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THE GOLD MINING INDUSTRY

1958



DOMINION BUREAU OF STATISTICS

Industry and Merchandising Division



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Industry and Merchandising Division

THE GOLD MINING INDUSTRY
1958

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SYMBOLS

The interpretation of the symbols used in the tables throughout this publication is as follows:

.. Not available

... Not applicable

- Nil

THE GOLD MINING INDUSTRY

1958

Including: (a) The Placer Gold Mining Industry.
(b) The Gold 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 Placer Gold Mining Industry"; (b) the recovery of lode gold, which is designated "The Gold 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 1958 the production of gold amounted to 4,571,347 troy ounces valued at \$155,334,370 compared with 4,433,894 ounces valued at \$148,757,143 in 1957. 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 59 per cent of the total. Quebec, in second position, produced 23 per cent and Northwest Territories accounted for 7.5 per cent of the total. The other provinces ranked in the following order: British Columbia, Manitoba, Saskatchewan, Yukon, Newfoundland, Alberta, and Nova Scotia.

The price of gold in Canadian funds averaged \$33.98 per troy ounce. It ranged from \$34.62 per troy ounce in January 1958 to \$33.58 per troy ounce in July. 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, throughout the year.

TABLE 1. Production of Gold, Fifty Years, 1909-58

Year	Troy ounces	Value	Year	Troy ounces	Value
		\$			\$
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	18,598,923	1938	4,725,117	166,205,990
1914	773,178	15,983,007	1939	5,094,379	184,115,951
1915	918,056	18,977,901	1940	5,311,145	204,479,083
1916	930,492	19,234,976	1941	5,345,179	205,789,392
1917	738,831	15,272,992	1942	4,841,306	186,390,281
1918	699,681	14,463,689	1943	3,651,301	140,575,088
1919	766,764	15,850,423	1944	2,922,911	112,532,073
1920	765,007	15,814,098	1945	2,696,727	103,823,990
1921	926,329	19,148,920	1946	2,832,554	104,098,359
1922	1,263,364	26,116,050	1947	3,070,221	107,457,735
1923	1,233,341	25,495,421	1948	3,529,608	123,536,280
1924	1,525,382	31,532,443	1949	4,123,518	148,446,648
1925	1,735,735	35,880,826	1950	4,441,227	168,988,687
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
1931	2,693,892	58,093,396	1956	4,383,863	151,024,080
1932	3,044,387	71,479,373	1957	4,433,894	148,757,143
1933	2,949,309	84,350,237	1958	4,571,347	155,334,370

TABLE 2. Total (Cumulative) Recorded Production of Specified Metals to December 31, 1959

		Since	Quantity	Value
				\$
Gold	troy ounce	1858	148,209,314	4,646,123,286
Silver	"	1887	1,170,052,013	759,117,166
Copper	ton	1886	8,745,948	3,206,182,655
Nickel	"	1889	4,176,748	3,147,405,202
Lead	"	1887	6,787,392	1,043,805,062
Zinc .....	...	1898	...	1,524,526,483
Cobalt	ton	1904	28,750	84,409,963

TABLE 3. Production of Gold from Auriferous Quartz and Base Metal Mines, by Months, 1956-58

	Gold production from base metal mines			Gold production from auriferous quartz mines and placer deposits			Gold production from all types of mines		
	1956	1957	1958	1956	1957	1958	1956	1957	1958
January	50,932	49,615	48,128	318,873	309,023	330,286	369,805	358,638	378,414
February	47,060	47,811	45,211	304,909	295,015	315,174	351,969	342,826	360,385
March	55,138	55,089	50,244	328,788	320,613	344,003	383,926	375,702	394,247
April	48,272	49,528	49,454	319,374	320,723	335,729	367,646	370,251	385,183
May	49,413	43,279	49,625	325,129	332,628	335,024	374,542	375,907	384,649
June	56,437	46,152	45,521	324,137	313,569	340,289	380,574	359,721	385,810
July	54,646	52,561	46,682	296,846	313,344	335,568	351,492	365,905	382,250
August	53,834	50,938	48,651	297,858	312,863	321,077	351,692	363,801	369,728
September	46,141	48,094	52,076	306,369	327,948	325,946	352,510	376,042	378,022
October	45,477	53,434	51,267	322,908	346,259	353,061	368,385	399,693	404,328
November	47,964	49,044	46,013	319,339	329,249	325,133	367,303	378,293	371,146
December	48,760	45,761	38,333	315,259	321,354	338,852	364,019	367,115	377,185
Total	604,074	591,306	571,205	3,779,789	3,842,588	4,000,142	4,383,863	4,433,894	4,571,347

TABLE 4. Production of Gold,¹ by Provinces, 1949-58

Year	Newfoundland		Nova Scotia		Quebec		Ontario		Manitoba	
	Troy ounces	Value	Troy ounces	Value	Troy ounces	Value	Troy ounces	Value	Troy ounces	Value
	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
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	313,778	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
1956	8,213	282,938	1,279	44,061	1,036,059	35,692,233	2,513,912	86,604,268	120,232	4,141,992
1957	9,755	327,280	45	1,510	1,006,895	33,781,327	2,578,206	86,498,811	120,008	4,026,268
1958	13,381	454,686	131	4,451	1,044,846	35,503,867	2,716,514	92,307,146	87,356	2,968,357
	Saskatchewan		Alberta		British Columbia		Northwest Territories		Yukon	
1949	94,208	3,391,488	115	4,140	304,307	10,955,052	177,493	6,389,748	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
1956	82,687	2,848,567	119	4,100	196,692	6,776,040	352,669	12,149,447	72,001	2,480,434
1957	75,236	2,524,168	416	13,957	229,113	7,686,741	340,018	11,407,604	73,962	2,481,425
1958	86,590	2,942,328	282	9,582	210,612	7,156,596	343,838	11,683,615	67,745	2,301,975

¹ From all sources.

Note: New Brunswick gold in 1957; 240 ounces; in 1958; 52 ounces.

TABLE 5. Production of Gold, by Provinces, According to Nature of Ores, 1957 and 1958

Year and province	Placer gold	Auriferous quartz ores	Copper-gold- silver ores	Nickel-copper ores	Silver-lead and other ores	Total
troy ounces						
1957						
Newfoundland	—	—	464	—	9,291	9,755
Nova Scotia	—	45	—	—	—	45
New Brunswick	—	—	240	—	—	240
Quebec	—	610,482	380,482	—	15,931	1,006,895
Ontario	—	2,532,162	2,368	43,391	285	2,578,206
Manitoba	—	97,156	22,250	602	—	120,008
Saskatchewan	—	—	75,236	—	—	75,236
Alberta	416	—	—	—	—	416
British Columbia	2,105	186,495	15,139	—	25,374	229,113
Northwest Territories	73	339,945	—	—	—	340,018
Yukon	73,709	—	—	—	253	73,962
Canada	76,303	3,766,285	496,179	43,993	51,134	4,433,894
1958						
Newfoundland	—	—	3,942	—	9,439	13,381
Nova Scotia	—	131	—	—	—	131
New Brunswick	—	—	52	—	—	52
Quebec	—	662,910	366,894	—	15,042	1,044,846
Ontario	—	2,660,194	7,872	47,367	1,081	2,716,514
Manitoba	—	67,889	18,618	849	—	87,356
Saskatchewan	—	—	86,590	—	—	86,590
Alberta	282	—	—	—	—	282
British Columbia	3,928	193,225	3,969	33	9,457	210,612
Northwest Territories	—	343,838	—	—	—	343,838
Yukon	67,745	—	—	—	—	67,745
Canada	71,955	3,928,187	487,937	48,249	35,019	4,571,347

TABLE 6. Gold Production by Provinces and Principal Areas, 1956-58

Province and area	1956		1957		1958	
	Troy ounces	Value	Troy ounces	Value	Troy ounces	Value
Newfoundland		\$		\$		\$
Newfoundland	8,213	282,938	9,755	327,280	13,381	454,686
Nova Scotia	1,279	44,061	45	1,510	131	4,451
New Brunswick	-	-	240	8,052	52	1,767
Quebec:						
Gold mines	628,162	21,640,182	610,482	20,481,671	662,910	22,525,682
Base metal mines	407,897	14,052,051	396,413	13,299,656	381,936	12,978,185
Total Quebec	1,036,059	35,692,233	1,006,895	33,781,327	1,044,846	35,503,867
Ontario:						
Gold mines:						
Porcupine	1,067,740	36,783,643	1,060,038	35,564,275	1,138,190	38,675,696
Kirkland Lake	369,394	12,725,623	361,284	12,121,078	362,168	12,306,469
Larder Lake	473,235	16,302,946	519,486	17,428,755	542,269	18,426,301
Matachewan	3,649	125,708	176	5,905	64	2,175
Sudbury	33,302	1,147,254	31,276	1,049,310	27,858	946,615
Thunder Bay	101,518	3,497,295	103,312	3,466,118	107,124	3,640,073
Patricia	419,679	14,457,942	456,571	15,317,957	482,476	16,394,534
Other mines	45,395	1,563,857	46,063	1,545,413	56,365	1,915,283
Total Ontario	2,513,912	86,604,268	2,578,206	86,498,811	2,716,514	92,307,146
Manitoba:						
Gold mines	97,445	3,356,980	97,156	3,259,584	67,889	2,306,868
Other mines	22,787	785,012	22,852	766,684	19,467	661,489
Total Manitoba	120,232	4,141,992	120,008	4,026,268	87,358	2,968,357
Saskatchewan:						
Gold mines	82,687	2,848,567	75,236	2,524,168	86,590	2,942,328
Other mines	82,687	2,848,567	75,236	2,524,168	86,590	2,942,328
Alberta (placer)	119	4,100	416	13,957	282	9,582
British Columbia:						
Gold mines (lode)	158,029	5,444,099	186,495	6,256,907	193,225	6,565,786
Gold mines (placer)	2,962	102,041	2,105	70,623	3,928	133,473
Other mines	35,701	1,229,900	40,513	1,359,211	13,459	457,337
Total British Columbia	196,692	6,776,040	229,113	7,686,741	210,612	7,156,596
Northwest Territories:						
Gold mines and placer	352,669	12,149,447	340,018	11,407,604	343,838	11,683,615
Yukon (chiefly placer)	72,001	2,480,434	73,962	2,481,425	67,745	2,301,975
Total Canada	4,383,863	151,024,080	4,433,894	148,757,143	4,571,347	155,334,370

TABLE 7. Production of Gold and Silver by Principal Mines, 1958

Mine and province	Ore hoisted	Material sorted (discarded)	Ore treated	Gold produced	Silver produced	Mill capacity - 24 hours	See footnotes
tons							
Newfoundland:							
Base metal mines .....	...	...	...	13,381	1,267,078	...	...
Nova Scotia:							
Base metal mines and Mint receipts .....	...	...	...	131	4	...	...
New Brunswick:							
Base metal mines .....	...	...	...	52	51,139	...	...
Quebec:							
Anacon	176,849	6,798	170,156	35,252	25,235	500	1, 3
Batmat	215,465	-	215,840	43,256	3,501	600	1
Belleterre Quebec	106,871	2,859	103,529	17,781	20,556	300	1
Bevcon	260,098	-	259,473	31,147	12,401	800	1
Canadian Malartic	472,531	-	472,351	49,050	15,713	1,300	1
East Malartic	537,602	-	537,602	108,302	17,740	1,500	1
Elder	152,318	-	-	22,556	-	-	2
Eldrich	119,714	-	-	17,298	-	-	2
Lamaque	761,140	-	761,140	126,800	21,943	2,000	1
Malartic Goldfields	659,522	-	659,522	107,966	6,961	1,500	1
Sigma	417,777	-	417,777	76,485	15,481	1,100	1
Stadacona	117,002	2,375	114,627	13,511	3,211	400	1
Sullivan	64,601	-	64,601	12,705	2,897	500	1
Total for principal gold mines in Quebec .....	...	...	...	662,109	145,639	...	
Copper-gold and other mines .....	...	...	...	382,737	3,762,722	...	
Total Quebec .....	...	...	...	1,044,846	3,908,361	...	

TABLE 7. Production of Gold and Silver by Principal Mines, 1958 — 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	236,106	—	236,106	81,870	6,802	690	1				
Broulan Reef	133,429	—	133,429	34,983	3,091	700	1				
Coniaurum	122,460	—	122,460	25,636	5,359	500	1				
Delnite	182,145	—	181,842	44,909	3,599	520	1				
Dome	707,900	—	707,900	174,701	37,418	1,975	1,3				
Halinor	125,752	—	125,752	52,073	4,580	400	1				
Hollinger (Timmins)	1,028,169	—	1,031,518	297,746	49,331	3,900	1				
Hollinger (Ross)	120,537	—	120,782	19,783	53,476	360	1				
Hugh-Pam	62,624	—	—	9,488	—	—	4				
McIntyre	802,870	14,591	802,870	228,948	41,473	2,400	1				
Pamour	661,718	—	647,127	60,335	8,439	1,750	1				
Paymaster	197,755	—	197,496	43,815	9,506	750	1				
Preston East Dome	249,160	—	250,380	63,903	8,214	800	1,3				
Kirkland Lake District											
Kirkland Minerals	73,666	—	73,666	35,819	3,245	400	1				
Lake Shore	188,763	—	188,763	70,163	29,688	1,200	1				
Macassa	164,262	—	164,262	68,452	9,241	500	1				
Sylvanite	163,346	—	163,356	46,297	9,383	600	1				
Teck Hughes	197,872	—	197,755	26,079	3,469	650	1				
Upper Canada	194,638	—	194,638	47,446	28,053	525	1				
Wright-Hargreaves	179,545	—	—	67,912	17,574	—	5				
Larder Lake District											
Kerr Addison	1,663,928	—	1,661,980	542,279	35,406	4,000	1				
Sudbury District											
Renabie	177,475	—	177,475	27,858	8,427	550	1				
Thunder Bay District											
Leitch	52,394	13,036	41,199	41,303	2,106	120	1,3				
MacLeod-Cockshutt	658,675	—	658,400	65,553	6,946	1,800	1				
Patricia District											
Campbell Red Lake	286,940	30,416	256,524	149,379	11,087	700	1,3				
Cochenour Willans	77,804	36,630	77,804	63,001	2,675	200	1,3				
Madsen Red Lake	302,200	—	302,200	123,469	21,656	800	1,3				
McKenzie Red Lake	87,973	8,132	79,841	15,929	7,350	220	1				
New Dickenson	162,620	—	162,659	88,430	9,184	450	1,3				
Pickle Crow	110,316	—	110,316	42,166	5,411	400	1,3				
Total for principal gold mines in Ontario .....	...	...	...	2,659,745	442,189	...	...		
Nickel-copper and other mines .....	...	...	...	56,769	9,373,068	...	...		
Total Ontario .....	...	...	...	2,716,514	9,815,257	...	...		
Manitoba:											
Forty-Four Mines Ltd.	49,791	—	—	13,976	2,312	—	6				
Britannia	291,889	—	291,889	33,452	2,656	2,000	1				
San Antonio	74,905	—	74,806	20,324	3,420	550	1,3				
Copper-gold and other mines .....	...	...	...	19,604	312,371	...	...		
Total Manitoba .....	...	...	...	87,356	320,759	...	...		
Saskatchewan:											
Copper-Gold and alluvial ores .....	...	...	...	86,590	1,299,077	...	...		
Alberta:											
Alluvial gold .....	...	...	...	282	28	...	...		
British Columbia:											
Bralarne	146,358	—	146,358	99,489	21,119	...	3				
Cariboo Gold Quartz	66,880	—	66,880	27,892	3,682	...	1				
Pioneer	110,107	4,665	105,442	49,853	10,796	...	1				
Placer gold .....	...	...	...	3,928	642	...	...		
Copper-gold and other mines .....	...	...	...	29,450	7,978,189	...	...		
Total British Columbia .....	...	...	...	210,612	8,013,428	...	...		
Northwest Territories:											
Consolidated Mining and Smelting (Con Mine)	132,266	13,184	119,082	58,939	24,324	500	1,3				
Consolidated Mining and Smelting (Rycon Mine)	74,592	5,177	69,415	45,244	18,672	...	7				
Consolidated Discovery Yellowknife	47,621	—	47,621	84,051	9,664	150	1				
Giant Yellowknife	322,402	37,197	284,381	155,604	20,119	850	1,3				
Other mines .....	...	...	...	—	—	...	...
Total Northwest Territories .....	...	...	...	343,838	72,779	...	...		
Yukon:											
Placer and silver-lead mines .....	...	...	...	67,745	6,415,560	...	...		
Total Canada .....	...	...	...	4,571,347	31,163,470	...	...		

¹ Cyanidation.² Shipped to smelter.³ Amalgamation process.⁴ Shipped to Broulan Reef mill.⁵ Shipped to Lake Shore mill.⁶ Treated at San Antonio mill.⁷ Treated at Con mill.

TABLE 8. Gold Production of the World,¹ 1954-58

Source: "Annual Report of the American Bureau of Metal Statistics"

Country	1954	1955	1956	1957	1958
fine ounces					
North America:					
United States	1,867,296	1,890,783	1,837,961	1,817,197	1,801,005
Canada	4,366,440	4,541,962	4,383,863	4,433,894	4,537,007
Mexico	386,925	382,874	350,242	346,320	332,238
Total North America	6,620,661	6,815,619	6,572,066	6,597,411	6,670,250
Central America and West Indies					
	258,600	244,000	223,600	210,300	
South America:					
Brazil ²	119,534	109,599	122,234	120,755	118,955
British Guiana	26,938	23,766	15,815	16,491	17,500
Chile	124,967	122,877	94,457	103,587	70,858
Colombia	377,467	380,826	438,350	325,130	315,291
Ecuador	16,900	13,805	14,585	16,840	19,311
French Guiana	1,512	8,713	7,500	9,549	
Peru	147,424	170,747	159,074	165,093	132,823
Surinam	6,780	7,210	6,700	6,526	4,244
Venezuela	56,074	61,140	69,811	75,976	89,654
Total South America, as reported	877,596	898,683	928,526	839,947	
Europe					
	400,000	400,000	400,000	400,000	
Australia:					
New South Wales	31,374	30,067	28,821	31,043	17,841
Queensland	97,951	64,322	56,022	63,363	74,499
Victoria	52,665	38,035	38,846	45,752	42,713
Western Australia	861,992	834,326	813,537	849,751	875,523
Tasmania	19,368	16,882	17,131	20,027	22,129
Other Australia	54,392	65,407	75,464	74,005	70,026
Total Australia (Commonwealth)	1,117,742	1,049,039	1,029,821	1,083,941	1,102,731
Oceania, other:					
New Guinea	86,728	74,853	67,282	78,807	81,827
New Zealand	41,713	26,443	79,476	69,030	43,812
Fiji	72,200	70,100	26,063	30,195	24,932
Total Oceania, other	200,641	171,396	172,821	178,032	150,571
Asia:					
India	240,712	211,461	209,253	179,198	170,109
Japan	251,616	288,707	295,334	302,706	308,450
Korea, Republic of	52,250	47,037	49,929	66,576	73,163
Malaya	20,955	22,838	20,253	11,157	22,484
Philippines Republic	416,052	419,112	406,163	379,982	422,833
Saudi Arabia	128	..	..	..	..
Taiwan (Formosa)	21,541	28,113	37,501	19,483	20,265
Total Asia, as reported	1,003,254	1,017,268	1,018,433	959,098	1,017,304
Africa:					
Bechuanaland	1,216	560	590	190	
Belgian Congo	365,481	369,913	373,840	374,258	356,126
Ethiopia	33,894	22,058	25,700	25,000	
French Cameroons	685	518	463	10,899	2,009
French Equatorial Africa	45,299	46,553	40,712	30,780	23,704
Gold Coast	787,057	681,208	620,194	788,151	707,022
Kenya	6,607	9,528	13,842	7,387	7,753
Liberia	1,135	672	160	381	
Madagascar	1,363	981	903	842	547
Nigeria	730	681	439	487	646
Sierra Leone	286	474	452	—	
Southern Rhodesia	535,852	524,701	536,392	536,849	554,838
Tanganyika (exports)	71,447	68,892	59,293	54,088	56,299
Uganda	568	450	271	243	292
Union of South Africa	13,237,111	14,601,395	15,896,693	17,031,690	17,154,005
Total Africa, as reported	15,088,731	16,328,534	17,569,944	18,861,245	
Russia³					
	9,000,000	9,000,000	10,000,000	10,000,000	
Total world, as reported	34,567,225	35,924,589	37,915,211	39,129,978	
Estimated world total⁴	35,100,000	36,400,000	38,400,000	39,620,000	

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 Mined gold only; production of alluvial gold unknown.³ Conjectural.⁴ This estimate includes the following countries which also produce gold: Angola, Argentina, Austria, Bolivia, Bulgaria, Burma, China, Czechoslovakia, Egypt, Eritrea, French Morocco, French West Africa, Hungary, Mozambique, North Korea, Northern Rhodesia, Papua, Sarawak, South West Africa, Sudan and Thailand, from whom definitive figures are not available.

TABLE 9. Gold Production According to Method of Computation and Recovery, 1949-58

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
	per cent					
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
1956.....	1.71	83.66	0.17	12.88	1.58	4,383,863
1957.....	1.72	83.98	0.32	12.40	1.58	4,433,894
1958.....	1.57	84.06	0.20	12.64	1.53	4,571,347

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, 1939-58

Month	1939	1940-1945	1946	1947-1948	1949 ¹	1950	1951	1952	1953	1954	1955	1956	1957	1958
dollars														
January.....	35.30	38.50	38.50	35.00	35.00	38.50	36.81	35.19	33.97	34.05	33.81	34.95	33.62	34.46
February.....	35.19	38.50	38.50	35.00	35.00	38.50	36.73	35.03	34.20	33.83	34.19	34.97	33.54	34.34
March.....	35.13	38.50	38.50	35.00	35.00	38.50	36.65	34.85	34.44	33.98	34.45	34.95	33.46	34.21
April.....	35.13	38.50	38.50	35.00	35.00	38.50	37.07	34.34	34.43	34.39	34.52	34.89	33.59	33.97
May.....	35.13	38.50	38.50	35.00	35.00	38.50	37.25	34.43	34.79	34.45	34.51	34.71	33.45	33.84
June.....	35.07	38.50	38.50	35.00	35.00	38.50	37.42	34.26	34.80	34.34	34.45	34.48	33.36	33.67
July.....	35.06	38.50	35.35	35.00	35.00	38.50	37.12	33.93	34.72	34.10	34.46	34.37	33.29	33.60
August.....	35.01	38.50	35.00	35.00	35.00	38.50	36.96	33.65	34.59	33.96	34.48	34.34	33.18	33.76
September.....	37.21	38.50	35.00	35.00	36.52	38.50	36.94	33.59	34.45	33.94	34.57	34.22	33.56	34.19
October.....	38.43	38.50	35.00	35.00	38.50	36.86	36.78	33.75	34.39	33.94	34.84	34.07	33.77	33.98
November.....	38.50	38.50	35.00	35.00	38.50	36.43	36.53	34.17	34.22	33.93	34.98	33.75	33.67	33.89
December.....	38.50	38.50	35.00	35.00	38.50	36.83	35.89	33.97	34.06	33.88	34.98	33.62	34.22	33.76
Yearly average	36.14	38.50	36.75	35.00	36.00	38.05	36.85	34.27	34.42	34.07	34.52	34.45	33.55	33.98

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, 1954-57

Material	Cost at works			
	1954	1955	1956	1957
dollars				
Fine gold.....	4,200,491	4,152,488	5,444,312	4,585,764
Gold alloys.....	1,056,150	1,299,382	1,421,905	1,403,075
Fine silver.....	3,043,831	3,027,330	3,677,213	3,975,569
Silver alloys and sterling.....	1,924,483	2,802,742	2,620,971	2,554,281
Platinum.....	1,016,684	579,060	1,218,798	1,182,835
Old gold, jewellers' findings, waste and scrap refining.....	2,066,522	1,726,260	1,672,727	1,651,414
Gold-filled wire and stock.....	137,150	138,030	146,254	151,113
Precious and semi-precious stones.....	2,902,340	3,140,571	3,753,954	3,632,668

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 1957

The Emergency Gold Mining Assistance Act was made operative to the end of the calendar year 1958 by virtue of Chapter 20, 4-5, Elizabeth II which received Royal Assent on June 26, 1956. Hon. Paul Comtois, Minister of Mines and Technical Surveys, announced in the House of Commons on January 7, 1958, that it was the intention of the government to provide for a two-year extension to the Act.

Applications for assistance were received from 41 gold mines with respect to the calendar year 1957. These represent the bulk of the mines that will apply for assistance for that year; however, applications may be made up to 6 months after the year-end and it is anticipated that additional applications will be received, most of which will be from placer operations.

The estimated total assistance payable in respect of gold produced and sold under the provisions of the Act in 1957 as now calculated is \$9,400,000. The actual assistance paid in respect of the applications received prior to March 31, 1958, is \$6,676,234.30, which is 80 per cent of the assistance payable. The remaining 20 per cent is payable when the books of the companies have audited by the Cost Inspection and Audit Division of the Office of the Comptroller of the Treasury.

The final audit for the calendar year 1956 has been completed with the exception of six applications. A total of \$8,600,339.20 has been actually paid with respect to this year and it is estimated that payment of holdbacks will bring the final figure to approximately \$8,680,000.

As in 1956 the gold mining industry again faced difficult economic conditions which were accentuated by the adverse exchange rate differential between the Canadian and United States dollars. Higher costs resulted in a substantial increase in the estimated amount of assistance payable for the year 1957 over 1956. The average price per ounce of gold paid by the Royal Canadian Mint in 1957 was \$33.55 compared with \$34.45 paid in 1956 and \$34.52 paid in 1955. A weekly Mint price of \$33.06 for the week of August 19 was the lowest paid during the year. The last weekly price for the year was \$34.42. A few mines were able to improve their position during the year by finding better grades of ore.

Method of Calculating Assistance Payments for the Calendar Year 1957

A mine to be classified as a gold mine within the meaning of this Act and thereby become eli-

gible 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 cost 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 "assistant ounces". The factor "rate of assistance" applied during the designated year 1956 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 1957 was two-thirds of the production of the mine during the year.

The Gold Export Act and Disposal of Canadian Gold

The Gold Export Act, passed in 1932, authorizes the Governor in Council to make regulations regarding the export of gold from Canada. The Mint Custom Refining and Storing Regulations, 1956, as prescribed by Order in Council P.C. 1956-450, dated March 22, 1956, replaced previous regula-

tions which had prohibited the export of gold in any form except under licence issued by the Minister of Finance. Under the new regulations, producers may sell their gold on the free market, that is to say, wherever they wish. No licences are required for exports.

These Regulations require producers who wish to sell gold on the free market to complete certain prescribed forms. The first of these is referred to as the "Election Form". In completing this form the producer foregoes as of a specific date (January 1, April 1, July 1 or October 1) all aid which otherwise might be payable under The Emergency Gold Mining Assistance Act. In addition, the producer makes application for the use of the Royal Canadian Mint or other approved facilities for assaying, refining and storing of gold. Election Forms must be submitted for the approval of the Minister of Finance within 30 days of the election date. Once approved, elections remain in force until terminated by the producers on notice 30 days prior to June 30 or December 31.

The second form required by the Mint Custom Refining and Storing Regulations, 1956, is a monthly statement of inventory and sales detail.

Under the terms of The Emergency Gold Mining Assistance Act gold mines electing to sell their production on the free 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 free market.

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.
- (9) Chapter 20, 4-5 Elizabeth II received Royal Assent, June 29, 1956.

Amendments to the Regulations

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

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

Province	1951	1952	1953	1954	1955	1956	1957
dollars							
Quebec	2,743,145	2,838,726	4,225,820	4,161,889	2,510,421	2,554,961	2,421,225
Ontario	5,590,634	5,579,649	7,154,496	8,700,203	4,532,956	4,579,241	4,733,574
Manitoba	469,927	379,003	454,694	580,741	654,801	725,159	659,104
British Columbia	736,683	782,155	1,046,076	1,036,678	600,710	611,055	220,831
Northwest Territories	927,415	1,011,211	1,408,134	1,403,693	316,557	14,013	299,386
Yukon	260,700	255,234	389,263	367,839	250,699	201,138	11,174
Canada	10,728,504	10,845,978	14,678,483	16,251,043	8,866,144	8,685,567	8,345,294

THE PLACER GOLD MINING INDUSTRY

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

In 1958 a total of 71,955 troy ounces of fine gold were recovered from crude gold obtained from Canadian alluvial deposits. This represented a decrease of 5.7 per cent from the preceding year. Reviewing the past twenty years, it is noted that the peak of production of placer gold occurred in 1939, and 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 1955-1958.

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 to prospectors of no fixed abode who, in many instances, market their recoveries through local merchants and banks. Recoveries in 1958 were made chiefly from deposits located in the Atlin and Cariboo districts. Output was estimated at 3,928 troy ounces.

Yukon—Over 90 per cent of the placer gold recovered in Canada during 1958 was found in the creeks of the Yukon. Production in 1957 totalled 67,745 troy ounces.

The placer gold industry employed an average of 236 persons to whom \$1,253,362 were paid in wages and salaries. Fuel and electricity cost \$63,007, electricity generated for own use was 18,276,580 kwh. and the electricity for sale was 6,645,700 kwh. Process supplies were valued at \$461,375. Freight and express on shipments amounted to \$10,720 and \$30,117 were paid for treatment and marketing.

TABLE 13. Principal Statistics for Placer Gold Mining, Significant Years, 1921-58

Year	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Process supplies and containers	Gross value of products	Net value of production ¹
1921.....	197	428	671,783	..	..	1,576,222	..
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	13,703	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	3,575,342
1953.....	56	306	1,372,504	75,791	133,607	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
1956.....	64	250	1,378,166	81,639	451,933	2,594,312	2,026,790
1957.....	57	243	1,180,225	55,472	353,186	2,573,853	2,116,716
1958.....	112	236	1,253,362	63,007	461,375	3,049,743	2,484,524

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

TABLE 14. Alluvial Gold Recovered and Quantity of Material Handled,¹ 1949-58

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.	Gold recovered ³	
	cu. yd.	fine ounces	\$	cu. yd.	fine ounces	\$	ounces			
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	0.0118	0.4490	108,143	
1951	835,487	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	0.3907	78,621	
1956 .....	..	2,962	..	..	5,716,389	71,736	0.0125	0.4306	74,919	
1957 .....	..	2,105	..	..	7,559,882	73,709	0.0097	0.3271	76,303	
1958 .....	..	3,928	..	..	6,808,991	67,745	0.0099	0.3380	71,955	

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 Placer Gold Mining Industry, 1954-58

Year	Employees ¹						Man-hours worked	Earnings		
	Administration		Workmen		Total	Administration		Workmen	Total	
	Male	Female	Male	Female						
	number							dollars		
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	
1956.....	13	-	227	10	250	682,681	58,860	1,319,306	1,378,166	
1957.....	14	6	218	5	243	661,202	92,833	1,087,392	1,180,225	
1958.....	16	5	212	5	236	659,577	123,329	1,130,033	1,253,362	

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

TABLE 16. Fuel and Electricity Used in the Placer Gold Mining Industry, 1958

	Kind		Quantity	Cost at plant
		short ton		\$
Bituminous coal (a) From Canadian mines		135		4,304
(b) Imported.....	"	-		-
Sub-bituminous coal (from Alberta mines only).....	"	-		-
Anthracite coal	"	-		-
Lignite coal.....	"	-		-
Coke (for fuel only).....	"	-		-
Gasoline, (Includes gasoline used in cars and trucks).....	Imp. gal.	52,401		22,208
Kerosene or coal oil	"	75		25
Fuel oil.....	"	65,750		20,173
Wood (cords of 128 cubic feet of piled wood).....	cord	772		16,255
Gas (a) Liquefied petroleum gases (propane, etc.)	Imp. gal.	3		2
(b) Other manufactured gas	M cu. ft.	-		-
(c) Natural gas.....	"	-		-
Other fuel.....	kwh.	4,000		40
Electricity purchased for power and lighting	"	-		-
Electricity purchased for other purposes.....				
Total (cost only).....		...		63,007
Electricity generated (a) For own use	kwh.	18,276,580		...
(b) For sale	"	6,645,700		53,166

TABLE 17. Power Equipment used in the Placer Gold Mining Industry, 1958

	Type of equipment	Driving generators	Not driving generators
			horsepower
A. Prime movers:			
Steam engines.....		-	-
Steam turbines.....		-	-
Diesel engines		295	1,485
Gasoline, gas and oil engines, other than diesel engines.....		195	345
Hydraulic turbines or water wheels.....		15,000	150
Total		15,490	1,980
B. Electric motors (one-quarter horsepower and over).....	

THE GOLD QUARTZ MINING INDUSTRY IN CANADA

The gold quartz mining industry produced, during 1958 minerals valued at \$133,998,004 compared with \$127,055,902 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 16,811 whose earnings amounted to \$64,208,042. Fuel cost \$7,546,334 and 893,984,022 kwh. of electricity were purchased for \$5,588,065. Process supplies, which included explosives, chemicals, drill steel, etc., cost \$18,013,121. Electricity generated for own use was 51,064,006 kwh. and generated for sale was 4,856,035 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.

MINERAL STATISTICS

TABLE 18. Principal Statistics for the Gold Quartz Mining Industry, Significant Years, 1921-58

	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies	Gross value of products	Net value of production ¹
number							
1921	59	3,889	6,072,318	1,154,606	..	16,689,784	..
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
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
1956	134	17,031	62,701,494	6,830,676	22,725,750	127,983,495	97,011,062
1957	147	16,911	63,708,608	6,771,886	22,705,425	127,055,902	95,991,241
1958	127	16,811	64,208,042	7,134,399	18,013,121	133,998,004	107,140,993

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

TABLE 19. Principal Statistics for the Gold Quartz Mining Industry, 1957 and 1958

	Active operators ¹	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 value of bullion, ore, concentrates or residues shipped from mines ⁴
number									
dollars									
1957									
Quebec and Nova Scotia	87	3,189	11,789,821	1,276,204	3,463,680	181,488	374,601	20,590,761	15,294,788
Ontario	38	11,657	42,485,179	4,062,479	16,131,450	109,746	624,312	85,444,085	64,516,098
Manitoba and Saskatchewan	4	451	1,783,498	371,028	659,907	5,870	26,607	3,274,926	2,211,514
British Columbia	10	862	3,580,669	295,416	1,357,423	68,756	86,016	6,263,747	4,456,136
Northwest Territories	8	752	4,069,513	766,759	1,092,965	27,369	82,585	11,482,383	9,512,705
Canada	147	16,911	63,708,680	6,771,886	22,705,425	393,229	1,194,121	127,055,902	95,991,241
1958									
Quebec and Nova Scotia	66	3,332	12,274,705	1,438,600	3,688,603	156,792	505,189	22,941,713	17,152,529
Ontario	41	11,626	43,192,830	4,289,200	11,917,107	110,543	654,888	90,657,790	73,686,052
Manitoba and Saskatchewan	5	331	1,278,354	264,053	455,775	2,501	8,840	2,313,109	1,581,940
British Columbia	8	851	3,786,513	291,016	901,432	82,699	95,272	6,351,710	4,981,291
Northwest Territories	7	671	3,675,640	851,530	1,050,204	20,976	71,791	11,733,682	9,739,181
Canada	127	16,811	64,208,042	7,134,399	18,013,121	373,511	1,335,980	133,998,004	107,140,993

¹ Producing mines; in 1955, 67; in 1956, 61; in 1957, 69; in 1958, 68.² 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 20. Ores Mined and Treated by the Gold Quartz Mining Industry, 1949-58

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								
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	84,812
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
1956	14,589,230	14,070,420	276,130	195,257	2,176	3,635,709	45,561	23,725
1957	14,354,879	13,894,311	253,607	215,397	1,212	3,695,666	43,601	26,712
1958	14,751,991	14,223,343	273,204	175,069	465	3,829,460	40,516	51,499

¹ + ² = Total crude ore treated.

TABLE 21. Ores Mined and Milled, Crude Bullion Recovered and Crude Bullion and Concentrates Shipped, in the Gold Quartz Mining Industry, 1958

		Quebec, Nova Scotia	Ontario	Manitoba	British Columbia	Northwest Territories	Canada
Number of producing mines		20	34	4	6	4	68
Ore mined	ton	4,061,490	9,358,498	416,791	338,331	576,881	14,751,991
Material discarded (sorted)	"	12,032	102,305	—	4,674	55,558	175,069
Ore milled (ground, etc.)	"	3,776,618	9,177,240	416,486	332,500	520,499	14,223,343
Tailings re-treated	"	—	385	80	—	—	465
Gold content of ores, slags, residues and concentrates shipped:							
To foreign smelters	troy ounce	—	—	—	23,507	—	23,507
To Canadian smelters or mills	"	59,757	8,089	—	662	—	68,508
Bullion bars shipped:							
Gold content	troy ounce	602,731	2,638,614	67,889	162,334	345,021	3,816,589
Silver content	"	124,490	435,851	8,403	29,727	73,347	671,818
Content of bullion bars produced:							
Gold	troy ounce	603,294	2,652,105	67,889	162,334	343,838	3,829,460
Silver	"	126,037	434,355	8,403	29,727	72,779	671,301
Gold value	\$	20,480,052	90,004,003	2,305,840	5,508,493	11,670,869	129,969,257
Silver value	\$	108,860	374,100	7,269	25,666	62,813	578,708
Value of ores, concentrates, slags and residues sold (shipped)	\$	2,352,801	279,687	—	817,551	—	3,450,039
Total gross value of production	\$	22,941,713	90,657,790	2,313,109	6,351,710	11,733,682	133,998,004
Value of fuel, electricity and process supplies used, also freight on shipments, marketing, smelter and refinery charges	\$	5,789,184	16,971,738	2,313,109	1,370,419	1,994,501	26,857,011
Net value of production	\$	17,152,529	73,686,052	1,581,940	4,981,291	9,739,181	107,140,993

TABLE 22. Ores, Concentrates, Slags, etc., Shipped to Smelters and Mills from Canadian Gold Mines, 1949-58

Year	Ores		Concentrates		Slags, residues, precipitates	
	Tons	Gold content-troy ounces	Tons	Gold content-troy ounces	Tons	Gold content-troy ounces
To Canadian plants						
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	28,068	20	227	123	9,300
1954	282,331	44,276	—	—	404	8,647
1955	333,783	50,516	—	—	237	4,816
1956	276,130	45,561	28	379	294	8,566
1957	253,602	43,589	10	129	187	6,791
1958	267,309	40,516	2,583	18,883	290	9,109
To foreign plants						
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
1956	—	—	2,388	14,655	12	125
1957	5	12	2,636	19,792	—	—
1958	—	—	3,009	23,305	13	202

TABLE 23. Shipments from Gold Quartz Mines, 1957 and 1958

	Quantity	Total gross metal content			
		Gold	Silver	Copper	Other
1957	tons	ounces		pounds	
To Canadian smelters:					
Gold ore	253,602	43,589	141	—	1,690
Gold concentrates	10	129	24	—	—
Slabs, precipitates, residues	187	6,791	5,016	—	—
To foreign smelters:					
Gold ore	5	12	8	16	67
Gold concentrates	2,636	19,792	5,734	—	—
Slags, precipitates, etc.	—	—	—	—	—
Total	256,440	70,313	10,923	16	..

TABLE 23. Shipments from Gold Quartz Mines, 1957 and 1958 - Concluded

	Quantity	Total gross metal content			
		Gold	Silver	Copper	Other
	tons	ounces	pounds		
1958					
To Canadian smelters:					
Gold ore	267,309	40,516	234	-	2,982
Gold concentrates	5	416	50	-	-
Slags, precipitates, residues	290	9,109	10,358	3,859	-
Copper concentrates	2,578	18,467	19,324	1,485,757	-
To foreign smelters:					
Gold ore	-	-	-	-	-
Gold concentrates	3,009	23,305	6,475	-	-
Slags, precipitates, residues	13	202	52	-	-
Total	273,204	92,015	36,493	-	...

TABLE 24. Certain Data Relating to the Production of Gold by the Entire Gold Quartz Mining Industry
1949-58 (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 smelter refinery and treatment on ores and bullion shipped, per ounce of gold produced	Taxes per ounce of gold produced	Total of specified costs
	ounces	dollars					
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
1956.....	244	1.84	14.43	6.13	0.38	1.66	24.44
1957.....	249	1.80	14.53	6.03	0.42	1.57	24.35
1958.....	261	1.82	13.99	4.59	0.44	1.55	22.39

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.

TABLE 25. Gold and Silver Content of Bullion Produced, of Ores, Concentrates, etc., Shipped, With Average Grade of Ore Shipped and Ore Milled at Gold Quartz Mines and the Average Price of Gold and Silver in Canadian Funds, 1949-58

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
						\$ per oz.	
fine ounces							
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
1956.....	14,349,272	3,704,995	623,995	.26	.04	34.45	0.897
1957.....	14,147,918	3,766,124	643,146	.27	.05	33.55	0.874
1958.....	14,490,652	3,921,475	707,794	.27	.05	33.98	0.868

¹ Does not include tailings re-treated, but includes ore milled plus crude ore shipped to smelters.² Relatively small quantities of gold and silver contained in concentrates, slags, etc., shipped and in cyanide solution in circuit may have originated in ores treated during the previous year; represents metal content of total bullion produced plus metal in ores or concentrates shipped to smelters.³ Material discarded by sorting not included.

TABLE 26. Specified Costs per Ton of Ore Milled at Certain of the Principal Auriferous Quartz Mines, 1958

Name of mine	Development and exploration ¹	Mining	Milling	General ²	Total before depreciation and taxes	Depreciation	Taxes	Total costs specified
dollars								
Quebec:								
Anacon Lead Mines Ltd.	0.986	3.528	2.414	2.752	9.680	—	—	9.680
Belleterre Quebec Mines Ltd.	1.04	6.36	1.71	0.36	9.47	0.07	0.24	9.78
Barnat Mines Ltd.	1.490	3.681	0.982	1.339	7.492	0.980	0.164	8.636
East Malartic Mines Ltd.	0.387	3.562	0.788	0.939	5.676	0.484	0.049	6.209
Eldrich Mines Ltd.	0.430	2.074	1.902	0.943	5.399	—	0.035	5.434
Lamaque Mining Co. Ltd.	0.80	2.83	0.93	0.16	4.72	0.13	0.29	5.14
Sigma Mines (Quebec) Ltd.	1.209	2.788	0.861	0.505	5.363	0.247	0.220	5.830
Stadacona Mines (1944) Ltd.	0.42	2.51	1.04	1.14	5.11	0.04	0.01	5.16
Sullivan Consolidated Mines Ltd.	1.67	4.17	1.79	0.55	8.18	0.83	—	9.01
Ontario:								
Porcupine District								
Aunor Gold Mines Ltd.	1.18	7.64	1.35	0.84	11.01	0.34	0.04	11.39
Broulan Reef Mines Ltd.	1.18	3.34	1.21	1.27	7.00	—	—	—
Hallnor Mines Ltd.	1.11	5.63	1.65	1.29	9.68	0.09	1.75	11.52
Hollinger Consolidated (Timmins)	0.279	5.296	0.811	2.190	8.576	1.39	0.386	9.101
Hollinger Consolidated (Ross)	0.452	2.315	1.896	1.415	6.078	0.384	-0.009	6.453
Hugh Pam Porcupine Mines Ltd.	1.61	3.52	1.20	1.51	7.84	—	—	—
McIntyre Porcupine Mines Ltd.	1.42	5.89	1.06	0.49	8.86	0.22	0.13	9.21
Preston East Dome Mines Ltd.	1.811	5.454	1.095	0.340	8.700	0.290	0.060	9.050
Pamour Porcupine Mines Ltd.	0.32	2.17	0.71	0.28	3.48	0.05	0.02	3.55
Paymaster Consolidated Mines Ltd.	0.78	5.55	1.61	0.90	8.84	0.36	0.02	9.22
Kirkland Lake District								
Kirkland Minerals Corp. Ltd.	1.830	8.990	2.397	1.843	15.060	0.358	0.039	15.457
Teck-Hughes Gold Mines Ltd.	0.704	3.057	1.362	0.310	5.433	0.003	0.044	5.480
Upper Canada Mines Ltd.	1.24	4.85	1.27	0.61	7.97	0.31	0.01	8.29
Larder Lake District								
Kerr Addison Gold Mines Ltd.	7.58	9.857	1.097	0.642	6.354	0.374	1.590	8.318
Sudbury District								
Renabie Mines Ltd.	0.938	2.420	1.510	1.143	6.011	0.692	0.046	6.749
Thunder Bay District								
Leitch Gold Mines Ltd.	2.30	12.71	4.62	1.81	21.44	0.89	2.92	25.25
MacLeod-Cockshutt Gold Mines Ltd.	0.238	1.659	0.826	0.524	3.247	0.108	0.011	3.366
Patricia District								
Cochenour Willans Gold Mines Ltd.	4.066	6.157	2.809	3.126	16.158	1.762	—	17.920
Madsen Red Lake Gold Mines Ltd.	1.494	4.524	1.477	1.209	8.704	0.898	0.991	10.593
McKenzie Red Lake Gold Mines Ltd.	0.42	4.10	1.82	1.77	8.11	1.36	—	9.47
New Dickenson Mines Ltd.	3.17	4.06	2.56	2.05	11.86	2.95	0.18	14.99
Pickle Crow Gold Mines Ltd.	2.50	6.06	2.05	1.44	12.05	0.30	0.07	24.47
British Columbia:								
Bralorne Mines Ltd.	1.84	9.46	1.62	4.51	17.43	0.82	—	18.25
Cariboo Gold Quartz Mining Co. Ltd.	—	—	—	0.50	16.43	1.10	—	17.53
Pioneer Gold Mines of B.C. Ltd.	2.459	10.009	2.523	2.923	17.914	0.569	0.102	18.585
Northwest Territories:								
Consolidated Mining & Smelting Co. (Con)	0.49	5.98	3.55	2.06	12.08	—	—	12.08
Consolidated Discovery Yellowknife Mines Ltd.	11.11	11.38	5.01	0.71	28.21	2.36	4.52	35.09
Giant Yellowknife Gold Mines Ltd.	0.67	4.31	5.05	2.44	12.47	2.78	0.51	15.76

¹ Exclusive of outside exploration.² Marketing, head office, etc. (exclusive of taxes).

TABLE 27. Milling Capacity of Operating Canadian Gold Mines, 1949-58

Year	Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories	Canada
tons of 2,000 pounds per 24 hours							
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
1956	48	12,000	27,778	2,550	1,200	1,500	45,076
1957	—	9,530	27,356	2,550	1,204	1,500	42,142
1958	—	10,500	27,292	2,550	1,264	1,500	43,106

TABLE 28. Employees and Earnings in the Gold Quartz Mining Industry, 1954-58

Year	Employees						Man-hours worked (all employees)	Earnings		
	Administrative and office		Workmen		Total	Administrative and office		Workmen	Total	
	Male	Female	Male	Female						
number										
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	
1956	1,694	172	15,091	74	17,031	38,888,232	9,226,125	53,475,369	62,701,494	
1957	1,601	158	15,066	86	16,911	36,996,927	8,975,888	54,732,792	63,708,680	
1958	1,623	153	14,952	83	16,811	36,846,723	9,362,346	54,845,696	64,208,042	

TABLE 29. Number of Workmen, by Months, in the Gold Mining Industry, 1957 and 1958

Month	1957		1958					
	Total	Mine			Mill			Total
		Surface		Underground	Male	Female		
		Male	Female	Male				
January	15,089	3,644	77	10,197	1,332	1	15,251	
February	15,110	3,629	78	10,124	1,331	1	15,163	
March	15,017	3,640	78	9,964	1,328	1	15,011	
April	14,858	3,639	80	9,857	1,328	1	14,905	
May	15,024	3,696	81	9,981	1,330	1	15,089	
June	15,282	3,811	81	9,913	1,364	1	15,170	
July	15,347	3,898	85	9,990	1,408	1	15,382	
August	15,316	3,759	83	10,012	1,364	1	15,219	
September	15,248	3,658	81	10,138	1,349	1	15,227	
October	15,275	3,628	80	10,126	1,334	1	15,169	
November	15,182	3,586	83	10,078	1,347	1	15,095	
December	15,088	3,510	82	9,995	1,332	1	14,920	
Average	15,152	3,683	82	9,922	1,347	1	15,035	
Man-hours worked	33,117,571	-	-	-	-	-	-	32,999,835

TABLE 30. Fuel and Electricity Used in the Gold Quartz Mining Industry, 1958

	Kind	Quantity		Cost at plant
		short ton	Imp. gal.	
Bituminous coal (a) From Canadian mines				\$
(b) Imported		2,793		49,957
Sub-bituminous coal (from Alberta mines only)	"	20,825		324,903
Anthracite coal	"	2,285		51,989
Lignite coal	"	1,163		20,529
Coke (for fuel only)	"	12		226
Gasoline, (includes gasoline used in cars and trucks)	Imp. gal.	357,166		156,991
Kerosene or coal oil	"	63,314		49,155
Fuel oil	"	3,438,683		649,673
Wood (cords of 128 cubic feet of piled wood)	cord	12,465		147,793
Gas (a) Liquefied petroleum gases (propane, etc.)	Imp. gal.	10,753		4,270
(b) Other manufactured gas	M cu. ft.	3,660		1,640
(c) Natural gas	"	-		-
Other fuel (shavings, sawdust etc.)	kwh.	885,271,125		88,703
Electricity purchased for power and lighting	"	8,712,897		5,562,181
Electricity purchased for other purposes				25,914
Total (cost only) .....			...	7,134,399
Electricity generated (a) For own use	kwh.	51,064,006		
(b) For sale	"	4,856,035		81,353

TABLE 31. Power Equipment used in the Gold Quartz Mining Industry, 1958

	Type of equipment	Driving generators		Not driving generators
			horsepower	
A. Prime movers:				
Steam engines		200		12
Steam turbines		964		109
Diesel engines		13,582		1,831
Gasoline, gas and oil engines, other than diesel engines		2,172		2,768
Hydraulic turbines or water wheels		12,687		100
Total		29,605		4,820
B. Electric motors (one-quarter horsepower and over)		21,122		255,077

TABLE 32. Cost of Prospecting Conducted by Canadian Gold Quartz Mining Companies, 1957 and 1958

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						
1957						
Newfoundland	120,575	—	—	—	—	120,575
Nova Scotia	19,096	928	—	—	—	20,024
New Brunswick	128,176	230,953	—	—	—	359,139
Quebec	587,827	286,055	—	—	13,205	887,087
Ontario	832,239	616,185	13,977	—	18,281	1,480,662
Manitoba	102,915	15,873	57,030	—	—	175,818
Saskatchewan	34,300	20,932	7,181	26,447	663	89,523
British Columbia	47,908	32,158	—	17,819	973	98,858
Northwest Territories	2,054	48,719	—	—	56,139	106,912
Yukon	3,900	24,107	—	—	3,647	31,654
Total Canada	1,878,990	1,275,900	78,188	44,266	92,908	3,370,252
1958						
Newfoundland	51,330	—	—	—	—	51,330
Nova Scotia	3,405	20,660	—	—	—	24,065
New Brunswick	112,396	63,414	—	—	—	175,810
Quebec	234,019	417,055	148	10,150	10,151	671,523
Ontario	324,613	507,118	12,827	—	5,813	850,371
Manitoba	59,461	1,598	49,491	—	—	110,550
Saskatchewan	24,728	5,688	—	—	—	30,416
British Columbia	103,106	26,185	—	87,546	—	221,837
Northwest Territories	1,845	26,374	—	12,137	43,573	83,929
Yukon	6,682	19,847	—	—	—	26,529
Total Canada	926,585	1,087,939	62,466	109,833	59,537	2,246,360

¹ Prospecting includes the search for new mineral deposits on the surface, and preliminary exploration.² Province in which the companies' principal operations are conducted.

TABLE 33. Drilling Completed on Gold Quartz Deposits, 1956 - 58

	Footage drilled ¹		
	1956	1957	1958
Diamond drilling for exploration (testing):			
By companies with their own equipment and personnel	675,367	497,076	455,666
By contractors	1,415,908	1,226,771	1,276,442
Other drilling:			
Diamond drilling for breaking rock or ore:			
By companies with their own equipment and personnel	67,230	569,628	53,981
By contractors	80,997	24,395	8,075
Drilling by percussion and other machines ²	38,148,950	35,652,622	37,885,485

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 1957 totalled \$191,296 and in 1958 -- \$163,988.

TABLE 34. Specified Taxes Paid by Active Canadian Gold Quartz Mines, 1957 and 1958, by Provinces¹

Nature of tax	Nova Scotia	Quebec	Ontario	Manitoba & Saskatchewan	British Columbia	Northwest Territories	Canada
dollars							
1957							
Dominion income tax, including tax on non-operating revenue	—	148,817	2,709,267	—	—	275,433	3,133,517
Provincial tax	21	202,954	1,714,231	260	1,717	77,315	1,996,938
Municipal tax	—	278,939	357,429	15,663	41,575	95,940	789,106
Total	21	630,710	4,780,927	15,923	43,292	448,688	5,919,561
1958							
Dominion income tax, including tax on non-operating revenue	—	178,592	2,558,724	—	—	350,000	3,087,316
Provincial tax	20	202,347	1,920,862	2,036	37,590	88,312	2,251,167
Municipal tax	—	268,544	343,728	9,203	41,669	90,531	753,675
Total	20	649,483	4,823,314	11,239	79,259	528,843	6,092,158

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

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TABLE 35. Certain Specified Expenditures Made by Gold Quartz Mining Companies, 1956-58

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:						
1956	1,370	—	280	20,000	—	45,171
1957	—	—	—	—	—	—
1958	—	—	40	—	—	—
Quebec:						
1956	346,035	110	97,569	7,725,057	739,528	1,381,061
1957	302,168	1,092	91,513	6,611,151	201,505	336,777
1958	389,815	11	95,809	7,351,220	310,454	476,182
Ontario:						
1956	1,166,989	972,666	315,689	25,347,262	1,419,308	3,257,990
1957	1,169,213	1,024,415	311,527	26,113,109	2,231,301	3,154,265
1958	1,301,357	1,309,340	324,767	24,458,823	1,226,059	2,096,059
Manitoba:						
1956	28,109	—	13,162	1,570,952	16,784	43,182
1957	28,274	—	12,478	1,167,550	5,339	6,892
1958	13,422	23	8,956	719,814	28,952	29,520
British Columbia:						
1956	172,211	98,907	31,940	1,423,863	268,982	15,439
1957	180,553	102,580	27,840	1,499,092	367,664	491,978
1958	98,498	75,869	12,848	902,194	127,793	153,343
Northwest Territories:						
1956	103,820	—	13,462	3,242,120	262,384	721,814
1957	120,532	—	13,396	3,721,587	306,920	1,089,987
Total Canada:						
1956	1,818,534	1,071,683	472,102	39,329,254	2,706,986	5,464,657
1957	1,800,740	1,128,087	456,734	39,112,489	3,112,729	5,079,899
1958	1,923,507	1,385,283	454,192	36,993,391	2,431,522	2,906,970

TABLE 36. Estimated Capital and Repair Expenditures, 1954-58

Year	Capital expenditures			Repair expenditures			Capital and repair expenditures		
	Construction	Machinery	Total	Construction	Machinery	Total	Construction	Machinery	Total
thousands of dollars									
1954.....	5,791	3,891	9,682	1,526	7,544	9,070	7,317	11,435	18,752
1955.....	5,472	4,311	9,783	1,299	7,691	8,990	6,771	12,002	18,773
1956.....	5,877	3,204	9,081	1,259	7,445	8,704	7,136	10,649	17,785
1957.....	5,206	4,173	9,379	1,360	7,241	8,601	6,566	11,414	17,980
1958 ¹	3,407	2,452	5,859	1,221	7,688	6,909	4,628	10,140	14,768

¹ Preliminary estimates.

THE COPPER-GOLD-SILVER MINING INDUSTRY

During the year "copper-gold-silver" mines operated in Newfoundland, New Brunswick, Quebec, Ontario, Manitoba, Saskatchewan and British Columbia. It is to be noted that, in addition to the copper recovered from ores of this type, there is a very large quantity of the metal obtained in the smelting and refining of the copper-nickel ores mined in the Sudbury area of Ontario; important quantities of gold and silver are also being extracted from these copper-nickel ores. The lead-zinc-copper ores of Newfoundland also contribute to the production of copper, gold and silver. General statistics relating to labor, etc., in the nickel-copper or the silver-lead-zinc industry are not included in this report.

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 1958 the gross value of crude ore, concentrates, etc., shipped from the mines and mills in this industry to smelters was estimated at \$133,778,148. Fuel cost \$1,370,259 and 521,530,087 kwh. of electricity was purchased for \$3,058,394

Process supplies, freight and treatment charges amounted to \$51,356,231. Employees numbered 8,875 to whom \$39,745,243 were distributed as salaries and wages. There were 31 producers or shippers in 1958.

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 37. Principal Statistics¹ of the Copper-Gold-Silver Mining Industry, Significant Years, 1921-58

Year	Establishments	Employees	Salaries and wages	Cost of fuel and electricity	Process supplies and containers	Gross value ² of products	Net value of production
						number	dollars
1921	18	1,222	1,573,221	177,052	..	2,589,314	..
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	5,585,816	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	4,022,508	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
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	99,540,488
1956	314	10,533	43,929,096	4,620,541	15,594,327	147,187,431	96,941,696
1957	261	10,359	45,622,452	4,942,600	15,297,346	119,013,141	68,694,057
1958	244	8,875	39,745,243	4,428,653	15,968,361	133,778,148	77,993,264

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.

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TABLE 38. Shipments from Copper-Gold-Silver Mines, 1957 and 1958

	Quantity	Value	Total metal content as determined by settlement assay ¹				
			Gold	Silver	Copper	Sulphur	Zinc
	tons	\$	fine ounces		lb.	tons	lb.
1957							
To Canadian plants:							
Ores	532,639	8,368,104	69,907	197,738	22,424,787	—	—
Copper concentrates	846,114	70,945,491	350,063	3,164,342	301,258,858	—	26,119,850
Zinc concentrates	145,612	11,554,190	9,962	582,188	18,484,180	—	96,847,179
Iron pyrite concentrates	219,402	801,091	—	—	—	107,383	—
Slags, residues, bullion and gold precipitates	13	1,379,251	40,075	38,164	1,338	—	—
Lead concentrates	60	9,171	—	520	—	—	3,826
To foreign plants:							
Ores and tailings	9	222,766	—	4,771	1,048,273	—	—
Copper concentrates	79,082	10,374,276	14,087	418,023	36,030,094	—	—
Zinc concentrates	117,073	13,286,953	1,292	48,761	128,264	—	123,600,638
Iron pyrite concentrates	314,722	1,273,060	—	—	—	154,724	—
Precipitates	814	119,468	—	—	444,798	—	—
Lead concentrates	8,344	679,320	—	78,737	262,186	—	—
Total	2,263,884	119,013,141	485,386	4,533,244	380,082,778	262,107	246,571,493
Value of process supplies, etc. ²	...	50,319,084	...	...	...	...	...
Net value	...	68,694,057	...	...	...	...	...
1958							
To Canadian plants:							
Ores	704,377	9,555,092	76,500	237,663	30,645,793	—	50,258
Copper concentrates	1,084,029	98,410,777	383,751	4,986,908	415,993,476	—	28,040,042
Zinc	95,933	4,922,137	4,261	106,466	1,929,079	—	85,618,058
Iron pyrite concentrates	322,257	1,079,720	—	—	—	150,273	—
Slags	10	10,246	185	3,936	176	—	—
Residues, bullion and gold precipitates	2	846,185	24,056	38,636	1,012	—	—
To foreign plants:							
Ores and tailings	108	16,525	441	154	8,483	—	—
Copper concentrates	19,958	2,618,447	3,258	75,151	9,759,118	—	—
Zinc concentrates	137,448	14,568,431	322	34,654	156,480	—	145,732,420
Iron pyrite concentrates	456,454	1,692,507	—	—	—	228,866	—
Precipitates	301	58,081	—	—	240,261	—	—
Total	2,820,877	133,778,148	472,774	5,483,568	458,733,878	379,139	259,440,778
Value of process supplies, etc. ²	...	55,784,884	...	...	...	...	...
Net value	...	71,993,264	...	...	...	...	...

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

TABLE 39. Ores Mined, Milled, and Concentrates Produced, by the Copper-Gold-Silver Mining Industry, 1949-58

Year	Ore mined	Ore milled	Copper concentrates produced ¹	Zinc concentrates produced	Iron pyrite concentrates produced		
						tons	
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		
1956	10,422,648	10,442,164	931,328	230,220	578,923		
1957	10,570,801	10,009,694	1,135,664	229,514	528,388		
1958	11,484,960	11,274,297	1,106,733	229,962	782,828		

¹ Exclusive of copper precipitate.

TABLE 40. Employees and their Earnings in the Copper-Gold-Silver Mining Industry, 1954-58

Year	Employees					Man-hours worked (all employees)	Earnings				
	Administration		Workmen		Total		Administration		Workmen		
	Male	Female	Male	Female			Male	Female	Total		
number										dollars	
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		
1956	1,403	233	8,813	84	10,533	23,919,073	7,912,036	36,017,060	43,929,096		
1957	1,493	219	8,570	77	10,359	22,946,894	9,134,100	37,560,252	46,694,351		
1958	1,327	184	7,329	35	8,875	18,958,827	7,723,473	32,021,770	39,745,347		

TABLE 41. Number of Workmen, by Months, 1957 and 1958

Month	1957		1958				Total	
	Total	Mine			Mill			
		Surface		Underground	Male	Female		
		Male	Female	Male	Male	Female		
January	9,404	2,589	47	4,174	1,307	4	8,121	
February	9,406	2,447	41	4,042	1,292	4	7,826	
March	8,488	2,311	30	3,685	1,276	4	7,306	
April	8,193	2,241	25	3,594	1,257	4	7,121	
May	8,502	2,340	26	3,589	1,297	4	7,256	
June	8,757	2,322	28	3,587	1,325	4	7,266	
July	8,958	2,391	27	3,606	1,344	4	7,372	
August	9,060	2,347	27	3,598	1,318	4	7,294	
September	8,657	2,288	24	3,610	1,268	4	7,194	
October	8,465	2,246	24	3,667	1,268	4	7,209	
November	8,259	2,198	25	3,714	1,253	4	7,194	
December	7,994	2,116	25	3,659	1,257	4	7,061	
Average	8,647	2,328	31	3,712	1,289	4	7,364	
Man-hours worked	19,186,985	—	—	—	—	—	15,790,429	

TABLE 42. Fuel and Electricity Used in the Copper-Gold-Silver Mining Industry, 1958

Kind		Quantity	Cost at plant
Bituminous coal (a) From Canadian mines	short ton	6,018	104,722
(b) Imported	"	1,100	19,150
Sub-bituminous coal (from Alberta mines only)	"	101	2,196
Antracite coal	"	514	5,218
Lignite coal	"	—	—
Coke for fuel only	short ton	91	2,502
Gasoline, (includes gasoline used in cars and trucks)	Imp. gal.	346,992	131,546
Kerosene or coal oil	"	8,786	2,888
Fuel oil	"	5,408,420	1,034,948
Wood (cords of 128 cubic feet of piled wood)	cord	1,759	15,326
Gas (a) Liquified petroleum gases (propane, etc.)	Imp. gal.	51,149	21,552
(b) Other manufactured gas	M cu. ft.	1,743	1,551
(c) Natural gas	"	—	—
Other fuel	kwh.	...	28,660
Electricity purchased for power and lighting	kwh.	521,530,087	3,058,394
Electricity purchased for other purposes	"	—	—
Total (cost only) .....		...	4,428,653
Electricity generated (a) For own use	kwh.	50,303,450	...
(b) For sale	"	—	—

TABLE 43. Power Equipment used in the Copper-Gold-Silver Mining Industry, 1958

Type of equipment	Driving generators	Not driving generators
horsepower		
A. Prime movers:		
Steam engines	—	—
Steam turbines	—	1,200
Diesel engines	16,587	1,185
Gasoline, gas and oil engines, other than diesel engines	412	766
Hydraulic turbines or water wheels	12,250	3,000
Total	29,249	6,151
B. Electric motors (one-quarter horsepower and over)	4,698	160,714

TABLE 44. Specified Expenditures by the Copper-Gold-Silver Mining Industry, 1956-58

	1956	1957	1958
dollars			
Workmen's compensation	1,420,238	1,284,418	1,130,201
Silicosis assessment	219,622	228,428	167,145
Unemployment insurance	320,833	335,562	321,468
Aggregate cost of all supplies purchased	44,748,228	42,131,327	37,369,425
Aggregate cost of plant and equipment purchased	15,215,410	16,212,121	5,856,514
Cost of buildings, machinery and equipment erected or installed during year	30,609,768	32,111,633	8,533,819

TABLE 45. Taxes Paid by the Copper-Gold-Silver Mining Industry, 1956-58

	1956	1957	1958
	dollars		
Dominion income tax, including tax on non-operating revenue	19,207,981	13,411,009	3,884,364
Provincial tax	5,949,050	4,572,134	3,155,812
Municipal tax	936,123	1,198,828	1,515,048
Grand total taxes paid	26,093,214	19,181,971	8,555,223

TABLE 46. Estimated Capital and Repair Expenditures in the Copper-Gold-Silver Mining Industry, 1954-58

Year	Capital expenditures			Repair expenditures			Capital and repair expenditures		
	Construction	Machinery	Total	Construction	Machinery	Total	Construction	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	7,811	5,622	13,433	3,117	3,298	6,417	10,928	8,920	19,848
1956	29,234	12,820	42,054	3,113	3,594	6,707	32,347	16,414	48,761
1957	26,546	11,337	37,883	3,579	4,275	7,854	30,125	15,612	45,737
1958 ¹	7,933	2,866	10,799	3,035	3,932	6,967	10,968	6,798	17,766

¹ Preliminary estimate.

TABLE 47. Cost of Prospecting Conducted by the Copper-Gold-Silver Mining Industry, by Provinces, 1957 and 1958

Conducted in	1957	1958	Conducted in	1957	1958	
	dollars			dollars		
Newfoundland	100,497	19,786	Saskatchewan	1,251,540	454,615	
Nova Scotia	17,671	33,563	Alberta	—	52	
New Brunswick	2,021,332	299,803	British Columbia	1,913,743	1,965,080	
Quebec	3,061,593	2,140,416	Northwest Territories	1,300,856	488,649	
Ontario	3,356,861	1,616,780	Yukon	543,359	211,291	
Manitoba	3,978,139	3,009,460	Total	17,545,591	10,239,495	

TABLE 48. Drilling Completed on Copper-Gold-Silver Deposits, 1957 and 1958

	Footage drilled	
	1957	1958
Diamond drilling for exploration (testing only):		
By mining companies with their own personnel and equipment	175,204	33,241
By diamond drilling contractors	1,562,563	1,211,722
Other diamond drilling:		
Blast hole diamond drilling:		
By mining companies with their own personnel and equipment	929,909	769,595
By diamond drilling contractors	472,026	338,423
Drilling by percussion or other machines ¹	17,432,816	16,451,323

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

Note: Value of diamonds in all forms (stones, bits, etc.) purchased during the year, \$150,623.

TABLE 49. Copper Production (Recoverable) According to Nature of Ore, and by Provinces, 1956-58

Province	From copper-gold-silver ores	From nickel-copper ores	From other ores	Total
1956				
Newfoundland	—	—	3,108	3,108
Nova Scotia	—	—	404	404
New Brunswick	—	—	6	6
Quebec	120,179	—	2,121	122,300
Ontario	2,724	153,246	301	156,271
Manitoba	13,224	4,749	—	17,973
Saskatchewan	33,116	—	—	33,116
British Columbia	17,878	—	3,804	21,682
Canada	187,121	157,995	9,744	354,860
1957				
Newfoundland	1,296	—	3,239	4,535
Nova Scotia	5,738	—	—	5,738
New Brunswick	—	—	—	—
Quebec	109,535	—	2,874	112,409
Ontario	9,644	160,786	1,273	171,703
Manitoba	13,747	4,804	—	18,551
Saskatchewan	30,597	—	—	30,597
British Columbia	12,657	—	2,754	15,411
Northwest Territories	—	165	—	165
Canada	183,214	165,755	10,140	359,109
1958				
Newfoundland	11,619	—	3,132	14,751
Nova Scotia	—	—	—	—
New Brunswick	328	—	—	328
Quebec	127,674	—	3,771	131,445
Ontario	31,839	106,923	3,273	142,035
Manitoba	7,945	4,656	—	12,601
Saskatchewan	37,510	—	—	37,510
British Columbia	4,575	340	1,095	6,010
Northwest Territories	—	434	—	434
Canada	221,490	112,353	11,271	345,114

TABLE 50. Production of Refined Copper,¹ 1949-58

Year	Short tons	Year	Short tons
1949	226,083	1954	253,365
1950	238,204	1955	288,997
1951	245,466	1956	328,458
1952	196,320	1957	323,540
1953	236,966	1958	329,239

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

TABLE 51. Silver Production According to Nature of Ore, by Provinces, 1958

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	—	—	—	—	1,267,078	—	1,267,078
Nova Scotia	—	4	—	—	—	—	4
New Brunswick	—	—	51,139	—	—	—	51,139
Quebec	—	147,743	2,735,243	—	1,025,375	—	3,908,361
Ontario	—	442,249	1,437,756	1,217,510	674,240	6,043,502	9,815,257
Manitoba	—	8,403	294,252	18,104	—	—	320,759
Saskatchewan	—	—	1,299,077	—	—	—	1,299,077
Alberta	28	—	—	—	—	—	28
British Columbia	642	36,255	52,392	504	7,923,635	—	8,013,428
Northwest Territories	—	72,779	—	—	—	—	72,779
Yukon	15,383	—	—	—	6,400,177	—	6,415,560
Canada	16,053	707,433	5,869,859	1,236,118	17,290,505	6,043,502	31,163,470

TABLE 52. Selenium and Tellurium Recoverable from Canadian Ores, 1949-58

Year	From copper-gold-silver ores		From nickel-copper ores		Total	
	Selenium	Tellurium	Selenium	Tellurium	Selenium	Tellurium
pounds						
1949	231,383	2,966	86,842	8,726	318,225	11,692
1950	198,264	4,065	63,709	6,010	261,973	10,075
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
1956	221,233	1,562	109,156	6,305	330,389	7,867
1957	234,933	24,609	86,459	6,915	321,392	31,524
1958	216,695	31,558	90,295	6,692	306,990	38,250

TABLE 53. Zinc Production (Recoverable) According to Nature of Ore, and by Provinces, 1957 and 1958

Year and province	Recoverable from copper-gold-silver ores	Recoverable from silver-lead-zinc and other ores	Total	
			tons (2,000 pounds)	tons (2,000 pounds)
1957				
Newfoundland	—	35,698	35,698	35,698
Nova Scotia	—	—	—	—
New Brunswick	3,314	—	—	3,314
Quebec	37,072	37,223	74,295	74,295
Ontario	3,521	7,775	11,296	11,296
Manitoba	13,729	—	—	13,729
Saskatchewan	45,070	—	—	45,070
British Columbia	8,582	213,197	221,779	221,779
Yukon	—	8,560	—	8,560
Canada	111,288	302,453	413,741	413,741
1958				
Newfoundland	—	33,870	33,870	33,870
Nova Scotia	—	—	—	—
New Brunswick	3,162	—	—	3,162
Quebec	40,266	16,657	56,923	56,923
Ontario	16,938	29,301	46,239	46,239
Manitoba	11,512	—	—	11,512
Saskatchewan	48,328	—	—	48,328
British Columbia	1,504	215,800	217,304	217,304
Yukon	—	7,761	—	7,761
Canada	121,710	303,389	425,099	425,099

TABLE 54. Refined Zinc Produced, from All Sources, 1949-58

Year	Short tons	Year	Short tons
1949	206,045	1954	253,365
1950	204,367	1955	256,542
1951	218,578	1956	255,564
1952	222,200	1957	247,316
1953	250,961	1958	252,093

TABLE 55. Cadmium Production (Recoverable) from Canadian Ores, 1949-58

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							
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
1951	147,168	1,179,752	1,326,220	1956	208,327	2,131,094	2,339,421
1952	205,911	742,676	948,587	1957	286,044	2,082,086	2,368,130
1953	157,997	960,288	1,188,285	1958	355,602	1,400,448	1,756,050

TABLE 56. Average Annual Metal Prices in Canadian Dollars, 1949-58

Year	Gold	Silver	Copper	Lead	Zinc
	Per troy ounce	Per troy ounce	Per pound	Per pound	Per pound
dollars					
1949.....	36.00	0.7425	0.1997	0.158	0.1325
1950.....	32.05	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
1956.....	34.45	0.8968	0.4141	0.1551	0.1484
1957.....	33.55	0.8737	0.2895	0.1396	0.1209
1958.....	33.98	0.8681	0.2542	0.1136	0.1088

TABLE 57. World Copper Production by Countries of Origin of Ore¹

Source: "American Bureau of Metal Statistics' Year Book"

Country	1954	1955	1956	1957	1958
tons (2,000 pounds)					
United States	841,071	1,014,442	1,114,285	1,092,744	990,253
Mexico	60,413	60,269	60,478	66,739	71,609
Canada	302,732	325,994	354,860	359,109	346,816
Cuba	16,773	19,507	16,046	15,306	13,992
Bolivia ²	4,036	3,855	4,697	4,319	4,030
Chile	400,857	477,869	539,839	533,855	509,541
Peru	41,504	47,843	50,966	63,023	56,059
Ecuador	-	6	-	-	-
Total America	1,667,386	1,949,785	2,141,371	2,135,155	1,992,300
Austria	3,381	2,841	2,579	2,574	2,695
Finland	23,992	25,412	24,830	28,321	31,569
Germany, West	2,458	1,335	1,076	1,203	1,156
Italy	685	273	494	428	661
Norway	14,980	15,419	16,488	16,787	16,755
Spain ³	7,951	6,726	7,525	11,077	8,230
Sweden	14,565	17,275	18,436	19,914	21,370
Yugoslavia	35,439	32,098	35,087	36,883	38,840
Total Europe	103,451	101,379	106,515	117,187	121,276
Japan	71,483	80,466	85,458	90,066	89,357
India	8,020	8,155	8,543	8,790	8,800
Korea, Republic of	550	1,400	1,450	1,011	842
Turkey	27,727	26,313	27,101	23,716	24,576
Philippines	15,817	19,247	29,721	44,513	51,841
Cyprus ⁴	30,059	26,123	39,497	43,676	36,614
Total Asia	153,656	161,704	191,770	211,772	212,130
Belgian Congo	246,685	259,158	275,535	267,026	261,865
Northern Rhodesia	438,711	395,307	445,464	480,313	441,072
South West Africa	14,352	23,739	27,953	30,466	32,065
Uganda	-	-	168	8,360	12,130
Union of South Africa	45,281	47,484	48,474	47,752	53,375
Total Africa	745,029	725,688	797,594	833,917	800,507
Australia	41,486	46,675	54,723	58,465	76,786
Russia	351,200	372,500	417,000	465,000	510,000
Germany, East	22,000	25,300	27,500	27,500	27,500
China	8,800	9,900	11,000	13,000	13,000
Soviet Sphere Total⁵	382,000	407,700	455,500	505,500	550,500
World Total, as reported⁶	3,093,008	3,392,931	3,747,473	3,861,996	3,753,499

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 Excludes copper content of iron pyrites which may or may not have been recovered.⁴ In addition there is production in Hungary and Poland; the total of which is estimated to be about 10,000 tons in 1958.⁵ In addition there is production in France, Portugal, Taiwan, Algeria, Angola, Southern Zone Morocco, Southern Rhodesia and Tanganyika; the total of all these countries is estimated to be about 19,000 tons in 1958.

TRANSACTIONS IN GOLD BULLION AT THE ROYAL CANADIAN MINT

(From the Annual Report of the Royal Canadian Mint)

Six thousand two hundred and ninety-one deposits of gold bullion were received at the Mint during the year from Canadian Mining Companies, and Sundry Persons. The gross weight of the deposits amounted to 4,868,066 ounces containing by assay 3,958,459 ounces fine gold and 602,095 ounces fine silver. This includes bullion received under the heading of Designated Gold. The receipts show a increase as compared with the year 1957 of 352 in the number of deposits, gross weight 69,770 ounces, gold content 62,375 ounces and fine silver 41,292 ounces and was composed of the following:

Fine Gold —

361 deposits weighing 365,521.371 ounces with a mean fineness of 996.903

Crude Bullion —

5,289 deposits weighing 4,184,213.259 ounces with an average fineness of 794.917

gold, 143.554 silver, and containing 6.1528% base metal

Scrap (Jewellery and Dental) —

289 deposits, 17,318.295 ounces at an average fineness of 510.940 gold and 82.735 silver

Designated Gold —

352 deposits weighing 301,013.480 ounces with an average fineness of 860.814

The net value paid to depositors was \$125,250,344.43. In addition the amount of fine gold issued to depositors was 266,716.048 ounces.

Details of origin of the bullion deposited for sale to the Mint during the year 1958 are shown in the following table:

From Canadian mines and refineries	Gross weight	Fine gold	Fine silver
	ounces		
Ontario	2,862,923.670	2,387,822.603	332,712.38
Quebec	837,386.750	644,441.158	140,264.28
British Columbia	222,413.520	177,295.565	30,490.23
Manitoba	93,601.310	73,853.896	8,993.57
Yukon Territory	85,131.270	67,744.734	15,382.93
Nova Scotia	141.030	131.390	4.25
Northwest Territories	447,809.090	338,921.974	72,786.29
Alberta and Saskatchewan	317.990	281.947	28.45
Total from Canadian Mines and Refineries	4,549,734.630	3,690,493.267	600,662.38
From jewellery and scrap	17,318.295	8,848.613	1,432.84
Grand total	4,567,052.925	3,699,341.880	602,095.22

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

	Fine ounces
9,517 Trade bars transferred to Exchange Fund Account of Minister of Finance	3,806,735.868
Depositors – granulated and bars	266,716.048
Sales of fine gold	4,999.854
Trial Plate for assay purposes	7,000
Medals, etc.	16,219
Sweep	10,231.359
Total	4,088,706.348

Note: This total shows a increase of 311,995.671 ounces fine issued as compared with the year 1957.

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, 1958

Year	Gold received		Gold issued	
	Gross weight	Fine gold	Coin	Bullion
	ounces			fine ounces
1908 to 1948	111,333,678.405	89,862,299.426	383,319.096	89,392,530.928
1949	4,941,749.248	3,925,617.709		3,865,296.377
1950	5,465,956.751	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		3,998,835.506
1955	4,878,918.379	3,947,636.509		3,952,764.456
1956	4,693,484.529	3,801,788.815		3,774,599.457
1957	4,798,296.343	3,896,083.563		3,776,710.677
1958	4,868,066.405	3,958,485.747		4,088,706.348
Total	160,505,819.226	129,450,994.811	383,319.096	129,022,456,419

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 1958 amounted to 259,116.867 ounces. Fine bullion amounting to 263,270.498 ounces was issued on behalf of the mines for export and to various processors for domestic use.

**CURRENCY, MINT AND EXCHANGE FUND ACT MINT CUSTOM REFINING
AND STORING REGULATIONS, 1956**

P.C. 1956-450

AT THE GOVERNMENT HOUSE AT OTTAWA

Thursday, the 22nd day of March, 1956.

Present:

His Excellency the Governor General in Council

His Excellency the Governor General in Council, on the recommendation of the Minister of Finance, pursuant to the Currency, Mint and Exchange Fund Act, is pleased, hereby, to revoke, effective the 21st day of March, 1956, the Mint Custom Refining and Storing Regulations made by Order in Council P.C. 1954-1619 of 28th October, 1954, as amended, and to make the annexed Mint Custom Refining and Storing Regulations, 1956, in substitution therefor.

**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, 1956.

2. (1) In these regulations,

- (a) "appropriate form" means the form of the instrument or document prescribed by the Minister for a particular purpose under these regulations;
- (b) "designated gold" means gold produced from the 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) "prior regulations" means the Mint Custom Refining and Storing Regulations made and established by the Governor in Council by Order in Council P.C. 1954-1619 of the 28th day of October, 1954, as amended; and
- (e) "producer" means a person engaged in producing gold from a mine who has made an election in the appropriate form and has delivered it to the Minister.

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

(3) A person who made an election in accordance with the prior regulations shall be deemed to have made a similar election in accordance with these regulations.

3. Upon application by a producer in the appropriate form, the Minister may accept designated gold at the Mint for assaying, refining or storing on behalf of 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), upon application made by or on behalf of the producer or for sale to Her Majesty at the "Mint buying price" as referred to in section 5 of the Gold Bullion Regulations.

(2) Where gold is released from the Mint to a producer or to a person designated by the producer, it shall be delivered, at the Mint counter at Ottawa, to such consignee, carrier or other agent acting on behalf of the consignee as the producer or other person designated by him as the person to whom the gold is to be released has named.

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

- (a) where gold is melted, assayed or refined, 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) where gold is stored, 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 so stored, 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, 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.

6. The silver content of gold delivered to the Mint by a producer under these regulations may be purchased by Her Majesty at the price payable by the Minister for silver under section 6 of the Gold Bullion Regulations.

7. 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 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 this discretion, for the purposes of this section, fix such charges in lieu of those prescribed by section 5 and make such other financial arrangements as he deems advisable.

8. Every producer shall prepare and mail to the Minister within thirty days following the last day of every month, monthly reports in the appropriate form showing, *inter alia*,

- (a) fine gold held by him or on his behalf at the beginning of the month
 - (i) at the Mint, and
 - (ii) at places other than the Mint (in detail);
- (b) refined gold produced during the month;
- (c) sales made during the month indicating,
 - (i) the name and address of the purchaser,
 - (ii) the amount in ounces sold to each purchaser,
 - (iii) the value, in Canadian funds, of the gold sold to each purchaser, and
 - (iv) the price paid, in Canadian funds, for each fine ounce of gold so sold; and
- (d) fine gold held by him or on his behalf at the end of the month
 - (i) at the Mint, and
 - (ii) at places other than the Mint (in detail).

Directory of Firms in the Gold Mining Industry, 1958

Name	Head or executive office address	Location
(a) Placer Gold Mining Industry		
Quebec:		
Beauce Placer Mining Co. Ltd.	330 Bay St., Toronto, Ontario	Beauceville
British Columbia:		
Bindschalder A.	Wells	Cariboo
Broswick N.	Wells	Williams Creek
Callahan, I.R.	Lumby	Vetnon
Century Gold Placers Ltd.	510 W. Hastings St., Vancouver	Cariboo
Castles & Tanner	409 Dieppe Blvd., Lethbridge, Alberta	Maus Creek
Channel Placers, Inc.	2706 Beacon Ave., Seattle, Washington, U.S.A.	Lighting Creek
Chase, Edwin M.	Horsefly	Horsefly
Christensen, Harold C.	Wells	Cariboo
Corless T. S.	Quesnel	Quesnel
Corlick, A.	Wells	Wells
Cresswell, Richard	Quesnel	Cottonwood River
C.S. R. #3	704 - 8th Ave., Lois Creek, Kimberley	Perry Creek
Enterprise Placers	Atlin	Atlin
Feyer, J. H.	Beaver Pass via Quesnel	Quesnel
Fosberg, F. H. V.	Lumly	Vernon
Fredericks, F.	Likely	Quesnel
Fisher, D. F.	Salmo	Nelson
Germanson River Placers	Manson Creek	Germanson River
Haymore, Will	Goldbridge	Lillooet
Hayward C.	Box 615 Princeton	Spearing Creek
Husseibee W. J.	Atlin	Pink Creek
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
Johnson, Gust	Box 22 Horsefly	Horsefly River
Johnson, Victor	Quesnel	Fraser River
Ludditt, B. C.	Sardis	Quesnel
Loper & Pendle	Wells	Germanson River
MacColl & Hougen Holdings Ltd.	Gold Bridge	Beaver Pass
McKee, J. H.	Likely	Lillooet
Millar, Kidd & Millar	Box 219 Wells	Likely
Mink Gulch Placer Mine	Cottonwood	Wells
MacDonald, P. J.	Atlin	Mosquito Creek
Morton B.S.	Cottonwood	McKee Creek
MacDonald, Mrs. D.	409 Dieppe Blvd. Lethbridge, Alta.	Mosquito Creek
Maus Developments	1158 Melville St., Vancouver	Maus Creek
Noland Mines Ltd.	Germanson Landing	Atlin
Nichol, Geo.	Box 131 Ladner	Omineca
North & Nichols	Allenby	Barkerville
Old Channel Placers	Clinton	Similkameen
Ostjord, E. A.	Sardis	Manson Creek
Pendle, A.	61 Spokane St., Kimberley	Germansen Landing
Rollheiser, J. J.	Atlin	Fort Steele
Piccolo Bros.	Tiell	Atlin
Shuttle Island Placer Mines	Wells	Queen Charlotte Islands
Suran, Wm.	Sicamous	Cariboo
Wader, Lloyd	Carnation, Washington, U.S. A.	Revelstoke
Wallace, H. B.	Likely	Sovereign Creek
Wiebe & Allan		Quesnel Forks
Yukon:		
Ballarat Mines Ltd.	Dawson	Ballarat Creek
Boutilier, D. F. & H.C.	Dawson	Bonanza Creek
Boutilier, H. & H.	Box 437, Dawson	Bonanza Creek
Bratsberg, B.	1682 MacGowan Ave., N. Vancouver, British Columbia	Dawson
Bradbury & Cooper	Glacier	Dawson
Bremner John	Dawson	Last Chance Creek
Burwash Mining Co. Ltd.	Box 776, Whitehorse	Burwash Creek
Burgelman, Mrs. N.	Dawson City	Dawson
Felchtinger, J.	Glacier Creek	Dawson
Fry, A. T. & D.	Box 907, Dawson	Bonanza Creek
Gibbons C. A.	Box 506, Whitehorse	Victoria Creek
Gould, J. A. & R. S.	P.O. Box 328, Dawson	Dawson
Greig, C. W.	Mayo	Dublin Gulch
Northern Placers Ltd.	Box 513, Dawson	Adams Creek
Nugget Hill Placers	Box 65, Dawson	Hunker Creek
Lanoff J.	Dawson	Cold Run Creek
Netzel, Mrs. M.	Box 2156, Whitehorse	Burwash Creek
M & S Placers	Dawson	Bonanza Creek
Pomuchina, P.	Bonanza Creek	Bonanza Creek
Pontaletta, P.	Dawson	Dawson
Sestak, Placers Ltd.	Dawson	Dawson
Taylor, Fred	Mayo	Dublin Gulch
Troberg, R. E.	Dawson	Bonanza Creek
Waddco Placers Ltd.	Dawson	Dawson
Yukon Consolidated Gold Corporation	1919 Marine Bldg., Vancouver, British Columbia	Dawson
Yukon Placer Mining Co.	1158 Melville St., Vancouver	Glacier Creek
Alberta:		
Cook, Thos. E.	8334 - 79 Ave., Edmonton	North Saskatchewan River
Staley, T.	Devon	North Saskatchewan River
Welsh E.	11829 - 101 St., Edmonton	North Saskatchewan River
Welsey J.	Edmonton	North Saskatchewan River

Directory of Firms in the Gold Mining Industry, 1938 – Continued

Directory of Firms in the Gold Mining Industry, 1958 — Continued

Name	Head or executive office address	Location
(b) Gold Quartz Mining Industry		
Nova Scotia:		
Smith, A. J.	East Chezzetcook	Lake Catcha
Redden, Fred C.	Middle Musquodobit	Lindsay Lake
Silver, Chas. S.	Sheffield Mills	Stormont
MacMillan, MacKay	Issacs Harbour	Guyborough
Young, J. Oscar	The Oxen, R. R. #1, Lunenburg	Lunenburg
East Hants, Gold Mines Ltd.	Hants	Hants
Quebec:		
Anacon Lead Mines Ltd.	330 Bay St., Toronto, Ontario	Rohault Twp.
Barnat Mines Ltd.	199 Bay St., Toronto, Ontario	Malartic, Quebec
Belleterre Quebec Mines, Ltd.	25 King St. W., Toronto 1, Ontario	Belleterre
Bevcon Gold Mines, Ltd.	199 Bay St., Toronto Ontario	Louvicourt
Bonnie Gold Mines Ltd.	100 Adelarde St. W., Toronto Ontario	Bruches Twp.
Britt-Malartic Gold Mines Ltd.	33 Melinda St., Toronto, Ontario	Malartic
Bourdeau Lake Mines, Ltd.	25 King St. W., Toronto 1, Ontario	McKenzie Twp.
Canadian Malartic Gold Mines Ltd.	25 Adelaide St. W., Toronto, Ontario	Malartic
Celta Development & Mining Co. Ltd.	1121 Sherbrooke St. W., Montreal	Rouyn
Chimo Gold Mines Ltd.	455 Craig, Montreal	Vauquelin Twp.
Cournor Mining Co., Ltd.	199 Bay St., Toronto, Ontario	Louvicourt Twp.
Consolidated Central Cadillac Mines Ltd.	1374 Sherbrooke St. W., Montreal	Cadillac
Crionor Pershing Mines Ltd.	62 Richmond St. W., Toronto	Pershing Twp.
Dolsan Mines Ltd.	314 Bathurst St., Toronto, Ontario	Vassal Twp.
Donaldal Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Noranda
Dupel Mines Ltd.	199 Bay St., Toronto, Ontario	Duprat Twp.
East Amphi Gold Mines Ltd.	44 King St. W., Toronto, Ontario	Malartic Twp
East Malartic Mines Ltd.	44 King St. W., Toronto, Ontario	Fourniere Twp.
Elder Mines, Ltd.	11 King St. W., Toronto, Ontario	Noranda Twp.
Eldrich Mines Ltd.	159 Craig St. W., Montreal	Duprat
Farrell-Rouyn Mines (Que.) Ltd.	222 Hospital St., Montreal	Rouyn
Frankson Mines Ltd.	Bourlamaque	La Bauversiere
Fontana Mines (1945) Ltd.	67 Yonge St., Toronto, Ontario	Beauchastel
Gamma Mines (Quebec) Ltd.	132 St. James St., Montreal	Bourlamaque
Gwillim Lake Gold Mines Ltd.	516 Canada Cement Bldg., Montreal	McKenzie Twp.
Kerromac Mining Co. Ltd.	Arntfield	La Sarre Twp.
Lake Opawica Mines Ltd.	Bourlamaque	Parker Twp.
Lake Wassa Mining Corporation	486 St. John St., Montreal	Bourlamaque
Lamaque Mining Co. Ltd.	100 Adelaide St. W., Toronto, Ontario	Beauchastel
Leys, Wm., Mining Corp. Ltd.	Halet	Bourlamaque
Louvicourt Goldfields Corporation	1197 Phillips Square, Montreal	Fourniere Twp.
Malartic Goldfields Ltd.	Haileybury, Ontario	Fiedmont
Mariette Mines Ltd.	4 East Notre Dame St., Montreal	Rouyn Twp.
McWatters Gold Mines	100 Adelaide St. W., Toronto, Ontario	Louvicourt
Nemrod Mining Co., Ltd.	7 King St. W., Toronto, Ontario	Chibougamau
New Goldvue Mines Ltd.	Box 428, Noranda	Rouyn
New Marlon Gold Mines Ltd.	67 Yonge St., Toronto, Ontario	Noranda
New Senator-Rouyn Ltd.	199 Bay St., Toronto, Ontario	Dufresnoy
New Vinray Mines Ltd.	Cadillac	Malartic
Narlarctic Mines Ltd.	330 Bay St., Toronto, Ontario	Cadillac Twp.
O'Brien Gold Mines, Ltd.	360 St. James St. West, Montreal	Bourlamaque
Orenada Gold Mines Ltd.	200 Bay St., Toronto, Ontario	Rouyn, Twp.
Osisko Rouyn Exploration Co., Ltd.	82 Gouvernement Road, Kirkland Lake	Abitibi
Perron Gold Mines Ltd.	62 Richmond St. W., Toronto, Ont.	Dasserat
Pitchvein Mines Ltd.	357 Bay St., Toronto, Ontario	Fourniere Twp.
Porcupine Prime Mines Ltd.	2006 Bleury St., Montreal	Cedar Rapids
Quebelle Mines Ltd.	132 St. Jacques, Montreal	Barraute
Quebec Diversified Mining Corp., Ltd.	44 King St. W., Toronto	Vauquelin Twp.
Quebec Explorers	Bourlamaque	Fourniere Twp.
Rand Malartic Mines Ltd.	455 Craig St., Montreal	Bourlamaque
Sigma Mines (Quebec) Ltd.	1403 — Aldred Building, Montreal	Rouyn
Stadocona Mines (1944) Ltd.	320 Bay St., Toronto, Ontario	Dubuisson Twp.
Sullivan Consolidated Mines Ltd.	67 Yonge St., Toronto, Ontario	Rouyn Twp.
Sunburst Explorations		Malartic
Tib Exploration Ltd.		
Ontario:		
Porcupine District		
Aunor Gold Mines Ltd.	44 King St. W., Toronto	Timmins
Broulan Reef Mines Ltd.	80 Richmond St. W., Toronto	Whitney Twp.
Contaurium Mines Ltd.	25 King St. W., Toronto	Tisdale Twp.
Delnite Mines Ltd.	Box 590, Timmins	Deloro Twp.
Dome Mines Ltd.	South Porcupine	Tisdale Twp.
Hallnor Mines Ltd.	1700 Bank of Nova Scotia Building, Toronto	Whitney Twp.
Hollinger Consolidated Gold Mines Ltd.	Timmins	Hislop Twp.
Hugh-Pam Porcupine Mines Ltd.	80 Richmond St. W., Toronto	Cochrane District
McIntyre Porcupine Mines Ltd.	Schumacher	Schumacher
Pamour Porcupine Mines Ltd.	Bank of Nova Scotia Bldg., Toronto	Whitney Twp.
Paymaster Consolidated Mines Ltd.	Box 100, South Porcupine	Doloro and Tisdale Twps.
Preston East Dome Mines Ltd.	335 Bay St., Toronto	South Porcupine
Buffalo Ankerite Gold Mines Ltd.	South Porcupine	Doloro Twp.
Central Porcupine Mines Ltd.	360 Bay St., Toronto	Tisdale Twp.

Directory of Firms in the Gold Mining Industry, 1958 — 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
Maritime Mining Corp., Ltd.	330 Bay St., Toronto, Ontario	Tilt Cove
Rambridge Mines Ltd.	44 King St. W., Toronto, Ontario	Baie Verte
Nova Scotia:		
Belmine Exploration Ltd.	62 Richmond St. W., Toronto, Ontario	Cape Breton
Gordon Minerals	452 Barrington St., Halifax	Cape Breton
King Copper Mining Corp.	1519 Fine Ave. W., Montreal, Quebec	Oxford
New Brunswick:		
Area Mines Ltd.	44 King St. W., Toronto, Ontario	Bathurst
Aumacho River Mines Ltd.	25 Adelaide St. W., Toronto, Ontario	Gloucester
Baie Holdings Ltd.	Bathurst	Bathurst
Blamor Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Gloucester
Chesterville Mines Ltd.	25 Adelaide St. W., Toronto, Ontario	Gloucester
International American Mineral Ltd.	Bathurst	Bathurst
Fab Metal Mines Ltd.	25 Adelaide St. W., Toronto, Ontario	Gloucester
Lencourt Gold Mines Ltd.	360 St. James St. W., Montreal, Quebec	Northumberland
Heath Steele 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
Mogul Mining Corp., Ltd.	25 Adelaide St. W., Toronto, Ontario	Gloucester
New Alger Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Northumberland
New Goldvus 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
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
Tribag Mining Co. Ltd.	44 King St. W., Toronto, Ontario	Gloucester
Quebec:		
Aero Mining Corp., Ltd.	5616 Park Ave., Montreal	Brome Twp.
Abundant Minerals Mining Corp.	28 Ouest St., Jacques Montreal	Eardley Twp.
American Metal Co., Ltd.	25 Adelaide St. W., Montreal	Trout Lake
Arista Exploration Ltd.	111 Richmond St. W., Toronto	Lac Renzy
Arno Mines Ltd.	62 Richmond St. W., Toronto	Levy Twp.
Aucouris Mines Ltd.	100 Adelaide St. W., Toronto	Louvicourt Twp.
Augdome Exploration Ltd.	80 Richmond St. W., Toronto, Ontario	Desmeloizes
Bateman Bay Mining Co.	1240 Drummond St., Montreal	McKenzie Twp.
Barbi Lake Copper Mines Ltd.	25 Adelaide St. W., Toronto	Opawica Lake
Baska Uranium Mines Ltd.	2230 Queen St., Regina, Sask.	Scott Twp.
Bomite 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.
Broughton Copper Ltd.	100 Carré d'Youville, Quebec	East Broughton
Brunhurst Mines Ltd.	100 Adelaide St. W., Toronto	Dufresnoy Twp.
Burrex Mines Ltd.	603 Temple Bldg., Toronto, Ontario	Dollier, Twp.
Campbell Chibougamau Mines Ltd.	55 Yonge St., Toronto	Merrill Island
Canadian Shield Mining Corp., Ltd.	5 St. James St. E., Montreal	Figuery Twp.
Canalynda Copper Mines Ltd.	85 Richmond St. W., Toronto	Privat Twp.
Canadian Thorium Corp., Ltd.	80 Richmond St. W., Toronto	Dufay Twp.
Canamiska Copper Mines Ltd.	85 Richmond St. W., Toronto	Levy Twp.
Caral Mining Co., Ltd.	7 King St. W., Toronto	Dalquier 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 Jaculte Mines Ltd.	55 Yonge St., Toronto	McKenzie Twp.
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
Copper Rand Chibougamau Mines Ltd.	55 Yonge St., Toronto	Chibougamau
Dencraft Mines Ltd.	80 King St. W., Toronto	Desmeloizes Twp.
Despina Gold Mines Ltd.	37 Wall St. New York, N.Y., U.S.A.	Rouyn Twp.
DeVille Copper Mines Ltd.	85 Richmond St. W., Toronto	La Reine Twp.
Diggers Chibougamau Mines Ltd.	42 ouest Ste. Anne, Quebec	Scott Twp.
Diomar Mining Syndicate	4555 Melrose, Montreal	Lamarc
Donald Gold Mines Ltd.	100 Adelaide St. W., Toronto	Dufresnoy Twp.
Duvan Copper Co., Ltd.	209 — 9th St. Noranda	Desmeloizes Twp.
Ebor Uranium Mines Ltd.	10 Adelaide St. E., Toronto	Clermont Twp.
Elvus Mines Ltd.	100 Adelaide St. W., Toronto	Duprat 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
Gaspe Copper Mines Ltd.	44 King St. W., Toronto, Ontario	Holland Twp.
Gibson Chibougamau Mines Ltd.	Chibougamau	McKenzie Twp.
Greek Canadian Mines Ltd.	73 Adelaide St. W., Toronto	Pascalis
Grandines 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.
Hoyle Mining Co. Ltd.	360 Bay St., Toronto	Levy Twp.

Directory of Firms in the Gold Mining Industry, 1958 — Continued

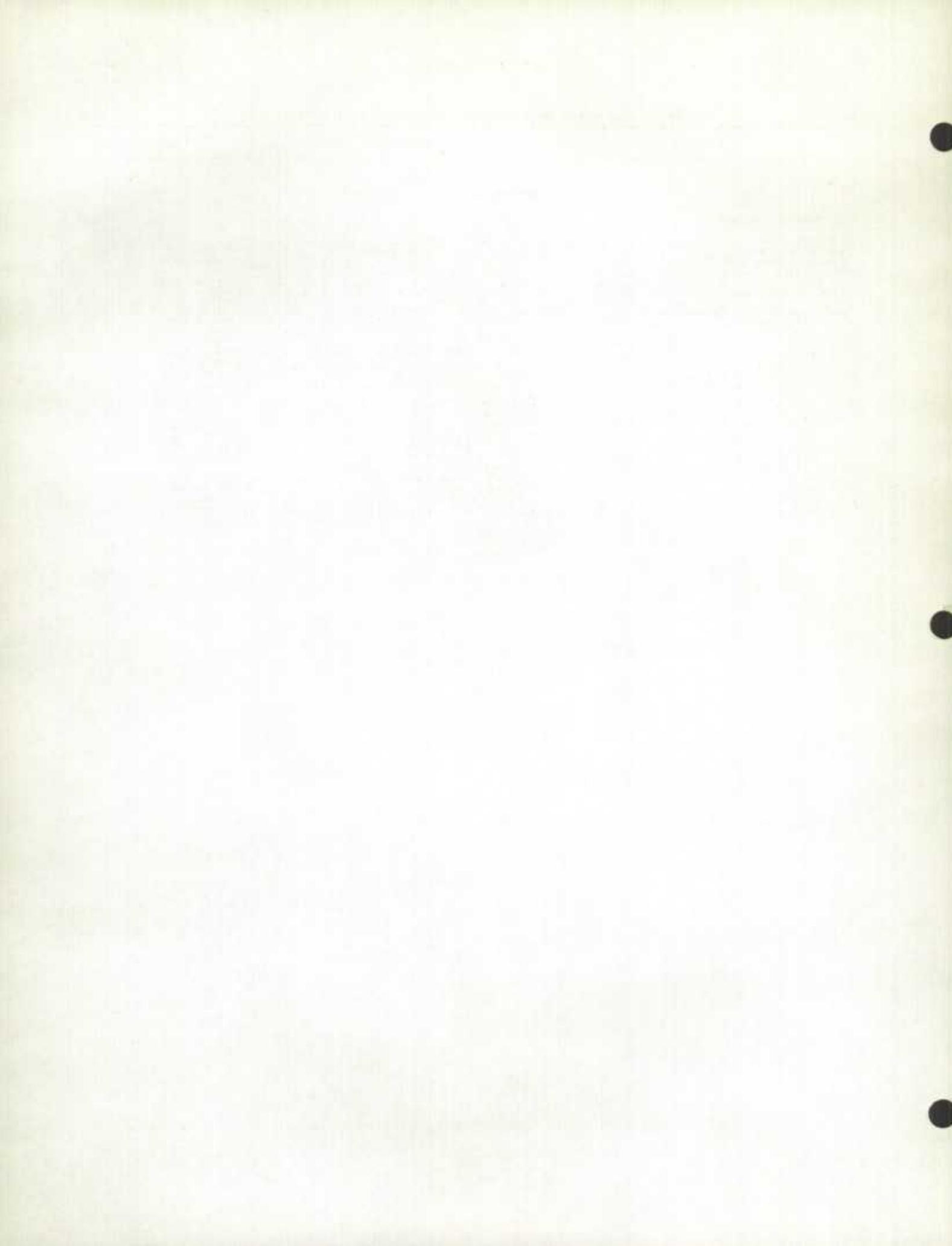
Name	Head or executive office address	Location
(c) Copper-Gold-Silver Mining Industry — Continued		
Quebec — Continued:		
Indian Lake Mines Ltd.	100 Adelaide St. W., Toronto	Levy Twp.
Inmont Copper Mines Ltd.	25 Adelaide St. W., Toronto	Montbray Twp.
Imperial Minerals Ltd.	1255 Phillips Square, Montreal	Matapedia Twp.
Jacobus Mining Corp. Ltd.	25 Adelaide St. W., Toronto, Ontario	Obalski Twp.
Jowsey, R. J. Mining Co., Ltd.	302 Bay St., Toronto	Latac Twp.
Kisco Copper Mines Ltd.	25 Adelaide St. W., Toronto	Levy Twp.
Lachance Mines Ltd.	161 sud, rue Notre Dame Thetford Mines	Leeds Twp.
Lake Chibougamau Mines Ltd.	455 Craig St. W., Montreal	Roy Twp.
Lake Renzy Mines Ltd.	360 St. James St. W., Montreal	Hainout 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.
Lencourt Gold Mines Ltd.	360 St. James St. W., Montreal	Desmeloizes Twp.
Lexindin Gold Mines Ltd.	25 Adelaide St. W., Toronto	Feguery Twp.
Lingside Copper Mining Co. Ltd.	62 Richmond St. W., Toronto, Ontario	Levy Twp.
Lyndhurst Mining Co., Ltd.	302 Bay St., Toronto, Ontario	Destor Twp.
Magome Mines Ltd.	112 Yonge St., Toronto	Dolomieu Twp.
McCorkill Chibougamau Mining Co.	152 rue Notre Dame est., Montreal	McCorkill Twp.
Maralgo Mines Ltd.	25 King St. W., Toronto	Clericy Twp.
Marcon Mines Ltd.	7 King St. W., Toronto	Levy Twp.
Martin McNeely Mines Ltd.	25 Adelaide St. W., Toronto	Berlow Twp.
McWatters Gold Mines Ltd.	Box 369, Haileybury, Ontario	Currie Twp.
Mespi Mines Ltd.	80 Richmond St. W., Toronto	Rouyn Twp.
Mallen Red Lake Gold Mines Ltd.	80 Richmond St. W., Toronto, Ontario	La Clericy Twp.
McKenzie Northern Mines Ltd.	360 Craig St. W., Montreal	McKenzie Twp.
Merrill Island Mining Corp. Ltd.	455 Craig St. W., Montreal	Chibougamau
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.
Mid Chibougamau Mines Ltd.	509 Canada Cement Bldg., Montreal	Daubree Twp.
Midrim Mining Co., Ltd.	25 Adelaide St. W., Toronto	Verneuil Twp.
Multi-Minerals Ltd.	25 Adelaide St. W., Toronto	Verneuil Twp.
New Jack Lake Uranium Mines Ltd.	85 Richmond St. W., Toronto	Daubree Twp.
New Jason Mines Ltd.	7 King St. W., Toronto	McCorkill Twp.
New Lorie Mines Ltd.	80 Richmond St. W., Toronto	Dufresnoy Twp.
Newlund Mines Ltd.	44 King St. W., Toronto	Chibougamau
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 Vinray 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
New West Amulet Mines Ltd.	7 Adelaide St. E., Toronto	Duprat Twp.
Nor-Acme Gold Mines Ltd.	347 Bay St., Toronto	Eardley Twp.
Normalac Mines Ltd.	44 King St. W., Toronto	Desmeloizes Twp.
Norcopper & Metals Corp.	232 rue St. Jacques, Montreal	La Reine Twp.
Norands Mines Ltd.	1709 Bank of Nova Scotia Bldg., Toronto, Ontario	Noranda
Normetal Mining Corp., Ltd.	44 King St. W., Toronto, Ontario	Desmeloizes Twp.
Northcal Oils Ltd.	80 King St. W., Toronto	Scott Twp.
Obalski (1945) Ltd.	630 Dorchester St. W., Montreal	Chibougamau
Odyno Exploration & Developpement Ltée	115, 7ième rue, Noranda	Clericy
O pemiska Copper Mines (Quebec) Ltd.	25 King St. W., Toronto, Ontario	Opemisca
Osisko Lake Mines Ltd.	25 King St. W., Toronto, Ontario	Rouyn Twp.
Orofino Mines Ltd.	67 Yonge St., Toronto	McCorkill Twp.
Packard Pershing Mines Ltd.	215 St. James St. W., Montreal	Roy Twp.
Payrock Mines Ltd.	82 Government Rd. W., Kirkland Lake	Dasseraut Twp.
Pennbec Mining Corp.	266 St. James St. W., Montreal	Opemisca Twp.
Parkway Mines Ltd.	200 Bay St., Toronto, Ontario	Duparquet Twp.
Portage Island (Chibougamau) Mines Ltd.	630 Dorchester St. W., Montreal	Roy Twp.
Presmac Copper Mines Ltd.	25 Adelaide St. W., Toronto	Preissac Twp.
Prospectors Airways Co. Ltd.	44 King St. W., Toronto	Rinfret Twp.
Purdex Minerals Ltd.	44 King St. W., Toronto	Levy Twp.
Quebec Copper Corp., Ltd.	25 Adelaide St. W., Toronto	Brome
Quebec Smelting & Refining Ltd.	1405 Aldred Bldg., Montreal	McKenzie Twp.
Quemont Mining Corp., Ltd.	215 St. James St. W., Montreal	Rouyn Twp.
Quabelle Mines Ltd.	44 King St. W., Toronto, Ontario	Opawica Twp.
Quedon Copper Uranium Corp.	220 Bay St., Toronto	Obalski
Red Bark Mines Ltd.	1374 Sherbrooke St. W., Montreal	Dufresnoy Twp.
Rainville Mines Ltd.	85 Richmond St. W., Toronto	Louvicourt Twp.
Richard Copper Corp. Ltd.	25 King St. W., Toronto, Ontario	Distor Twp.
Rio Canadian Exploration Ltd.	Haileybury, Ontario	Gaspesia
Rocam Copper Mines Ltd.	335 Bay St., Toronto, Ontario	Roy Twp.
Seiby Mining Exploration Co.	44 King St., Toronto	Waconnichi Lake
Selco Exploration Co., Ltd.	1121 Sherbrooke St. W., Montreal	Pontiac Co.
Silanco Mining & Refining Co., Ltd.	77 York St., Toronto	Duprat Twp.
Senneterre Metals Ltd.	100 Adelaide St. W., Toronto	Senneterre
South Bachelor Mining Co., Ltd.	10680 Ave. St. Charles, Montreal	Le Tac Twp.
Soma-Durverny Gold Mines Ltd.	215 St. James St. W., Montreal	Duvernay Twp.
Stratmat Ltd.	Box 577, Val d'Or	McKenzie Twp.
Sudbury Contact Mines Ltd.	100 Adelaide St. W., Toronto	Scott Twp.
Suzor Copper Mines Ltd.	100 Adelaide St. W., Toronto	Suzar
Tache Lake Mines Ltd.	Haileybury, Ontario	Roy Twp.
Trinity Chibougamau Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Lamorandiere Twp.
Trueborn Gold Mines Ltd.	Haileybury, Ontario	Temiscamingue
Tud Cobalt Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Fiedmont Twp.
Ungava Copper Corp.	62 Richmond St. W., Toronto	Canton #6044
Vandoor Consolidated Explorations Ltd.	100 Adelaide St. W., Toronto	Desmeloizes Twp.
Vankirk Mines Ltd.		Bourlamaque Twp.

Directory of Firms in the Gold Mining Industry, 1958 — Continued

Name	Head or Executive office address	Location
(c) Copper-Gold-Silver Mining Industry — Continued		
Quebec — Concluded:		
Wakanichi Mines Ltd.	7 King St. W., Toronto	O'Sullivan Twp.
Windward Gold Mines Ltd.	85 Richmond St. W., Toronto	McCorkill Twp.
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.
White River Exploration Ltd.	507 Place d'Armes, Montreal	St. Ubald
Yellowknife Bear Mines Ltd.	80 Richmond St. W., Toronto	Obalski Twp.
Yordan Exploration Ltd.	600 St. Catharine St. W., Montreal	Obalski Twp.
Zenith Mines Ltd.	132 St. James St., Montreal	Barlow Twp.
Ontario:		
Bandowan Mines Ltd.	62 Richmond St. W., Toronto	Shebandowan Lake
Bruce-Presto Mines Ltd.	335 Bay St., Toronto	Plummer Twp.
Brunet, Aimé	200 Belmont St., Cornwall	Tudhope Twp.
Baseline Mines Ltd.	145 Yonge St., Toronto	Manitouwadge
Chipman Lake Mines Ltd.	112 Yonge St., Toronto	Kenora
Coldstream Copper Mines Ltd.	44 King St. W., Toronto	Kasabowie
Copper Corp. Ltd.	25 King St. W., Toronto	Mamainse Point
Copper Prince Mines Ltd.	62 Richmond St. W., Toronto	Blind River
Coppercloud Prospecting Syndicate	50 King St. W., Toronto	Ryan Twp.
Des Barats Mlning Co., Ltd.	68 Yonge St., Toronto	Johnson Twp.
Dunvegan Mines Ltd.	357 Bay St., Toronto	Cosgrave 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
Feco Mines Ltd.	44 King St. W., Toronto	Manitouwadge
Greatlakes Copper Mines Ltd.	25 Adelaide St., Toronto	Fountain Lake
Headway Red Lake Gold Mines Ltd.	55 Yonge St., Toronto	Manitouwadge
Hillala Lake Mines Ltd.	100 Adelaide St. W., Toronto	Manitouwadge
Kristina Copper Mines Ltd.	34 Touraine Ave., Wilson Heights	Algoma
Laco Mines Ltd.	199 Bay St., Toronto	Manitouwadge
Man-Echo Mines Ltd.	67 Yonge St., Toronto	Manitouwadge
Maricona Minerals Ltd.	100 Adelaide St. W., Toronto	Sault Ste. Marie
Marilgo Mines Ltd.	25 King St. W., Toronto	Strathy Twp.
Mayburn Mines Ltd.	100 Adelaide St. W., Toronto	Kenora
Monpre Mining Co., Ltd.	62 Richmond St. W., Toronto	Matawin
Nama Creek Mines Ltd.	330 Bay St., Toronto	Manitouwadge
New Keloje Mines Ltd.	67 Yonge St., Toronto	Jamieson Twp.
Min-Ore Mines Ltd.	62 Richmond St. W., Toronto	Powell Twp.
Okleco Mines Ltd.	200 Bay St., Toronto	Manitouwadge
Okland 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.
Sherooniac	Box 150, Fergus	Boston Twp.
Shunsby Mines Ltd.	357 Bay St., Toronto	Cunningham Twp.
Split Rock Mines Ltd.	300 Dwight Ave., Toronto	Trout Lake
Supercrest Copper Mines Ltd.	25 King St. W., Toronto	Marne Twp.
Tarbutt Mines Ltd.	68 Yonge St., Toronto	Tarbutt Twp.
Tandem Mines Ltd.	330 Bay St., Toronto	Manitouwadge
Temagami Mining Co. Ltd.	11 Adelaide St. W., Toronto	Temagami
Wadge Mines Ltd.	145 Yonge St., Toronto	Manitouwadge
Willroy Mines Ltd.	25 Adelaide St. W., Toronto	Manitouwadge
Welsh G.S.	62 Richmond St. W., Toronto	Matachewan
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
Westore Mines Ltd.	303 Brent Building, Regina	Brabant Lake
British Columbia:		
Atkinson Mining Co.	510 W. Hastings St., Vancouver	Castlegar
Bethsalda Copper Mines Ltd.	1075 Melville St., Vancouver	Kamloops
Bethlehem Copper Corp. Ltd.	402 W. Pender St., Vancouver	Highland Valley
Britannia Mining & Smelting Co. Ltd.	Britannia Beach	Britannia Beach
Binton Syndicate	Box 243, Creston	Kitchener
Berkett Creek Mine Operators Ltd.	700 Burrard Bldg., Vancouver	Merritt

Directory of Firms in the Gold Mining Industry, 1958 — Concluded

Name	Head or executive office address	Location
(c) Copper-Gold-Silver Mining Industry — Concluded		
British Columbia — Concluded:		
Craigmont Mines Ltd.	678 Hawe St., Vancouver	Nicola
Centennial Mines Ltd.	1100 Royal Bank Bldg., Vancouver	Fort St. James
Consolidated Mining & Smelting Co. Ltd.	Trail	Skeena, Hope
Canam Copper Co., Ltd.	25 Adelaide St. W., Toronto, Ontario	Hope
Cowichan Copper Co., Ltd.	Box 320, Lake Cowichan	Honeymoon Bay
Dunmore Mines Ltd.	640 W., Hastings St., Vancouver	Kamloops
Finley Co.	490 Baker St., Nelson	Beasley
Granby Consolidated Mining, Smelting & Power Co., Ltd.	1111 W., Georgia St., Vancouver	Similkameen
Granduc Mines Ltd.	1111 W., Georgia St., Vancouver	Leduc Glacier
Guichon Mine Ltd.	736 Granville St., Vancouver	Nicola
Highland Valley Mining Corp. Ltd.	569 Howe St., Vancouver	Ashcroft
Jerico Mines Ltd.	717 West Pender St., Vancouver	Highland Valley
Makadoo Development Ltd.	1208 Vancouver Block, Vancouver	Kamloops
Maple Bay Copper Mines Ltd.	357 Bay St., Toronto, Ontario	Skeena
Midwest Copper & Uranium Mines Ltd.	614 Pender St., Vancouver	Rossland
Phoenix Copper Co., Ltd.	490 Grand Forks	Greenwood
Rico Copper Mines Ltd.	413 Granville St., Vancouver	Laidlaw
Rusty Creek Mining Co.	569 Howe St., Vancouver	Lillooet
St. Eugene Mining Corp. Ltd.	25 King St. W., Toronto, Ontario	Rainy Hollow
Salamet Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Greenwood
Skeena Silver Mines Ltd.	850 W. Hasting St., Vancouver	Highland Valley
Trojan Exploration Ltd.	413 Granville St., Vancouver	Highland Valley
Tungsten of British Columbia Ltd.	717 Pender St., Vancouver	Usk
Western Copperada Mining Corp.	1255 Phillips Square Montreal, Que.	Nicola
Wesfrob Mines Ltd.	25 King St. W., Toronto, Ontario	Tasu Harbour
Woodbury Mines Ltd.	1400 Marine Drive, North, Vancouver	Priceton
Woodgreen Copper Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Greenwood





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