1955 the gross value of crude ore, concentrates, etc., shipped from the mines and mills in this industry to smelters was estimated at \$145,269,622. Fuel cost \$2,317,551 and 408,626,887

kwh. of electricity was purchased for \$1,772,956. Process supplies, freight and treatment charges amounted to \$41,638,629. Employees numbered 9,025 to whom \$36,391,460 were distributed as salaries and wages. There were 24 producers or shippers in 1955.

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 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 do not include data pertaining to the operation of smelters and refineries. Statistics relating to the reduction of non-ferrous ores are recorded under the smelting and refining industry.

TABLE 34. Principal Statistics¹ of the Copper-Gold-Silver Mining Industry, Significant Years, 1921-1955

Year	Establishments	Employees	Earnings	Cost of fuel and electricity	Process supplies and containers	Gross value ² of products	Net value of production
	No.	No.	\$	\$	\$	\$	\$
1921	18	1,222	1,573,221	177,052	N.A.	2,589,314	N.A.
1929	152	5,243	8,498,755	1,035,133	"	21,859,907	"
1931	56	3,351	4,958,317	726,502	"	15,951,103	"
1933	29	2,841	3,938,778	404,625	"	7,707,270	"
1937	38	5,164	8,240,614	901,088	4,851,845	40,735,801	24,902,851
1939	30	6,083	9,920,591	1,223,523	5,585,616	51,161,468	26,182,577
1941	22	5,866	10,695,023	1,264,567	5,505,955	64,829,073	30,220,331
1944	26	5,175	10,710,071	1,402,243	5,170,581	62,389,815	38,198,039
1946	43	4,958	10,243,487	1,152,925	4,022,506	54,304,549	37,433,982
1949	33	7,395	21,776,150	1,630,715	7,499,445	105,994,498	74,591,660
1951	82	6,223	21,545,660	2,085,608	8,257,819	123,162,228	92,331,995
1952	98	7,210	26,711,225	2,358,920	10,917,464	115,667,391	80,668,817
1953	84	7,476	27,582,448	2,887,253	9,447,227	100,852,281	68,881,908
1954	118	7,837	29,791,332	3,148,808	10,232,701	105,893,976	70,814,052
1955	186	9,025	36,391,460	4,090,507	12,548,088	145,269,622	99,540,486

1. Value of ores and concentrates shipped from mines to smelters operated by the same companies are often of a nominal or conjectural nature.

2. Gross value less fuel, electricity, process supplies, freight and treatment charges.

TABLE 35. Shipments from Copper-Gold-Silver Mines, 1954 and 1955

	Quantity	Value	Total metal content as determined by settlement assay ¹				
			Gold	Silver	Copper	Sulphur	Zinc
	Tons	\$	Fine ounces		lb.	Tons	lb.
1954							
To Canadian plants:							
Ores	476, 141	7, 985, 929	81, 453	232, 539	26, 310, 449	—	2, 752, 331
Copper concentrates	728, 693	58, 250, 500	292, 690	2, 959, 891	238, 429, 089	—	28, 994, 450
Zinc concentrates	133, 592	10, 357, 976	7, 117	177, 577	2, 407, 184	—	120, 962, 389
Iron pyrite concentrates	132, 224	602, 346	—	—	—	128, 022, 809	—
Slags	9	12, 503	161	7, 018	4, 342	—	—
Residues, bullion and gold precipitates	2	520, 383	14, 894	18, 270	1, 280	—	—
To foreign plants:							
Ores and tailings	8, 116	234, 968	—	5, 577	1, 043, 870	—	—
Copper concentrates	93, 825	14, 299, 688	19, 403	276, 609	45, 546, 930	—	—
Zinc concentrates	101, 059	11, 672, 913	1, 464	18, 164	—	—	107, 645, 169
Iron pyrite concentrates	404, 996	1, 742, 915	—	—	—	403, 121, 883	—
Precipitates	569	213, 855	—	—	716, 671	—	—
Total	2, 089, 228	105, 898, 976	417, 182	3, 695, 645	314, 459, 815	260, 354, 339	531, 144, 692
Value of process supplies, etc. ² .....	...	35, 079, 924	...	...	...	...	...
Net value .....	...	70, 814, 052	...	...	...	...	...
1955							
To Canadian plants:							
Ores	498, 789	10, 219, 463	83, 454	195, 199	25, 211, 123	—	1, 723, 620
Copper concentrates	824, 494	91, 422, 631	346, 123	3, 150, 088	279, 510, 191	—	28, 387, 118
Zinc concentrates	111, 361	9, 046, 798	6, 525	146, 813	1, 982, 874	—	100, 701, 973
Iron pyrite concentrates	171, 292	673, 583	—	—	—	166, 395, 537	—
Slags, residues, bullion and gold precipitates	12	754, 576	21, 059	30, 879	1, 184	—	—
To foreign plants:							
Ores and tailings	9, 637	1, 264, 718	549	7, 019	3, 087, 656	—	—
Copper concentrates	76, 718	13, 925, 074	16, 585	229, 043	37, 268, 659	—	—
Zinc concentrates	118, 781	15, 536, 792	1, 314	15, 920	—	—	125, 599, 455
Iron pyrite concentrates	494, 737	2, 160, 183	—	—	—	485, 530, 911	—
Precipitates	555	245, 804	—	—	605, 607	—	—
Total	2, 306, 376	145, 269, 622	475, 609	3, 774, 961	347, 667, 294	651, 926, 448	256, 412, 166
Value of process supplies, etc. ² .....	...	45, 729, 136	...	...	...	...	...
Net value .....	...	99, 540, 486	...	...	...	...	...

1. In addition, cadmium, tellurium and selenium are recovered from these ores.
 2. Includes freight on ore shipments, smelter charges and purchased electricity.

TABLE 36. Ores Mined, Milled, and Concentrates Produced, by the Copper-Gold-Silver Mining Industry, 1946-1955

Year	Ore mined	Ore milled	Copper concentrates produced ¹	Zinc concentrates produced	Iron pyrite concentrates produced
			Tons		
1946	5, 009, 490	4, 606, 503	661, 554	219, 985	201, 873
1947	5, 462, 233	5, 140, 376	662, 088	185, 630	178, 263
1948	6, 496, 499	6, 061, 132	724, 066	232, 131	184, 069
1949	8, 245, 402	7, 682, 382	839, 609	250, 595	250, 476
1950	8, 758, 607	8, 159, 756	830, 438	313, 161	322, 117
1951	7, 380, 966	6, 799, 064	783, 011	231, 674	375, 969
1952	7, 773, 341	7, 128, 795	701, 725	233, 046	460, 753
1953	7, 438, 500	6, 606, 631	697, 285	216, 686	398, 429
1954	8, 501, 569	7, 982, 320	806, 157	234, 364	505, 504
1955	9, 911, 751	9, 375, 687	909, 466	230, 236	653, 918

1. Exclusive of copper precipitate.

TABLE 37. Employees and Their Earnings in the Copper-Gold-Silver Mining Industry, 1951-1955

Year	Number of employees					Number of man-hours worked (all employees)	Earnings		
	Administration		Workmen		Total		Administration	Workmen	Total
	Male	Female	Male	Female					
							\$	\$	\$
1951	692	147	5, 341	43	6, 223	15, 149, 388	3, 407, 953	18, 137, 707	21, 545, 660
1952	869	160	6, 107	74	7, 210	16, 152, 522	4, 365, 362	22, 345, 863	26, 711, 225
1953	968	162	6, 274	72	7, 476	16, 367, 628	5, 188, 215	22, 394, 233	27, 582, 448
1954	991	162	6, 609	75	7, 837	17, 341, 735	5, 609, 114	24, 182, 218	29, 791, 332
1955	1, 210	171	7, 568	76	9, 025	20, 497, 165	6, 608, 138	29, 783, 322	36, 391, 460

TABLE 38. Number of Workmen, by Months, 1954 and 1955

Month	1954	1955					
	Total	Mine			Mill		Total
		Surface		Underground	Male	Female	
		Male	Female	Male			
January	5, 585	2, 578	45	3, 419	927	24	6, 993
February	6, 509	2, 679	44	3, 402	923	24	7, 072
March	6, 499	2, 615	45	3, 426	953	25	7, 064
April	6, 616	2, 634	45	3, 496	988	25	7, 188
May	6, 747	2, 861	50	3, 570	1, 025	24	7, 530
June	6, 973	3, 003	54	3, 569	1, 056	25	7, 707
July	7, 068	3, 202	55	3, 617	1, 052	26	7, 952
August	6, 945	3, 283	53	3, 532	1, 058	26	7, 952
September	6, 854	3, 217	49	3, 625	1, 025	26	7, 942
October	6, 952	3, 277	51	3, 698	1, 043	26	8, 095
November	6, 883	3, 250	49	3, 799	1, 038	26	8, 162
December	6, 698	3, 116	49	3, 731	1, 042	26	7, 964
Average	6, 684	2, 988	51	3, 569	1, 011	25	7, 644
Man-hours worked	14, 586, 239						17, 385, 458

TABLE 39. Specified Expenditures by the Copper-Gold-Silver Mining Industry, 1953-1955

	1953	1954	1955
	Dollars		
Workmen's compensation	1,036,730	946,573	908,612
Silicosis assessment	106,933	116,814	165,058
Unemployment insurance	252,968	227,753	196,139
Aggregate cost of all supplies purchased	23,155,482	25,633,211	26,428,652
Aggregate cost of plant and equipment purchased	3,438,552	3,785,425	6,357,072
Cost of buildings, machinery and equipment erected or installed during year	15,855,500	18,806,946	13,145,958

TABLE 40. Taxes Paid by the Copper-Gold-Silver Mining Industry, 1953-1955

	1953	1954	1955
	Dollars		
Dominion income tax, including tax on non-operating revenue	11,755,843	9,135,618	12,698,830
Provincial tax	3,371,481	3,104,401	4,540,018
Municipal tax	665,219	764,306	840,171
Grand total taxes paid	15,792,543	13,004,325	18,079,019

TABLE 41. Estimated Capital and Repair Expenditures in the Copper-Gold-Silver Mining Industry, 1954 and 1955

Year	Capital expenditures			Repair expenditures			Capital and repair expenditures		
	Con- struction	Machinery	Total	Con- struction	Machinery	Total	Con- struction	Machinery	Total
	Thousands of dollars								
1954	10,618	8,244	18,862	3,579	2,724	6,303	14,197	10,968	25,165
1955	7,825	5,139	12,964	2,973	3,055	6,028	10,798	8,194	18,992

TABLE 42. Cost of Prospecting Conducted by the Copper-Gold-Silver Mining Industry, by Provinces, 1954 and 1955

Conducted in-	1954	1955	Conducted in-	1954	1955
	\$	\$		\$	\$
Newfoundland.....	—	19,939	Saskatchewan	100,148	100,896
Nova Scotia	78,428	264,957	Alberta	—	14,316
New Brunswick	457,565	1,581,845	British Columbia	277,823	416,500
Quebec	796,633	2,230,376	Yukon	161,805	268,790
Ontario	1,238,228	2,108,177	Northwest Territories	5,396	56,441
Manitoba	72,864	85,261	Total	3,188,890	7,147,498

TABLE 43. Drilling Completed on Copper-Gold-Silver Deposits, 1954 and 1955

	Footage drilled	
	1954	1955
Diamond drilling for exploration (testing only):		
By mining companies with their own personnel and equipment	136,302	296,322
By diamond drilling contractors	841,302	1,239,914
Other diamond drilling:		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	590,465	512,245
By diamond drilling contractors	20,531	16,245
Drilling by percussion or other machines ¹	9,149,733	12,640,319

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

Value of diamonds in all forms (stones, bits, etc.) purchased during the year, \$170,808.

TABLE 44. Copper Production (Recoverable) According to Nature of Ore, and by Provinces, 1953-1955

Province	From copper-gold-silver ores	From nickel-copper ores	From other ores	Total
Tons				
1953				
Newfoundland.....	—	—	2,814	2,814
Nova Scotia	—	—	788	788
Quebec	53,663	—	1,257	54,920
Ontario	409	130,149	24	130,582
Manitoba	9,362	50	—	9,412
Saskatchewan	30,588	—	—	30,588
British Columbia	20,923	—	3,225	24,148
Canada	114,945	130,199	8,108	253,252
1954				
Newfoundland	—	—	3,481	3,481
Nova Scotia	—	—	991	991
Quebec	82,723	—	1,207	83,930
Ontario	765	139,979	32	140,776
Manitoba	8,802	3,472	—	12,274
Saskatchewan	36,192	—	—	36,192
British Columbia	21,303	—	3,785	25,088
Canada	149,785	143,451	9,496	302,732
1955				
Newfoundland	—	—	3,052	3,052
Nova Scotia	—	—	1,027	1,027
New Brunswick	—	—	36	36
Quebec	100,339	—	682	101,021
Ontario	1,816	144,511	80	146,407
Manitoba	13,707	5,672	—	19,379
Saskatchewan	32,945	—	—	32,945
British Columbia	18,747	—	3,380	22,127
Canada	167,554	150,183	8,257	325,994

TABLE 45. Production of Refined Copper¹, 1946-1955

Year	Short tons	Year	Short tons
1946.....	204,016	1951.....	245,466
1947.....	202,427	1952.....	196,320
1948.....	221,275	1953.....	236,966
1949.....	226,083	1954.....	253,365
1950.....	238,204	1955.....	288,997

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

TABLE 46. Silver Production According to Nature of Ore, by Provinces, 1955

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.....	—	—	—	—	701,792	—	701,792
Nova Scotia.....	—	4	—	—	262,063	—	262,067
New Brunswick.....	—	—	—	—	25,087	—	25,087
Quebec.....	—	143,328	2,204,898	—	2,438,469	—	4,786,695
Ontario.....	—	407,559	12,025	1,480,728	84,252	4,066,453	6,051,017
Manitoba.....	—	12,180	425,885	16,463	—	—	454,528
Saskatchewan.....	—	—	1,230,179	—	—	—	1,230,179
Alberta.....	21	—	—	—	—	—	21
British Columbia.....	1,004	32,304	235,542	—	8,433,272	—	8,702,122
Northwest Territories.....	—	57,179	—	—	—	1,298	58,477
Yukon.....	14,976	—	—	—	5,697,243	—	5,712,219
Canada.....	16,001	652,554	4,108,529	1,497,191	17,642,178	4,067,751	27,984,204

TABLE 47. Selenium and Tellurium Recoverable from Canadian Ores, 1946-1955

Year	From copper-gold-silver ores		From nickel-copper ores		Total	
	Selenium	Tellurium	Selenium	Tellurium	Selenium	Tellurium
Pounds						
1946.....	251,261	1,648	270,606	14,200	521,867	15,848
1947.....	354,684	3,025	146,406	6,169	501,090	9,194
1948.....	281,905	2,686	108,989	8,739	390,894	11,425
1949.....	231,383	2,966	86,842	8,726	318,225	11,692
1950.....	198,284	4,065	63,709	6,010	261,973	10,075
1951.....	300,194	2,612	82,409	6,301	382,603	8,913
1952.....	160,452	325	81,578	5,710	242,030	6,035
1953.....	169,648	169	92,698	4,525	262,346	4,694
1954.....	228,703	976	94,826	7,195	323,529	8,171
1955.....	332,644	2,559	94,465	6,455	427,109	9,014

TABLE 48. Zinc Production (Recoverable) According to Nature of Ore, and by Provinces, 1954 and 1955

Year and province	Recovered from copper-gold-silver ores	Recovered from silver-lead-zinc and other ores	Total
Tons of 2,000 pounds			
1954			
Newfoundland	—	30,002	30,002
Nova Scotia	—	8,493	8,493
Quebec	36,910	70,091	107,001
Ontario	—	710	710
Manitoba	16,253	—	16,253
Saskatchewan	50,670	—	50,670
British Columbia	8,828	142,711	151,539
Yukon	—	11,823	11,823
Canada	112,661	263,830	376,491
1955			
Newfoundland	—	28,636	28,636
Nova Scotia	—	8,018	8,018
New Brunswick	—	—	—
Quebec	44,916	56,515	101,431
Ontario	—	1,548	1,548
Manitoba	17,966	—	17,966
Saskatchewan	48,960	—	48,960
British Columbia	8,381	207,505	215,886
Yukon	—	10,912	10,912
Canada	120,223	313,134	433,357

TABLE 49. Refined Zinc Produced, From All Sources, 1946-1955

Year	Short tons	Year	Short tons
1946	185,683	1951	218,578
1947	178,264	1952	222,200
1948	196,575	1953	250,961
1949	206,045	1954	253,365
1950	204,367	1955	256,542

TABLE 50. Cadmium Production (Recoverable) from Canadian Ores, 1946-1955

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				Pounds			
1946	166,333	636,315	802,648	1951	147,168	1,179,752	1,326,220
1947	172,896	545,638	718,534	1952	205,911	742,676	948,587
1948	148,864	617,226	766,090	1953	157,997	960,288	1,118,285
1949	181,092	665,449	846,541	1954	154,596	932,184	1,086,780
1950	141,456	706,950	848,406	1955	191,691	1,727,390	1,919,081

TABLE 51. Average Annual Metal Prices in Canadian Dollars, 1946-1955

Year	Gold	Silver	Copper	Lead	Zinc
	Per troy ounce	Per troy ounce	Per pound	Per pound	Per pound
	Dollars				
1946	36.75	0.836	0.128	0.067	0.078
1947	35.00	0.72	0.2039	0.1367	0.1123
1948	35.00	0.75	0.2235	0.1804	0.1393
1949	36.00	0.7425	0.1997	0.158	0.1325
1950	38.05	0.8082	0.2342	0.1445	0.1565
1951	36.85	0.9455	0.277	0.184	0.199
1952	34.27	0.8352	0.2854	0.1619	0.1746
1953	34.42	0.8401	0.299	0.1293	0.1196
1954	34.07	0.8326	0.2916	0.1333	0.1198
1955	34.52	0.8818	0.3687	0.1438	0.1365

TABLE 52. World Copper Production by Countries of Origin of Ore¹

(Taken from the American Bureau of Metal Statistics, Year Book)

Country	1951	1952	1953	1954	1955
	Tons of 2,000 pounds				
United States	938,133	932,629	948,509	841,071	1,014,442
Mexico	60,875	61,166	69,800	69,215	60,355
Canada	269,971	258,038	253,252	302,732	324,756
Cuba	21,529	19,106	17,006	16,773	19,507
Bolivia ²	5,342	5,184	4,920	4,036	3,855
Chile	419,626	450,436	400,284	400,857	477,869
Peru	35,609	33,563	39,023	41,504	48,142
Ecuador	2	—	—	—	—
Total America	1,751,087	1,760,122	1,732,794	1,669,188	1,948,926
Austria	2,026	2,914	3,279	3,381	2,841
Finland	19,517	25,023	20,700	23,992	25,412
Germany ³	1,851	2,599	2,262	2,458	1,321
Italy	204	193	236	685	314
Norway	15,436	15,027	14,362	14,980	15,432
Spain ⁴	8,333	9,896	9,406	7,951	6,726
Sweden	15,925	17,500	14,924	14,565	17,271
Yugoslavia	39,628	40,752	38,930	35,439	32,098
Other Europe ⁵	15,000	15,000	15,500	16,500	17,500
Total Europe	117,920	128,904	119,599	119,951	118,915
Japan	47,134	59,030	65,860	71,483	78,369
India	7,933	6,808	5,510	8,020	8,155
Korea, Republic of	6	500	1,500	550	1,400
Turkey	19,126	25,460	25,641	27,727	26,313
Philippines	14,012	14,596	14,016	15,817	19,247
Cyprus ⁴	25,145	29,564	23,937	30,059	26,123
Other Asia ⁵	10,000	10,000	10,000	10,000	10,500
Total Asia	123,356	145,958	146,464	163,656	170,107
Belgian Congo	211,596	226,797	236,020	246,685	259,158
Northern Rhodesia	352,048	363,188	410,810	438,711	395,307
South West Africa	12,161	14,610	12,486	14,352	23,739
Union of South Africa	36,364	37,758	38,656	45,281	47,460
Other Africa ⁵	1,630	2,190	2,200	2,500	2,600
Total Africa	613,799	644,543	700,172	747,529	728,264
Australia	18,172	21,802	38,123	43,632	44,397
Russia ⁵	280,000	325,000	334,500	351,200	372,500
Total world, as reported	2,904,334	3,026,329	3,071,652	3,095,156	3,383,109

1. Includes copper contents or recoverable contents of ores or concentrates smelted in country of origin and/or shipped to other countries for smelting.

2. Exports.

3. Federal Republic of Germany. East Germany is estimated and included in "Other Europe".

4. Excludes copper content of iron pyrites which may or may not have been recovered.

5. Under "Other" estimates have been made and the figures conjectural.

TRANSACTIONS IN GOLD BULLION AT THE ROYAL CANADIAN MINT

(From the Annual Report of the Royal Canadian Mint)

Six thousand one hundred and eight deposits of gold bullion were received at the Mint during the year from Canadian Mining Companies, the Assay Office, Royal Canadian Mint, Vancouver, B.C., and Sundry Persons. The gross weight of the deposits amounted to 4,878,918 ounces containing by assay 3,947,637 ounces fine gold and 581,839 ounces fine silver. This includes bullion received under the heading of Designated Gold. The receipts show an increase as compared with the year 1954 of 507 in the number of deposits, gross weight 110,467 ounces, gold content 118,206 ounces and fine silver 1,388 ounces and was composed of the following:

Fine Gold—

174 deposits weighing 368,640.509 ounces with a mean fineness of 997.273

Crude Bullion—

5,627 deposits weighing 4,473,046.216 ounces with an average fineness of 794.327 gold,

139.480 silver, and containing 6.6193% base metal

Scrap (Jewellery and Dental)—

274 deposits, 22,757.614 ounces at an average fineness of 658.736 gold and 60.798 silver

From Vancouver Assay Office—

33 ingots, 14,474.040 ounces gross at 825.445 gold and 114.580 silver

The net value paid to depositors was \$128,671,739.19. In addition the amount of fine gold issued to depositors was 199,618.645 ounces.

Details of origin of the bullion deposited for sale to the Mint at Vancouver and Ottawa during the year 1955 are shown in the following table:

From Canadian Mines and Refineries	Gross weight	Fine gold	Fine silver
		Ounces	
Ontario	2,759,279.850	2,318,167.948	307,365.50
Quebec	1,051,501.900	769,136.299	163,868.24
British Columbia	199,024.715	158,479.521	25,935.27
Manitoba	126,748.725	104,718.494	11,244.56
Yukon Territory	90,482.905	72,201.463	14,975.77
Nova Scotia	135.850	127.790	3.68
Northwest Territories	401,354.750	317,614.666	56,196.31
Alberta and Saskatchewan	269.685	213.524	21.16
Total from Canadian Mines and Refineries	4,628,798.280	3,740,659.705	579,610.49
From jewellery and scrap	23,008.524	15,110.304	1,192.19
Grand total	4,651,806.804	3,755,770.009	580,802.68

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

	Ounces fine
9,367 Trade bars transferred to Exchange Fund Account of Minister of Finance	3,740,285.766
Depositors — granulated and bars	199,618.645
Sales of fine gold	4,925.681
Proof Plate for assay purposes	8.000
Medals, etc.	11.338
Sweep	7,915.055
Total	3,952,764.485

This total shows a decrease of 46,071.81 ounces fine issued as compared with the year 1954.

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 31, 1931, and of the Royal Canadian Mint from December 1, 1931 to December 31, 1955

Year	Gold received		Gold issued	
	Gross weight	Fine gold	Coin	Bullion
	Ounces		Ounces fine	
1908 to 1945	100,250,545.803	80,939,594.106	383,319.096	80,462,408.612
1946	3,271,246.445	2,652,244.865		2,665,964.763
1947	3,559,496.703	2,868,469.014		2,859,084.218
1948	4,252,389.454	3,401,991.441		3,405,073.335
1949	4,941,749.248	3,925,617.709		3,865,296.377
1950	5,485,956.751	4,422,968.129		4,347,961.898
1951	5,246,758.942	4,169,479.513		4,167,485.874
1952	4,848,048.381	3,953,158.154		4,031,068.071
1953	4,642,410.478	3,684,073.637		3,626,496.738
1954	4,768,451.365	3,829,430.609		3,998,835.566
1955	4,878,918.379	3,947,636.509		3,952,764.485
Total	146,145,971.949	117,794,663.686	383,319.096	117,382,439.937

CURRENCY, MINT AND EXCHANGE FUND ACT - GOLD BULLION REGULATIONS

P.C. 1954-1584-19th day of October, 1954.

1. The Regulations respecting the purchase and sale of gold at the Royal Canadian Mint, established by Order in Council P.C. 4269 of 9th October, 1952, as amended, are hereby revoked; and

2. The annexed "Regulations respecting the purchase and sale of gold at the Mint" are hereby made and established in substitution for the regulations hereby revoked.

Regulations Respecting the Purchase and Sale of Gold at the Mint

1. These regulations may be cited as the Gold Bullion Regulations
2. In these regulations,
 - (a) "deposit" means a parcel of bullion or other material containing gold.
 - (b) "Master" means the Master of the Mint.
3. (1) The Master may accept a deposit that is delivered to the Mint if it contains
 - (a) newly mined Canadian gold,
 - (b) old jewellery and dental scrap that has not been melted or otherwise treated to prevent its origin being readily recognized,
 - (c) scrap resulting from processes carried out by manufacturers and refiners in the ordinary course of their business, or
 - (d) gold coin that is not legal tender in Canada.(2) The Master shall not accept
 - (a) a deposit to which subsection (1) does not apply unless the Minister has authorized him to do so,
 - (b) an ingot, exceeding one thousand and two hundred ounces troy, gross weight, or
 - (c) a deposit that appears to him to be unsuitable for treatment by the refining process in use at the Mint.(3) The Master is not obliged to accept any deposit and before accepting a deposit he may require the depositor to furnish satisfactory evidence as to the origin of the contents.
4. (1) Each parcel of bullion for which a separate assay is required shall be regarded as a separate deposit and all deposits that have been accepted by the Master shall be valued in the order in which they have been received.
 - (2) The contents of each deposit shall, as soon as may be after the deposit has been accepted by the Master, be determined and valued on the report of the Assay Division of the Mint, gold being reported to the one four-thousandth part (one-quarter millieme) and silver to the one-thousandth part (one millieme) except that, when the millesimal fineness of the bullion exceeds nine hundred and ninety, the gold shall be reported to the one-ten-thousandth part (one-tenth millieme); but the silver content of a deposit when below ten parts in one thousand shall not be reported.
 - (3) Where it is determined that a deposit contains less than two hundred parts of gold in one thousand by assay, or that a deposit is unsuitable for treatment by the refining process in use at the Mint, the Master shall deliver the deposit to the depositor at the Mint counter upon payment by the depositor of the Mint charges for melting and assaying.
 - (4) On the completion of the valuation of a deposit, the Master shall, unless the deposit is to be returned to the depositor under subsection (3), furnish the depositor with a memorandum of the out-turn of his deposit in duplicate in which shall be disclosed
 - (a) the weight of the deposit before and after melting,
 - (b) the assay report,

- (c) the fine gold and fine silver content of the deposit,
- (d) the gross value of the fine content at the Mint price applicable to the deposit in accordance with sections 5 and 6,
- (e) the Mint charges applicable to the deposit, and
- (f) the net value of the fine content of the deposit, being the gross value minus the Mint charges.

(5) Upon the memorandum being furnished to a depositor under subsection (4), the Minister shall pay to the depositor an amount equal to the net value of the fine content of the deposit as disclosed in the memorandum.

5. The price payable by the Minister for gold contained in a deposit that is accepted by the Master is the market price of gold in the country to which the Government of Canada is, at the time the deposit is received, exporting gold, converted into Canadian funds at the average of the buying rates of exchange for the currency of that country, reported to the Minister by the Bank of Canada at noon of the days Monday to Friday inclusive of the week during which the deposit is delivered to the Master, such price to be known as the "Mint buying price".

6. The price payable by the Minister for silver (except for the first one per cent of the weight of the deposit after melting) contained in a deposit is the average of the official New York daily quotation for fine silver for the days Monday to Friday inclusive of the week in which the deposit is delivered to the Master, converted into Canadian funds at the average of the buying rates of exchange for United States funds reported to the Minister by the Bank of Canada at noon on the days Monday to Friday inclusive of that week, but this section does not apply when the silver content does not exceed one per cent of the weight of the deposit.

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

- (a) for melting and assaying,—one dollar for the first four hundred ounces or part thereof and twenty-five cents for each additional one hundred ounces or part thereof;
- (b) for refining,—when the deposit contains not more than five per cent base metal..... three cents per ounce,
Over five per cent but not over ten per cent base metal..... three and one-half cents per ounce,

Over ten per cent but not over fifteen per cent base metal four and one-quarter cents per ounce,

Over fifteen per cent but not over twenty per cent base metal..... five cents per ounce,
- (c) handling charge to cover costs of marketing outside Canada
 - (i) newly mined Canadian gold..... twenty cents per fine ounce,
 - (ii) all other gold one dollar per fine ounce,
- (d) on deposits which contain over twenty per cent base metal, or which require toughening or other special treatment in order to obtain concordant assays, a charge, not exceeding ten cents per ounce, to be determined by the cost of treatment;
- (e) the minimum charge for refining shall be two dollars for each deposit, and the charge for refining applies to all deposits containing by assay less than nine hundred and ninety-five parts fine gold in one thousand.

8. (1) The Master may, from time to time, sell fine gold from the Mint if the Minister has authorized him to do so.

(2) The price payable for each ounce of gold sold under subsection (1) shall be the Mint buying price per ounce established in accordance with section 5 for the week immediately preceding the week in which the gold is sold, plus ten cents.

(3) The Master may issue fine gold from the Mint in part payment of the net value of the fine content of a deposit.

9. (1) Deposits may be delivered to the Mint on Monday to Friday inclusive between the hours of 9.30 a.m. and 4.30 p.m., unless such a day is a day to be observed as a holiday under the Civil Service Act.

(2) All deposits that are tendered to the Minister for purchase by him shall be delivered to the Master at the Mint counter, free of all charges.

(3) Where a package is received at the Mint by mail or carrier, it shall not be opened until an invoice setting out the description and weight of the contents has been received by the Master and where there is a discrepancy between the actual and invoice weights of a deposit, the deposit shall not be further dealt with until the Master has notified the depositor of the discrepancy and has received further instructions from the depositor.

(4) Gold sold by the Minister shall be delivered at the Mint counter at Ottawa to the purchaser or a carrier or other agent acting on behalf of the purchaser.

(5) A deposit that is to be returned to a depositor shall be delivered, at the Mint counter at the place where the deposit is when the Master decides to return it to the depositor or a carrier or other agent acting on behalf of the depositor.

CURRENCY, MINT AND EXCHANGE FUND ACT - MINT CUSTOM REFINING AND STORING REGULATIONS

P.C. 1954-1619-28th day of October, 1954.

1. The Mint Custom Refining and Storing Regulations, established by Order in Council P.C. 1953-1944 of 17th December, 1953, are hereby revoked; and

2. The annexed "Mint Custom Refining and Storing Regulations" are hereby made and established in substitution for the regulations hereby revoked.

Regulations Prescribing the Circumstances under which and the Conditions upon which Gold will be accepted at the Mint for Custom Refining and Storing

1. These regulations may be cited as the Mint Custom Refining and Storing Regulations.

2. (1) In these regulations,

- (a) "appropriate form" means the form of the instrument or document prescribed by the Minister for a particular purpose;
- (b) "designated gold" means gold produced from a mine of a producer, on or after the elected date;
- (c) "elected date" means, with respect to a producer, the first day of January, April, July or October, as the producer designates, with the approval of the Minister, in making his election in the appropriate form;
- (d) "producer" means a person or corporation engaged in producing gold from a mine who has made an election by instrument in the appropriate form delivered to the Minister;
- (e) "processor" means a person or corporation engaged in the business of processing gold in Canada who makes application and gives an undertaking in the appropriate form, and whose application has been accepted by the Minister and who has not subsequently been disqualified under section 8.

(2) The Minister shall not approve a date as the elected date in respect of a producer unless the producer has, before the expiry of thirty days from that date, delivered to the Minister an election in the appropriate form designating that date as the elected date.

3. (1) Upon application by a producer in the appropriate form the Minister may accept designated gold at the Mint for assaying, refining and storing on behalf of the producer.

(2) Where a producer, in accordance with a licence issued under the Gold Export Act,

- (a) ships designated gold from Canada to be smelted or refined and subsequently sells the refined gold outside Canada, or

- (b) sells designated gold to a smelter or refiner outside Canada, at a price that, in the opinion of the Minister, does not exceed the Mint price, the Minister may, upon being satisfied that the gold has been so sold, sell to the producer an amount of gold equivalent to the amount so sold and, subject to section 4, store it at the Mint for the producer.

4. (1) Gold accepted at the Mint for assaying, refining or storing under these regulations is so accepted subject to the condition that it shall be released, in the form of fine gold (.995 fine or better), only upon application in accordance with these regulations made by or on behalf of the producer,

- (a) for sale and delivery to a processor, in an amount that, in the opinion of the Minister, does not exceed the normal requirements of the processor and if, in the opinion of the Minister, it will be used for bona fide industrial purposes in Canada;
- (b) for export on behalf of the producer in accordance with a licence issued under the Gold Export Act; or
- (c) for sale to Her Majesty at the Mint at the official price for the purchase of gold by Her Majesty at the Mint for the week in which the sale is made;

and for no other purpose.

(2) Where gold is released from the Mint to a producer, pursuant to these regulations, it shall be delivered, at the Mint counter at Ottawa, to a consignee designated by the producer, or to a carrier or other agent acting on behalf of the consignee.

5. For the purpose of these regulations,

- (a) an application by a producer for sale and delivery of gold in accordance with paragraph (a) of subsection (1) of section 4 shall be in the appropriate form, and shall be accompanied by an offer to purchase gold in the appropriate form; and
- (b) an application by a producer for delivery of gold in accordance with paragraph (b) of subsection (1) of section 4 shall be in the appropriate form and shall be accompanied by the original or a photostatic copy of the import licence issued by the appropriate authority in the country of destination in respect of the proposed transaction, if such a licence is required.

6. The following Mint service charges are payable by a producer:

- (a) where gold is melted, assayed or refined for the producer at the Mint, an amount in respect of the melting, assaying or refining calculated at the rates then prescribed therefor by the Gold Bullion Regulations in respect of deposits of gold at the Mint, payable when billed;
- (b) one cent for every thirty days or fraction thereof (including the day on which the gold is received at the Mint but excluding the day on which it is shipped from the Mint) for each ounce of gold stored for the producer at the Mint, payable at the time of application for release of the gold or when billed, whichever is the earlier;
- (c) ten cents for each ounce of gold packed for shipment at the Mint on the direction of the producer, payable at the time of application for release of the gold; and
- (d) a handling charge of twenty cents for each ounce of gold sold to Her Majesty, payable at the time of sale.

7. The silver content of the gold bullion delivered to the Mint by a producer under these regulations may be purchased by Her Majesty at the official price for the purchase of silver by Her Majesty at the Mint for the week in which it is so purchased.

8. (1) Where a person or corporation engaged in the business of processing gold in Canada makes application and gives an undertaking in the appropriate form, the Minister may accept the application if he is satisfied that the applicant is engaged in a bona fide enterprise for the processing of gold and will carry out the undertaking in good faith.

(2) Where the Minister has reason to believe that a processor has failed to carry out any part of the undertaking given by him in the appropriate form, or that gold sold to a processor has been dealt with in a manner contrary to the undertaking, he may, by notice in writing delivered to the processor, disqualify the processor.

9. Notwithstanding anything in these regulations,

- (a) the Minister may designate a corporation that has adequate facilities for refining and storing gold as his agent to perform the services that would otherwise be performed at the Mint for a producer under these regulations, and may enter into such agreements as he deems necessary for the purpose; and
- (b) services may be performed by an agent designated under this section only upon such terms and conditions as the Minister prescribes and the Minister may, in his discretion, for the purposes of this section, fix such charges in lieu of those prescribed by section 6 and make such other financial arrangements as he deems advisable.

**CURRENCY, MINT AND EXCHANGE FUND ACT—AMENDMENT,
MINT CUSTOM REFINING AND STORING REGULATIONS**

P.C. 1955-649

Thursday, the 5th day of May, 1955.

Present:

His Excellency the Governor General in Council

His Excellency the Governor General in Council, on the recommendation of the Minister of Finance and pursuant to the Currency, Mint and Exchange Fund Act, is pleased to amend the Mint Custom Refining and Storing Regulations made and established by Order in Council P.C. 1954-1619 of 28th October, 1954, and the said Regulations are hereby amended by deleting from subsection (1) of section 4 the word "or" at the end of paragraph (b) thereof, by adding the word "or" at the end of paragraph (c) thereof, and by adding thereto immediately after paragraph (c) thereof, the following new paragraph (d):

- (d) for sale, either directly or indirectly, to the International Monetary Fund, to the Bank for International Settlements, or to a central bank of any country other than Canada, for the purpose of being held in safe-keeping in Canada or for the purpose of being exported from Canada in accordance with a licence issued under the Gold Export Act.

Designated Gold

During the year five mines deposited gold bullion at the Mint for storage under the terms of the Regulations prescribing the circumstances under which and the conditions upon which gold will be accepted at the Royal Canadian Mint for Custom Refining and Storing.

The fine gold content of the bullion deposited under this heading during 1955 amounted to 184,504.650 ounces. Fine bullion amounting to 190,747.901 ounces was issued on behalf of the mines for export and to various processors for domestic use.

Directory of Firms in the Gold Mining Industry, 1955

Name	Head or executive office address	Location
(a) Alluvial Gold Mining Industry		
British Columbia:		
Beaver Pass Gold Placers	Ladner	Beaver Pass
Brown & Brady	921 - 17th Ave. W., Calgary, Alberta	Boulder Creek
Castles & Tanner	409 Dieppe Blvd., Lethbridge, Alberta	Maus Creek
Channel Placers, Inc.	2706 Beacon Ave., Seattle, Washington, U.S.A.	Lightning Creek
Chase, Edwin M.	Horsefly	Horsefly
Christensen, Harold C.	Wells	Cariboo
Cassell, Barksdale & Bingham	323 Medical Bldg., Seattle, Washington, U.S.A.	Keithley Creek
Cresswell, Richard	Quesnel	Cottonwood River
Enterprise Placers	Atlin	Atlin
Feyer, J.H.	Beaver Pass via Quesnel	Quesnel
Fosberg, P.H.V.	Lumby	Vernon
Fredericks, F.	Likely	Quesnel
Gagen, G.S.	Cottonwood	Gagen Creek
Germanson River Placers	Manson Creek	Germanson River
Haymore, Will.	Goldbridge	Lillooet
Holland, John	Wells	Cariboo
Hixon Placers Inc.	2032 - 3rd Ave., Seattle, Washington, U.S.A.	Hixon
Ivanic, S. & Partners	Atlin	Spruce Creek
Johnson, Edward M.	Barkerville	Campbell Creek
Larson, Eric G.	Telegraph Creek	Boulder Creek
Lawless Creek Mining Co.	1209 - 41st St., Everett, Washington, U.S.A.	Quesnel
Loper & Pendle	Sardis	Germanson River
MacColm & Hougou Holdings Ltd.	Wells	Beaver Pass
McKee, J.H.	305 Cambie St., Vancouver	Lillooet
Mink Gulch Placer Mine	3372 N. Central Ave., Chicago, Ill., U.S.A.	Wells
MacDonald, P.J.	Cottonwood	Mosquito Creek
Noland Mines Ltd.	532 Burrard St., Vancouver	Atlin
Old Channel Placers	Allenby	Similkameen
Piccolo Bros.	Atlin	Atlin
Shuttle Island Placer Mines	Tiell	Queen Charlotte Islands
Suran, Wm.	Wells	Cariboo
Wader, Lloyd.	Sicamous.	Revelstoke
Yalakom Placers	3439 Euclid St., Vancouver.	British River
Yukon:		
Ballarat Mines Ltd.	Dawson	Bonanza Creek
Boutillier, D.F. & H.C.	Dawson	Bonanza Creek
Boutillier, H. & H.	Box 437, Dawson	Dawson
Bratsberg, B.	1682 MacGowan Ave., N. Vancouver, British Columbia ..	Dawson
Bradbury & Cooper	Glacier	Last Chance Creek
Bremner, John	Dawson	Burwash Creek
Burwash Mining Co. Ltd.	Box 776, Whitehorse	Cariboo Creek
Castonguay, J.P.	Dawson	Bunker Hill
Cole Bros.	Dawson	Bonanza Creek
Coulombe, A. & A.	Dawson	Dawson
Feichtinger, J.	Glacier Creek	Bonanza Creek
Fry, A. T. & D.	Box 907, Dawson	Dawson
Gould, J.A. & R.S.	P.O. Box 328, Dawson	Gladstone Creek
Kluane Dredging Co. Ltd.	Box 762, Whitehorse	Quartz Creek
Lundin, John E.	Box 923, Dawson	Hunker Creek
Nelson, J.A.	2822 Charles St., Vancouver, British Columbia	Adams Creek
Northern Placers Ltd.	Box 513, Dawson	Bonanza Creek
Pamuchina, P.	Dawson	Dawson
Pontaletta, P.	Dawson	Dawson
Sestak, Joe.	Dawson	Gold Bottom Creek
Shaw, Geo. O.	Dawson	Quartz Creek
Strugar, J.	Dawson	Dublin Gulch
Taylor, Fred.	Mayo	Little Gold Creek
Terra Mines Ltd.	Glacier	Bullion Creek
Thorsen, Harry	Box 509, Whitehorse	Bonanza Creek
Troberg, R.E.	Dawson	Haggart Creek
Waddco Placers Ltd.	1331 Marine Bldg., Vancouver, British Columbia	Dawson
Yukon Consolidated Gold Corporation	1919 Marine Bldg., Vancouver, British Columbia	Henderson Creek
Yukon Gold Placers Ltd.	Dawson	Glacier Creek
Yukon Placer Mining Co.	Glacier Creek	Henry Gulch
Zavasky, Kornel.	Dawson	
Quebec:		
Winget, C.M.	75 Main St., Lennoxville	Ditton River
Alberta:		
Cook, Thos. E.	8334 - 79 Ave., Edmonton	North Saskatchewan River
Staley, T.	Devon	North Saskatchewan River

Directory of Firms in the Gold Mining Industry, 1955 — Continued

Name	Head or executive office address	Location
(b) Auriferous Quartz Mining Industry		
Nova Scotia:		
Smith, A.J.	East Chezzetcook	Lake Catcha
Renfrew Gold Mines Ltd.	Brookfield	Renfrew Co.
Redden, Fred C.	Middle Musquodobit	Lindsay Lake
Quebec:		
Amalgamated Chibougamau Gold Mines Ltd.	477 St-Francois-Xavier St., Montreal	Chibougamau
Barnat Mines Ltd.	56 Sparks St., Ottawa, Ontario	Malartic, Quebec
Bagamac Mines Ltd.	Oak Ridges, Ontario	Rouyn
Bellettre Quebec Mines, Ltd.	25 King St. W., Toronto 1, Ontario	Bellettre
Beattie-Duquesne Mines Ltd.	Duparquet	Duparquet
Beaudelair Mines Ltd.	217 Bay St., Toronto, Ontario	Dufresnoy Twp.
Belle Chibougamau Mines Ltd.	50 King St. W., Toronto, Ontario	Chibougamau
Bevcon Gold Mines, Ltd.	200 Bay St., Toronto, Ontario	Louvicoourt
Bourbeau Lake Mines Ltd.	Noranda	McKenzie Twp.
Canadian Malartic Gold Mines Ltd.	25 King St. W., Toronto 1, Ontario	Malartic
Celta Development & Mining Co., Ltd.	465 St. John St., Montreal	Rouyn Twp.
Cheskirk Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Rouyn Twp.
Chimo Gold Mines Ltd.	25 Adelaide St. W., Toronto, Ontario	Vauquelin Twp.
Cournor Mining Co., Ltd.	1121 Sherbrooke St. W., Montreal	Louvicoourt Twp.
Consolidated Central Cadillac Mines Ltd.	507 Place d'Armes, Montreal	Cadillac
D'Eldona Gold Mines Ltd.	310 Temple Building, Toronto, Ontario	Rouyn Twp.
Donalda Mines Ltd.	464 St. John St., Montreal	Noranda
Dubuisson Mines Ltd.	134 St. James St. W., Montreal	Dubuisson
East Malartic Mines Ltd.	355 St. James St. W., Montreal	Fourniere Twp.
Elder Mines, Ltd.	44 King St. W., Toronto, Ontario	Noranda Twp.
Eldrich Mines Ltd.	44 King St. W., Toronto, Ontario	Duprat
Fayolle-Antoine	175, rue Noranda ouest, Rouyn	Dasserat
Lake Opawica Mines Ltd.	516 Canada Cement Bldg., Montreal	Parker Twp.
Lake Wasa Mining Corporation	Amfield	
Lamaque Mining Co., Ltd.	Bourlamaque	Bourlamaque
Leys, Wm., Mining Corp. Ltd.	486 St. John St., Montreal	Beauchastel
Louvicoourt Goldfields Corporation	100 Adelaide St. W., Toronto, Ontario	Bourlamaque
Malartic Gold Fields Ltd.	355 St. James St. W., Montreal	Fourniere Twp.
Mariette Mines Ltd.	1197 Phillips Square, Montreal	Fledmont
McWatters Gold Mines	Halleybury, Ontario	Rouyn Twp.
Nemrod Mining Co., Ltd.	4 East Notre Dame St., Montreal	Louvicoourt
New Hosco Mines Ltd.	357 Bay St., Toronto, Ontario	Joannes Twp.
New Marlon Gold Mines Ltd.	7 King St. W., Toronto, Ontario	Rouyn
New Mylamaque Explorations Ltd.	145 Yonge St., Toronto, Ontario	Bourlamaque
New Senator-Rouyn Ltd.	Box 428, Noranda	Noranda
New Thurobois Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Destor
Nordis Gold Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Beauchastel Twp.
O'Brien Gold Mines, Ltd.	Kewagama	Cadillac Twp.
Orenada Gold Mines Ltd.	330 Bay St., Toronto, Ontario	Bourlamaque
Oslsko Rouyn Exploration Co., Ltd.	360 St. James St. West, Montreal	Rouyn Twp.
Perron Gold Mines Ltd.	200 Bay St., Toronto, Ontario	Abitibi
Powell Rouyn Gold Mines Ltd.	Box 250, Noranda	Noranda
Quartz Bleu du Saguenay Enrg., Le	B.P. 235, St-Joseph D'Alma	Labarre
Quebec Diversified Mining Corp., Ltd.	2006 Bleury St., Montreal	Barraute
Quebec Explorers	132 St. Jacques, Montreal	Vauqualin Twp.
Regcourt Gold Mines Ltd.	25 Adelaide St. W., Toronto, Ontario	Destor
Rickey Petroleum & Mines Ltd.	15 King St. W., Toronto, Ontario	Blondeau
Sigma Mines (Quebec) Ltd.	Bourlamaque	Bourlamaque
Siscoe Gold Mines Ltd.	907 Dominion Square Bldg., Montreal	Siscoe Island
Stadacona Mines (1944) Ltd.	P.O. Box 390, Rouyn	Rouyn
Sullivan Consolidated Mines Ltd.	1403 — Aldred Building, Montreal	Dubuisson Twp.
Ontario:		
Porcupine District		
Aunor Gold Mines Ltd.	44 King St. W., Toronto	Timmins
Broulan Reef Mines Ltd.	1705 Sterling Tower Bldg., 372 Bay St., Toronto	Whitney Twp.
Contiaurum Mines Ltd.	25 King St. W., Toronto	Tisdale Twp.
Delnite Mines Ltd.	Box 590, Timmins	Deloro Twp.
Dome Mines Ltd.	South Porcupine	Tisdale Twp.
Hallmor Mines Ltd.	1700 Bank of Nova Scotia Building, Toronto	Whitney Twp.
Hollinger Consolidated Gold Mines Ltd.	Timmins	Hilsp Twp.
Hugh-Pam Porcupine Mines Ltd.	50 King St. W., Toronto	Cochrane District
McIntyre Porcupine Mines Ltd.	Schumacher	Schumacher
Pamour Porcupine Mines Ltd.	Pamour	Whitney Twp.
Paymaster Consolidated Mines Ltd.	Box 100, South Porcupine	Deloro and Tisdale Twps.
Preston East Dome Mines Ltd.	Box 545, South Porcupine	South Porcupine
Kirkland Lake District		
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

Directory of Firms in the Gold Mining Industry, 1955 - Continued

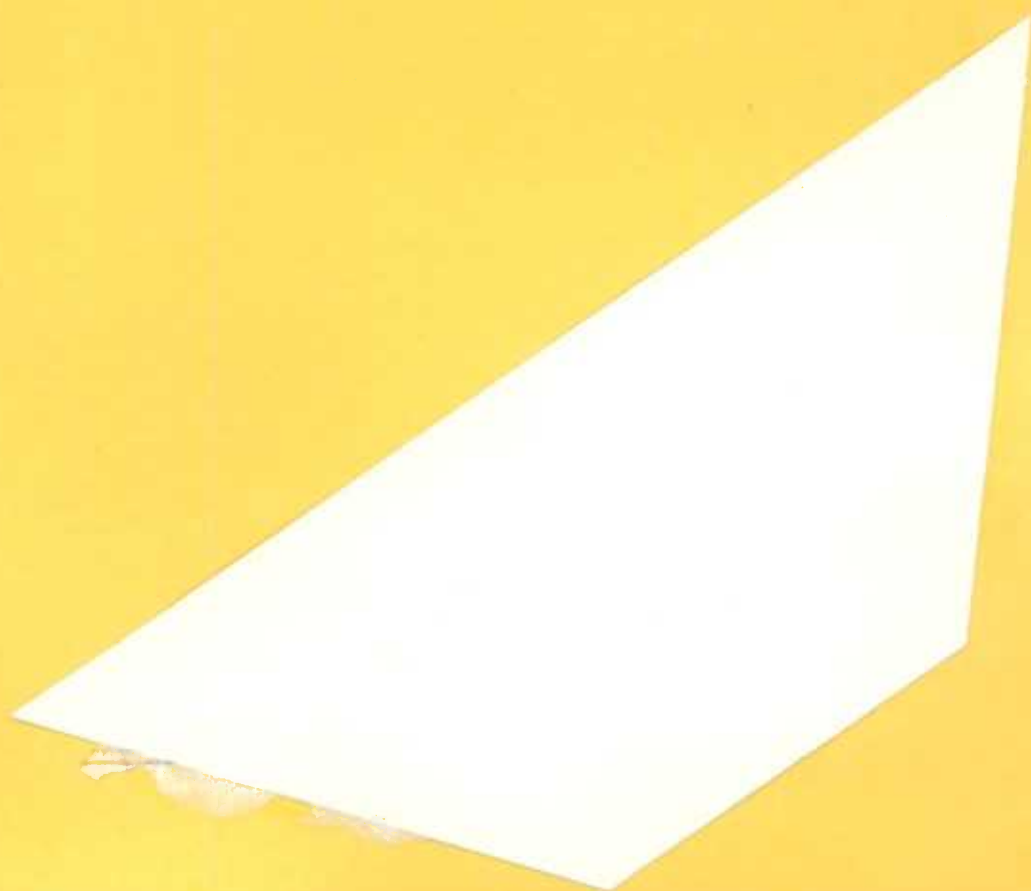
Name	Head or executive office address	Location
(b) Auriferous Quartz Mining Industry - Concluded		
Ontario—concluded:		
Kirkland Lake District—concluded		
Sylvanite Gold Mines Ltd.	Box 670, Kirkland Lake.....	Teck Twp.
Teck-Huges Gold Mines Ltd., The	14 Finkle St., Woodstock	Kirkland Lake
Upper Canada Mines Ltd.	911 Federal Building, Toronto.....	Gauthier Twp.
Wright-Hargreaves Mines Ltd.	Fort Erie	Kirkland Lake
Larder Lake District		
Kerr-Addison Gold Mines Ltd.	44 King St. W., Toronto	McGarry Twp.
White-Karry Gold Mines Ltd.	184 N. Victoria St., Sarnia	Black Twp.
Matachewan District		
Hollinger Consolidated Gold Mines Ltd.	Timmins	Powell Twp.
Matachewan Consolidated Mines Ltd.	25 King St. W., Toronto.....	Powell Twp.
Sudbury District		
Chellew Mines Ltd.	357 Bay St., Toronto	Everest Lake
Renable Mines Ltd.	85 Richmond St. W., Toronto	Sudbury
Thunder Bay District		
Leitch Gold Mines Ltd.	67 Yonge St., Toronto	Summers Twp.
Little Long Lac Gold Mines Ltd.	200 Bay St., Toronto	Errington Twp.
MacLeod-Cockshutt Gold Mines Ltd.	357 Bay St., Toronto	Geraldton
Consolidated Mosher Mines Ltd.	25 King St. W., Toronto.....	Long Lac
Plator Gralouise Gold Mines Ltd.	300 Roncesvalles Ave., Toronto	Atekokan
Surgeon River Mines Ltd.	330 Bay St., Toronto	Surgeon River
Kenora District		
Cone, R. C.	Mine Centre	Kenora
Patricia District		
Campbell Red Lake Mines Ltd.	50 King St. W., Toronto.....	Balmer Twp.
Cochenour Willans Gold Mines Ltd.	801 Dominion Bank Bldg., Toronto	Dome Twp.
McKenzie Red Lake Gold Mines Ltd.	McKenzie Island.....	McKenzie Island
Madsen Red Lake Gold Mines Ltd.	67 Yonge St., Toronto	Heyson Twp.
New Dickenson Mines Ltd.	145 Yonge St. W., Toronto	Balmer Twp.
Pickle Crow Gold Mines, Ltd.	Pickle Crow.....	Connell Twp.
Starratt Olsen Gold Mines Ltd.	25 King St. W., Toronto.....	Baird Twp.
Manitoba:		
Forty-Four Mines Ltd.	237 Curry Bldg., Winnipeg	Rice Lake
Britannia Mining & Smelting Co. Ltd.	Snow Lake	Snow Lake
San Antonio Gold Mines Ltd.	237 Curry Bldg., Winnipeg	Bissett
British Columbia:		
Belair Mining Corp. Ltd.	717 W. Pender St., Vancouver	Osoyoos
Bralorne Mines, Ltd.	555 Burrard St., Vancouver.....	Bralorne
Cariboo Gold Quartz Mining Co. Ltd.	675 W. Hastings St., Vancouver.....	Cariboo
Chidley & Emerson	Kyuquot	Kyuquot
Consolidated Mining & Smelting Co. Ltd.	Trail	Skeena
Foundation Mines Ltd.	845 Howe St., Vancouver	Hope
Noranda Exploration Co. Ltd.	Noranda, Quebec.....	Alberni
Kelowna Mines Hedley Ltd.	Hedley	Osoyoos & Slocan
Pioneer Gold Mines of B.C., Ltd.	711 Yorkshire Bldg., Vancouver	Lillooet
Privateer Mine Ltd.	184 Bay St., Vancouver.....	Zeballos
Snowdrop Mining Co.	Rossland	Trail Creek
Northwest Territories:		
Akaiicho Yellowknife Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Yellowknife
Boreas Yellowknife Gold Mines Ltd.	525A—7th Ave. West, Calgary, Alberta	Gordon Lake
Consolidated Mining & S. Co. of Canada, Ltd.	Trail, British Columbia.....	Yellowknife
Cons. Discovery Yellowknife Mines Ltd.	25 Adelaide St. W., Toronto, Ontario	Yellowknife
Giant Yellowknife Gold Mines Ltd.	25 King St. W., Toronto, Ontario	Yellowknife
Prelude Lake Mines Ltd.	184 Bay St., Toronto, Ontario	Yellowknife
Thompson-Lundmark Gold Mines Ltd.	360 Bay St., Toronto, Ontario	Yellowknife

Directory of Firms in the Gold Mining Industry, 1955 - Continued

Name	Head or executive office address	Location
(c) Copper-Gold-Silver Mining Industry		
Newfoundland:		
Gullbridge Mines Ltd.	330 Bay St., Toronto, Ontario	Gull Pond
Kontiki Lead & Zinc Mines	330 Bay St., Toronto, Ontario	Terra Nova
Nova Scotia:		
Gordon Minerals	452 Barrington St., Halifax	Cape Breton
King Copper Mining Corp.	1519 Pine Ave. W., Montreal, Quebec	Oxford
New Brunswick:		
Area Mines Ltd.	44 King St. W., Toronto, Ontario	Bathurst
Bellechasse Mining Corp. Ltd.	620 Cathcart St., Montreal, Quebec	North Esk
Canagau Gold Mines Ltd.	372 Bay St., Toronto, Ontario	Bathurst
Celta Development & Mining Co. Ltd.	465 St. John St., Montreal, Quebec	Gloucester
Evenlode Gold Mines Ltd.	372 Bay St., Toronto, Ontario	Little River
Heath Stule Mines Ltd.	Box 280, Newcastle	Northumberland
Kennco Exploration (Canada) Ltd.	25 King St. W., Toronto, Ontario	Newcastle
Miramichi Mines Ltd.	25 King St. W., Toronto, Ontario	Newcastle
New Alger Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Northumberland
New Goldvue Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Miramichi
Newnorth Gold Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Newcastle
New Senator Rouyn Ltd.	Noranda, Quebec	Newcastle
Norsac Minerals Ltd.	35 Bedford Row, Halifax, N.S.	Westmoreland
Pacific (Eastern) Gold Mines Ltd.	255 Bay St., Toronto, Ontario	Nepisiguit River
Quebec Smelting & Refining Ltd.	215 St. James St. W., Montreal, Quebec	Gloucester
Roche Long Lac Gold Mines Ltd.	372 Bay St., Toronto, Ontario	Bathurst
Sladen (Quebec) Ltd.	44 King St. W., Toronto, Ontario	Bathurst
Timmins, N.A., (1938) Ltd.	1010 Canada Cement Bldg., Montreal, Quebec	Bathurst
Titanic Mine Holdings Ltd.	215 St. James St. W., Montreal, Quebec	Gloucester
Quebec:		
Alta Mines Ltd.	141 Pagnuelo St., Outremont	Bartouille
American Metal Co. Ltd.	25 Adelaide St. W., Montreal	Trout Lake
Aurdome Exploration Ltd.	80 Richmond St. W., Toronto, Ontario	Desmeloizes
Bateman Bay Mining Co.	1240 Drummond St., Montreal	McKenzie Twp.
Bornite Copper Corp. Ltd.	34 Gamble St. E., Rouyn	Desmeloizes
Bouzan Mines Ltd.	7 King St. W., Toronto, Ontario	McKenzie Twp.
Brosman Chibougamau Mines Ltd.	360 St. James St. W., Montreal	McKenzie Twp.
Burrex Mines Ltd.	603 Temple Bldg., Toronto, Ontario	Dollier Twp.
Campbell Chibougamau Mines Ltd.	660 Ste-Catherine St., Montreal	Merrill Island
Canadian Shield Mining Corp. Ltd.	5 St. James St. E., Montreal	Figuary Twp.
Cartier Exploration Co.	18 est Beaubien, Montreal	Macamic
Chedabucto Mining Corp. Ltd.	80 Richmond St. W., Toronto, Ontario	Desmeloizes Twp.
Chib-Kayrand Copper Mines Ltd.	50 King St. W., Toronto, Ontario	Obalski Twp.
Chibougamau Explorers Ltd.	620 Cathcart St., Montreal	La Dauversière
Chibougamau Mining & Smelting Co. Inc.	660 Ste-Catherine St. W., Montreal	Obalski Twp.
Cleveland Copper Corp.	455 Craig St. W., Montreal	Cleveland Twp.
Copa Mining Corp. Ltd.	132 St. James St. W., Montreal	St. Denis Twp.
Conwest Exploration Co. Ltd.	Spencerville, Ontario	Villebon Twp.
Copper Cliff Consolidated Mining Corp.	44 St. Joseph Blvd., Dorval	Chibougamau
Dehor Chibougamau Mines Ltd.	477, rue St-Francois Xavier, Montreal	Chibougamau
Duvar Copper Co., Ltd.	Box 190, Rouyn	Desmeloizes Twp.
Endeavor Mining Corp. Ltd.	7 King St. W., Toronto, Ontario	Levy Twp.
East Sullivan Mines Ltd.	1403 Aldred Bldg., Montreal	Bourlamaque Twp.
Gan Copper Mines Ltd.	62 Richmond St. W., Toronto, Ontario	Beauchastel Twp.
Gaspé Metals Ltd.	159, ouest rue Craig, Montreal	Holland
Gaspé Copper Mines Ltd.	44 King St. W., Toronto, Ontario	Holland Twp.
Grandives Mines Ltd.	330 Bay St., Toronto, Ontario	Abitibi
Gerido Lake Mines Ltd.	200 Bay St., Toronto, Ontario	Gerido Lake
Glen Echo Mines Ltd.	217 Bay St., Toronto, Ontario	Chibougamau
Harrison Minerals Ltd.	145 Yonge St., Toronto, Ontario	Denain Twp.
Hayle Mining Co. Ltd.	Haileybury, Ontario	Levy Twp.
Imperial Minerals Ltd.	1255 Phillips Square, Montreal	Matapedia Twp.
Jaculet Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Chibougamau
Jacobus Mining Corp. Ltd.	25 Adelaide St. W., Toronto, Ontario	Obalski Twp.
Laduboro Oil Ltd.	84 Bon-Air, Ste-Foy	Lac Glace
Lake Dufault Mines Ltd.	25 King St. W., Toronto, Ontario	Dufresnoy Twp.
Lambton Copper Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	St-Fabien
Laurentide (Chibougamau) Mines Ltd.	360 Craig St. W., Montreal	Scott Twp.
Lingside Copper Mining Co. Ltd.	62 Richmond St. W., Toronto, Ontario	Levy Twp.
Lyndhurst Mining Co., Ltd.	302 Bay St., Toronto, Ontario	Testor Twp.
Mallen Red Lake Gold Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Clericy Twp.
McKenzie Northern Mines Ltd.	360 Craig St. W., Montreal	McKenzie Twp.
Mining Corp. of Canada, Ltd.	44 King St. W., Toronto, Ontario	Clermont Twp.
Mogul Mining Corp. Ltd.	25 Adelaide St. W., Toronto, Ontario	Cartier Twp.
Mid-North Engineering Services Ltd.	145 Yonge St., Toronto, Ontario	Duprat Twp.
Miller Copper Mines Ltd.	1610 Sherbrooke St. W., Montreal	Holland Twp.
New Metalore Mining Co. Ltd.	80 Richmond St. W., Toronto, Ontario	Perron Twp.
New Goldvue Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	La Motte Twp.
New Vinroy Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Dufresnoy Twp.
New Royran Copper Mines Ltd.	215 St. James St. W., Montreal	Mackenzie Twp.
New Rouyn Merger Mines Ltd.	10 Adelaide St. E., Toronto, Ontario	Chibougamau
Noranda Mines Ltd.	1709 Bank of Nova Scotia Bldg., Toronto, Ontario	Noranda
Normetal Mining Corp., Ltd.	44 King St. W., Toronto, Ontario	Lesmeloizes Twp.
Obalski (1945) Ltd.	630 Dorchester St. W., Montreal	Chibougamau
Odyno Exploration & Développement Ltée	115, 7ième rue, Noranda	Clericy
Opemiska Copper Mines (Quebec) Ltd.	25 King St. W., Toronto, Ontario	Opemiska
Osisko Lake Mines Ltd.	25 King St. W., Toronto, Ontario	Rouyn Twp.

Directory of Firms in the Gold Mining Industry, 1955 — Concluded

Name	Head or executive office address	Location
(c) Copper-Gold-Silver Mining Industry — Concluded		
Quebec — concluded:		
Parkway Mines Ltd.	200 Bay St., Toronto, Ontario	Duparquet Twp.
Portage Island (Chibougamau) Mines Ltd.	630 Lorchester St. W., Montreal	Roy Twp.
Quebec Copper Corp., Ltd.	1403 Aldred Bldg., Montreal	Brome
Quebec Smelting & Refining Ltd.	215 St. James St. W., Montreal	McKenzie Twp.
Quemont Mining Corp., Ltd.	44 King St. W., Toronto, Ontario	Rouyn Twp.
Rainville Mines Ltd.	25 King St. W., Toronto, Ontario	Louvigny Twp.
Richard Copper Corp. Ltd.	Halleybury, Ontario	Distor Twp.
Rio Canadian Exploration Ltd.	200 Bay St., Toronto, Ontario	Gaspesia
Senneterre Metals Mines Ltd.	Senneterre	Senneterre
South Bachelor Mining Co., Ltd.	221 St. Paul St. W., Montreal	Le Tac Twp.
Stratmat Ltd.	620 Cathcart St., Montreal	McKenzie Twp.
Ungava Copper Corp.	80 Richmond St. W., Toronto, Ontario	Canton #6044
Waite Amulet Mines Ltd.	Noranda	Duprat Twp.
Weedon Pyrite & Copper Corp. Ltd.	455 Craig St. West, Montreal	Fontainebleau
West Wasa Mines Ltd.	480 Brookdale Ave., Toronto, Ontario	Beauchastel Twp.
Ontario:		
Aberdoon Mines Ltd.	604 Queen St. E., Sault Ste Marie	Tarbutt Twp.
Apex Consolidated Resources Ltd.	100 Adelaide St. W., Toronto	Atikwa Lake
Alba Explorations Ltd.	100 Adelaide St. W., Toronto	Davis Twp.
Baseline Mines Ltd.	145 Yonge St., Toronto	Manitouwadge
Cam Copper Mine	Boston Creek	Boston Creek
Coldstream Copper Mines Ltd.	7 King St. W., Toronto	Kasabowie
Consolidated Marberdour Mines Ltd.	25 Adelaide St. W., Toronto	Tashota
Copper Corp. Ltd.	25 King St. W., Toronto	Mamainse Point
Copper Jim Mines Ltd.	Box 815, Kirkland Lake	O'Sullivan Lake
Dupel Mines Ltd.	314 Bathurst St., Toronto	Hindon Twp.
Delmico Mines Ltd.	25 Adelaide St. W., Toronto	Tashota
Ex-Mother Lode	Elk Lake	Elk Lake
Geco Mines Ltd.	44 King St. W., Toronto	Manitouwadge
Glenburk Mines Ltd.	357 Bay St., Toronto	Manitouwadge
Headway Red Lake Gold Mines Ltd.	67 Yonge St., Toronto	Manitouwadge
Killala Lake Mines Ltd.	100 Adelaide St. W., Toronto	Manitouwadge
Kristina Copper Mines Ltd.	34 Touraine Ave., Wilson Heights	Algoma
Laco Mines Ltd.	200 Bay St., Toronto	Manitouwadge
Man-Echo Mines Ltd.	67 Yonge St., Toronto	Manitouwadge
Mirla Exploration Ltd.	Box 278, Kirkland Lake	Boston Creek
Nama Creek Mines Ltd.	330 Bay St., Toronto	Manitouwadge
New Kelore Mines Ltd.	67 Yonge St., Toronto	Jamieson Twp.
Min-Ore Mines Ltd.	80 Richmond St. W., Toronto	Powell Twp.
Okleco Mines Ltd.	200 Bay St., Toronto	Manitouwadge
Oklend Gold Mines Ltd.	200 Bay St., Toronto	Manitouwadge
Parbar Mines Ltd.	100 Adelaide St. W., Toronto	Manitouwadge
Poly Ores Mining Co., Ltd.	331 Bay St., Toronto	Shedden Twp.
Sheroomac	Box 150, Fergus	Boston Twp.
Tandem Mines Ltd.	330 Bay St., Toronto	Manitouwadge
Temagami Mining Co. Ltd.	25 Adelaide St. W., Toronto	Temagami
Wadge Mines Ltd.	145 Yonge St., Toronto	Manitouwadge
Willroy Mines Ltd.	244 Bay St., Toronto	Manitouwadge
Manitoba:		
Hudson Bay Mining & Smelting Company Ltd.	500 Royal Bank Bldg., Winnipeg	Flin Flon
Northern Metals Ltd.	217 St. Germaine Ave., Toronto, Ontario	Schist Lake
De Ville Copper Mines Ltd.	85 Richmond St., Toronto, Ontario	Flin Flon
Don Jon Mines Ltd.	500 Royal Bank Bldg., Winnipeg	Flin Flon
North Star Mine	500 Royal Bank Bldg., Winnipeg	Flin Flon
Schist Lake Mine	500 Royal Bank Bldg., Winnipeg	Flin Flon
Saskatchewan:		
Anglo-Rouyn Mines Ltd.	44 King St. W., Toronto, Ontario	Wadin Bay
Glenn Uranium Mines Ltd.	25 Adelaide St. W., Toronto, Ontario	Pitching Lake
Hudson Bay Mining & Smelting Co., Limited	500 Royal Bank Bldg., Winnipeg, Manitoba	Flin Flon
British Columbia:		
Bethlem Copper Corp. Ltd.	402 W. Pender St., Vancouver	Highland Valley
Britannia Mining & Smelting Co. Ltd.	Britannia Beach	Britannia Beach
Consolidated Mining & Smelting Co. Ltd.	Trail	Skeena
Canam Copper Co., Ltd.	25 Adelaide St. W., Toronto, Ontario	Ilope
Copper Ridge Silver Zinc Mines Ltd.	532 Burrard St., Vancouver	Omineca
Cowichan Copper Co., Ltd.	Box 320, Lake Cowichan	Iloneymoon Bay
Dunmore Mines Ltd.	640 W. Hastings St., Vancouver	Kamloops
Farwest Tungsten Copper Mines Ltd.	1178 W. Pender St., Vancouver	Kamloops
Granby Consolidated Mining, Smelting & Power Co., Ltd.	1111 W. Georgia St., Vancouver	Similkameen
Granduc Mines Ltd.	1111 W. Georgia St., Vancouver	Leduc Glacier
Highland Valley Mining Corp. Ltd.	569 Howe St., Vancouver	Ashcroft
Makadoo Development Ltd.	1208 Vancouver Block, Vancouver	Kamloops
Maple Bay Copper Mines Ltd.	357 Bay St., Toronto, Ontario	Skeena
Nicholson Creek Mining	301 Insurance Bldg., Seattle, Washington, U.S.A.	Usk
Rico Copper Mines Ltd.	413 Granville St., Vancouver	Laidlaw
Skeena Silver Mines Ltd.	850 W. Hastings St., Vancouver	Highland Valley
Salmo Prince Mines Ltd.	413 Granville St., Vancouver	Greenwood
Tungsten of British Columbia Ltd.	717 Pender St., Vancouver	Usk
Vananda Mines (1948) Ltd.	413 Granville St., Vancouver	Nandimo
Velvet Lessees	Rosslund	Trail Creek



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