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DOMINION BUREAU OF STATISTICS Industry Division

GOLD MINING INDUSTRY 1963

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EXPLANATORY NOTES

Establishment

The reporting unit in the Census of Manufactures is the establishment. Beginning with the 1961 Census, the establishment is defined as follows:

The smallest unit which is a separate operating entity capable of reporting all the following:

Materials and supplies used, Goods purchased for resale as such, Fuel and power consumed, Number of employees and their pay, Inventories, Shipments or sales.

The establishment is to be distinguished from smaller subdivisions or departments which do not have records which permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in operations which were classifiable to different industries. Beginning with 1961, separate reports for such operations will be required only in cases where accounting records can provide all the elements of principal statistics enumerated above. Special reporting arrangements were made with respondents when the acceptance of combined reports would have seriously

affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.

A mining establishment is typically a mine, mine/mill, quarry, pit or bog principally engaged in mining operations. Prior to 1961, the Census of Mines, Quarries and Oil Wells attempted to cover the mining activities of all establishments, whether or not they were principally engaged in mining operations. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in mining are no longer included as mining establishments in the basic industry statistics. Again adjustments to the industry statistics were made to reflect the removal of such reporting units for the period 1957-1960. These reporting units are now listed as establishments in other Bureau industry surveys, such as Wholesale Trade, Construction, etc. In order, however, to maintain complete coverage of certain commodity items produced mainly in mining establishments, many non-mining establishments are now surveyed for commodity information only and the latter are included in the appropriate tables of industry reports.

SYMBOLS

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- -- amount too small to be expressed.
- p preliminary figures.
- r revised figures.

GOLD MINING INDUSTRY

1963

This report includes statistics for industries:

051-Placer Gold Mines

052 - Gold Quartz Mines

053 - Copper-Gold-Silver Mines

of the Standard Industrial Classification Manual (Catalogue No. 12-501).

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 "Placer Gold Mines"; (b) the recovery of lode gold, which is designated "Gold Quartz Mines", 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 Mines" is included here to complete a comprehensive survey of Canadian gold production.

During 1963 the production of gold amounted to 4,003,127 troy ounces valued at \$151,118,045 compared with 4,178,396 ounces valued at \$156,313,794 in 1962. 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 58 per cent of the total. Quebec, in second position, produced 23 per cent and Northwest Territories accounted for 10 per cent of the total. The other provinces ranked in the following order: British Columbia, Saskatchewan, Yukon, Manitoba, Newfoundland, New Brunswick and Alberta.

The price of gold in Canadian funds averaged \$37.75 per troy ounce. It ranged from \$37.69 per troy ounce in April 1963 to \$37.90 per troy ounce in August. 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 rose above par value in June 1961. It had been discounted since March, 1952. In May 1962 the price of the Canadian dollar on foreign exchange was pegged.

TABLE 1. Production of Gold, Fifty Years, 1914-63

Year	Troy ounces	Value	Year	Troy ounces	Value
		\$			\$
914	773,178	15,983,007	1939	5,094,379	184,115,95
915	918,056	18,977,901	1940	5,311,145	204, 479, 08
916	930,492	19,234,976	1941	5,345,179	205,789,39
917	. 738,831	15, 272, 992	1942	4,841,306	186,390,28
918	. 699,681	14,463,689	1943	3,651,301	140,575,08
919	. 766,764	15, 850, 423	1944	2,922,911	112,532,07
920	. 765,007	15,814,098	1945	2,696,727	103,823,99
921	926,329	19,148,920	1946	2,832,554	104,096,35
922	. 1,263,364	26,116,050	1947	3,070,221	107,457,73
923	. 1,233,341	25, 495, 421	1948	3,529,608	123,536,28
924	. 1,525,382	31,532,443	1949	4,123,518	148, 446, 6
925	1,735,735	35,880,826	1950	4,441,227	168, 988, 6
926	. 1,754,228	36,263,110	1951	4,392,751	161,872,8
27	. 1,852,785	38,300,464	1952	4,471,725	153, 246, 0
928	1,890,592	39,082,005	1953	4,055,723	139, 597, 9
929	. 1,928,308	39,861,663	1954	4,366,440	148,764,6
930	. 2,102,068	43,453,601	1955	4,541,962	156,788,5
931	. 2,693,892	58,093,396	1956	4,383,863	151,024,0
932	3,044,387	71,479,373	1957	4,433,894	148,757,1
933	2,949,309	84,350,237	1958	4,571,347	155, 334, 3
034		102,536,553	1959	4,483,416	150,508,2
035		115,595,279	1960	4,628,911	157, 151, 5
936		131,293,421	1961	4,473,699	158,637,3
937		143, 326, 493	1962	4,178,396	156,313,7
938		166, 205, 990	1963	4,003,127	151,118,0

TABLE 2. Total (Cumulative) Recorded Production of Specified Metals to December 31, 1963

	Since	Quantity	Value
			\$
old troy ounce	1858	165,798,467	5,263,538,499
lver	1887	1,297,306,791	888, 390, 931
opper ton	1886	10,467,126	4,243,693,441
ickel	1889	5,057,830	4,411,708,660
ead	1887	7,611,338	1,216,659,749
ine	1898		1,955,937,494
obalt ton	1904	35,212	108,001,607

TABLE 3. Production of Gold from Auriferous Quartz and Base Metal Mines, by Months, 1961-63

		production face metal mine					Gold production from all types of mines					
	1961	1962	1963	1961	1962	1963	1961	1962	1963			
	troy ounces											
January	51,847	50,494	54,652	330,818	309,416	285,217	382,665	359,910	339,869			
February	52,033	47,896	46,916	313,001	279,000	266,096	365,034	326,896	315,012			
March	55,191	55,513	52,367	342,948	312,493	279,302	398,139	368,006	331,669			
April	53,926	49,177	49,195	326,162	307,791	288,484	380,088	356,968	337,679			
May	56,102	50,179	53,502	333,876	303,939	300,549	389,978	354,118	354,051			
June	52,451	53, 164	51,066	318,889	284,808	280,077	371,340	337,972	331,143			
July	50,678	52,747	47,413	311,169	288,055	264,463	361,847	340,802	311,876			
August	48,376	51,955	53,613	313,639	292,942	288,713	362,015	344,897	342,326			
September	46,986	56,410	54,157	302,336	286,217	280, 690	349,322	342,627	334,847			
October	48,271	54,051	52,709	318,318	305,325	299,205	366,589	359,376	351,914			
November	57,474	56,388	52,031	316,049	292, 324	284,834	373,523	348,712	336,865			
December	56,602	54,453	50,643	316,557	263,659	265,233	373,159	338,112	315,876			
Totals	629, 937	632, 427	618, 264	3,843,762	3,545,969	3, 384, 863	4, 473, 699	4, 178, 396	4,003,127			

TABLE 4. Production of Gold, by Provinces, 1954-63

	Newfo	oundland	Nova	Scotia	Qu	rebec	Or	tario	Ма	nitoba
Year	Troy	Value	Troy	Valuė	Troy ounces	Value	Troy ounces	Value	Troy ounces	Value
		5		\$		\$		\$		\$
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	154, 522 39, 854, 099		87, 095, 340	123, 888	4, 276, 614
1956	8, 213	282, 938	1, 279	44,061	1,036,059	1,036,059 35,692,233		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
1959	13, 411	450, 207	_	-	999,388	33, 549, 455	2, 683, 449	90,083,383	51, 186	1,718,314
1960	13, 515	458, 834	3	102	1,035,914	35, 169, 280	2, 732, 673	92, 774, 248	52, 762	1, 791, 270
1961	14, 429	511,652	_	_	1, 054, 029	37, 375, 868	2,637,720	93, 533, 551	57, 747	2,047,709
.962	13, 966	522, 468	_	_	993,560	37, 169, 080	2, 421, 249	90, 578, 924	68, 259	2, 553, 569
1963	12,318	465,004	_	_	917, 229	34, 625, 395	2, 338, 854	88, 291, 739	53,084	2,003,921
	Saskatchewan		All	Alberta		Columbia	Yukon		Northwe:	st Territories
		\$		\$		\$		\$		\$
1954	101, 785	3, 467, 815	195	6,644	268, 508	9, 148, 068	82, 208	2, 800, 826	308, 563	10, 512, 741
1955	83, 580	2, 885, 182	214	7, 387	252, 979	8, 732, 835	72, 201	2, 492, 379	321, 321	11,092,001
1956	82, 687	2, 848, 567	119	4, 100	196, 692	6,776,040	72,001	2, 480, 434	352, 669	12, 149, 447
1957	75, 236	2, 524, 168	416	13, 957	229, 113	7,686,741	73,962	2, 481, 425	340,018	11, 407, 604
1958	86,590	2,942,328	282	9, 582	210, 612	7, 156, 596	67,745	2,301,975	343, 838	11,683,615
959	78, 588	2,638,199	200	6,714	184, 312	6, 187, 354	66, 960	2, 247, 847	405, 922	13,626,802
1980	84, 775	2, 878, 111	191	6, 484	212, 659	7, 226, 563	78, 115	2,652,004	418, 104	14, 194, 631
961	70, 784	2, 510, 000	171	6,064	164, 467	5, 832, 000	66, 878	2, 371, 494	407, 474	14, 449, 028
962	66,034	2, 470, 332	186	6, 958	159, 492	5, 966, 596	54,805	2, 050, 255	400, 292	14,974,924
963	64,813	2, 446, 691	132	4,983	159, 473	6,020,106	55, 211	2,084,215	400, 885	15, 133, 409

¹ From all sources.

Note: New Brunswick gold in 1957, 240 ounces; in 1958, 52 ounces; in 1962, 553 ounces; in 1963, 1,128 ounces.

TABLE 5. Production of Gold, by Provinces, according to Nature of Ores, 1962 and 1963

Year and province	Placer gold	Auriferous quartz ores	Copper-gold- silver ores	Nickel-copper ores	Silver-lead and other ores	Total
			troy of	inces		
1962						
Newfoundland		DM / -	4,672	-	9, 294	13,966
Nova Scotia	_	-	-	_		-
New Brunswick		-	144	n/m	409	553
Quebec	117	580,631	401,065	-	11,747	993,560
Ontario		2, 349, 813	14,085	55,922	1, 429	2, 421, 249
Manitoba		37, 194	29, 905	1, 160	-	68, 259
Saskatchewan	-		66,034	-	-	66, 034
Albe rta	186	_	_	-	_	186
British Columbia	2,652	120, 279	29, 115	-	7, 446	159, 492
Yukon	54,805	-	-	-	-	54,805
Northwest Territories	7.77	400, 292	-	-	-	400, 292
Canada	57, 760	3, 488, 209	545, 020	57, 082	30, 325	4, 178, 396

TABLE 5. Production of Gold, by Provinces, according to Nature of Ores, 1962 and 1963 - Concluded

Year and province	Placer gold	Auriferous Copper-gold- quartz ores silver ores		Nickel-copper ores	Silver-lead and other ores	Total
			troy o	unces		
1963						
Newfoundland	-	-	4,605	etto.	7,713	12,318
Nova Scotia	-	-		_	-	-
New Brunswick	-	-	654	_	474	1, 128
Quebec	_	517,371	387, 311		12, 547	917, 229
Ontario	-	2, 278, 892	9, 106	48, 862	1,994	2, 338, 854
Manitoba		24,017	24, 178	4, 889	_	53,084
Saskatchewan		-	64, 813	-00	_	64,813
Alberta	132	~	-	webs	100	132
British Columbia	3,589	105,793	44,586	-	5, 505	159,473
Yukon	54, 184		_	oth	1,027	55,211
Northwest Territories	-	400,885			-	400,885
Canada	57,905	3,326,958	535, 253	53,751	29, 260	4,003,127

TABLE 6. Gold Production by Provinces and Principal Areas, 1961-63

	1	961	19	62	19	963
Province and area	Troy ounces	Value	Troy ounces	Value	Troy ounces	Value
		\$		\$		\$
Newfoundland	14, 429	511,652	13,966	522, 468	12, 318	465,004
Nova Scotia	_	_	_	_	_	-
New Brunswick	-	-	553	20,688	1, 128	42,582
Quebec:						
Gold mines	832, 237	22,419,124	580.748	21,725,783	517, 366	19, 530, 567
Base metal mines	421.792	14,956,744	412,812	15, 443, 297	399,863	15, 094, 828
Totals	1,054,029	37, 375, 868	993,560	37,169,080	917, 229	34, 625, 395
Ontario:						
Gold mines:						
Porcupine	1,075,161	38, 125, 209 10, 702, 041	1,006,700 249,852	37,660,647	992, 790 259, 952	37, 477, 823
Kirkland Lake	502, 868	18, 469, 979	422, 263	9,346,963 15,796,859	333, 896	9,813,188 12,604,574
Matachewan	111	3, 936	10	374	104	3,926
Sudbury	37, 934	1, 345, 140	35, 735	1, 336, 846	34,627	1,307,169
Thunder Bay	110,081	3,903,472	132, 728	4,965,354	150,052	5,664,463
Patricia	523, 465	18, 562, 069	507,791	18, 996, 461	507,470	19, 156, 993
Other mines	68, 294	2,421,705	66, 170	2,475,420	59,963	2, 263, 603
Totals	2,637,720	93, 553, 551	2,421,249	90, 578, 924	2,338,854	88, 291, 739
Manitoba:						
Gold mines	31,025	1, 100, 147	37, 194	1, 391, 427	24,017	906,642
Other mines	26,722	947, 562	31,065	1, 162, 142	29,067	1,097,279
Totals	57, 747	2,047,709	68, 259	2,553,569	53,084	2,003,921
Saskatchewan:						
Base metal mines	70,784	2,510,000	66, 034	2,470,332	64, 813	2,446,691
Alberta (placer)	171	6,064	186	6,958	132	4,963
	111	0,001	100	0,000	104	1,000
British Columbia:				4 100		
Gold mines (lode)	134, 816	4,780,575	120, 279	4,499,638	105,677	3, 989, 307
Gold mines (placer)	2,464 27,167	88,083 963,342	2,652 36,561	99, 211 1, 367, 747	3,589 50,207	135, 485 1, 895, 314
Totals	164, 467	5, 832, 000	159, 492	5, 986, 596	159, 473	6, 920, 106
Yukon (chiefly placer)	66, 878	2, 371, 494	54, 805	2, 050, 255	55, 211	2,084,215
Northwest Territories:						
Gold mines	407, 474	14, 449, 028	400, 292	14,974,924	400,885	15, 133, 409
Totals, Canada	4, 473, 699	158, 637, 699	4,178,396	156, 313, 794	4, 003, 127	151, 118, 045

TABLE 7. Gold Production of the World, 1959-63

Country	1959	1960	1961	1962	1963
			fine ounces		
North America:					
United States Canada Mexico	1, 635, 000 4, 483, 416 313, 655	1,679,800 4,628,911 300,249	1,566,800 4,473,699 268,678	1,556,000 4,158,133 236,753	1,468,750 3,971,932 237,948
Totals, North America	6, 432, 071	6,608,960	6, 309, 177	5,950,886	5,678,630
Central America and West Indies	224,702	214, 149	227.935	227, 124	210,304
South America:					
Bolivia Brazil ²	35, 246 112, 332	45, 457 118, 891	80, 184 118, 634	35, 052 130, 000	153,033 136,000
British Guiana	3,448	2, 364	1,702	1,903	2.848
Columbia	72, 177	54, 350 433, 947	56, 488 401, 064	62, 500 396, 825	52, 400
Columbia Ecuador	18, 177	15,061	15, 210	20, 591	324,514 21,041
French Guiana	16,100 150,299	18, 936 141, 001	7,944	5, 273	6,993
PeruSurinam	5,819	4, 932	137, 418	122, 985	101, 019 3, 537
Venezuela	53,740	46,867	30,071	28,774	26,946
Totals, South America, as reported	865, 266	881,806	852,734	806, 507	828,331
Europe	500,000	600,000	700,000	700, 000	700,000
Australia:					
New South Wales	13, 275	13,628	12,034	11. 234	11, 395
Queensland Victoria	91,687 34,662	78, 267 28, 566	64,786	67, 729 28, 262	68,586 24,668
Western Australia	860, 969	869, 966	870,658	860,039	802,860
Tasmania Other Australia	21,353	23, 994 72, 288	26,885 75,700	32, 115 69, 458	36,422 80,039
Totals, Australia (Commonwealth)	1,085,104	1,086,709	1,076,292	1,068,837	1, 023, 970
Oceania, other:					
Fiji New Guinea	72,566 46,820	72, 203 45, 151	83,417 41,820	87, 354 39, 052	107, 262 43, 599
New Zealand Totals, Oceania other	37, 662 157, 048	33, 326 150, 680	28, 294 153, 531	21,742 148,148	14, 206 165, 067
					100,000
Asia:	402 200	.00 .00	450 400		
India	165,380 328,186	160, 589 336, 003	156, 538 378, 913	163, 290 420, 957	138, 280 432, 572
Japan Korea, Republic of	65,688	65,810	84,013	107,866	90,086
Malaya Philippines Republic	26,739 402,615	20, 745 410, 618	12, 486 423, 983	6,924 423,394	9, 116 376, 006
Saudi Arabla			1		***
Taiwan (Formosa)	13, 497	17, 207	17,490	24, 029	31,710
Totals, Asia, as reported	1, 002, 105	1,010,972	1, 073, 423	1, 146, 460	1,077,770
Africa:					
Bechuanaland	198	203	261	288	142
Cameroons Congo, Republic of	971 3,665	415 2, 628	538 3,376	775 3,718	1,874 2,951
Congo, Republic of the	351,078	316, 195	233,666	203,707	213,995
Ethiopia Gabon, Republic of	41, 439 16, 172	40, 915 17, 696	41,500 15,304	25, 700 16, 300	25,000 35,719
Ghana	902,595	893, 113	852,619	888, 038	921, 255
Kenya	9, 145 1, 355	8,522 1,119	12, 100 2, 088	9, 327 2, 184	9,070
Liberia Madagascar	193	273	347	325	1,960 900
Nigeria	950	994	676	384	316
Republic of South Africa Southern Rhodesia	20,066,753 566,882	21, 386, 114 562, 703	22, 946, 294 570, 095	25, 491, 993 554, 647	27, 431, 573 566, 277
Southern Rhodesia Tanganyika (export) Uganda	95.794 384	107, 009	99, 574 470	101, 972	102,917
Totals, Africa, as reported	22, 057, 574	23, 338, 679	24, 778, 908	27, 299, 770	16 29, 313, 965
U.S.S.R. ³	10,000,000	11,000,000	11,800,000	12, 200, 000	12,500,000
World totals as reported	42, 323, 870	44, 891, 955	46, 972, 000	49, 547, 732	51, 498, 037

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.

Mined gold only; production of alluvial gold unknown.

Conjectural.

This estimate includes the following countries which also produce gold: Angola, Argentina, Austria, Bulgaria, Burma, Cambodia, China, Caechoslovakia, East Germany, Egypt, Eritrea, Hungary, Indonesia, Mozambique, North Korea, Northern Rhodesia, Papua, Rumania, Sarawak, Sudan and Thailand, from whom definitive figures are not available.

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

TABLE 8. Gold Production according to Method of Computation and Recovery, 1954-63

Year	In alluvial gold	In crude gold bullion produced at mines ¹	In base bullion produced at lead smelters	In blister and anode copper produced ²	In ores, matte, slags, etc., exported	Total gold produced
			fine ounces			
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	83.68	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	12.84	1. 53	4, 571, 347
1959	1.63	84.47	0,21	12.52	1, 17	4, 483, 416
1960	1.75	83.18	0.26	12.82	1.99	4,628,911
1961	1.55	83.08	0.22	13.25	1.90	4, 473, 699
1962	1, 38	82, 73	0.21	13.72	1. 96	4, 178, 396
1983	1.45	82.89	0.28	13, 24	2. 16	4,003,127

 $^{^1}$ 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 9. Estimated Average Monthly Value of an Ounce of Fine Gold, Expressed in Canadian Funds, 1947-63

Month	1947- 48	19491	1950	1951	1952	1953	1954	1955	1958	1957	1958	1959	1960	1961	1962	1963
								dol	ars						,	
January	35.00	35, 00	38. 50	36.81	35. 19	33,97	34.05	33.81	34.95	33,62	34.46	33.84	33.36	34.76	36. 58	37.70
February	35.00	35.00	38. 50	36.73	35.03	34, 20	33.83	34, 19	34. 97	33.54	34.34	34. 12	33.31	34.62	36.71	37.71
March	35.00	35.00	38, 50	36.65	34.85	34.44	33, 98	34, 45	34.95	33.46	34.21	33.93	33. 28	34.56	36.73	37.73
April	35.00	35.00	38.50	37.07	34.34	34.43	34.39	34.52	34.89	33.59	33.97	33. 73	33.70	34.61	36.76	37.69
May	35,00	35,00	38.50	37. 25	34.43	34.79	34.45	34.51	34.71	33.45	33.84	33.70	34.24	34.56	37.87	37.70
June	35, 00	35, 00	38. 50	37. 42	34. 26	34, 80	34.34	34.45	34. 48	33.36	33.67	33. 56	34. 39	35.19	38.06	37.74
July	35.00	35.00	38. 50	37. 12	33, 93	34,72	34, 10	34.46	34.37	33.29	33.60	33. 51	34.24	36.19	37.76	37.79
August	35,00	35.00	38, 50	36.96	33.65	34, 59	33.96	34.48	34.34	33, 18	33,76	33, 41	33.95	36.10	37.72	37, 90
September	35, 00	36.52	38, 50	36.94	33.59	34.45	33, 94	34.57	34, 22	33.56	34. 19	33.31	34.03	36.08	37.69	37.80
October	35,00	38.50	36.86	36.78	33.75	34.39	33,94	34.84	34.07	33,77	33.98	33.17	34.24	36.07	37.66	37. 73
November	35, 00	38.50	36.43	36.53	34.17	34. 22	33,93	34.98	33, 75	33.67	33.89	33. 26	34. 19	36, 26	37.69	37.72
December	35.00	38.50	36, 83	35, 89	33.97	34,06	33,88	34.98	33.62	34.22	33.76	33. 29	34.43	36,49	37.66	37, 78
Yearly averages	35, 00	36, 00	38, 05	36. 85	34, 27	34, 42	34.07	34. 52	34. 45	33.55	33.98	33.57	33, 95	35, 46	37.41	37. 75

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

TABLE 10. Precious Metals Consumed by the Jewellery and Silverware Industry, 1959-63

			Cost at works		
Material	1959	1960	1961	1962	1963
THE SECOND STREET			dollars		
Fine gold	5,324,330	6, 728, 468	6,317,636	6, 175, 687	6, 198, 965
Gold alloys	1,662,361	1,417,360	1, 396, 311	1,610,321	1,928.328
Fine silver	3, 258, 106	3,045,885	3, 133, 995	4, 178, 765	4, 688, 295
Silver alloys and sterling	2,496,816	2,004,301	1,895,944	2, 867, 282	2,852,891
Platinum	2, 549, 125	759.035	668, 224	715, 275	2,563,520
Pailadium	1, 287, 587	494,006	475, 425	702,918	965, 212
Old gold, jewellers' findings, waste and scrap refining	972, 129	1, 453, 611	1, 347, 544	1,770,939	1,806,522
Gold-filled wire and stock	124, 531	150,597	312, 219	270, 028	172, 125
Precious and semi-precious stone	3,630,460	4, 241, 040	3,691,790	3,474,102	3,816,075

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 Year 1963

The Emergency Gold Mining Assistance Act was amended by Chapter 25 of the statutes of 1963. The amending act, which received Royal Assent on December 12, 1963, extended the application of the Act for four years to the end of 1967 without change in the formula for computing the amount of assistance payable.

The amending legislation provides a restriction on the payment of assistance to new lode gold mines commencing production after June 30, 1965. A lode gold mine brought into operation after that date will be eligible for assistance only if the mine provides direct support to an existing gold mining community. A gold mine will be deemed to provide such support if the majority of the persons employed at the mine reside in one or more of a number of gold mining communities which are specified in the Act.

The purpose of the restriction is to prevent the establishment of new gold mining communities which would be dependent upon government assistance from the outset, and which would add to existing social problems.

The restriction will not affect those gold mines which are now in operation with respect to eligibility for assistance payments now or in the future. The restriction will not apply to placer mines.

The date on which the restriction will become effective was set at July 1, 1965 in order that new lode gold mines which are currently under development will have a reasonable opportunity to qualify for assistance.

The amounts paid to operators of gold mines to March 31, 1964, for the years 1948 to 1963 inclusive totalled \$185,895,964.98 on a production of 46,418,762.106 fine ounces of gold produced and sold under the provisions of the Act.

The total assistance which will be payable for gold produced and sold under the Act in 1963 is now estimated to be \$14,970,000. For the year 1963, the actual assistance paid up to March 31, 1964 was \$11,289,004.04. This sum is 90 per cent of the assistance payable on the applications received to that date. The remaining ten per cent is payable when an audit of the books of account of applicants has been completed by the Audit Services Branch of the Office of the Comptroller of the Treasury.

Assistance payments totalling \$14,259,682.88 have been made on gold produced in 1962. Payments of holdbacks will bring the total to approximately \$14.7 million.

The amount of assistance payable to the operator of a gold mlne is computed under the current furmula by adding 25 per cent to the product of the rate of assistance and the number of assistance ounces. The number of assistance ounces is two thirds of the total number of ounces produced in the calendar year. The rate-of-assistance factor is two thirds of the amount by which the average cost of production per ounce of gold for the calendar year exceeds \$26.50. The amount of assistance per ounce increases as the average cost of production per ounce increases from \$26.50. to \$45. A maximum rate of assistance of \$12.33 per ounce specified in the Act has the effect of precluding an increase in the amount of assistance as the average cost of production rises above \$45 per ounce.

For purposes of the 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 for depreciation, preproduction expenses and expenditures on exploration and development as determined in accordance with the Regulations.

Applications for assistance have been received from 41 lode gold mines for the calendar year 1963. In addition, applications from operators of placer gold mines in British Columbia and the Yukon Territory for the year 1963 are expected by June 30, 1964. Twenty-three placer operators applied for assistance for 1962.

Two lode gold mines ceased operations in 1960. One resumed operations after a shaft-deepening program was completed. One became eligible for assistance because the average cost of production rose above \$26.50 per ounce. Two adjoining mines merged to become one operation for purposes of the Act.

Eight lode gold mines operated in 1963 with an average cost of production less than \$26.50 per ounce and consequently were not eligible for assistance.

The annual average of the weekly buying prices in Canadian funds by the Royal Canadian Mint in 1963 was \$37.75 per fine ounce of gold compared with \$37.41 in 1962 and \$35.46 in 1961. The price of gold in Canadian funds is governed by the fixed buying price of \$35 per fine ounce in United States funds by the United States Treasury and the exchange rate between the Canadian and United States dollars. Since May 2, 1962 the value of the Canadian dollar has been set at \$0.925 United States funds. At parity the Mint buying price for gold is \$37.84 per ounce in Canadian funds. The market value of the Canadian dollar may be permitted to fluctuate by one per cent either side of parity. Thus, the Mint buying price in Canadian funds may vary between \$37.46 and \$38.22 per ounce.

Conditions Governing Eligibility for Assistance

A mine, to be classified as a gold mine for purposes of the Act and Regulations, must fulfil the following conditions:

- 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.
- 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.

The operator must also conform to the following requirements to be eligible for assistance payments.

- Application in prescribed form for assistance payments
 for a designated quarter or year must be received by the
 Department of Mines and Technical Surveys within six
 months after the end of the designated period. Advance
 payments may be madefor a calendar year or for quarterly
 periods beginning with the first day of the months of
 January, April, July or October. Schedules I and II are
 to be used in making application for assistance.
- The cost of production per ounce of gold, computed on all ounces of gold produced from the mine during the designated period, must exceed \$26.50.
- Assistance payments are made only for those ounces of gold produced from the mine during the designated period which are:
 - a. sold in the form of bullion to the Royal Canadian Mint by the operator; or
 - b. sold in the form of ore or concentrate to a domestic smelter, provided the smelter operator certifies that a number of ounces equivalent to those paid for by the smelter have been sold to the Royal Canadian Mint as soon as is practicable after the shipment of the ore or concentrate and the separation of the gold therefrom; or
 - c. exported and sold in the form of ore or concentrate to a foreign smelter.
- The operator of a mine applying for assistance for the first time must submit a declaration of ownership of the mine on Schedule III.
- 5. A new mine which is operated by an incorporated company must be declared in production in accordance with Section 83(5) of the Income Tax Act. Status as a new mine may be obtained through application to the Taxation Division, Department of National Revenue, Ottawa.

The Gold Export Act and Disposal of Canadian Gold

The Gold Export Act, passed in 1932, authorized the Governor in Council to make regulations regarding the export of gold from Canada. On March 21, 1956, the regulations, which prohibited the export in any form except under licence issued by the Minister of Finance, were revoked. Thus, since March 1956, producers have been free to sell their gold wherever they wish.

Administration

The Act is administered under the direction of the Assistant Deputy Minister (Mines) by a senior officer of the Mineral Resources Division, Department of Mines and Technical Surveys. Inspection engineers annually visit each mine or operation receiving assistance for the purpose of ascertaining the exploration and development expenditures which will be classified as capital expenditures for inclusion in allowable costs on a deferred basis, and for reporting upon the operations conducted at the mine insofar as they affect the payment of assistance.

Assistance applications are generally submitted at the end of each quarter. If found to be complete and in accordance with the Act and the Regulations, they are approved and an advance payment is forwarded to the operator. The Regulations provide that the advance payment shall not exceed 90 per cent of the allowable assistance payable under the application. When the final audit of the books of account has been completed and the audit deletions and additions have been made, the remaining holdback is approved for payment.

The Department has received the proficient assistance and co-operation of the Audit Services Branch, Office of the Comptroller of the Treasury, in the examination of applications and in the verification of information received by an audit of the books of the operators.

Act and Amendments

 The Act received Royal Assent on May 14, 1948, and came into force by proclamation on June 15, 1948.

- Chapter 20, 13 George VI (second session), received Royal Assent, December 10, 1949.
- Chapter 49, 15 George VI (first session), received Royal Assent, June 30, 1951.
- Chapter 25, 1 Elizabeth II, received Royal Assent, June 18, 1952.
- Chapter 32, 2 Elizabeth II, received Royal Assent, May 14, 1953.
- Chapter 26, 2-3 Elizabeth II, received Royal Assent, March 31, 1954.
- Chapter 19, 3-4 Elizabeth II, received Royal Assent, May 26, 1955.
- Chapter 20, 4-5 Elizabeth II, received Royal Assent, June 26, 1956.
- 9. Chapter 28, 7 Elizabeth II, received Royal Assent, September 6, 1958.
- Chapter 28, 8-9 Elizabeth II, received Royal Assent, July 7, 1960,
- Chapter 25, 12 Elizabeth II, received Royal Assent, December 12, 1963.

Regulations and Amendments

- 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. 2644, June 11, 1948.
- 2. Order in Council, P.C. 1753, April 12, 1950.
- 3. Order in Council, P.C. 3925, July 31, 1951.
- 4. Order in Council, P.C. 1954-379, March 19,1954.
- 5. Order in Council, P.C. 1954-863, June 10, 1954.
- 6. Order in Council, P.C. 1956-11, January 5, 1956.
- 7. Order in Council, P.C. 1960-1162, August 24, 1960.

TABLE 11. Emergency Gold Mining Assistance Act - Estimated Assistance Payable

Province	1956	1957	1958	1959	1960	1961	1962	1963
			1	dol	lars			
Nova Scotia Quebec Ontario Manitoba British Columbia Northwest Territories Yukon Canada	2, 554, 961 4, 569, 086 722, 087 605, 950 14, 013 201, 138 8, 667, 235	2,802,638 5,430,897 712,029 397,774 284,030 52,385 9,679,753	1,085 3,111,036 6,565,596 463,210 658,035 435,520 185,982 11,420,464	3,027,080 7,814,793 217,106 718,641 37,656 186,477	3,025,354 8,713,404 209,027 360,557 54,176 12,362,518	2,917,683 9,105,418 250,232 319,395 73,931 12,666,659	3, 454, 353 10, 139, 650 234, 700 346, 859 169, 528 261, 909 14, 606, 999	3, 198, 240 10, 169, 164 246, 771 580, 763 273, 543 297, 214 14, 765, 695

PLACER GOLD MINES

This portion of the report includes statistics for industry 051 - Placer Gold Mines of the Standard Industrial Classification Manual (Catalogue No. 12-501).

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

In 1963 a total of -57,905 troy ounces of fine gold were recovered from crude gold obtained from Canadian alluvial deposits. This represented a slight increase from the preceding year. Reviewing the past twenty five 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, nil in 1955-1960, 478 ounces in 1961, 117 ounces in 1962 and nil in 1963.

Saskatchewan and Alberta — The small amount of gold, considered as being placer in origin, received at the Royal Canadian Mint, Ottawa, is assumed to have come from along the

North Saskatchewan River. There has been activity in this district, in the vicinity of Edmonton, dating from about 1860.

British Columbia—It has been found impractical to obtain complete reports for each individual placer mining operation in British Columbia inasmuch as a considerable quantity of the crude placer gold is recovered annually by prospectors of no fixed abode who, in many instances, market their recoveries through local merchants and banks. Recoveries in 1963 were made chiefly from deposits located in the Atlin and Cariboo districts. Output was estimated at 3,589 troy ounces.

Yukon-Over 93 per cent of the placer gold recovered in Canada during 1963 was found in the creeks of the Yukon. Production in 1963 totalled 54,184 troy ounces.

Employees in the industry numbered 210 persons to whom \$1,221,942 were paid in wages and salaries. Fuel and electricity cost \$71,513. Electricity generated for own use was 18,665,883 kwh. and the electricity for sale was 7,131,717 kwh. Process supplies were values at \$121,064. Freight and express on shipments amounted to \$27,792 and \$31,269 were paid for treatment and marketing.

TABLE 12. Principal Statistics for Placer Gold Mines, Significant Years, 1921-59

Basis: Standard Industrial Classification prior to 1960

Year	Establish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Process supplies and containers	Gross value of products	Net value of production ¹
	numb	er			dollars		10/10/10
1921 1929 1931 1933 1937 1939 1941 1944 1946 1949 1949 1951	197 68 109 74 109 104 110 47 39 56 47 62 57	428 488 337 454 1.069 830 797 211 340 398 362 351 243 236	671,783 586,193 682,935 704,151 1,689,911 1,439,765 1,954,278 598,556 1,112,984 1,509,423 1,553,103 1,619,460 1,180,225 1,253,362	2, 969 41, 745 35, 165 99, 072 119, 692 155, 518 43, 591 84, 206 88, 614 44, 678 146, 300 55, 472 63, 007	77, 488 90, 610 68, 489 13, 703 46, 870 455, 371 507, 830 253, 128 353, 186 461, 375	1, 576, 222 836, 006 1, 226, 541 1, 218, 250 3, 243, 196 4, 523, 587 4, 132, 503 1, 281, 125 1, 849, 823 3, 572, 516 3, 051, 665 2, 573, 853 3, 049, 743	3.066,63 4,204,97 3,800,14 1.197,02 1.693,56 2.920,29 2.951,34 2.575,03 2.116,716

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

TABLE 12A. Principal Statistics for Placer Gold Mines, 1959-63

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Establish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Process supplies and containers	Gross value of products	Net value of production ¹	
		dollars						
1959 1960 1961 1961 1962	112 32 47 39 30	239 213 243 231 210	1, 194, 713 1, 224, 907 1, 326, 147 1, 340, 953 1, 221, 942	74.536 77.498 108.452 101.676 71,513	355.837 344,379 47,822 13,817 121,064	2, 462, 727 2, 758, 284 2, 465, 811 2, 160, 801 2, 201, 967	1, 989, 431 2, 285, 126 2, 254, 746 1, 989, 696 1, 950, 329	

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

TABLE 13. Alluvial Gold Recovered and Quantity of Material Handled, 1954-63

		British (Columbia				Canada		
Year					Material handled ²	Gold Ounces per cu. yd.		Value per cu. yd.	Gold recovered
	cu. yd.	fine o	unces	\$	cu. yd.	yd. fine ounces			ounces
1954	233.114	7, 105	0.0305	1.0390	6,889,820	82, 208	0.0119	0.4065	89, 57
1955	110,594	6.206	0.0561	1.9365	6, 379, 755	72, 201	0.0113	0.3907	78, 62
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, 300
1958		3,928			6,808,991	67.745	0.0099		
1959		5,814			6,824,062	66,960	0.0098	0.3294	72, 97
1960		2,498			5,519,729	78, 115	0.0141	0.4787	80, 80
1961		2,484			4,672,554	66, 107	0.0141	0.5018	
1962		2,652			5, 163, 113	54, 805	0.0112		
1963		3,589			5, 190, 524	54, 184	0. 1055		57, 90!

¹ In addition, relatively small amounts of alluvial gold have been recovered in Quebec, Saskatchewan and Alberta but complete data are not available; also, data relating to material handled, particularly those pertaining to small operations, are not complete and necessitate estimates in order to obtain totals.

¹ Data partly conjectural and includes some overburden and barren material.

³ Fine gold received at Royal Canadian Mint (Vancouver Assay Office).

TABLE 14. Employees and their Earnings in the Placer Gold Mines, 1958-63

		E	mployee	s¹				Earnings	
Year	Administration		Workmen		Total	Man-hours worked	Admin- istration	Workmen	Total
	Male	Female	Male	Female			istiation		20,000
			number					dollars	
959 960 961 962 962	20 9 18 17 18	5 6 5	211 196 214 204 185	3 5 5	239 213 243 231 210	821, 299 567, 383 646, 618 608, 943 541, 117	114, 224 93, 773 156, 352 148, 485 167, 133	1,080,489 1,131,134 1,169,795 1,192,468 1,054,809	1,194,71 1,224,90 1,326,14 1,340,95 1,221,94

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

TABLE 15. Fuel and Electricity Used by the Placer Gold Mines, 1963

Kind	Quantity	Cost at plant
		\$
uminous coal (a) From Canadian mines	rt ton 22	856
uminous coal (a) From Canadian mines	_	_
b-bituminous coal (from Alberta Mines only)		_
thracite coal	_	-
thracite coal	_	_
ke (for fuel only)	5 500	0 405
soline, (includes gasoline used in cars and trucks)	, gal. 5,398	2,425
rosene Or coal oil	9,842	2, 166
		38, 189
ed (cords of 128 cubic feet piled wood)	. gal. 29.968	16 100
s (a) Liquefied petroleum gases (propane, etc.)	, gal. 25,505	10, 100
od (cords of 128 cubic feet piled wood) c s (a) Liquefied petroleum gases (propane, etc.) Imp (b) Other manufactured gas (c) Natural gas		_
er fuel		_
actricity purchased for nowet and lighting		_
ectricity purchased for power and lighting	-	_
Total		71,513
	10 665 002	
ctricity generated (a) For own use k	wh. 18,665,883 7,131,717	48, 266

GOLD QUARTZ MINES

This report includes statistics for industry 052-Gold Quartz Mines of the Standard Industrial Classification Manual Catalogue No. 12-501).

The gold quartz mining industry shipped, during 1963 inerals valued at \$126,902,669 compared with \$129,495,909 in the preceding year. The total valuation included gold, silver, and other recoverable metals found in the gold ores.

The average number of employees was 15,120 whose eamings amounted to \$63,095,590. Fuel cost \$1,180,941 and 791,566,582 kwh. of electricity were purchased for \$5,552,979. Process supplies, which included explosives, chemicals, drill study, etc., cost \$19,147,272. Electricity generated for own use was 35,279,826 kwh. and amounted for sale was 1,000,000 kwh.

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

TABLE 16. Principal Statistics for the Gold Quartz Mines, Significant Years, 1921-59
Basis: Standard Industrial Classification prior to 1960

Year	Establish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies	Gross value of products	Net value added by processing ¹
	num	bet			dollars		
921 929 931 933 937 939 941 944 949 951 951 957 958 959	59 85 69 216 689 474 357 262 686 247 211 157 147 127	3,889 8,660 9,636 12,823 29,140 30,622 32,551 17,226 21,973 22,358 22,126 18,479 16,911 16,811 16,777	6,072,318 14,258,733 16,467,165 20,536,012 48,219,318 53,206,225 62,150,810 37,023,505 47,211,062 61,293,334 68,739,531 63,578,156 63,708,608 64,208,042 65,519,112	1, 154, 606 2,579, 481 2,700, 326 3, 330, 137 7, 345, 401 7, 952, 580 8, 462, 618 5,895, 117 6,259, 876 7, 307, 153 7,701, 566 6,987, 528 6,771, 886 7, 134, 399 7, 161, 054	16, 230, 722 19, 484, 870 21, 066, 900 11, 174, 746 14, 401, 904 23, 251, 874 26, 677, 361 23, 639, 788 22, 705, 425 18, 013, 121 20, 901, 136	16, 689, 784 37, 275, 986 49, 144, 578 69, 151, 535 122, 676, 103 160, 014, 172 179, 103, 182 94, 263, 416 88, 422, 683 129, 550, 461 136, 703, 452 127, 644, 959 127, 055, 902 133, 998, 004 130, 097, 538	97.961,27 129,633,24 145,978,83 75,234,36 66,342,15 96,580,30 100,059,50 95,627,10 95,991,40,99 107,140,99

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

TABLE 16A. Principal Statistics for the Gold Quartz Mines, 1959 - 63 Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Establish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies	Gross value of products	Net value added by processing ¹
1959 1960 1961 1962	139 146 140 133 122	16,777 16,542 15,876 15,220 15,120	65,519,112 66,552,906 65,465,515 84,578,944 63,095,590	7, 161, 054 7, 216, 027 7, 360, 085 6, 981, 932 8, 733, 920	dollars 20, 901, 136 22, 686, 326 19, 396, 214 18, 495, 257 19, 147, 272	130,097,538 135,349,183 135,033,500 129,495,909 126,392,581	100, 519, 397 103, 748, 507 106, 879, 129 102, 318, 030 98, 749, 130

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

TABLE 17. Principal Statistics for the Gold Quartz Mines, 1962 and 1963

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year and province	Estab- lish- ments ³	Em- ployees	Salaries and wages	Cost of fuel and purchased electricity	Cost of process supplies used ²	Amount of freight etc., paid on ship- ments of ore, slag, etc.	Smelter and refinery treatment costs	Gross value of bullion, ore, concen- trates or residues shipped from mines ^{3,4}	Net value of bullion, ore, concentrates or residues shipped from mines ⁵
	nun	ber				dollars			
1962				1					
Quebec and Nova Scotia Ontario Manitoba and Saskatchewan British Columbia Northwest Territories	62 51 4 8 7	2, 974 10, 819 229 455 735	11,718,206 45,154,453 868,254 2,289,009 4,490,356	1, 373, 290 4, 631, 990 130, 124 196, 151 650, 377	3,510,431 13,423,726 178,471 382,599 1,000,030	97.712 100,000 19.387 35,000	783,704 560,645 5,385 30,293 68,561	19,881,459 88,598,386 1,402,442 4,526,216 15,087,406	14, 116, 322 69, 882, 025 1, 088, 462 3, 897, 786 13, 333, 438
Totals	133	15, 220	64, 578, 944	6, 981, 932	18, 495, 257	252, 099	1,448,588	129, 495, 909	102, 318, 033
1963									
Quebec and Nova Scotia Ontario Manitoba and Saskatchewan British Columbia Northwest Territories	63 42 2 7 8	2,675 11,013 175 481 776	10, 985, 318 44, 735, 186 662, 791 2, 461, 872 4, 250, 423	1, 255, 127 4, 424, 173 99, 545 189, 269 765, 806	2, 975, 549 13, 113, 085 138, 188 608, 275 2, 312, 175	20,705 94,923 1,209 13,768 48,390	774, 258 693, 309 5, 764 25, 047 84, 886	19,622,530 87,094,563 912,189 4,015,271 15,258,116	14,596,891 68,769,073 667,483 3,178,912 12,046,859
Totals	122	15, 120	63, 095, 590	6,733,920	19, 147, 272	178, 995	1,583,264	126, 902, 669	99, 259, 218

TABLE 18. Ores Mined and Treated by the Gold Quartz Mines, 1954 - 63

Year	Ore hoisted	Ore milled ^a	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				troy ounces	
1954 1955 1956 1957 1958 1959 1960 1961 1962	16, 178, 273 16, 404, 660 14, 589, 230 14, 354, 879 14, 751, 991 14, 246, 860 14, 726, 094 14, 353, 022 13, 659, 916 12, 618, 059	15, 560, 138 15, 660, 528 14, 070, 420 13, 894, 311 14, 223, 343 13, 732, 277 14, 167, 243 13, 835, 364 13, 217, 174 12, 130, 935	285, 697 333, 783 276, 130 253, 607 273, 204 347, 203 281, 077 268, 690 230, 946 668, 627	271, 642 221, 077 195, 257 215, 397 175, 069 188, 996 262, 990 270, 098 204, 809 253, 256	634 2, 176 1, 212 465 329 276 332 30 400	3,610,496 3,764,817 3,635,709 3,695,666 3,829,460 3,763,954 3,837,743 3,692,596 3,436,481 3,203,763	44,336 50,516 45,561 43,601 40,516 46,812 49,105 40,145 27,693 87,539	74,808 58,343 23,725 26,712 51,499 40,391 50,364 33,627 25,793 21,267

^{1 + 2 =} Total crude ore treated.

TABLE 19. Ores Mined and Milled, Crude Bullion Recovered and Crude Bullion and Concentrates Shipped, 1963

Number of producing mines	
Ore mined ton 3,657,222 7,968,274 140,179 187,352 667,032 Material discarded (sorted) "39,499 159,652 12,604 68 41,433 Ore milled (ground, etc.) "3,260,653 7,917,111 127,575 187,415 638,181 Tailings re-treated "400 - - - - Gold content of ores, slags, residues and concentrates shipped: To foreign smelters troy ounce -	-58
Material discarded (sorted) " 39,499 159,652 12,604 68 41,433 Ore milled (ground, etc.) " 3,260,653 7,917,111 127,575 187,415 638,181 Tailings re-treated " - 400 Gold content of ores, slags, residues and concentrates shipped: 300 8,883 To Canadian smelters troy ounce 300 8,883 To Canadian smelters or mills " 87,959 11,323 - 341 341 Bullion bars produced: " 428,145 2,253,915 24,017 105,024 392,662 Silver content " 89,895 335,328 4,019 20,001 78,823 Content of bullion bars shipped:	12,618,059
Ore milled (ground, etc.) " 3, 260, 653 7, 917, 111 127, 575 187, 415 638, 181 Tailings re-treated " - 400 300 8, 883 To foreign smelters troy ounce To Canadian smelters or mills " 87, 959 11, 323 - 341 341 Bullion bars produced: " 428, 145 2, 253, 915 24, 017 105, 024 392, 662 Silver content " 89, 895 335, 328 4, 019 20, 001 78, 823 Content of bullion bars shipped:	
Tailings re-treated " - 400	253, 256
Gold content of ores, slags, residues and concentrates shipped: To foreign smelters troy ounce To Canadian smelters or mills "87, 959 11, 323 - 341 - Bullion bars produced: Gold content "428, 145 2, 253, 915 24, 017 105, 024 392, 662 Silver content "89, 895 335, 328 4, 019 20, 001 78, 823 Content of bullion bars shipped:	12, 130, 935
centrates shipped: To foreign smelters troy ounce — — — 300 8,883 To Canadian smelters or mills " 87,959 11,323 — 341 — Bullion bars produced: " 428,145 2,253,915 24,017 105,024 392,662 Gold content " 89,895 335,328 4,019 20,001 78,823 Content of bullion bars shipped:	400
Bullion bars produced: Gold content Sliver content Content of bullion bars shipped: " 428,145 2,253,915 24,017 105,024 392,662 389,895 335,328 4,019 20,001 78,823	9,183 99,623
Content of bullion bars shipped:	3, 203, 763 528, 066
Gold 427, 644 2, 267, 922 24, 017 105, 024 392, 003 Silver 89, 390 325, 617 4, 019 20, 001 78, 684 Gold value \$ 16, 147, 710 85, 666, 077 906, 643 3, 964, 375 14, 808, 784 Silver value \$ 123, 183 449, 099 5, 546 27, 674 116, 860	3, 216, 610 517, 711 121, 493, 589 722, 362
Value of ores, concentrates, slags and residues sold (shipped) \$ 3,351,637 979,387 - 23,222 332,472	4,686,718
Gross value of shipments, etc. \$ 19,622,530 87,094,563 912,189 4,015,271 15,258,116	126, 902, 669
Value of fuel, electricity and process supplies used, also freight on shipments, marketing, smelter and refinery charges \$ 5,025,639 18.325,490 244,706 836,359 3,211,257	27, 643, 451
Net value added by processing \$ 14, 596, 891 68, 769, 073 667, 483 3, 178, 912 12, 046, 859	99, 259, 218

Producing mines; in 1962, 61, in 1963, 58.
Explosives, chemicals, etc.
In 1962; value of bullion shipped, plus value of ore, concentrates, etc. shipped.
In 1963; value of bullion shipped plus value of ore, concentrates, etc. shipped.
Gross value less cost of supplies, fuel and electricity, treatment costs and freight.

TABLE 20. Ores, Concentrates, Slags, etc., Shipped to Smelters and Mills from Canadian Gold Mines, 1954-63

	Or	es	Concer	itrates	Slags, re precipi	
Year	Tons	Gold content- troy ounces	Tons	Gold content- troy ounces	Tons	Gold content- troy ounces
To Canadian plants	282, 331	44, 276			404	8, 647
	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
1959	347, 203	46, 812	1, 398	10, 215	232	8, 993
1960	280, 005	42, 913	1, 353	9, 572	176	8, 561
1961	268, 690	40, 145	55	180	348	11, 309
1962	230, 946	27, 893	100	4, 356	409	11, 91
1963	668, 627	87, 539	5, 210	2, 336	140, 878	9, 748
1500	000, 021	61, 389	3, 210	2, 330	140, 010	5, 120
To foreign plants						
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	20:
1959	_	-	2,668	21, 183	_	_
1960	1,072	6, 192	3, 409	27,662	62	3, 83
1961	_		2,359	16, 220	106	5, 911
1962	_	-	_	-	56	9, 52
1963	_		9	300	53	8, 88

TABLE 21, Shipments from Gold Quartz Mines, 1962 and 1963

			Total gross	metal content	
	Quantity	Gold	Silver	Copper	Other ¹
	tons	ounc	es	pound	is
1962	- H - F - F - F - F - F - F - F - F - F				
To Canadian smelters and mills:					
Gold ore	230, 946	27, 893	221	_	309
Gold concentrates	100	4,356	1,812	1,799	
Slags, precipitates, residues	409	11, 912	11, 669	2, 516	377
To foreign smelters:					
Gold ore		_	_	-	_
Gold concentrates	-	_	entips		-
Slags, precipitates, residues	56	9, 525	2, 215	_	-
Totals	231, 511	53, 686	15, 917	4, 315	686
1963		311			
To Canadian smelters and mills:					
Gold ore	668, 627	87, 539	7,899	-	129
Gold concentrates	5, 210	2, 336	13,884	1,915,022	-
Slags, precipitates, residues	140, 878	9,748	20, 195	5, 249	-
To foreign smelters:	201100-00				
Gold ore		-	_		
Gold concentrates	9	300	- 1	-	
Slags, precipitates, residues	53	8, 883	2, 457	-	-
Totals	814, 777	108, 806	44, 435	1, 920, 271	129

¹ Zinc.

TABLE 22. 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, 1954 - 63

Year	Tonnage treated ^{1,2}	Gold content ³	Silver content	Ounces of fine gold per ton	Ounces of fine silver per ton	Average price of gold	Average price of silver
		fine our	ices			\$ per	oz.
1954 1955 1956 1957 1958 1959 1960 1961 1962	15,842,471 15,997,372 14,349,272 14,147,918 14,490,652 14,079,480 14,448,320 14,104,054 13,448,120 12,799,562	3,729,640 3,873,676 3,704,995 3,766,124 3,921,475 3,851,157 3,937,212 3,766,368 3,490,167 3,312,569	660, 259 652, 589 623, 995 643, 146 707, 794 629, 465 887, 697 643, 931 597, 778 572, 501	. 24 . 24 . 28 . 27 . 27 . 27 . 27 . 27 . 27 . 26 . 26	.04 .04 .04 .05 .05 .04 .06 .05	34. 07 34. 52 34. 45 33. 55 33. 98 33. 57 33. 95 35. 46 37. 41 37. 75	0.832 0.882 0.897 0.874 0.868 0.878 0.889 0.943 1.165

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

Material discarded by sorting not included.

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.

TABLE 23. Milling Capacity of Operating Canadian Gold Mines, 1954-63

Year	Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories	Canada
			tons of 2,	000 pounds per	24 hours		
1954 1955 1956 1957 1958 1959 1960 1961 1962	48	12,650 12,650 12,000 9,530 10,500 10,100 9,650 10,150 10,150	29, 168 29, 423 27, 778 27, 378 27, 29 2 28, 057 28, 035 27, 60 2 27, 386 25, 870	2,550 2,550 2,550 2,550 2,550 550 550 550	1,700 1,525 1,200 1,204 1,264 1,275 1,229 850 850	1,375 1,375 1,500 1,500 1,500 1,650 1,661 1,681 1,691	47, 44; 47, 53; 45, 07; 42, 14; 43, 10; 41, 63; 41, 12; 40, 83; 40, 62; 39, 55

TABLE 24. Employees and Earnings in the Gold Quartz Mines, 1959-63

		Employees				Man-hours		Earnings		
Year		Administrative and office		Workmen		worked Ad		Workmen	Total	
	Male	Female	Male	Female		employees)	office			
			number					dollars		
1959 1960 1961 1961 1962 1963	1,658 1,653 1,702 1,707 1,940	152 153 141 143 155	14,884 14,677 13,966 13,310 12,935	83 59 67 60 90		36, 320, 320 36, 157, 872 34, 342, 805 33, 287, 992 32, 535, 555	9,608,239 9,929,000 10,548,850 10,412,397 11,523,317	55, 710, 873 56, 623, 906 54, 916, 665 54, 166, 547 51, 572, 273	65, 519, 112 66, 552, 906 65, 465, 515 64, 578, 944 63, 095, 590	

TABLE 25. Number of Workmen, by Months in the Gold Mines, 1962 and 1963

	1962	1963							
			Mine	Mil					
Month	Total	Total Surfa		Underground		-	Total		
		Male	Female	Male	Male	Female			
January February March April May June July August September October November December	13, 392 13, 353 13, 300 13, 161 13, 340 13, 621 13, 617 13, 537 13, 311 13, 273 13, 348 13, 084	3, 194 3, 177 3, 156 3, 172 3, 205 3, 321 3, 321 3, 311 3, 136 3, 183 3, 126 3, 060	75 74 74 74 74 78 81 80 76 77	8, 883 8, 798 8, 716 8, 629 8, 587 7, 926 8, 396 8, 258 8, 405 8, 433 8, 470	1, 195 1, 200 1, 198 1, 198 1, 231 1, 265 1, 238 1, 256 1, 198 1, 190 1, 193 1, 193	15 15 14 14 14 15 15 15 14 14	13, 362 13, 298 13, 240 13, 174 13, 153 13, 265 12, 551 13, 058 12, 682 12, 869 12, 843 12, 814		
Averages	13,370	3,194	76	8,528	1,213	14	13,025		
Man-hours worked ,	29, 466, 390						28, 471, 602		

TABLE 26. Fuel and Electricity Used in the Gold Quartz Mines, 1963

Kind	Quantity	Cost at plan
		\$
lituminous coal (a) From Canadian mines		47,964
(b) Imported	4,041	104, 215
1b-bituminous coal (from Alberta mines only)	_	-
nthracite coal	on 410	7,730
ignite coal	_	-
Oke (for fuel only)	-	7
asoline, (includes gasoline used in cars and trucks)	al. 332, 562	145, 465
erosene or coal oil	4,443	1,592
uel oil and diesel fuel	3, 134, 870	618, 669
ood (cords of 128 cubic feet of piled wood)	3, 258	45, 381
as (a) Liquefied petroleum gases (propane, etc.)	al, 14,800	2,708
(b) Other manufactured gas	-	- III
(c) Natural gas	ft. 166, 507	145, 534
ther fuel (shavings, sawdust etc.)	***	61,676
lectricity purchased for power and lighting	749, 829, 536	5,416,822
ectricity purchased for other purposes	41,737,046	136, 157
Total (cost only)		6, 733, 920
ectricity generated (a) For own use	35, 279, 826	
(b) For sale	1,000,000	12.018

TABLE 27. Cost of Prospecting Conducted by Canadian Gold Quartz Mining Companies, 1962 and 1963

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
			dol	lars		
1962						
Newfoundland	619	12,381	-		-	13,000
Nova Scotia	698	3,681	_	_	_	4,379
New Brunswick	6,711	27, 414		_	_	34, 125
Quebec	1,394,596	760,879		3, 224	_	2, 158, 699
Ontario	487,042	1,298,926	8,053	6,054	_	1,800,075
Manitoba	42,068	42,681	34,736		-	119, 485
Saskatchewan	98, 477	57,818	_	_	_	156, 295
Alberta	340	127	_	_	_	467
British Columbia	90,037	173, 179	_	113,800	_	377,016
Yukon	30, 131	34, 689	_	_	106.925	171,745
Northwest Territories	35, 189	33,075	_	M	91,715	159, 979
Totals	2, 185, 908	2, 444, 850	42, 789	123, 078	198, 640	4, 995, 265
1963						
Newfoundland	25, 662	58,963	_	_	_	84, 625
Nova Scotia	746	11,455	_	_		12, 201
New Brunswick	3,039	18, 230	_	_	_	21, 269
Quebec	2, 239, 317	540,768	_	7, 093	_	2, 787, 178
Ontario	64, 222	984, 147	- may	1,082	12,768	1,062,219
Manitoba	_	1,063	_		_	1,063
Saskatchewan	-	2, 222	-	11,601	_	13,823
Alberta		18,850	_			18,850
British Columbia	343	199,096	_	85,784	_	285, 223
Yukon	147	99, 957	-		22, 582	122,686
Northwest Territories	4, 119	56, 072	4 1 - 4 -	10, 399	245, 727	316,317
Totals	2, 337, 595	1, 990, 823	_	115, 959	281,077	4, 725, 454

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

TABLE 28. Drilling Completed on Gold Quartz Deposits, 1961-63

		Footage drilled ¹	
	1961	1962	1963
plamond drilling for exploration (testing):			
By companies with their own equipment and personnel	552, 128	127, 348	397,772
By contractors	1,380,785	2,796,117	1, 232, 784
ther drilling:			
Diamond drilling for breaking rock or ore:			
By companies with their own equipment and personnei	6, 161	27,614	49,34
By contractors	13,619	9, 186	58, 80
Drilling by percussion and other machines ²	36,632,556	35, 157, 376	34, 561, 59

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 diamond in all forms (bits, etc.) purchased by gold mining companies in 1961 totalled \$259,838 and in 1962 \$220,715.

TABLE 29. Specified Taxes Paid by Active Gold Quartz Mines, 1962 and 1963 by Provinces¹

Nature of tax	Nova Scotia and Quebec	Ontario	Manitoba and Saskatchewan	British Columbia	Northwest Territories	Canada
			dol	lars		
1962						
Dominion income tax, including tax on non-operating revenue	315,019	2, 505, 247		-	83,000	2, 903, 266
Provincial tax	318,380	1,888,091	20	812	136,830	2, 344, 133
Municipal tax	267,812	408,675	_	15,788	149,696	841,971
Totals	901,211	4,802,013	20	16,600	369,526	6,089,370
1963	4,07,00				- 10-11	
Dominion income tax, including tax on non-operating revenue	405,012	2,886,932	-	-	_	3, 291, 944
Provincial tax	345,648	1,818,025	_	69,894	163, 282	2,396,849
Municipal tax	299,345	404, 492	ata a	15, 239	158,645	877,721
Totals	1,050,005	5, 109, 449	-	85, 133	321,927	6, 566, 514

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

TABLE 30. Certain Specified Expenditures Made by Gold Quartz Mining Companies, 1963

	1963
	\$
(a) Workmen's compensation	2. 402, 418
(b) Silicosis assessment	1,600,882
(c) Unemployment insurance	588,715
(d) Aggregate cost of structures, roads, machinery, equipment, etc., built by or purchased from outside contractors or suppliers and chargeable to Fixed Assets Account	3, 022, 797
(e) Book value of fixed assets (new structures, roads, machinery, equipment, etc., including major repairs and alteration) produced by own employees and chargeable to Fixed Assets Account	339, 144
(f) Other capital expenditures not reported in (d) and (e)	497,679
Cost of materials and supplies used in the production of machinery and equipment and in the construction of roads and new structures (including major repairs and alterations by own employees and chargeable to Fixed Assets Account)	183,747
(h) Cost of all other goods, materials and supplies (including office, medical, laboratory, cafeteria and store supplies) purchased and not chargeable to Fixed Assets Account	30, 164, 070

COPPER-GOLD-SILVER MINES

This portion of the report includes Statistics for industry 053-Copper-Gold-Silver mines of the Standard Industrial Classification Manual (Catalogue No. 12-501).

During 1963 the gross value of crude ore, concentrates, etc., shipped from the mines and mills in this industry to smelters was estimated at \$229,873,310. Fuel cost \$2,106,226 and 731,780,397 kwh, of electricity was purchased for \$4,903,478. Process supplies, freight and treatment charges amounted to \$72,670,428. Employees numbered 11,524 to whom \$58,514,522 were distributed as salaries and wages. There were 37 producers or shippers in 1963.

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 appear recovered from cres of this type, there is a very large quantity of the metal obtained in the smelting an i 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.

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 31. Principal Statistics of the Copper-Gold-Silver Mines, Significant Years, 1921-59

Basis: Standard Industrial Classification prior to 1960

Year	Establish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Process supplies and containers	Gross value of products ¹	Net value added²
	num	ber			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	4 4
1933	29	2,841	3,938,778	404,625		7,707,270	
1937	38	5, 164	8,240,614	901,088	4,851,845	40,735,801	24,902,851
1939	30	6,083	9,920,591	1,223,523	5,585,616	51, 161, 468	26,182,577
1941	22	5,866	10,695,023	1,264,567	5,505,955	64,829,073	30,220,331
1944	26	5,175	10,710,071	1,402,243	5,170,581	62,389,615	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
1954	116	7,837	29,791,332	3,148,808	10,232,701	105,893,976	70,814,052
1957	261	10,359	45,622,452	4,942,600	15,297,346	119,013,141	68,694,05
1958	244	8,875	39,745,243	4,428,653	15,968,361	133,778,148	77,993,264
1959	310	9,682	43,460,641	4,961,920	12,948,618	147,752,990	90,660,009

¹ Value of cres and concentrates shipped from mines to smelters operated by the same companies are often of a nominal or conjectural nature.
² Gross value less fuel, electricity, process supplies, freight and treatment charges.

TABLE 31 A. Principal Statistics of the Copper-Gold-Silver Mines, 1958-63

Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Establish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Process supplies and containers	Gross value of products ¹	Net value added
	nur	nber			dollars		
1959	310	9,682	43,460,641	4,961,920	12,948,618	147,752,990	90,660,009
1960	277	10,549	48,940,982	6,546,557	17, 969, 123	172,254,034	103,754,616
1961	276	10,901	51,459,158	5,932,106	14,709,403	175,463,232	109,047,866
1962	191	11,046	53,489,185	6,873,189	16,233,410	218,036,064	142,916,627
1963	176	11,536	58, 514, 522	7,009,704	19,881,714	229,873,310	150, 193, 178

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

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

TABLE 32. Shipments from Copper-Gold-Silver Mines, 1962 and 1963

THE REST			Total	metal content	as determined by	y settlement a	assay¹			
	Quantity	Value	Gold	Silver	Copper	Sulphur	Zinc			
	tons	\$	fine ou	nces	1b.	tons	lb.			
1962										
To Canadian plants:										
Ores	652,460	8,793,568	78, 927	170,508	20,466,821		245,866			
Copper concentrates	1, 199, 574	130, 283, 821	365, 434	5,664,306	457, 168, 151		24. 396, 667			
Zinc concentrates	162, 269	12, 136, 972	8, 981	269, 328	2, 813, 611		164, 548, 765			
Iron pyrite concentrates	177,828	746,528	_	_	_	86, 645	_			
Slags and tailings	40, 177	30,904								
Residues, bullion and gold precipitates	6	1, 358, 781	30,572	107,821	658					
Lead concentrates	4, 554	709,735	3, 377	160, 917	351,696	4,549,7892	215, 075			
Dead Concentrates	4,001	100, 100	5,511	100,511	501,000	1,010,100	213,013			
To foreign plants:										
Ores	1, 100	134,750		2,750	440,000		-			
Copper concentrates	229,442	37.412.742	28, 724	188,737	123, 249, 069	604,790	1,728,217			
Zinc concentrates	186, 186	23,989,010	503	5, 199	-	-	198,714,748			
Iron pyrite concentrates	339,480	1, 159, 828	-	-	_	170,569	-			
Precipitates	481	100, 256	-	-	377,212	- 1	-			
Lead concentrates	7,497	1, 179, 169	7,457	413,685	305,881	7,666,6932	-			
Totals	3, 001, 054	218, 036, 064	523, 975	6,983,251	605, 173, 099	1, 207, 264	389, 849, 338			
Value of process supplies, etc.3	***	75, 119, 437			4	* * *				
Net value added		142, 916, 627	4 * *		• • •					
1963										
To Canadian plants:										
Ores	828, 184	10,024,209	85,040	190, 353	21,671,522	_	765, 631			
Copper concentrates	1, 156, 377	139, 722, 174	364,602	5,714,938	453, 426, 234	_	25, 123, 539			
Zinc concentrates	198, 372	18, 990, 230	7,454	252,456	3,045,962		201, 546, 808			
Iron pyrite concentrates	132,897	526,581	_	_		64, 602	_			
Slags and tailings	33,962	25,696	_							
Residues, bullion and gold precipitates	6	1, 308, 509	30, 281	71,089	_					
Lead concentrates	6,701	1.057.637	5, 485	309, 289	161, 417	_	463, 615			
To foreign plants:										
Copper concentrates	248,672	40, 224, 090	42, 895	351,850	137, 094, 402		2, 834, 489			
Zinc concentrates	120, 235	15, 655, 788	829	4,728			130,031,552			
Iron pyrite concentrates	343, 541	1, 145, 404	-	., .20		170,808	_			
Precipitates	549	135, 015			433.742	2,0,000				
Lead concentrates	8, 282	950,618		166, 716	230, 574					
Tailings and other	2,731	107, 359	1917	1001110	500,011	ann.				
			SOE ROE	7 061 410	616,063,853	235,410	360, 765, 634			
Value of process supplies, etc. ³	3,080,509	79, 680, 132	536, 586	7,061,419	010,003,833	233,410	300, 103, 034			
, and of process supplies, etc.	4	10,000,102								
Net value added	***	150, 193, 178		15-5-11						

¹ In addition, cadmium, bismuth, tellurium and selenium are recovered from these ores.
² Lead content.
³ Includes freight on ore shipments, smelter charges, purchased electricity and fuel.

TABLE 33. Ores Mined, Milled, and Concentrates Produced, by the Copper-Gold-Silver Mines, 1954-63

Year	Ore mined	Ore milled	Copper concentrates produced ¹	Zinc concentrates produced	Iron pyrite concentrates produced	Lead concentrates produced
			to	ns		
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	_
1959	12,436,105	11,577,414	1,135,190	231,959	674,450	_
1960	13,973,786	13,316,340	1,266,757	270,705	573,340	2,040
1961	15,008,993	14,411,758	1,259,871	299,806	508,854	6,762
1962	17,744,713	16,980,625	1, 433, 264	343,922	322,636	12,438
1963	19,640,423	18,745,756	1,389,336	317.973	476.899	16,535

¹ Exclusive of copper precipitate.

TABLE 34. Employees and their Earnings in the Copper-Gold-Silver Mines, 1958 - 63

		Employees			Earnings				
Year	Admini	stration	Worl	kmen	Total	Man-hours worked (all employees)	Administration	workmen Workmen	Totai
	Male	Female	Male	Female	10000	employees)	2.44111114061661011		Total
			number					dollars	
1958	1,327	184	7,329	35	8,875	18,958,827	7,723,473	32,021,770	39,745,243
1959	1,339	187	8,116	40	9,682	20,429,780	7,867,882	35,592,759	43,460,641
1960	1,313	219	8,969	48	10,549	22,541,084	8,512,429	40,428,553	48,940,982
1961	1,482	209	9,160	50	10,901	22,564,843	9,143,395	42,315,763	51,459,158
1962	1,550	206	9,239	51	11,046	22,849,287	9,798,255	43,690,930	53,489,185
1963	1,789	223	9,453	59	11,524	23,874,213	12,369,536	48,144,986	58,514,522

TABLE 35. Number of Workmen, hy Months, 1962 and 1963

	1962			196	3			
Year			Mine		Mill			
Teat	Total	Surfa	ce	Underground	Mala	Female	Total	
		Male	Female	Male	Male			
January	8,797	3, 117	62	4,895	1,271	5	9, 287	
February	8,800	3, 085	64	4,908	1.266	6	9, 263	
March	8,743	3, 110	62	4,803	1,177	5	9,094	
April	8,974	3, 110	62	4,808	1, 169	5	9,091	
May	9,362	3,272	64	4,854	1,238	6	9,368	
June	9,539	3, 402	67	4,897	1, 286	7	9, 591	
July	9,764	3,549	73	5,002	1,345	7	9,900	
August	9,812	3,480	70	5,037	1,345	7	9,866	
September	9, 494	3,333	69	4, 971	1,304	- 6	9,612	
October	9,410	3,255	65	5,019	1,292	5	9,570	
November	9, 383	3,167	65	5,076	1,289	5	9,536	
December	9, 221	3, 143	65	4, 898	1, 269	5	9,314	
Averages	9, 290	3, 252	66	4, 930	1,271	5	9, 524	
Man-hours worked	19, 247, 764						19, 504, 221	

TABLE 36. Fuel and Electricity Used in the Copper-Gold-Silver Mines, 1962-63

Kind		19	62	1	963
MIM		Quantity	Cost at plant	Quantity	Cost at plant
			\$		\$
Bituminous coal (a) From Canadian mines (b) Imported.		974 812	15, 215 15, 452	271 880	4,877 15,187
Sub-bituminous coal (from Alberta mines only)	. "	48	687	_	-
Anthracite coal			-	34	497
Lignite coal		-	-	-	
Coke for fuel only	. short ton	44	1,058	337	8,283
Gasoline, (includes gasoline used in cars and trucks)	Imp. gal.	622,773	246, 637	592,632	229, 763
Kerosene or coal oil	. >4	6,469	2, 069	4, 431	1,523
Fuel oll		7, 268, 337	1,354,770	8,701,617	1,734,217
Wood (cords of 128 cubic feet of piled wood)	. cord	2	16	2,034	16, 198
Gas (a) Liquefied petroleum gases (propane, etc.)	. Imp. gal.	89,524	23,501	90, 441	43, 194
(b) Other manufactured gas		55, 442	22,613	39,601	16, 166
Other fuel			51,330	-	36, 321
Electricity purchased for motors and lighting	. kwh.	741, 862, 495	5,088,266	731, 780, 397	4, 903, 478
Electricity purchased for other purposes			-	-	_
Steam purchased	. pound	63,475,350	51,575	-	-
Totals			6, 873, 189	-	7,009,704
Electricity generated (a) For own use (b) For sale		90, 588, 610 798, 400	88,516	117, 140, 653	

TABLE 37. Specified Expenditures by the Copper-Gold-Silver Mines, 1963

	1963
) Workmen's compensation	1, 485, 298
) Silicosis assessment	178,018
) Unemployment insurance	506,764
) Aggregate cost of structures, roads, machinery, equipment, etc., built by or purchased from outside contractors or suppliers and chargeable to Fixed Assets Account	10, 036, 222
) Book value of fixed assets (new structures, roads, machinery, equipment, etc., including major repairs and alterations) produced by own employees and chargeable to Fixed Assets Account	6, 388, 952
Other capital expenditures not reported in (d) and (e)	1,067,006
) Cost of materials and supplies used in the production of machinery and equipment and in the construction of roads and new structures (including major repairs and alterations by own employees and chargeable to Fixed	
Assets Account)	2,569,833
) Cost of all other goods, materials and supplies (including office, medical, laboratory, cafeteria and store supplies) purchased and not chargeable to Fixed Assets Account	27, 403, 818

TABLE 38. Taxes Paid by the Copper-Gold-Silver Mines, 1961-63

	1961	1962	1963
		dollars	
Dominion income tax, including tax on non-operating revenue	11, 313, 497	8, 285, 599	11, 142, 431
Provincial tax	6,896,685	4, 963, 540	6,898,333
Municipal tax	1,876,876	1,973,590	2, 282, 185
Grand total taxes paid	20, 087, 058	15, 222, 729	20, 322, 949

TABLE 39. Cost of Prospecting1 Conducted by the Copper-Gold-Silver Mines, by Provinces, 1962 and 1963

Conducted in	1962	1963	Conducted in	1962	1963
	do	llars		dol	lars
Newfoundland	499,436	88,601	Saskatchewan	209,081	665,983
Nova Scotia	77, 152	117, 184	Alberta	1-1-	55, 892
New Brunswick	361,098	328,520	British Columbia	2,957,805	4, 442, 302
Quebec	5,055,025	7,925,089	Yukon	482,685	506,705
Ontario	1,694,626	1,747,319	Northwest Territories	330,956	198, 092
Manitoba	1,685,544	1,502,709	Totals	13, 353, 408	17, 578, 396

¹ Includes some development work.

TABLE 40. Drilling Completed on Copper-Gold-Silver Deposits, 1962 and 1963

	Footage drilled		
	1962	1963	
iamond drilling for exploration (testing only):			
By mining companies with their own personnel and equipment	81,950	114,027	
By diamond drilling contractors	1,556,929	1,100,688	
Other diamond drilling:			
Biast hold diamond drilling:			
By mining companies with their own personnel and equipment	798,797	676,368	
By diamond drilling contractors	185,076	5, 874	
Orilling by percussion or other machines ¹	24, 234, 785	25,017,465	

Not complete as these data are not recorded by some operators.
Note: Value of diamonds in all form (stones, bits, etc.) purchased during the year, \$98,790.

TABLE 41, Copper Production (Recoverable) according to Nature of Ore, and by Provinces, 1961-63

Province	From copper- gold-silver ores	From nickel- copper ores	From other ores	Total
1961				
Newfoundland	12, 585	_	3,167	15,752
Nova Scotia	-	-	-	
New Brunswick		-	_	-
Quebec	145, 583		3,424	149,007
Ontario	34, 269	172,506	4,872	211,647
Manitoba	5,981	6,473	_	12,454
Saskatchewan	33, 479	_	-	33,479
British Columbla	13,485	737	1,624	15,846
Yukon	440	_	_	440
Northwest Territories	-	463	-	463
Canada	245, 822	180, 179	13,087	439,088

TABLE 41. Copper Production (Recoverable) according to Nature of Ore, and by Province, 1961-63 - Concluded

Province	From copper- gold-silver ores	From nickel- copper ores	From other ores	Total
		tons	3	
1962				
Newfoundland	14,331	-	2,977	17,308
Nova Scotia	-	-	204	204
New Brunswick		-	-	3,674
Quebec	144,568	87	2,776	147, 431
Ontario	42,270	139,629	7,096	188,995
Manitoba	5,033	7,705	-	12,738
Saskatchewan	32,017	-	-	32,017
British Columbia	53,342	768	380	54, 490
Yukon	214	_		214
Northwest Territories		314	-	314
Canada	295, 449	148, 503	13, 433	457, 385
1963				
Newfoundland	11,004	-	3,008	14, 012
Nova Scotia		_	237	237
New Brunswick			_	8,964
Quebec		129	3,356	141, 400
Ontario	44, 973	123, 483	10,504	178, 960
Manitoba	7, 530	9, 450	-	16, 980
Saskatchewan		-	-	29, 772
British Columbia		871	244	62, 218
Yukon		-		-
Northwest Territories	16	-	- 1	16
Canada	301,277	133,933	17, 349	452,559

TABLE 42. Production of Refined Copper, 1 1954-63

Year	Short tons	Year	Short tons
1954	253,365	1959	365,366
1955	288,997	1960	417,029
956	328,458	1961	406,359
957	323,540	1962	362,868
1958	329,239	1963	380,075

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

TABLE 43. Silver Production (Recoverable) according to Nature of Ore, by Provinces. 1963

Province	Crude placer gold	Auriferous quartz ores	Copper- gold-silver ores	Nickel- copper ores	Silver- lead-zinc ores	Silver- cobalt and other ores	Total
				troy ounces			
Newfoundland	-	-	-	_	981, 005	_	981, 005
Nova Scotia	_	-	-	-	423, 189	-	423, 189
New Brunswick	1 - 1		73,560	-	258,912	-	332, 472
Quebec	-	112,720	2, 785, 226	-	1, 543, 698	_	4,441.644
Ontario	_	344, 867	2,466,603	1, 320, 777	415, 840	5,053,534	9,601,621
Manitoba	-	4,019	685, 798	77, 159	_	-	766, 976
Saskatchewan	-		746, 683	-	_		746, 683
Alberta	12	-	_		_	_	12
British Columbia	651	20,078	313,582	-	6, 116, 847	_	6, 451, 158
Yukon	10,936	-	-	-	6, 095, 101	_	6, 106, 037
Northwest Territories	-	81,141	-	-	-	65	81, 206
Canada	11, 599	562, 825	7, 071, 452	1, 397, 936	15, 834, 592	5, 053, 599	29, 932, 003

TABLE 44. Selenium and Tellurium Recoverable from Canadian Ores, 1954-63

Year	From copper-gold-silver ores		From nickel-	copper ores	Total	
2000	Selenlum	Tellurium	Selenium	Tellurium	Selenium	Tellurium
ria de la companya del companya de la companya del companya de la	pounds					
1954	228,703	976	94,826	7. 195	323,529	8,17
1955	332,644	2,559	94, 465	6,455	427,109	9,01
1956	221,233	1,562	109,156	6, 305	330,389	7,86
1957	234, 933	24, 609	86, 459	6,915	321,392	31,52
1958	216,695	31,558	90, 295	6, 692	306, 990	38,25
1959	266,707	6,123	101,400	6,900	368,107	13,02
960	377, 138	37,232	144,500	7.450	521,638	44, 68
961	265,812	69,559	164, 800	8,050	430,612	77,60
962	344, 151	51,714	142, 915	7,011	487,066	58, 72
963	373,672	69,137	95, 100	7, 705	468,772	76,84

TABLE 45. Zinc Production (Recoverable) according to Nature of Ore, and by Provinces, 1962 and 1963

copper-gold-silver ores	Recoverable from silver-lead-zinc and other ores	Total
	tons (2,000 pounds)	
2, 498 26, 514 45, 039 49, 920 30, 900 3, 291	32,541 757 44,223 18,093 — 203,425 5,944 304,983	32, 541 757 2, 498 70, 737 63, 132 49, 920 30, 906 206, 716 5, 944
_	34, 465	34,485
10, 614 32, 566 55, 198 46, 392 33, 320 3, 807	42,518 11,272 — 197,625 5,925	10, 614 75, 084 66, 470 46, 392 33, 320 201, 432 5, 925
	2, 498 26, 514 45, 039 49, 920 30, 900 3, 291 158, 162	tons (2,000 pounds) - 32,541 - 757 - 2,498 - 26,514 - 44,223 - 45,039 - 49,920 - 30,900 - 3,291 - 5,944 - 56,364 - 34,465 34,465 34,465 32,566 - 55,198 - 11,272 - 46,392 - 33,320 - 3,807 - 197,625 - 5,925

TABLE 46. Refined Zinc Produced, from all Sources, 1954-63

Year	Short tons	Year	Short tons
954 955 956 957 958	253.365 256.542 255.564 247,318 252,093	1959 1960 1961 1961 1962 1963	255,306 260,968 268,007 280,159 284,020

TABLE 47. Cadmium Production (Recoverable) from Canadian Ores, 1954-63

Year	From copper- gold-silver ores	From silver- lead-zinc ores	Total	Year	From copper- gold-silver ores	From silver- lead-zinc ores	Total
		pounds				pounds	
1954	154, 596	932, 184	1,086,780	1959	334,029	1,826,334	2, 160, 36
955	191,691	1,727,390	1,919,081	1960	466, 200	1,891,297	2, 357, 49
956	208,327	2,131,094	2,339,421	1961	307,757	1,914,193	2, 221, 95
957	286,044	2, 082, 086	2,368,130-	1 962	405, 317	2,199,656	2, 604, 97
958	355,602	1,400,448	1,756,050	1963	389, 185	2,086,300	2,475,48

TABLE 48. Average Annual Metal Prices in Canadian Dollars, 1954-63

	Year	Gold	Silver	Copper	Lead	Zinc
	I C as	Per troy ounce	Per troy ounce	Per pound	Per pound	Per pound
				dollars		
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
1959		33.57	0.8778	0.2961	0. 1061	0,1224
1960		33.95	0.8891	0.3029	0, 1068	0.1335
1961	***************************************	35, 46	0.9426	0,2919	0.1021	0.1259
1962		37.41	1, 165	0.3100	0.0992	0, 1210
1963	***************************************	37,75	1, 384	0.3150	0, 1100	0, 1278

TABLE 49. World Copper Production by Countries of Origin of Ore1

Country	1959	1960	1961	1962	1 963		
	tons (2,000 pounds)						
Inited States	840,000 }	1.092.500	1,159,556	1,223,978	1.208.19		
lexico	63,133	66,502	54.359	51,945	61,57		
anada	395,269	439, 262	439,088	465, 446	461, 82		
uba,	9, 942	13,058	5,500	6,100	6,60		
laiti	0,012	1,000	3,832	6,738	6,55		
icaragua	1,001	5,398	6,919	8,016	8,02		
olivia²	2,460	2,503	2, 292	2, 646	3,30		
razil	1,200	1,200	1, 900	1.800	1,70		
hile	600,571	586, 643	603,424	646.064	662,12		
0f3	55,871	200, 311	218, 313	183,853	195.60		
Totals, America	1,969,447	2,408,377	2, 495, 183	2,596,586	2, 615, 51		
TOTALS, AMECICA	1,505,441	2,400,311	2,453,103	2,380,360	4,010,31		
lustria	2,726	2,188	2,105	2, 186	2,07		
inland	33,132	31,580	35,745	37,657	36,77		
rance	672	772	551	441	4		
ermany, Federal Republic	2,256	2,454	2,389	2, 202	2, 5		
aly	665	561	691	973	1,10		
orway	15,828	16, 965	15,379	17, 124	15, 73		
ortugal	2,500	3,767	3,351	3,742	3,8		
pain ^s	12, 137	8,786	20,029	20,580	26, 2'		
weden	18,838	18,396	18,629	21,034	21,00		
ugoslavia	38, 141	36,681	41,787	57,008	68,4		
Totals, Europe	126, 895	122, 150	140,656	162, 947	178, 15		
apan	93, 969	98,036	106, 272	114,198	118,18		
ndia ,	8,459	9,822	9,190	10,914	11,00		
srael	4,723	6,143	6,969	5,768	6, 0		
orea, Republic of	529	649	584	473	5		
urkey	27,385	28, 928	20,525	28, 127	32,1		
Philippines	54,587	48,512	57,182	60, 327	70, 2		
yprus³	39,978	39, 096	31,585	27, 735	29,00		
Totals, Asia	229,630	229,186	232, 307	247.542	267,2		
longo, Republic of the	310,952	332,900	325, 440	322,974	297.53		
thodesia	12,016	15, 128	14,979	15, 148	18, 4		
outh West Africa	31,695	21,692	23,377	25,873	30,7		
ganda	13,362	16, 265	14.720	17,173	18,8		
outh Africa, Republic of	53, 575	52,041	55, 464	50, 396	59, 4		
ambia	598, 834	635,326	633, 534	619,856	648, 2		
Totals, Africa	1.020.434	1,073,352	1,067,514	1,051,418	1,072,20		
ustralia	101, 102	117.741	96,823	118, 646	119,4		
J.S.S.R.4	485,000	507,000	523,600	550.000	600.0		
Ru loaria*	11,000	12,100	13, 200	14, 200	18,0		
Bulgaria*	20,800	27,500	27,500	27,500	30,0		
oland4	9,900	11.600	12,900	15,100	14,6		
hina*	44,000	44,000	50,000	50,000	60,0		
Totals, Soviet Sphere	570, 700	602,200	627, 200	656.600	722.6		
World totals, as reported	4,018,208	4,553,006	4, 659, 683	4, 833, 739	4, 975, 2		

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

Exports.

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

Conjectural.

In addition there is production in Ecuador, Burma, Taiwan, Algeria, Angola, Kenya and Morocco; the total of all these countries is estimated to be about 6,000 tons in 1963.

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

TRANSACTIONS IN GOLD BULLION AT THE ROYAL CANADIAN MINT

(From the Annual Report of the Royal Canadian Mint)

Five thousand four handred and twenty-one deposits of gold bullion were received during the year from Canadian Mining Companies and Sundry Persons. The composition of the deposits was as follows:

Fine Gold -

256 deposits weighing 256,727.564 ounces with a mean fineness of 997.187

Crude Bullion -

3.684 deposits weighing 2,978,889.969 ounces with an average fineness of 802.945 gold, 126.545 silver, and containing 7.051% base metal

Scrap (Jewellery and Dental)

188 deposits, 11,393.830 ounces of an average fineness of 464.560 gold and 89.749 silver

Gold for Storage -

1,293 deposits weighing 1,084,241.010 ounces with an average fineness of 751.849 gold and 135.881 silver

The net value paid is depositors was \$100,054,664.30. In addition the amount of line gold issued to depositors was 815,032.270 ounces.

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

Ounces fine

6,621 Trade bars transferred to Exchange Fund	
Account of Minister of Finance	2,644,703.576
Depositors - granulated and bars	815,032.270
Sales of fine gold	19.264
Trial Plate for assay purposes	6.170
Medals, etc.	15.442
Sweep	

3,467,554.159

This total shows a decrease of 52,851.439 ounces fine issued as compared with the year 1962.

Comparative Statement Showing Details of Gold Deposits Received for 1962 and 1963

	Number of deposits received				Gross ounces			
	1962	1963	Increase	Decrease	1962	1963	Increase	Decrease
Sale to Her Majesty	3,525	3,940	415	_	2,875,031	3, 224, 340	349, 309	-
For storage	1,708	1,293	-	415	1,477,010	1,084,241	-	392,769
Jewellery and misceilaneous	209	188	-	21	11,931	11,394	-	537
Total received	5, 442	5, 421	-	21	4, 363, 972	4, 319, 975	-	43,997
		Fine gold	ounces		Fine silver ounces			
	1962	1963	Increase	Decrease	1962	1963	Increase	Decrease
Sale to Her Majesty	2,338,971	2,647,890	308, 919	_	54 1, 433	525,314		16, 119
For storage	1, 144, 396	803,909	_	340, 487	_	-	-	-
Jewellery and miscellaneous	5,607	5, 293	-	314	-	-	_	-
Total received	3, 488, 974	3, 457, 092	_	31,882	541, 433	525, 314	_	16, 119

Details of origin of the bullion deposited for sale to Her Majesty and for storing during the year 1963 are shown in the following table:

From Canadian mines	Sale to H	er Majesty	Gold ste	orage	To	Total fine	
and refineries	Gross weight	Fine gold	Gross weight	Fine gold	Gross weight	Fine gold	silver
				ounces			
Ontario Quebec British Columbia Manitoba Yukon Territory North West Territories	2, 264, 735, 530 663, 076, 160 138, 852, 760 33, 821, 350 68, 057, 980 55, 639, 000 157, 740	1,876,520.300 523,079.415 112,404.913 24,250.886 54,878.656 45,346.995 131.571	502,141.090 60,578.390 10,035.150 - 511,486.380	431,775,175 13,847,728 9,535,666 360,027,213	2,766,876.620 723,654.550 148,887.910 33,821.350 68,057.980 567,125.380 157.740	2, 308, 295, 475 536, 927, 143 121, 940, 579 24, 250, 886 54, 878, 656 405, 374, 208 131, 571	262,907-24 143,701-01 21,037-68 4,054-57 11,104-24 81,474-59 11-99
Total from Canadian mines and refineries	3. 224, 340. 520	2,636,612.736	1,084,241.010	815, 185. 782	4, 308, 581, 530	3, 451, 798. 518	524, 291, 32
From jewellery and miscellaneous	11, 393, 830	5, 293. 121	_	_	11, 393, 830	5, 293, 121	1, 022, 59
Totals	3, 235, 734, 350	2, 641, 905, 857	1, 084, 241. 010	815, 185, 782	4, 319, 975. 360	3, 457, 091, 639	525, 313, 91
Fine gold released by mines from gold storage for sale to Her Majesty	_	11,277.013	_	11,277.013	ana	-	
Totals	3, 235, 734, 350	2, 653, 182. 870	1, 084, 241, 010	803, 908. 769	4, 319, 975. 360	3, 457, 091, 639	525, 313. 9

The following table gives details of fine bullion produced during the year:

Produced	Number	Gross weight	Fine weight	Average assay
		our	ices	
Fine Cald Base	0 000	2 681 015 400	0 075 400 000	000.0
Fine Gold Bars	6, 698	2,681,915,400		997. 6
Granulated Gold	_	1,959.190		999.9
Fine Silver Bars	468	513, 355. 75	513, 247. 62	999.8
Granulated Silver	-	4,902.65	4, 901, 57	999.8
Gold Trial Plate	-	_	6.170	-
Finishing and Plating Medals	_	-	. 272	_
Storage-Gold Bars	1,733	693, 545. 378	691, 836. 678	997.5
Granulated Gold	_	75, 247, 110	75, 239, 145	999.9
Special Bars-Gold	3	_	15. 679	_
Special Bars-Silver	4	_	133. 70	_
Sweeps Sold-Gold	-	_	7,777.437	_
Sweeps Soid-Silver		_	44, 514. 98	-

Special processes	Number	Gross weight
		ounces
lemelts	160	88,095.730
oughenings	6	2, 104, 560
		Pounds Avoirdupois
Chioride reduction	-	75, 700.0
weeps		86, 485. 0

GOLD STORAGE

During the year nine mines deposited gold bullion at the Mint 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 storage.

The fine gold content of the bullion deposited under this heading during 1963 amounted to 803,908.769 ounces. Fine bullion amounting to 811,774.023 ounces was issued on behalf of the mines for export and to various processors for domestic use.

Summary of Transactions in Gold Bullion of the Ottawa Branch of the Royal Mint from its Opening on January 2, 1908, to its Disestablishment on November 30, 1931, and of the Royal Canadian Mint from December 1, 1931, to December 31, 1963

	Gold received		Gold issued	
Gross weight	Fine gold	Coin	Bullion	
our	ices	ounce	es fine	
136, 498, 602, 205	110,017,596.568	383, 319, 096	109, 430, 839, 886	
4,768,451.365	3, 829, 430, 609		3, 998, 835, 566	
	3, 947, 636, 509	-	3, 952, 764, 485	
4,693,484.529	3, 801, 788, 815	_	3, 774, 599, 457	
4, 798, 296, 343	3, 896, 083, 563	_	3, 776, 710, 677	
4, 868, 066, 405	3, 958, 458. 747		4,088,706.348	
	3, 908, 640, 185	-	3, 836, 679, 842	
	4, 024, 625, 964		4,014,771.105	
	3,800,137,419	_	3, 812, 054, 286	
	3, 488, 974, 332	_	3,520,405.598	
	3, 457, 091, 639	-	3, 467, 554, 159	
183, 711, 625. 876	148, 130, 464. 350	383, 319. 096	147, 673, 921, 409	
	oun 136, 498, 602, 205 4, 768, 451, 365 4, 878, 918, 379 4, 693, 484, 529 4, 798, 296, 343 4, 868, 066, 405 4, 805, 493, 520 4, 970, 726, 079 4, 745, 639, 352 4, 363, 972, 339 4, 319, 975, 360	ounces 136, 498, 602, 205 110, 017, 596, 568 4, 768, 451, 365 3, 829, 430, 609 4, 878, 918, 379 3, 947, 636, 509 4, 693, 484, 529 3, 801, 788, 815 4, 798, 296, 343 3, 896, 083, 563 4, 868, 066, 405 3, 958, 458, 747 4, 805, 493, 520 3, 908, 640, 185 4, 970, 726, 079 4, 024, 625, 964 4, 745, 639, 352 3, 800, 137, 419 4, 363, 972, 339 3, 488, 974, 332	ounces ounces ounces ounces ounces ounces 136, 498, 602, 205 110, 017, 596, 568 383, 319, 096 4, 768, 451, 365 3, 829, 430, 609 4, 878, 918, 379 3, 947, 636, 509 4, 693, 484, 529 3, 801, 788, 815 4, 798, 296, 343 3, 896, 083, 563 4, 868, 066, 405 3, 958, 458, 747 4, 805, 493, 520 3, 908, 640, 185 4, 970, 726, 079 4, 024, 625, 964 4, 745, 639, 352 3, 800, 137, 419 4, 363, 972, 339 3, 488, 974, 332 4, 319, 975, 360 3, 457, 091, 639	

CURRENCY, MINT AND EXCHANGE FUND ACT

Gold Bullion Regulations, 1959

AT THE GOVERNMENT HOUSE AT OTTAWA

P.C. 1959 - 100

Thursday, the 29th day of January, 1959.

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 the Gold Bullion Regulations made by Order in Council P.C. 1954-1584 of 19th October, 1954, and the Mint Custom Refining and Storing Regulations made by Order In Council P.C. 1956-450 of 22nd March, 1956, and to make the annexed Regulations Respecting the Handling of Gold Bullion at the Royal Canadian Mint in Substitution therefor.

REGULATIONS RESPECTING THE HANDLING OF GOLD BULLION AT THE ROYAL CANADIAN MINT

Short Title

1. These Regulations may be cited as the Gold Bullion Regulations, 1959.

Interpretation

- 2. In these Regulations,
 - (a) "deposit" means a parcel of bullion or other material containing gold;
 - (b) "Master" means the Master of the Mint;
 - (c) "Minister" means the Minister of Finance; and
 - (d) "Mint" means the Royal Canadian Mint.

Deposits

- 3. (1) The Master may accept for assaying, refining, storing or any other purpose, a deposit that is delivered free of all charges to the Mint if the deposit contains
 - (a) newly mined Canadian gold,
 - (b) old jewellery or dental scrap that has not been melted or otherwise treated to prevent its origin being readily recognized,
 - (c) scrap resulting from processes carried out hy manufacturers and refiners in the ordinary course of their business, or
 - (d) gold coin that is not legal tender in Canada.
 - (2) The Master shall not accept
 - (a) a deposit of a kind not described in subsection (1) unless he is authorized to do so by the Minister,
 - (b) an ingot exceeding one thousand and two hundred ounces troy, gross weight, or
 - (c) a deposit that appears to him to be unsultable for treatment by the refining processes in use at the
- (3) The Master is not obliged to accept any deposit and before accepting a deposit he may require the depositor to furnish evidence satisfactory to him as to the origin of the deposit.
- 4. (1) Where a deposit is delivered to the Mint for the purpose of selling the gold content thereof to Her Majesty, the Minister may, on behalf of Her Majesty, buy the gold content of that deposit.
- ¹ SOR/54-181, CANADA GAZETTE PART II, Vol. 88, No. 21, Nov. 10, 1954, p. 1430 and Statutory Orders and Regulations Consolidation 1955, Vol. 1, p. 683.

 ² SOR/58-117, CANADA GAZETTE PART II, Vol. 90, No. 7, April 11, 1656
- April 11, 1956.

- (2) It is a condition under which a deposit is accepted at the Mint that the silver content thereof belongs to Her Majesty, subject to payment by the Minister in accordance with these Regulations for that part of the silver content of the deposit that is in excess of one per cent of the weight of the deposit after melting.
- 5. (1) Each parcel of bullion for which a separate assay is required shall be regarded as a separate deposit and all deposits accepted by the Master shall be valued in the order in which they are received.
- (2) As soon as possible after a deposit has been accepted by the Master, the content of the deposit shall be determined and valued on the report of the Assay Division of the Mint.
- (3) Gold shall be reported on the Assay Division Report to the one-four-thousandth part (one-quarter millieme), except that when the gold millesimal fineness of the buillon exceeds nine hundred and ninety, the gold shall be reported to the oneten-thousandth part (one-tenth millieme), and silver shall be reported to the one-thousandth part (1 millieme), but only that part of the silver content of the deposit that is in excess of one per cent of the weight of the deposit after melting shall be reported.
- (4) Where it is determined that a deposit contains less than two hundred parts of gold in one thousand by assay, or that a deposit is unsuitable for treatment by the refining process in use at the Mint, the Master shall, upon payment by the depositor of the Mint charges for melting and assaying, deliver the deposit at the Mint counter to the depositor.
- (5) On the completion of the valuation of a deposit the Master shall, unless the deposit is to be returned to the depositor in accordance with subsection (4), furnish the depositor with a memorandum in duplicate of the outturn of his deposit.
- (6) The memorandum mentioned in subsection (5) shall state
 - (a) the weight of the deposit before and after melting,
 - (b) the assay report,
 - (c) the fine gold and the fine silver content of the deposit.
 - (d) the gross value of the fine content at the price applicable to the deposit calculated in accordance with sections 6 and 7,
 - (e) the Mint charges applicable to the deposit,
 - (f) where the deposit was delivered to the Mint for the purpose of selling the gold content thereof to Her Majesty, the net value of the fine gold and fine silver contents of the deposit, being the gross value minus the Mint charges, and
 - (g) where the deposit was delivered to the Mint for a purpose other than that of selling the gold content thereof to Her Majesty, the net value of the fine silver content of the deposit, being the gross value thereof minus the Mint charges.
- (7) Where a deposit was delivered to the Mint for the purpose of selling the gold content thereof to Her Majesty, the Minister shall, at the same time as the memorandum mentloned in subsection (5) is furnished to the depositor, pay to the depositor as the full purchase price of the fine gold and fine silver contents of the deposit an amount equal to the net value of the fine contents of the deposit as stated in the memorandum.

- (8) Where a deposit was delivered to the Mint for a purpose other than that of selling the gold content thereof to Her Majesty, the Minister shall, at the same time as memorandum mentioned in subsection (5) is furnished to the depositor, pay to the depositor, as the full purchase price of the silver content of the deposit, an amount equal to the net value of the fine silver content of the deposit as stated in the memorandum.
- 6. The price payable by the Minister for the gold content of a deposit is the market price of gold in the country to which the Government of Canada is, at the time the deposit is received, exporting gold, converted into Canadian funds at the average of the rates of exchange for the currency of that country, reported to the Minister by the Bank of Canada on the days Monday to Friday, inclusive, of the week in which the deposit is delivered to the Master such price hereinafter referred to as the "Mint buying price".
- 7. The price payable by the Minister for the silver content of a deposit is the price that is one quarter of one cent below the average of the official New York daily quotation for fine silver for the days Monday to Friday, inclusive, of the week in which the deposit is delivered to the Master, converted into Canadian funds at the average of the rates of exchange for United States funds reported to the Minister by the Bank of Canada on the days Monday to Friday, inclusive, of that week.

Mint Charges

- 8. (1) The Mint charge payable by a depositor to the Master in respect of a deposit shall be calculated as follows on the gross weight of the deposit after melting:
 - (a) for melting and assaying, three dollars for the first one thousand ounces or part thereof and thirty cents for each additional one hundred ounces or part thereof; and
 - (b) for refining,
 - (i) when the deposit contains not more than five per cent base metal, nine cents per ounce,
 - (ii) when the deposit contains over five per cent base metal but not over ten per cent base metal, ten cents per ounce,
 - (iii) when the deposit contains over ten per cent base metal but not over fifteen per cent base metal, eleven cents per ounce,
 - (iv) when the deposit contains over fifteen per cent base metal but not over twenty per cent base metal, twelve cents per ounce, and
 - (v) when the deposit contains over twenty per cent base metal, or requires toughening or other special treatment in order to obtain concordant assays, such charge, not exceeding eighteen cents per ounce, as determined by the Master after taking into account the cost of treatment.
- (2) The charge for refining provided in paragraph (b) of subsection (1) applies in respect of all deposits containing, by assay, less than nine hundred and ninety-five parts fine gold in one thousand.
- (3) To cover the cost of marketing outside Canada a depositer shall pay to the Master a handling charge of eleven cents per fine ounce of gold for every deposit that is delivered to the Mint for the purpose of selling the gold content thereof to Her Majesty.
- (4) In respect of every deposit that is delivered to the Mint for the purpose of storing the gold content thereof, the depositor shall pay the following charges:
 - (a) a storage charge of five cents for each fine ounce of gold held in Mint storage for more than sixty days (including the day on which the deposit is received at the Mint) in respect of each additional thirty days or fraction thereof (excluding the day on which it is shipped from the Mint) payable upon application for the release of the gold or when billed, whichever is the earlier,
 - (b) a service charge of two cents for each fine ounce of gold shipped from the Mint, payable at the time of application for the release of the gold, and

- (c) a handling charge of eleven cents for each fine ounce of gold released from storage for sale to Her Majesty, payable at the time of sale.
- (5) In respect of every deposit that is delivered to the Mint for a purpose not described in subsection (3) or (4), and packing of fine gold is involved, the depositor shall pay at the time of shipment one dollar for the first fifty ounces of fine gold or part thereof, and two cents for each additional ounce or part thereof that is packed at the Mint for shipment.
- (6) It is a condition under which a deposit is accepted at the Mint that the Master may retain a portion of the fine gold content thereof in payment of the Mint charges in respect of that deposit.

Release of Gold

- The fine gold content of a deposit held in storage at the Mint shall be released only upon application therefor in the form prescribed by the Minister.
- 10. Every deposit is accepted at the Mint subject to the condition that the fine gold content thereof shall be released in a form that is at least .995 fine.

Sale of Gold

- 11.(1) The Master may, with the approval of the Minister, sell fine gold from the Mint that belongs to Her Majesty.
- (2) The price at which each fine ounce of gold shall be sold is the Mint buying price per fine ounce for the week immediately preceding the week in which the gold is sold plus ten cents.

General

- 12.(1) Deposits may be delivered to the Mint on Monday to Friday, inclusive, between the hours of 9:30 a.m. and 4:30 p.m. unless such a day is a holiday mentioned in or authorized pursuant to the Civil Service Act.
- (2) Where a deposit is delivered to the Mint, it shall be withheld from treatment until an invoice setting out the description and weight of the contents thereof has been received by the Master, and where there is a discrepancy between the actual and invoice weights of a deposit, the deposit shall not be further dealt with until the Master has notified the depositor of the discrepancy and has received further instructions from the depositor.
- (3) All gold shipped from the Mint shall be delivered at the Mint counter to the purchaser of the gold, to the depositor or his authorized agent.
- 13. It is a condition under which newly mined gold is accepted at the Mint for storage that the depositor prepare and mail to the Minister within thirty days of the last day of each month a report for that month in the form prescribed by the Minister 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 and the location of those places:
 - (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 and the location of those places.

List of Operators of Gold Mines, 1963

Name Head or executive office address Location

(a) Placer Gold Mines

Archmond Mineral Exploration Partnership	7880 Des Vendeens Ave., Montreal	Moe River
Beauce Placer Mining Co. Ltd.	908-330 Bay St., Toronto, Ontario	Beauceville
itish Columbia:	THE RESIDENCE OF THE PARTY OF T	
Canford Explorations Ltd.1	204 - 569 Howe St., Vancouver	Cottonwood River
Coulter, M.E.1	525 Delestre Ave., New Westminster	Williams Lake
Coulter, M.E.¹ Cresswell, R.¹	Box 231, Quesnel	Cariboo
edell, Wm. & Arnold, Harry V.	Vernon	Osoyoos
eineier, Josephi	Revelstoke	Revelstoke
Perguson, Don S.	McBride	0-21
Peyer, J.H. ¹ Fisher, William (Swift River Placer Mines ¹)	Box 2018, Quesnel	Cariboo
Gunn, J.J.1	Wells	Sovereign Creek Cariboo
Harris, H.	Box 335, Vernon	Vernon Mining Distric
farris, H. Heap, M.O. ¹	Princeton	Tulameen River
lixon Placers Inc.	2032 Third Ave., Seattle, Wash., U.S.A.	Cariboo
ack, Geneefferson, Jesse ¹	Prince George Big Lake Ranch	Cariboo Quesnel River
ohnson, Fred W.	Quesnel	edesilei vivei
ohnson, V.	Quesnel	
lidd Russell	Williams Lake	Lillooet
IcGannon, G.J.1	R.R. 1, Rosedale	Choate
dcJana Placers	Quesnel	Cariboo
Moen, Arling ¹	Wells	Perkins Creek Quesnel River
Velson A.J	Quesnel Williams Lake	Anesner Wivel
Oliynk, Theodore ¹	Box 927, Kimberley	Fort Steele
Oslon, Edward	Prince George	
Pederson, Arthur	Box 74, Wells	Wells
Piccolo, Bros & Schroeder	Atlin	Atlin
Polischuk, Paul	Atlin	Atlin Atlin
Sheppard, R.	Quesnel	Cariboo
Smith, B.	Quesnel	Cariboo
Smith, David	Quesnel	Cariboo
Spruce Creek Placers	Atlin	Atlin
Veezay Minerals Exploration¹	1143-17th Ave. S.W., Calgary, Alberta	Fort Steele
Wesco, Mining Co. Ltd. ¹	850 W. Hastings St., Vancouver	Atlin
Williams, Rex	Garden Bay Quesnel	Garden Bay Cariboo
Williams, S.N.	Quesnel	Cariboo
kon:		
Ballarat Mines Ltd. ¹	Dawson	Dawson
Bardusan Placers Ltd.1	Mayo	Mayo
Bleiler Placers ¹	Whitehorse	Mayo
Boutillier, H.C. & D.F.1	Dawson	Bonanza Creek
Bratsberg, B.	Dawson	Bonanza Creek
Bremmer, John Bremmer, Mrs. M.	Dawson	Last Chance Creek Carlboo Creek
Burgelman, Mrs. Nellie ¹	Dawson	Cariboo Creek
Surwash Mining Co.	Whitehorse	Burwash Creek
Christenson, R.	Dawson	Dawson
Dominion Placers (Mr. Ole Lunde)1	Box 4, Dawson	Quartz Creek
Duncan Creek Placers	Mayo	Mayo Fureka Creek
ry, A.T.	Dawson Box 19, Dawson	Eureka Creek Bonanza Creek
Gould, John	Dawson	Dawson
Ieitmann-Janus	Dawson	Clear Creek
& S Placers	Dawson	Gold Creek
Cinakin, Max	Dawson	Dublin Gulch
Corniensky, S.	Dawson	Stewart River Bedrock Creek
e Saux & Perret ¹	Dawson	Henderson Creek
entick & Rerg	Mayo	Sourdough Hill
Ialicky, Walter	Mayo	Mayo
ledby, Ole	Dawson	Dawson
Ioen, O.	Dawson	Dawson
Tetzel & Heitman Mining	Box 66 Dawson	Clear Creek Eureka Creek
Ross, L.M. (Kirkman Creek Placers) ¹	Dawson	Dawson
chink, E.	Dawson	Dawson
Strandberg, K.E.	Whitehorse	
Strandberg, K.E. Paylor, Fred W.	Mayo	Mayo
Yukon Consolidated Gold Corp. Ltd.1	Dawson	Dawson

Name Head or executive office address Location

(b) Gold Quartz Mines

Rast Plants Gold Mines Ltd. Part of Big Copper Ltd. Part of			
Same Machillan, Marckay Same	Nova Scotia:		
Quebec: Asanaba Gold Mines Ltd. Annerol Mining Company Ltd. Annerol Mining Ltd	East Hants Gold Mines Ltd.		
Assabs Gold Mines Ltd. Alassabs Gold Mines Ltd. American Chibotyanan Mines Ltd. Angestate Exploration Ltd. 400 (Mining Co. Ltd. 300 Bay St., Toronto, Ontatio Dupatoni Twp. Bargold Mines Ltd. Bargold Mines Ltd. Bargold Mines Ltd. Bargold Mines Ltd. 112 King St. W., Toronto, Ontatio Bargold Mines Ltd. 112 King St. W., Toronto, Ontatio Bargold Mines Ltd. 400 St. Janes St. W., Montreal 400 St. Janes St. W., Toronto, Ontatio 400 St. Janes St. W., Montreal 400	Fundy Bay Copper Mines Ltd. ²		
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American Ching Company Ltd. American Chinograma Mines Ltd. 125 Oniversity St., Montreal. Augustus Exploration Ltd. Augustus Exploration Ltd. 320 Bay St., Tononto, Ontario Duncan Lake Barat Mines Ltd. 118 King St. W., Toronto, Ontario Baratic College Ltd. 128 King St. W., Toronto, Ontario Duncan Lake Baratic Mines Ltd. 129 Camadra Mining Ltd. Canadian Australian Exploration Co. Ltd. Canadian Malartic Gold Mines Ltd. Challed Mines Ltd. Courvan Mining Co. Ltd. 1403 St. Pronto, Ontario Courvan Mining Co. Ltd. 1404 St. Pronto, Ontario Courvan Mining Co. Ltd. 1405 St. Pronto, Ontario Courvan Mining Co. Ltd. 1405 St. Pronto, Ontario Courvan Mining Co. Ltd. 1405 St. Research Courve Mining Co. Ltd. 1405 St. Research Courve Mining Co.	Quebec:		
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Anacon Lead Mines Ltd. 330 Bay St, Toronto, Ontario Dunca fake	Amerel Mining Company Ltd.2		
Augustis Exploration Ld. Ass Gold Maring Co. Ld. Bargold Mines Ld. Bargold Mines Ld. Bargold Mines Ld. 122 Bargold Mines Ld. 113 King St. W., Toronto, Ontario Malarite Barnal Mines Ld. 114 King St. W., Toronto, Ontario Baraute Twp. Baraute Twp	American Chibougamau Mines Ltd.2		
Ava Gold Minne Co. Lel. Banate Horse Lid. Banate Mines Lid. Bourbau Lake Mines, Lid. Bourbau Lake Mines, Lid. Cam Mines Lid. Cam		1600-100 Adeleide St. W. Toronto, Ontario	
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Belletere Gebec Mines, Ltd. 100 Severon Mines, Ltd. 101 Severon Mines, Ltd. 102 Sting St. W., Toronto, Ontario. 103 Strong St. W., Toronto, Ontario. 103 Strong St. W., Toronto, Ontario. 104 Strong St. W., Toronto, Ontario. 105 Strong St. W., Toronto, Ontario. 106 Strong St. W., Toronto, Ontario. 107 Strong St. W., Toronto, Ontario. 108 Strong St. W., Toronto, Ontario. 108 Strong St. W., Toronto, Ontario. 109 Strong St. W., Toronto, Ontario. 109 Strong St. W., Toronto, Ontario. 100 Strong	Bargoid Mines Ltd.2	100 Adelaide St. W., Toronto, Ontario	
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Cheskirk Mines Ltd. ² 25 Adelaide St. W., Toronto, Ontario	Canadian Malartic Gold Mines Ltd.2		
China Gold Mines Ltd.* 223 Adelaide St. W., Toronto, Ontario Courvan Mining Co. Ltd. 1603-007 Place d'Armes, Montreal 702-220 Bay St., Toronto, Ontario Done Exploration Co. (Guebec) Ltd.* Bourlamaque Pap. Bourlamaque Pap. Done Exploration Co. (Guebec) Ltd.* Done Exploration Co. (Guebec) Ltd.* Done Exploration Co. (Guebec) Ltd.* Donalda Mines Lind. 714-62 Richmond St. W., Toronto, Ontario Dubuisson Goldfields Ltd. 126 Cavenue, Noranda Dubuisson Goldfields Ltd. 127 Cavenue, Noranda 128 Like Mines Ltd. 128 Like Mines Ltd. 121 Richmond St. W., Toronto, Ontario Destor Twp. Destor			
Courvan Mining Co. Ltd. 100	Chima Gold Mines Ltd.	25 Adelaide St. W. Toronto, Ontario	
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D'Etidona Gold Mines Lid. Se Richmond St. W., Toronto, Ontario Dome Exploration Co. (Quebec) Ltd. Boulanaque Doubuisson Gold Riels Ltd. 302 - 385 St. James St. W., Montreal Dubuisson Gold Riels Ltd. 302 - 385 St. James St. W., Montreal Dubuisson Gold Riels Ltd. 212 Richmond St. W., Toronto, Ontario Eastville Gold Mines Co. Ltd. 213 St. Jacques Guest, Montreal Courville Elk Lake Mines Ltd. 112 Richmond St. W., Toronto, Ontario Destor Twp. Dubuisson Twp. Destor Twp. Dubuisson Twp. Duprat Twp Permont Mines Ltd. 213 Richmond St. W., Toronto, Ontario Dubuisson Twp. Duprat Twp Permont Mines Ltd. 2001 80 King St. W., Toronto, Ontario Beauchastel Twp. Permont Mines Ltd. 2001 80 King St. W., Toronto, Ontario Beauchastel Twp. Permont Mines Ltd. 314 468 fue St. Jean, Montreal Duprat Twp. Duprat Twp. Duprat Twp Greek Canadium Mines Ltd. 315 Richmond St. W., Toronto, Ontario Beauchastel Twp. Duprat Twp. Duprat Twp. Duprat Twp	D'Aragon Mines Ltd.	702-220 Bay St., Toronto, Ontario	Bourlamaque Twp.
Donalda Mines Limited*	D'Eldona Gold Mines Ltd.	62 Richmond St. W., Toronto, Ontario	
Dubuisson Goldfields Ltd. 14C Avenue, Norrada Capture and Duprat Twps. East Pay Gold Ltd. 13C St. Jacques Quest, Montreal Courville East Ville Gold Mines Co. Ltd. 13S St. Jacques Quest, Montreal Courville Abititi Destor Twp, Duprat Twp Debotor Twp, Duprat Twp Debotor Twp, Duprat Twp Abititi Destor Twp, Duprat Twp Abititi Destor Twp, Duprat Twp Abititi Permont Mines Ltd. 2001 -80 Kings t, W., Toronto, Ontario Courville Courvi	Dome Exploration Co. (Quebec) Ltd.2	Bourlamague	
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McIntyre Porcupine Mines Ltd. McWatters Gold Mines Ltd. McWatters Gold Mines Ltd. Mines Bern-Or Ltée. (Les) ² Corleton - Sur Mer. 252 rue Murdock, Noranda Laverlocher Nealon Mines Ltd. Nemrod Mining Corp. Ltd. Nemrod Mining Co. Ltd. ² New Alger Mines Limited ² New Alger Mines Limited ² New Alger Mines Ltd. ³ New Hosco Mines Ltd. ³ New Pascalis Mines Ltd. ³ New Pascalis Mines Ltd. ⁴ New Pascalis Mines Ltd. ² New Pascalis Mines Ltd. ² New Factor Rouyn Ltd. ³ New Flow Spirot Ltd. ³ New Hosco Mines Ltd. ³ New Spirot Ltd. ³ New Spirot Ltd. ³ New Spirot Ltd. ³ New Pascalis Mines Ltd. ⁴ Norbeau Mines Ltd. ³ Norbeau Mines Ltd. ³ Norbeau Mines Ltd. ³ Norbeau Mines Ltd. ³ Norlattic Mines Ltd. ³ Norlats Mines Ltd. ³ Norlatic Mines	Marcoland Mines Ltd.	201-2ième Avenue, Quebec	
McWatters Gold Mines Ltd. Mines Bern-Or Ltée. (Les) ² Montclair Mining Corp. Ltd. Newlon Mines Ltd. Newnod Mining Corp. Ltd. Newnod Mining Co. Ltd. ² New Alger Mines Ltmited ² New Alger Mines Ltmited ² New Hosco Mines Ltd. ² New Pascalis Mines Ltd. ² New Pascalis Mines Ltd. ² New Pascalis Mines Ltd. ² New Fascalis Mines Ltd. ² New Fascalis Mines Ltd. ² New Fascalis Mines Ltd. ² Newlohe Splorations Ltd. ² New Hosco Mines Ltd. ² Newlohe Splorations Ltd. ² Norbeau Mines Ltd. ² Norlax Tup. Norlax Mines Ltd. ³ Northean Sploration Ltd. 25 Adelaide St. W., Toronto, Ontario Northeast Exploration Ltd. Northeast Exploration Ltd. 265 Craig St. W., Montreal Northern Exploration Ltd. ³ Northern Quebec Explorers Ltd. Norsher Mines, Ltd. ³ Norsher Mines, Ltd. ³ Norsher Mines, Ltd. ³ Northern Gold Mines, Ltd. ³ Northern Gold Mines, Ltd. ³ Northern Exploration Ltd. Cadillac Twp. Blondeau Twp. Fauvel Canton Laverlocher Malartic and Vassan Twps. Bourbeau Twp. McKenzie Twp. McKenzie Twp. Dasserat Twp. Northeast Exploration Ltd. Sourbeau Lake Landriènne Twp. Fiedmont Cadillac Twp.		Schumacher	Ungava
Mines Bern-Or Litee. (Les) ² Corleton - Sur - Mer. Pawer Canton Laverlocher Montclair Mining Corp. Ltd. 252 rue Murdock, Noranda Laverlocher Malartic and Vassan Twps. Nemrod Mining Co. Ltd. ² 132 St. James St. W., Montreal Louvicourt Cadillac Twp. New Alger Mines Limited ² 1002-80 Richmond St. W., Toronto, Ontario Cadillac Twp. Newbanks Gold & Copper Mines Ltd. ² 776 4 ieme ave, Val d'or Vaughelin Canton New Hosco Mines Ltd. ² 906-357 Bay St., Toronto, Ontario Joannes Twp. New Pascalis Mines Ltd. ² 7 King St. E., Toronto, Ontario Pascalis New Senator Rouyn Ltd. ² 403-62 Richmond St. W., Toronto, Ontario Beauchastel Nickel Offsets Ltd. ² 80 Richmond St. W., Toronto, Ontario Duprat Twp. Norbeau Mines Ltd. ² 112 King St. W., Toronto, Ontario Malartic and Vassan Twps. Norlex Mines Ltd. ² 112 King St. W., Toronto, Ontario Malartic and Vassan Twps. Norlex Mines Ltd. ² 25 Adelalde St. W., Toronto, Ontario Dasserat Twp. North Bordulac Mines Ltd. ² 702-357 Bay St., Toronto, Ontario Dasserat Twp. Northern Exploration Co. 574-1st St., Chlbougamau Bourbeau Lake Northern Quebec Explorers Ltd. 13 ave Gouin., Amos Fiedmont Codillac Twp.	McWatters Gold Mines Ltd.	405-25 Adelaide St. W., Toronto, Ontario	Blondeau Twp.
Nealon Mines Ltd. Nemrod Mining Co. Ltd. ² New Alger Mines Limited ² New Alger Mines Limited ² New Alger Mines Limited ² New Hosco Mines Ltd. ² New Hosco Mines Ltd. ² New Hosco Mines Ltd. ² New Pascalis Mines Ltd. ² New Replace To Company Ltd. ² New Replace To Company Ltd. ² New Senator Rouyn Ltd. ² Nickel Offsets Ltd. ² Norbeau Mines Ltd. ³ N	Mines Bern-Or Ltée. (Les)2	Corleton - Sur - Mer.	
New Alger Mines Limited ² Newbanks Gold & Copper Mines Ltd. ² New Hosco Mines Ltd. ³ New Pascalis Mines Ltd. ³ New Pascalis Mines Ltd. ² New Fascalis Mines Ltd. ³ New Pascalis Mines Ltd. ³ New Pascalis Mines Ltd. ⁴ New Fascalis Mines Ltd. ⁴ New Fascalis Mines Ltd. ⁵ New Fascalis Mines Ltd. ⁵ New Fascalis Mines Ltd. ⁵ New Senator Rouyn Ltd. ³ Nickel Offsets Ltd. ² Norbeau Mines Ltd. ³ Norbeau Mines Ltd. ³ Norbeau Mines Ltd. ³ Norlex Mines Ltd. ³ Northeast Exploration Co. Northeast Exploration Ltd. Northeast Exploration Ltd. Northern Exploration Ltd. Northern Exploration Ltd. Northern Quebec Explorers Ltd. Northern Gold Mines, Ltd. ² Norse Goldin, Amos O'Brien Gold Mines, Ltd. ² No Bourbeau Lake Cadillac Twp. Cadilla		206-365 Bay St. Toronto Ontario	
New Alger Mines Limited ² Newbanks Gold & Copper Mines Ltd. ² New Hosco Mines Ltd. ³ New Pascalis Mines Ltd. ³ New Pascalis Mines Ltd. ² New Fascalis Mines Ltd. ³ New Pascalis Mines Ltd. ³ New Pascalis Mines Ltd. ⁴ New Fascalis Mines Ltd. ⁴ New Fascalis Mines Ltd. ⁵ New Fascalis Mines Ltd. ⁵ New Fascalis Mines Ltd. ⁵ New Senator Rouyn Ltd. ³ Nickel Offsets Ltd. ² Norbeau Mines Ltd. ³ Norbeau Mines Ltd. ³ Norbeau Mines Ltd. ³ Norlex Mines Ltd. ³ Northeast Exploration Co. Northeast Exploration Ltd. Northeast Exploration Ltd. Northern Exploration Ltd. Northern Exploration Ltd. Northern Quebec Explorers Ltd. Northern Gold Mines, Ltd. ² Norse Goldin, Amos O'Brien Gold Mines, Ltd. ² No Bourbeau Lake Cadillac Twp. Cadilla	Nemrod Mining Co. Ltd. ²	132 St. James St. W., Montreal	
New Hosco Mines Ltd. ² New Pascalis Mines Ltd. ² Newrich Explorations Ltd. ² Newrich Explorations Ltd. ² Northeast Exploration Ltd. Cadillac Twp. Northeast Exploration Ltd. Cadillac Twp.	New Alger Mines Limited ²	1002 - 80 Richmond St. W., Toronto, Ontario	
New Pascalis Mines Ltd. ² New Chemond St. W., Toronto, Ontario New Senator Rouyn Ltd. ² Nickel Offsets Ltd. ² Norbeau Mines Ltd. ² Norbeau Mines Ltd. ² Norbeau Mines Ltd. ² Norlex Mines Ltd. ² Norther Exploration Co. Northern Exploration Ltd. Northern Exploration Ltd. Northern Quebec Explorers Ltd. Northern Gold Mines, Ltd. ² Northern Exploration Ltd. Cadillac Twp.		776 41eme ave, val d'Or	
Norbeau Mines Ltd. ² Norbeau Mines Ltd. ² Norbeau Mines Ltd. ³ Norlartic Mi	New Pascelis Mines Ltd 2		
Norbeau Mines Ltd. ² Norbeau Mines Ltd. ² Norbeau Mines Ltd. ³ Norlartic Mi	Newrich Explorations Ltd. ²	403 - 62 Richmond St. W., Toronto, Ontarlo,	
Norbeau Mines Ltd. ² Norbeau Mines Ltd. ² Norbeau Mines Ltd. ³ Norlartic Mi	New Senator Rouyn Ltd. ²	2014-44 King St. W., Toronto Ontario	Noranda
Norlartic Mines Ltd. 1 112 King St. W., Toronto, Ontario Malartic and Vassan Twps. Norlex Mines Ltd. 2 25 Adelaide St. W., Toronto, Ontario Bousquet Twp. North Bordulac Mines Ltd. 2 702 - 357 Bay St., Toronto, Ontario Dasserat Twp. Northeast Exploration Co. 574 - 1st St., Chibougamau Bourbeau Lake Northern Exploration Ltd. 265 Craig St. W., Montreal Landriènne Twp. Northern Quebec Explorers Ltd. 13 ave Gouin., Amos Fiedmont O'Brien Gold Mines, Ltd. 2 36 Dussault St., Hull Cadillac Twp.	Nickel Offsets Ltd.	80 Richmond St. W., Toronto, Ontario	
North Bordulac Mines Ltd. North Bordulac Mines Ltd. 702-357 Bay St., Toronto, Ontario Dasserat Twp. Dasserat Twp. Northeast Exploration Co. Northern Exploration Ltd. Northern Exploration Ltd. Northern Quie bec Explorers Ltd. O'Brien Gold Mines, Ltd. 36 Dussault St., Hull Cadillac Twp.	Nordestic Mines Ltd.		
North Bordulac Mines Ltd. ² 702-357 Bay St., Toronto, Ontario Dasserat Twp. Northeast Exploration Co. 574-1st St., Chibougamau Bourbeau Lake Northern Exploration Ltd. Northern Quebec Explorers Ltd. 13 ave Gouin., Amos O'Brien Gold Mines, Ltd. ² 36 Dussault St., Hull Cadillac Twp.	Norlex Mines Ltd. ²		
Northeast Exploration Co. Northern Exploration Ltd. Northern Quiebec Explorers Ltd. O'Brien Gold Mines, Ltd. 36 Craig St. W., Montreal 13 ave Gouin, Amos Fiedmont Cadillac Twp.	North Bordulac Mines Ltd.2	702-357 Bay St., Toronto, Ontario	Dasserat Twp.
Northern Quebec Explorers Ltd. 13 ave Gouin., Amos Fledmont O'Brien Gold Mines, Ltd. ² 36 Dussault St., Hull Cadillac Twp.	Northeast Exploration Co.		
O'Brien Gold Mines, Ltd. 2 36 Dussault St., Hull Cadillac Twp.			

Name	Head or executive office address	Location
		2000000

(b) Gold Quartz Mines - Continued

Quebec - Concluded:		
Opemisca Explorers Ltd.	1155 Dorchester Blvd. W., Montreal	L'Esperance
Orenada Mines Ltd.	330 Bay St., Toronto, Ontario 405-25 Adelaide St. W., Toronto, Ontario	Bourlamaque
Paramaque Mines Ltd.	405 - 25 Adelaide St. W., Toronto, Ontario	Bourlamaque
Paramaque Mines Ltd. Peel - Elder Ltd. Perron Gold Mines Ltd. Pitchvein Mines Ltd. Porcupine Prime Mines Ltd. Portland Yellow Knife Gold Mines Ltd. Poweil Rouyn Gold Mines Ltd. Quebec North Shore Mines Ltd. Rand Malartic Mines Ltd. Rand Malartic Mines Ltd.	44 King St. W., Toronto, Ontario 44 King St. W., Toronto, Ontario 112 King St. W., Toronto, Ontario 82 Government Road, Kirkland Lake 85 Richmond St. W., Toronto, Ontario	Noranda Abitibi
Pitchyein Mines Ltd. ²	82 Government Road, Kirkland Lake	Dasserat
Porcupine Prime Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Fournière Twp.
Portland Yellow Knife Gold Mines Ltd.	506 - 100 Adelaide St. W., Toronto, Ontario	
Poweil Rouyn Gold Mines Ltd. 2	112 King St. W., Toronto, Ontario	Pouve Twee
Quebec North Shore Mines Ltd.	2144 McKay St., Montreal 2014-44 King St. W., Toronto, Ontario	Lacoste Twp.
		Malartic
Rocdor Mines Ltd. Roycam Copper Mines Ltd. ² Salem Exploration Limited ² Sigma Mines (Quebec) Ltd. ² Standard Gold Mines Ltd. ² Sturgeon River Mines Ltd. ³ Sullivan Consolidated Mines Ltd. ³ Teck Exploration Company Limited	Val D'Or 250 University Ave., Toronto, Ontario	Dubuisson Twp.
Salem Exploration Limited ²	85 Richmond St. W., Toronto, Ontario	Malartic Malartic
Sigma Mines (Quebec) Ltd.2	360 Bay St., Toronto, Ontario	Hanriemeane
Standard Gold Mines Ltd. ²	1403-507 Place d'Armes, Montreal	Bourlamague
Sturgeon River Mines Ltd.	1403 - 507 Place d'Armes, Montreal 903 - 330 Bay St., Toronto, Ontarlo	Leseur Twp.
Sullivan Consolidated Mines Ltd.	507 Place d'Armes, Montreal	Dubuisson Iwb.
Sullivan Consolidated Mines Ltd. ² Teck Exploration Company Limited Thompson Bousquet Gold Mines Ltd. ²	Bourlamaque	Bouriamaque
Transferre Evaluations I td 1		Abitibi Senneterre Twp.
Tribag Mining Co. Ltd.	44 King St W Toronto Onterio	Rouyn
Transterre Explorations Ltd. Tribag Mining Co. Ltd. Twentieth Century Mining Company Limited Tyndall Explorations Ltd. Ultra Shawkey Mines Ltd.	80 Richmond St. W., Toronto, Ontario	Pershing and Malartic Twps
Tyndall Explorations Ltd.	85 Richmond St. W., Toronto, Ontario	Beauchastel Twp.
	80 King St. W., Toronto, Ontario	Godfrey Twp.
Union Mining Corp. Urban Quebec Mines Ltd.	44 King St. W., Toronto, Ontario 80 Richmond St. W., Toronto, Ontario 85 Richmond St. W., Toronto, Ontario 80 King St. W., Toronto, Ontario 1374 Sherbrooke St. W., Montreal 405-25 Adelaide St. W., Toronto, Ontario	Bourlamaque Twp.
Valco Mines Co.	405-25 Adelaide St. W., Toronto, Ontario	Urban Twp.
Valco Mines Co. Villemaque Goldmines Ltd.	11 Adelaide St. W. Toronto Ontario	Malartic Bourlamaque Twp.
Wasamac Mines Ltd. Western Quebec Mines Co. Ltd. Wettering Gold Mines Ltd. Zolapa Mining Corporation Ltd.	199 Bay St., Toronto, Ontario	
Western Quebec Mines Co. Ltd.	1374 Sherbrooke St. W., Montreal	Dorval Siscoe Island
Wettering Gold Mines Ltd.2	Duparquet	Abitibi
Zolapa Mining Corporation Ltd.	Duparquet 1004-85 Richmond St. W., Toronto, Ontario	Thestor Twp.
Ontario:		
Porcupine District		
Aunor Gold Mines Ltd. Broutan Reef Mines Ltd. Delnite Mines Ltd. Dome Mines Ltd. Hallnor Mines Ltd. Holtinger Consolidated Gold Mines Ltd. Hugh - Pam Porcupine Mines Ltd. Kenliworth Mines Ltd. McIntyre Porcupine Mines Ltd. Northern Canada Mines Ltd. Pamour Porcupine Mines Ltd. Paymaster Ltd. Paymaster Ltd. Paymaster Ltd. Broute Mines Ltd. Paymaster Ltd.	44 King St W Toronto	Timmins
Brougan Reef Mines Ltd.2	44 King St.W., Toronto Room 1702, 80 Richmond St. W., Toronto	Whitney Twp.
Delnite Mines Ltd.	Box 590, Timmins	Deloro Twp.
Dome Mines Ltd. ³	South Porcupine 44 King St. W., Toronto	Tisdaie Twp,
Hallnor Mines Ltd.	44 King St. W., Toronto	Whitney Twp.
Hollinger Consolidated Gold Mines Ltd.	Timmins 80 Richmond St.W., Toronto Box 945, Timmins	Hislop and Tisdale Twps.
Kentiweth Mines Ltd.	Boy 045 Timping	Whitney Twp. Ogden Twp.
McIntyre Porcupine Mines Ltd. ²	Schumacher	Schumacher
Northern Canada Mines Ltd.2	Schumacher 903-330 Box St. Toronto	Broadback River
Pamour Porcupine Mines Ltd.	44 King St.W., Toronto	Whitney Twp.
Paymaster Ltd. ²	Box 100, South Porcupine	Deloro and Tisdale Twps.
Paymaster Ltd. ² Preston Mines Ltd. ²	335 Bay St., Toronto	South Porcupine
Kirkiand Lake District		
Kelkirk Mines Ltd.	1112 Star Building, Toronto	Kirkland Lake
Kelkirk Mines Ltd. Kirkland Minerals Corp., Ltd.	360 Bay St., Toronto	Teck Twp.
Lake Shore Mines Ltd." Macassa Gold Mines Ltd. (Macassa Division)	Kirkland Lake	Kirkland Lake
Macassa Gold Mines Ltd. (Macassa Division)2	110 Ving St W Toronto	Kirkland Lake
Northgate Exploration Ltd.	25 Melinda St., Toronto	Kirkland Lake
Teck - Hughes Gold Mine Ltd The	250 University Ave., Toronto 11 Adelaide St., Toronto	Gauthier Twp. Kirkland Lake
Unner Canada Mines Ltd 2	250 University St., Toronto	Gauthier Twp.
	And the state of t	Kirkland Lake
Wright-Hargreaves Mines Ltd.2	112 King St. W., Toronto	Minialia Hanc
Northgate Expioration Ltd. Queenston Gold Mines Ltd. Queenston Gold Mines Ltd. Teck-Hughes Gold Mine Ltd., The Upper Canada Mines Ltd., Wright-Hargreaves Mines Ltd., Larder Lake District	112 King St. W., Totonto	RINAII DARC
Larder Lake District		
Larder Lake District	25 Adelaide St.W., Toronto	Larder Lake
Larder Lake District Candore Explorations Ltd. ³ Kerr-Addison Gold Mines Ltd. ²	25 Adelaide St.W., Toronto	Larder Lake McGarry Twp.
Larder Lake District	25 Adelaide St.W., Toronto	Larder Lake
Larder Lake District Candore Explorations Ltd. ³ Kerr-Addison Gold Mines Ltd. ²	25 Adelaide St.W., Toronto	Larder Lake McGarry Twp.
Larder Lake District Candore Explorations Ltd. ³ Kerr-Addison Gold Mines Ltd. ² Valhalla Mines Ltd.	25 Adelaide St.W., Toronto	Larder Lake McGarry Twp. Harker Twp.
Larder Lake District Candore Explorations Ltd. ³ Kerr-Addison Gold Mines Ltd. ² Valhalla Mines Ltd. Sudbury District Renable Mines Ltd. ³	25 Adelaide St.W., Toronto 44 King St.W., Toronto 906-357 Bay St., Toronto	Larder Lake McGarry Twp. Harker Twp.
Larder Lake District Candore Explorations Ltd. ³ Kerr-Addison Gold Mines Ltd. ² Valhalla Mines Ltd. Sudbury District Renable Mines Ltd. ³ Tionaga Gold Mines	25 Adelaide St.W., Toronto 44 King St.W., Toronto 906-357 Bay St., Toronto	Larder Lake McGarry Twp. Harker Twp. Sudbury Horwood Lake

Name Head or executive office address Location

(b) Gold Quartz Mines - Continued

Ontario - Concluded:		
Thunder Bay District		
Consolidated Mosher Mines Ltd. ² Golsli Mines Ltd. ² Lake Osu Mines Ltd. ² Leitch Gold Mines Ltd. ² Little Long Lac Gold Mines Ltd. ² MacLeod-Cockshutt Gold Mines Ltd. ² Northern Canada Mines Ltd.	112 King St. W., Toronto 1212-55 York St., Toronto 418-25 Adeiaide St., W., Toronto 12 Richmond St. E., Toronto 400-112 King St. W., Toronto 112 King St. W., Toronto 330 Bay St., Toronto	Red Lake
Kenora District		
Cone, R.C. ²	Mine Centre	Shoal Lake
Consolidated Golden Arrow Mines Ltd. Lindsay Explorations Ltd.	25 Adelaide St. W., Toronto 4 Richmond St. E., Toronto	Dogpaw Lake Sapawe
Patricia District		
Campbell Red Lake Mines Ltd. ² Cochenour Willans Gold Mines Ltd. ² Consolidated Red Poplar Minerals Ltd. ² Dickenson Mines Ltd. ² Howey Consolidated Mines Ltd. ² Jorsco Exploration Ltd. Lun Echo Gold Mines Ltd. McKenzie Red Lake Gold Mines Ltd. McKenzie Red Lake Gold Mines Ltd. ² Madsen Red Lake Gold Mines Ltd. ² Pickle Crow Gold Mines, Ltd. ² Young, H.G., Mines Ltd. ² Wilmar Mines Ltd.	360 Bay St., Toronto 2200 Yonge St., Toronto 55 Yonge St., Toronto 25 Adelaide St. W., Toronto 1000-11 Adelaide St. W., Toronto 85 Richmond St. W., Toronto 199 Bay St., Toronto 112 King St., Toronto 155 Yonge St., Toronto 11 Adelaide St. W., Toronto 115 Adelaide St. W., Toronto 150 Eglinton Ave. E., Toronto	McKenzie Island
Matachewan District		
Calverley, G. ² Stairs Exploration & Mining Company Ltd.	Kirkland Lake	Powell Twp. Midlothian Twp.
Manitoba:		
Explorers Alliance Ltd. Forty-Four Mines Ltd. ² San Antonio Gold Mines Ltd. ² Triple Strlke Mines Ltd.	100 Adelalde St. W., Toronto, Ontario	Rice Lake
Saskatchewan;		
Contact Gold Mines Ltd. Studer Mines Ltd.	1168 Albert St., Regina 201 Canada Bidg., Prince Albert	La Ronge Sulphide Lake
British Columbia:		
Allied Mining Services Ltd. (Tofino Mines Ltd.) ² Amcana Gold Mines Ltd. Bermah Mines Ltd. Bralome Pioneer Mines Ltd. ² Cariboo Gold Quartz Mining Co. Ltd. ² Consolidated Mining & Smelting Co. Ltd. Conway Mines, c/o G.R. McKay ² Fairview Mining Co. Ltd. French Mines Ltd. Graham, W.B. Hanna Gold Mines Ltd. ² Hedley Mining Ltd. Hurley River Mines Ltd. Kelowna Mines Ltd. Kelowna Mines Hedley Ltd. Koolenay Belle Mining Co. McKinney Gold Mines Ltd. ² Rayrock Mines Ltd. Rayrock Mines Ltd. White Lease, (Venango Mine) ²	425 Howe St., Vancouver Box 124 Postal Station A, Vancouver 850 W. Hastings St., Vancouver 355 Burrard St., Vancouver 675 W. Hastings St., Vancouver Trail R.R. 2, Oliver Wallace, Idaho, U.S.A. 675 W. Hastings St., Vancouver Box 63, Hedley Casstar 4804 - 20th St., Vernon Lillooet Hedley Shoreacres 540 Burrard St., Vancouver 25 Adelaide St., W., Toronto, Ontario Nelson	Stewart Bralorne Cariboo Skeena Osoyoos Osoyoos Osoyoos Cassiar Hedley Lillooet Osoyoos & Slocan Sheep Creek Greenwood
Northwest Territories:		
Akaitcho Yellowknife Gold Mines Ltd. Consolidated Discovery Yellowknife Mines Ltd. Consolidated Mining & S. Co. of Canada Ltd. Consolidated Northland Mines Ltd. Giant Yellowknife Gold Mines Ltd. North Goldcrest Mines Ltd. Omsby Mines Ltd. Taurcanls Mines Ltd. Tundra Gold Mines Ltd. Consolvery Mines Ltd. Tundra Gold Mines Ltd.	7 King St. W., Toronto, Ontario 25 Adelaide St. W., Toronto, Ontario Trail, British Columbia 2200 Yonge St., Toronto, Ontario 7 King St. W., Toronto, Ontario 1011-2200 Yonge St., Toronto, Ontario 25 Adelaide St. W., Toronto, Ontario 25 Adelaide St. W., Toronto, Ontario 25 Adelaide St. W., Toronto, Ontario 200 Yonge St., Toronto, Ontario	Fox Lake Yellowknife
Yukon: Camlaren Mines Limited	2200 Yonge St., Toronto, Ontario	Gordon Lake Klondike

Name Head or executive office address Location

(c) Copper-Gold-Silver Mines

Newfoundland:		
Atlantic Coast Copper Corp. Ltd.	140 Wellington St., Ottawa 4, Ontario	Springdale
British Newfoundland Exploration Ltd.	1 1980 Sherbrooke St. W., Montreal, Onebec	Labrador
Consolidated Rambler Mines Ltd. ³ Maritimes Mining Corp., Ltd. ³	908-330 Bay St., Toronto 1, Ontario 330 Bay St., Toronto, Ontario	Baie Verte Tilt Cove
New Brunswick:		
Captain Mines Ltd.3	908-330 Bay St., Toronto, Ontario	Bathurst
Captain Mines Ltd. 3 Chesterville Mines Ltd.	25 Adelaide St. W., Toronto, Ontario	Northumberland
Clearwater Mines Ltd. Consolidated Mining & Smelting Co. Ltd.	Box 520, Bathurst Trail, British Columbia	Bathurst
Heath Steele Mines Ltd.	Box 280. Newcastle	Northumberland
Kennco Exploration (Canada) Ltd. Lucky Lake Mines Limited	25 King St. W., Toronto, Ontario	Newcastle
Mogul Mining Corp. Ltd.	25 Adelaide St. W., Toronto, Ontario	Gloucester
New Alger Mines Ltd. Quebec Smelting & Refining Ltd.	80 Richmond St. W. Toronto Ontario	Northumborland
Roche Long Lac Gold Mines Ltd.	372 Bay St., Toronto, Ontario	Gloucester Bathurst
Quebec:		
Alcourt Mines Ltd.3	1024-85 Richmond St. W., Toronto, Ontario	Joannes Twp.
Alsab Mines Ltd.	215 St. James St. W., Montreal	Denain Twn.
Amalgamated Larder Mines Ltd. American Chibougamau Ltd.	1615-44 King St. W., Toronto, Ontario	Garthhy Twn.
Anacon Lead Mines Ltd. Anaconda American Brass (Ltd.) ³ (Eastern Exploration	11 Cornwall Ave., Town of Mount Royal 908-330 Bay St., Toronto, Ontario	Abitibi McGarry Twp.
Anaconda American Brass (Ltd.) (Eastern Exploration Division)		
Area Mines Limited ³	43 Algle Ave., Toronto, Ontario	Ohemska River
Asarco Exploration of Canada Ltd.		Chihaugaman
Augustus Exploration Ltd.	906-357 Bay St., Toronto, Ontario 1600-100 Adelaide St. W., Toronto, Ontario	Joutel Two
Astrabrun Mines Ltd. ³ Augustus Exploration Ltd. ³ Barry Copper Mines Ltd. ³ Barry Explorations Ltd. ³ Bateman Bay Mining Company ³ Beattle Duquesne Mines Ltd. ³ Bidcon Mines Ltd. ³	550 Sherbrooke St. W., Montreal	Monthray Two.
Bateman Bay Mining Company ³	550 Sherbrooke St. W., Montreal 215 St. James St. W., Montreal	Monthray Tun.
Beattle Duquesne Mines Ltd.3	Duparquet	Dunarquet
Big Town Copper Mines Ltd.3	906-357 Bay St., Toronto, Ontario 132 St. James St. W., Montréal, Quebec	Daniel Twp.
Bidcop Mines Ltd. ³ Blg Town Copper Mines Ltd. ³ Black Bay Uranium Ltd. ³ Black River Mining Ltd. ³ Brail Copper Mines Ltd. ³	503 - 62 Richmond St. W., Toronto, Ontario	Dufresnov and Joseph Tana
Black River Mining Ltd.' Bornite Copper Corporation Limited'	102-400 St. James St. W., Montreal 1 62 Richmond St. W., Toronto i, Ontario	Duvernoy Twp.
Bourbeau Lake Mines Ltd.3	110 Tremov Rd., Noranda	Noranda
Bracemac Mines Ltd, ³ Bruneau Mines Ltd. ³	906-357 Bay St., Toronto, Ontario	Poirier Two.
Campbell Chibougamau Mines Ltd. ³ Canadian Dyno Mines Ltd. ³	620 Cathcart St., Montreal Box 134, Chibougamau	McKenzie Twp. Obalski Twp.
Canadian Dyno Mines Ltd. 1	405-25 Adelaide St. W., Toronto, Ontario	Fort MacKenzie
Canadian Shield Mining Corporation	700 Royal Bank Bldg., Place Ville-Marie, Montreal 8167 Birnam St., Montreal 15	Preissac Twp. Scott Twp.
Chesterville Mines Ltg.	405 - 25 Adelaide St. W., Toronto, Ontario	Joutel Twn
Chib-Kayrand Copper Mines Ltd. ³ Chiboug Copper Corp. Ltd. ³	215 St. James St. W., Montreal 1 302-215 St. James St. W., Montreal	McKenzie
Chibougamau Mining & Smelting Co. Inc.	Box 134. Chibougamau	Waconichi Lake
Chicohi Lake Mines Ltd 3		McKenzie Twn
Combined Metal Mines Ltd.3	7 King St. E., Toronto, Ontario 908-330 Bay St., Toronto, Ontario	Guyenne Twp. Duncan Lake
Chicohi Lake Mines Ltd. ³ Combined Metal Mines Ltd. ³ Compagnie Minière Gaspésie Ltée. ³ Congagni Mines Ltd. Consider Conner Mines Ltd.	Magog	Daniel Twn
Coniska Copper Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Dauhree
Consolidated Mogaly Mines Ltd.3	700 Royal Bank Bldg. Place Ville-Morio Montreal	Diedmont Twn
Consolidated Mogador Mines Ltd. ³ Consolidated Mogal Mines Ltd. ³ Consolidated Red Poplar Minerals Ltd. ³ Consolidated Zinc Corporation of Canada Ltd. ³ Consolidated Zinc Corporation of Canada Ltd. ³	405-25 Adelaide St. W., Toronto, Ontario 55 Yonge St., Toronto, Ontario	Poirier Twn
Consolidated Zinc Corporation of Canada Ltd.	335 Bay St., Toronto, Ontario	Chibougamau Twp.
Continental Dyno Mines Ltd.	220 Bay St., Toronto, Ontario	I ong I aka
Conwest Exploration Company 1.td.3	1001-85 Richmond St. W., Toronto, Ontario	Gaspé
Copper Rand Mines Division Patino Mining Corp. 3. Copper Stream Mines Ltd.	7 King St. E., Toronto, Ontario 266 Notre Dame St. W., Montreal	
Copper Valley Mines Ltd.3	403-3600 Ridgewood Ave., Montreal	Figuery Twp. Bolton Twp.
Corval Corporation Ltd. Croinor Pershing Mines Ltd. ³	1302 - 215 St. James St. W. Montreel	Dunnby Loko
Cupra Mines Ltd.	80 King St. W., Toronto, Ontario 1403-507 Place d'Armes, Montreal	Pershing Twp. Stratford Twp.
Cupra Mines Ltd. ³ Cuvler Mines Ltd. ³ Daering Explorers Corp. Ltd. ³	1215 St. James St. W., Montreal 1	Cuvier Twp.
D'Aragon Mines Ltd, 3 Delhi Pacific Mines Ltd, 3	714-62 Richmond St. W., Toronto, Ontario	Dufresnoy Twp. Vassan Twp.
Delhi Pacific Mines Ltd.3	405 Adelaide St. W., Toronto Ontario	Fort McKenzie
Dunraine Mines Ltd.	7 King St. E., Toronto, Ontario	Bourlamaque and Louvicourt Twps.
East Sullivan Mines Ltd.	507 Place d'Armes, Montreal, Québec	Val d'Or
Fab Metal Mines Ltd.	Box 520, Bathurst, New Brunswick	St. Armand East Urban Twp.
East Ventures Ltd.³ Fab Metal Mines Ltd. Fundy Bay Copper Mines Ltd.³	215 St. James St. W., Montreal	Frotet Lake
Gasné Copper Mines Ltd.	486, rue St. Jean, Montreai 44 King St. W., Toronto, Ontarlo	Duparquet
Genex Mines Ltd. Glant Bachelor Mines Ltd. ³ Grandrow Mines Ltd. ³	906 - 357 Bay St., Toronto, Ontario	Murdochville Dufresnoy Twp.
Grandroy Mines Ltd.3	550 Sherbrooke St. W., Montreal	Monthray Two
	908-330 Bay St., Toronto, Ontario	Vassan Twp.

Name Head or executive office address Location

(c) Copper-Gold-Silver Mines - Continued

Q	uebec - Continued:
	Grook Canadian Minos Ltd 3
	Greek Canadian Mines Ltd. ³ Gulf Lead Mines Ltd. ³ Hastings Mining & Development Co. Ltd. Horne Fault Mines Ltd. ³ Hydra Explorations Ltd. ³ lcon Syndicate ³ Iso Mines Ltd. ³ Jacobus Mining Corporation Ltd. Janlee Explorations Ltd. ³
	Hastings Mining & Development Co. Ltd.
	Horne Fault Mines Ltd.
	Hydra Explorations Ltd.3
	Icon Syndicates
	Iso Mines Lig."
	Jacobus mining Corporation Ltd.
	Joutel Conner Mines Ltd.
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Pascalis Twp.
Blondeau Twp.
Stratford Twp.
Beauchastel Twp.
Beauchastel Twp.
Rasles Twp.
Galinee, Twp.
Frotet Lake
Tiblemont Twp.
Joutel Twp.
Poirier and Faber Twps.
Ville Bon Twp.
Poirier Twp.
Dufresnoy Twp.
Daniel Twp.
Dufresnoy
Ungava and Bourlamaque
Abitibi
Galinee Twp.
Bourlamaque
Frotet Lake Galinee Twp.
Bourlamaque
Frotet Lake
New Quebec
De Salles Twp.
Destor Twp.
Duffesnoy Twp.
Broadback River
Chibougamau Twp.
Duffesnoy Twp.
East Main River
Chibougamau Twp.
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Muschocho Lake
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Head or executive office address Location

(c) Copper-Gold-Silver Mines = Consigned

Onebec - Constitued:		
Showdon Mining & Explorations Ltd. ³	1030 St. Alexandre, Montreal	Senneterre
Snowdon Mining & Explorations Ltd.	348 Kensington Ave., Westmount	Malartic
Solbec Copper Mines Ltd.3	1403 - 507 Place d'Armes, Montreal	Stratford Twp. Ungava
South Dufault Mines Ltd.	1980 Sherbrooke St. W., Montreal 427-12 Richmond St. E., Toronto, Ontario	Rouyn Twp.
Southern Union Oils Ltd.	1365 Bay St., Toronto Ontario	La Gauchetière Twp.
Springpole Mines Ltd.	25 Adelaide St. W., Toronto, Ontario	Joutel and Poirier Twps.
Stratheana Minge I td	25 Adelaide St. W., Toronto, Ontario 1003 - 67 Yonge St., Toronto, Ontario 62 Richmond St. W., Toronto, Ontario	Duprat Twp. Franquet Twp.
Sullico Mines Ltd.	1403-507 Place d'Armes, Montreal	Gaspé
Sullico Mines Ltd. Sunburst Exploration Ltd. Tache Lake Mines Ltd. Tazin Mines Ltd. Terra Nova Explorations Ltd. Terra Nova Explorations Ltd. Terra Nova Explorations Ltd.	320 Bay St., Toronto, Ontario	Duprat Twp.
Tache Lake Mines Ltd.	302-215 St. James St. W., Montreal	McKenzie Twp.
Terra Nova Explorations 1.td 3	215 St. James St., Montreal	Chibougamau
Terra Nova Properties Ltd.	65 St. Anne St., Quebec Grand Falls, Newfoundland	Barraute Twp, Tiblemont Twp,
Terra Nova Properties Ltd. Tetagouche Exploration Co. Ltd. ³	360 Bay St., Toronto, Ontario	Gaspé
Three Brothers Mining Exploration Ltd.	360 Bay St., Toronto, Ontario	Comporte Twp.
Trade-Horn Limited Tribag Mining Co. Ltd.	2014 44 King St. W. Toronto, Ontario	Doyon Lake Rouvn
Tri-Cor Mining Company Ltd.	608 - 80 Richmond St. W., Toronto, Ontario	Barraute Twp.
Triform Explorations Ltd. Trinity Chibougamau Mines Ltd. ³ Unisphere Explorers Ltd. ³	500-160 Bay St., Toronto, Ontario. 2014-44 King St. W., Toronto, Ontario 608-80 Richmond St. W., Toronto, Ontario 100 Adelaide St. W., Toronto, Ontario. 403-62 Richmond St. W., Toronto, Ontario.	Barraute Twp.
Trinity Chibougamau Mines Ltd.	403-62 Richmond St. W., Toronto, Ontario	Daniel Twp.
United Buffadison Mines Ltd.	OF Dichmond St. W. Toronto, Ontario	Dufresnoy Twp.
United New Fortune Mines Ltd.	405-25 Adelaide St. W., Toronto, Ontario	Duncan Lake Fort MacKenzie
United New Fortune Mines Ltd. United Obalski Mining Co, Ltd. Licon Pide Mines Ltd.	1155 Dorchester Blvd. W., Montreal	Clericy Twp.
	418 - 25 Adelaide St. W., Toronto, Ontario	Dufresnoy Twp.
Utopia Gold Mines Ltd. ³ Valray Explorations Ltd. ³	305 - 100 Adelaide St. W., Toronto, Ontario	Godfrey Twp. Beauchastel Twp.
Vanguard Explorations Ltd.	305-100 Adelaide St. W., Toronto, Ontario 305-100 Adelaide St. W., Toronto, Ontario 725-132 St. James St. W., Montreal	Noranda
Vauze Mines Ltd.3	1606-4 King St. W., Toronto, Ontar.o	Noranda
Ventures Claims Ltd.	7 King St. E., Toronto, Ontario	Noranda
Virginia Mining Corp. Waite Amulet Mines Ltd.	405-1410 Stanley St., Montreal	Mattagami
Waite Lake Mines Ltd.	1100 Bank of Nova Scotia Bldg., Toronto, Ontario	Duprai Two.
Waite Lake Mines Ltd. 3 Walson Lake Mines Ltd. 3	225-12 Richmond St. E., Toronto, Ontario 302-215 St. James St. W., Montreal 3100-25 King St. W., Toronto, Ontario 7 Adelalde St. E., Toronto, Ontario	Watson Lake
weedon wining Corporation	302-215 St. James St. W., Montreal	Fontainentonu
Westfields Minerals Ltd. West Wasa Mines Ltd.	7 Adelalde St. E. Toronto, Ontario	Montbray Twp. Beauchastel Twp.
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Ontario;		
Accra Explorations Ltd.	305-100 Adelaide St. W., Toronto	Robb Twp.
Aldage Mines 1.td 3	73 Adelaide St. W., Toronto	Cassells Twp.
Aumacho River Mines Ltd.	405-25 Adeiaide St. W., Toronto	Cardiff Twp.
Aumacho River Mines Ltd. Big Nama Creek Mines Ltd. ³ Chipman Lake Mines Ltd. Consolidated Golden Arrow Mines Ltd. ³	330 Bay St., Toronto	Manitouwadge Kenora
Consolidated Golden Arrow Mines Ltd.	25 Adelaide St. W., Toronto	Kenora
coppercorp, Pinnied	405 - 25 Adelaide St. W., Toronto	Algoma
Ethel Copper Mines Ltd.	80 Richmond St. W., Toronto 1715-44 King St. W., Toronto 25 Adelaide St. W., Toronto	Tudhope Twp.
Geco Mines Ltd. ³ Kam Kotia Porcupine Mines Ltd. ³	25 Adelaide St W Toronto	Manitouwadge Robb Twp.
Kenlew Mines Ltd.	906-357 Bay St., Toronto	Pickle Crow
Kenlew Mines Ltd. ³ Kennco Expiorations (Canada) Ltd. ³	25 King St., Toronto	Manitouwadge
Kiro Explorations Ltd.	160 Bay St., Toronto	Robb Twp.
Kordol Explorations Ltd.	19 Melinda St., Toronto 1600-100 Adeiaide St. W., Toronto	Boston Creek Larder Lake
Lake Beaverhouse Mines Ltd. Maple Bay Copper Mines Ltd.	357 Bay St., Toronto	Godfrey Twp.
Maraigo Mines Ltd.	906-11 Adelaide St. W., Toronto 305-100 Adelaide St. W., Toronto	Strathy Twp.
Maybrun Mines Ltd. Mining Corp. of Canada, Ltd. ³ Misema Lake Mining Corp. Ltd North Coldstream Copper Mines Ltd. ³	305-100 Adelaide St. W., Toronto	Kenora
Misema Lake Mining Corp. 14d.	44 King St. W., Toronto	Rainy River Larder Lake
North Coldstream Copper Mines Ltd.	44 King St. W., Toronto	Kashabowie
Pax International Mines Ltd.	607-80 Richmond St. W., Toronto	Matachewan
Poly Ores Mining Company Ltd. Rio Algom Mines Ltd. (Pater Mine) ⁵	62 Richmond St. W., Toronto	Spanish
St. Lucie Exploration Co. Ltd.	443 University Ave., Toronto	Matachewan Tudhope Twp.
Shunsby Mines Ltd.	One 357 Bay St Toronto	Cunnigham Twp.
Temagami Mining Company Ltd.	1000 - 11 Adelaide St. W. Totonto	Temagami
Shunsby Mines Ltd. Temagami Mining Company Ltd. ³ Tribag Mining Co. Ltd. ³ Voyager Expiorations Ltd. ³ Volce C.S.	2014-44 King St. W., Toronto	Batchawana
Welsh, G.S.	159 Bay St., Toronto 62 Richmond St. W., Toronto	Temagami Matachewan
Manitoba:		
Canorama Explorations Ltd. Hudson Bay Exploration and Development Company	104-85 Richmond St. W., Toronto, Ontario	The Pas
Limited	333 Broadway, Winnipeg	Various
itudson Bay Mining & Smelting Company Ltd.	4th Floor, 333 Broadway Ave., Winnipeg	Flin Flon, Schist Lake
Stall Lake Mines Ltd.	2-193 Bannatyne Ave., Winnipeg	Stall Lake
Saskatchewan:		
Hudson Bay Mining & Smelting Co. Ltd.	4th Floor, 333 Broadway Ave., Winnipeg, Manitoba	Flin Flon, Phil Lake

Name Head or executive office address Location

(c) Copper-Gold-Silver Mines - Conciuded

Albete Mines Ltd. ² Bayonne Mines Ltd. ² Bayonne Mines Ltd. ³ Beile Tahsis Mines Ltd. Bennett, R. (Copper Road Mine) ⁴ Bennett, R. (Copper Road Mine) Ltd. ⁴ Gon-250 University Ave., Toronto, Ontatio Bennett Road Mines Ltd. ⁴ Const Copper Company Ltd. ⁴ Constituted Wondgreen Mines Ltd. ⁴ Constituted Wondgreen Mines Ltd. Constituted Wondgreen Mines Ltd. Continental Consolidated Mines Ltd. Continental Consolidated Mines Ltd. Copper Mines Ltd. Copper Conjuda Ltd. ⁴ Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Copper Conjuda Ltd. ⁴ Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Copper Conjuda Ltd. ⁴ Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Copper Conjuda Ltd. ⁴ Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Lake Cowichan Copper Conjuda Ltd. ⁴ Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Lake Cowichan Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Lake Cowichan Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Lake Cowichan Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Lake Cowichan Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Lake Cowichan Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Lake Cowichan Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Lake Cowichan Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Lake Cowichan Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Lake Cowichan Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Lake Cowichan Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Lake Cowichan Copper Conjuda Ltd. ⁴ Sib Howe S., Vancouver Lake Cowichan Copper Copper Mines Ltd. ⁴ Sib Howe S., Vancouver Lake Cowichan Copper Copper Copper Copper Ltd. ⁴ Sib Howe S., Vancouver Newmont Mining Company Ltd. ⁴ Sib Howe S., Vancouver Newmont Mining Company Ltd. ⁴ Sib Howe S.,	British Columbia:		
Anaconda Company (Canada) Ltd., (The) Bayonne Mines Ltd. Belle Tahsis Mines Ltd. Bennett, R. (Copper Room of Mine) Herfot Bay, Quadra Island Bennett, R. (Copper Room of Mines Ltd. Bennett, R. W., Toronto, Ontario Herge Coast Copper Company Lid.; Adol 200 - 250 University Ave., Toronto, Ontario Hope Coast Copper Company Limited Trail Box 4183 Vancouver Pender Harbour Hope Consolidated Woodgreen Mines Ltd. Consolidated Woodgreen Mines Ltd. Continental Consolidated Mines Ltd. Signature Consolidated Mines Ltd. Copper Toron Mines Ltd. Copper Mountain Mines Ltd. Signature Copper Company Lid.; Box 4183 Vancouver Greenwood Copper Mountain Mines Ltd. Copper Mountain Mines Ltd. Signature Copper Con Ltd. Signature Copper Copper Mountain Mines Ltd. Signature Copper Copper Mountain Mines Ltd. Signature Copper Copper Copper Mountain Mines Ltd. Signature Copper Copper Copper Mountain Mines Ltd. Signature Copper Copper Copper Copper Mountain Mines Ltd. Signature Copper Copper Copper Copper Mountain Mines Ltd. Signature Copper Copper Copper Mountain Mines Ltd. Signature Copper Cop		Y aka Cawishan	I also Comistan
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Note: List includes some dormant properties.

Establishment classified to the Placer Gold Mines Industry.
 Establishment classified to the Gold Quartz Mines Industry.
 Establishment classified to the Copper-Gold-Silver Mines Industry.



