

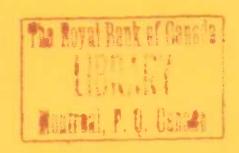


THE GOLD MINING INDUSTRY 1952

DOMINION BUREAU OF STATISTICS

Industry and Merchandising Division Mining, Metallurgical and Chemical Section

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DOMINION BUREAU OF STATISTICS,

Industry and Merchandising Division
Mining, Metallurgical and Chemical Section

THE GOLD MINING INDUSTRY 1952

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

NOTICE

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

Volume I consists of the following parts:

Part I - Mineral Statistics

Part II - Forestry Statistics - Operations in the Woods

Part III - Fisheries Statistics

Part I includes the following reports which constitute the complete series on Mineral Statistics of Canada. Individual reports are issued as the information becomes available; they are arranged in a form suitable for binding.

A - General Review of the Mining Industry, 50¢

B - The Gold Mining Industry, 50¢

C - The Silver-Lead-Zinc Mining Industry, 25¢

D - The Nickel-Copper Mining, Smelting and Refining Industry, 25¢

E - The Miscellaneous Metal Mining Industry, 25¢

F - The Non-ferrous Smelting and Refining Industry, 25¢

G - The Coal Mining Industry, \$1.00

H - The Crude Petroleum and Natural Gas Industry, 25¢

I - The Asbestos Mining Industry, 25¢

J - The Feldspar and Quartz Mining Industry, 25c

K - The Gypsum Industry, 25€

L - The Peat Industry, 25¢

M - The Salt Industry, 25¢

N - The Talc and Soapstone Industry, 25¢

O - The Miscellaneous Non-metal Mining Industry, 25¢

P - The Cement Manufacturing Industry, 25¢

Q - The Clay and Clay Products Industry, 25¢

R - The Lime Industry, 25¢

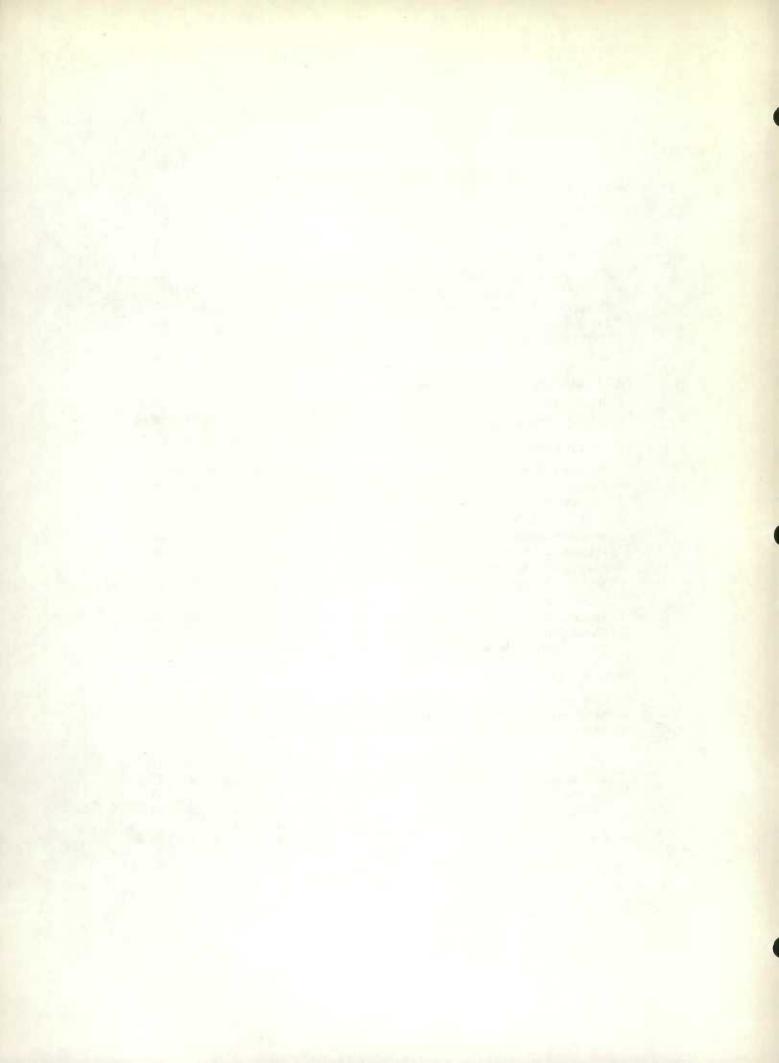
S - The Sand and Gravel Industry, 25¢

T - The Stone Industry, 25¢

U - Contract Drilling in the Mining Industry, 25¢

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THE GOLD MINING INDUSTRY 1952

Including: (a) The Alluvial Gold Mining Industry

(b) The Auriferous Quartz Mining Industry

(c) The Copper-Gold-Silver Mining Industry

Definition of the Industry—Gold mining in Canada is divided into three principal industries: (a) the recovery of gold from the gravels and sands of stream channels or beaches, described as "The Alluvial Gold Mining Industry"; (b) the recovery of lode gold, which is designated "The Auriferous Quartz Mining Industry", and in which industry gold is usually the most important economic constituent of the ores mined and quartz the predominant gangue mineral; (c) gold is often found in various other mineral deposits, more particularly in those of copper, and for this reason, the review of Canada's "Copper-Gold-Silver mining Industry" is included here to complete a comprehensive survey of Canadian gold production.

During 1952 the production of gold amounted to 4,471,725 fine troy ounces valued at \$153,246,016 compared with 4,392,751 ounces valued at \$161,872,873 in 1951. 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 56 per cent of the total. Quebec, in second position, produced 25 per cent, and British Columbia accounted for 6 per cent of the total. The other provinces ranked in the following order: Northwest Territories, Manitoba, Saskatchewan, Yukon, Newfoundland, Nova Scotia and Alberta.

Gold purchased by the Royal Canadian Mint was valued at \$35.00 in United States funds but the Canadian dollar went over par during the year. The price of gold in Canadian dollars was \$35.19 in January; it declined to \$33.59 in September and closed out the year at \$33.97. The average price for 1952 was \$34.27 per troy ounce in Canadian funds.

Some of the gold mines which had low cost production continued to sell gold on the "premium" market. The gold prices on this market continued to decline until they were only slightly higher than the price quoted by the Mint.

The total amount paid to the gold mines by the Emergency Gold Mining Assistance Act was approximately \$10,359,054 in 1952 compared with \$10,073,000 in 1951; \$8,953,000 in 1950; \$12,550,000 in 1949; and \$10,518,000 in 1948.

TABLE 1. Production of Gold, Fifty Years, 1903-1952

	Year	Fine ounces	\$		Year	Fine ounces	\$
1903	b) 44 t= 00.00 40 40 00 t) = 0.00 b) (1 0.00 00 00 00 00 00 00 00 00 00 00 00 0	911,559	18,843,590	1928	***************************************	1,890,592	39,082,008
1904	** ** 3 * 7 * 0 * 1 5 * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	796, 374	16, 462, 517	1929		1,928,308	39,861,663
1905	***************************************	684,951	14, 159, 195	1930		2,102,068	43, 453, 601
1906	44 39 34 04 04 24 04 40 30 30 04 44 54 30 04 44 14 45 3 4 40 90 30 44 44 46	556,415	11,502,120	1931	19-11-44-01 19-7-10-64-94-11-10-19-19-19-19-19-19-19-19-19-19-19-19-19-	2, 693, 892	58,093,396
1907	***************************************	405,517	8, 382, 780	1932	***************************************	3,044,387	71,479,373
1908	PE #9 ** OC OC 93 *3 \$7 \$1 * 54 OC OC 45 *6 40 PC 10 * 56 *** ** ** ** ** ** ** ** ** ** ** ** *	476,112	9,842,105	1933	*****************************	2,949,309	84, 350, 237
1909	***************************************	453,865	9,382,230	1934	1040454046400000000000000000000000000000	2,972,074	102, 536, 553
016	47 45 47 5 7 5 6 5 6 6 6 6 6 7 7 8 6 5 6 4 4 5 6 7 8 6 6 6 7 7 8 6 6 6 7 8 6 6 6 7 8 6 7 8 6 7 8 6 7 8 7 8	493,707	10, 205, 835	1935	***************************************	3, 284, 890	115,595,279
911	***************************************	473, 159	9,781,077	1936	***************************************	3,748,028	131, 293, 42
912	\$104.04 0m27.00.0m2.402.804.b.cd.00.404.b.cd.00.404.0m2.m2.44.1.b.b.b.b.	611,885	12,648,794	1937		4,096,213	143, 326, 49
913	-440 40 40 50 50 40 40 60 60 50 40 50 50 50 40 60 60 60 60 50 50 60 60 60 60 60 60 60 60 60 60 60 60 60	802,973	16,598,923	1938	244125044050606045445564575504000704040506457	4,725,117	166, 205, 990
914	+0 *** 04 15 04 52 04 04 04 14 44 05 10 14 05 44 10 04 04 04 04 15 55 14 55 04 45 17 50	773, 178	15,983,007	1939	\$660 00 000 000 000 00 00 00 00 00 00 00	5,094,379	184, 115, 95
1915	PR PR DE DÉ SE PR PR PR DE CEST ÉS AU PR PR 4 (0 L ED AR 00 10 10 40 10 10 10 10 10 10 10 10 10 10 10 10 10	918,056	18,977,901	1940	0402 04 04 04 04 05 06 04 02 00 040 0 040 040 040 040 040 040	5, 311, 145	204, 479, 08
916	10 dd or ot oc 90 oc ocor 40 ot conc po oc occep 40 00 oc oc ocor 90 00 00 01 01 01 01	930,492	19, 234, 976	1941	\$3.45.50.00.00.00.00.00.00.00.00.00.00.00.00	5, 345, 179	205,789,39;
917	***************************************	738,831	15, 272, 992	1942	2 0 2 2 2 3 4 4 5 7 3 4 4 5 2 2 3 4 7 5 0 4 4 5 4 5 4 4 4 4 7 4 4 4 4 5 3 7 4 5 7 4 5 7 4 5 7 4 5 7 4 5 7 4 5	4,841,306	186, 390, 28
918	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	699,681	14, 463, 689	1943	***************************************	3,651,301	140, 575, 088
1919	3035 04040406 04444000000000000000000000000	766,764	15,850,423	1944	***************************************	2, 922, 911	112, 532, 07
1920	\$030 Eb 4000 \$145 50 50 45 41 55 50 50 50 be 64 5475 54 45 54 50 64 64 66 ⁵ 64	765,007	15,814,098	1945	>>>> 100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2,696,727	103, 823, 99
921	***************************************	926,329	19,148,920	1946	244440000000000000004440000000000000000	2,832,554	104,096,359
922		1,263,364	26, 116, 050	1947	\$100 414 10 10 10 10 10 10 10 10 10 10 10 10 10	3,070,221	107, 457, 73
923	16+2 2-4+4 2-4+4 2-4+4 - 14+4 - 14+4 19+4 19+4 19+4 19+4 19+4 19+4 19+4	1, 233, 341	25, 495, 421	1948	***************************************	3, 529, 608	123, 536, 286
924	***************************************	1,525,382	31,532,443	1949	4-17-4-4	4, 123, 518	148, 446, 64
925	4945100000 0000000000000000000000000000000	1,735,735	35,880,826	1950		4,441,227	168,988,68
926	1 mil g 4 5 7 0 4 3 0 0 3 7 4 5 7 0 4 4 0 4 4 6 7 4 6 7 7 7 7 4 4 4 4 4 4 4 4 4 4	1,754,228	36, 263, 110	1951		4, 392, 751	161,872,87
1927	4000 0764 00 40 40 40 40 40 40 40 40 40 40 40 40	1,852,785	38, 300, 464	1952		4, 471, 725	153, 246, 01

TABLE 2. Total (Cumulative) Recorded Production of Specified Metals to December 31, 1952

	Since		Quantity	Value
			37377	\$
Gold	1858	fine ounces	121,856,085	3,755,856,569
Silver	1887	44	1,024,231,910	607,024,950
Copper	1886	tons	6, 804, 887	1,965,472,756
Nickel	1889	**	3, 190, 816	1,915,611,517
Lead	1887	44	5, 615, 410	725, 496, 046
Zinc	1898	_	er es	901,929,973
Cobalt	1904	tons	20,090	43, 761, 975

TABLE 3. Production of Gold, by Months1, 1950-1952

Month	1950	1951	1952	Month	1950	1951	1952
	F	ine ounces				Fine ounces	
January	353,615	376, 874	353, 573	July	367,766	346,690	374,037
February	349,291	349,484	351,926	August	375,924	347, 383	371,826
March	382,624	374, 774	364,973	September	364, 361	361, 386	382, 177
April	369,070	365, 806	363, 375	October	376, 315	380,827	403,532
May	373, 124	371,585	366, 169	November	378, 294	374, 888	388, 546
June	368, 347	364,910	359,812	December	382, 496	378, 144	391.779
				Total	4,441,518	4, 392, 751	4,471,725

^{1.} Compiled from monthly reports received from principal operators but the amounts have been adjusted slightly to make the 12 months' total agree with the year's total as compiled from final annual reports; production includes recoveries from all types of ore.

TABLE 4. Production of Gold from Auriferous Quartz and Base Metal Mines, by Months, 1950-52

Month	Gold ba	production from se metal mines	1	Gold production from auriferous quartz mines and placer deposits						
Month	1950	1951	1952	1950	1951	1952				
	Fine ounces									
anuary,	47,250	53,696	46,268	306, 365	323.178	307.305				
ebruary	45, 191	45, 476	45,587	304, 100	304,008	306,339				
larch	51,410	48,364	43,692	331, 214	326,410	321, 281				
pril	50, 208	47.214	43,785	318,862	318,592	319,590				
lay	49,827	45,737	42,000	323,297	325.848	324, 169				
une	49,321	48,257	46.055	319,026	316.653	313,757				
uly	46, 150	49,277	43,086	321,616	297,413	330,951				
lugust	46,039	51.735	47,407	329,885	295,648	324,419				
eptember	43, 283	49,840	51,617	321,078	311,546	330,560				
October	44.625	48,715	47,950	331,690	332, 112	355,582				
lovember	45, 788	50,844	47,373	332,506	324,044	341,173				
December	49,235	47,554	50, 315	333,261	330,590	341,464				
Total	568, 327	586, 709	555, 135	3, 872, 900	3,806,042	3, 916, 590				

TABLE 5. Production of Gold¹, by Provinces, 1943-1952

	Nova S	cotia	Que	ebec	Ont	ario	Manit	oba	
Year	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$	
1943	4,129	158,967	922,533	35, 517, 521	2, 117, 215	81,512,777	91,775	3,533,337	
1944	5,840	224,840	746,784	28,751,184	1,731,836	66,675,686	74.168	2,855,468	
1945	3, 291	126,704	661,608	25,471,908	1,625,368	62,576,668	70,655	2,720,218	
1946	4.321	158,797	818, 339	22,723,958	1,813,333	66,639,988	79,402	2,918,024	
1947	1,271	44,485	598,127	20,934,445	1,944,819	68,068,665	72,906	2,551,710	
1948	188	6,580	770, 625	26,971,875	2,095,377	73,338,195	106, 176	3,716,160	
1949	64	2,304	964, 184	34,710,624	2,354,509	84,762,324	137,399	4,946,364	
1950	65	2,473	1,094,645	41,651,242	2,481,110	94,406,236	191,725	7,295,136	
1951	17	626	1,067,306	39,330,226	2,463,179	90,768,146	163,914	6,040,231	
1952	1,433	49,109	1, 113, 204	38,149,501	2,513,691	86,144,910	141,947	4,864,524	
	Saskatc	hewan	British C	Columbia	Y	ikon	Northwest Territories		
1943	174,090	6,702,465	241,346	9,291,821	41,160	1,584,660	59,032	2, 272, 732	
1944	122,782	4,727,107	196,857	7,578,994	23,818	916.993	20,775	799,838	
1945	108,568	4,179,868	188,854	7, 193, 879	31,721	1,221,258	8,655	333,218	
1946	112, 101	4,119,712	136,242	5,006,893	45.286	1,664,260	23,420	860, 685	
1947	93.747	3,281,145	249,011	8,715,385	47,745	1,671.075	62,517	2,188,095	
1948	87,927	3,077,445	306,998	10,744,930	60,614	2,121,490	101,625	3,556,875	
1949	94,208	3,391,488	304,307	10,955,052	81,970	2,950,920	177,493	6,389,748	
1950	79,784	3,035,781	290,490	11,053,144	93,339	3,551,549	200,663	7,635,22	
1951	110, 216	4,061,460	289,992	10,686,205	77,504	2,856,022	212,21i	7.819,97	
1952	93,585	3,207,158	273,059	9,357,732	78,519	2,690,846	247.581	8,484,60	

^{1.} From all sources.

Note: Annual Alberta production was less than 215 ounces for the years specified. Newfoundland production was 9,269 ounces in 1949, 9,254 ounces in 1950, 8,515 ounces in 1951 and 8,595 ounces in 1952.

TABLE 6. Production of Gold, by Provinces, According to Nature of Ores, 1951 and 1952

Year and province	Placer	Auriferous quartz ores	Copper-gold- silver ores	Nickel-copper ores	Silver-lead and other ores	Total
			Fine	ounces		
1951	1					
Newfoundland	_	_	_	_	8, 515	8, 51
Iova Scotia	-	17	-	_	_	1
Nepec	38	724,878	316, 849		25, 541	1,067,30
ntario	- 1	2, 422, 505	80	40,394	_	2, 462, 97
lanitoba	_	126, 867	37,047	-	_	163, 914
askatchewan		- 1	110,216	_	-	110, 210
liberta	97		_	_		9"
ritish Columbia	18,802	223, 142	20, 488	_	27,560	289, 99
forthwest Territories	77 504	212, 192	19	_	_	212, 21:
Yukon	77, 504	_	_	_	-	77, 504
Canada	96, 441	3, 709, 601	484, 699	40, 394	61, 616	4, 392, 751
1952						
Newfoundland	_			_	8,595	8, 595
Iova Scotia	-	1	_	_	1, 432	1, 433
uehec	39	771, 756	311, 473	_	29, 936	1, 113, 204
ntario	_	2, 469, 786	105	43,689	111	2, 513, 69;
fanitoba	_	118, 214	23, 733	_	_	141.94
askatchewan	2	_	93, 583	-	_	93, 58
lberta	111	-	_	-		111
ritish Columbia	14, 172	216, 652	19,040		23, 195	273,059
Northwest Territories	70 510	247, 338	_	_	243	247, 581
ukon	78,519	-	_		-	78, 519
Canada	92, 843	3, 823, 747	447, 934	43,689	63, 512	4, 471, 725

TABLE 7. Gold Production by Provinces and Principal Areas, 1950-1952

Section 1	19	50	19	51	19	52
Province and area	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$
No-foundless	0.054	050 145	0.645	040 880		204.85
Newfoundland	9, 254	352, 115 2, 473	8, 515	313,778 626	8, 595	294, 55
Quebec: Gold mines Base metal mines	743, 241 351, 404	28, 280, 320 13, 370, 922	724, 878 342, 428	26, 711, 754 12, 618, 472	1, 433 771, 795 341, 409	49, 109 26, 449, 419 11, 700, 086
Total Quebec	1, 094, 645	41, 651, 242	1, 067, 306	39, 330, 226	1, 113, 204	38, 149, 501
Ontario: Gold mines: Porcupine Kirkland Lake Larder Lake Matachewan Sudbury Thunder Bay Patricia Other mines Total Ontario Manitoba: Gold mines Other mines Total Manitoba	1,100,122 448,391 341,081 50,046 36,930 131,413 336,854 36,271 2,481,110	41, 659, 642 17, 061, 278 12, 978, 132 1, 904, 326 1, 405, 187 5, 000, 265 12, 817, 295 1, 380, 111 94, 406, 236 5, 213, 611 2, 081, 525 7, 295, 136	1,062,951 454,986 352,135 41,984 23,717 137,291 349,404 40,511 2,462,979	39, 169, 744 16, 766, 234 12, 976, 175 1, 547, 111 873, 971 5, 059, 173 12, 875, 538 1, 492, 830 90, 760, 776 4, 675, 049 1, 365, 182 6, 040, 231	1, 163, 344 417, 382 368, 046 40, 144 40, 837 120, 051 321, 763 44, 124 2, 513, 691 118, 214 23, 733 141, 947	39, 867, 799 14, 303, 681 12, 544, 396 1, 375, 735 1, 399, 484 4, 114, 148 11, 026, 818 1, 512, 126 86, 144, 190 4, 051, 194 813, 330 4, 864, 524
Saskatchewan: Gold mines Other mines	79, 784	3, 035, 781	110, 216	4,061,460	93,583	3, 207, 089
Total Saskatchewan	79, 784	3, 035, 781	110, 216	4, 061, 460	93, 585	3, 207, 158
Alberta (placer)	152	5, 784	97	3,574	111	3, 804
British Columbia; Gold mines (lode)	238, 949 14, 632 36, 909	9, 092, 009 556, 747 1, 404, 387	223, 142 18, 802 48, 048	8, 222, 783 692, 854 1, 770, 568	216, 652 14,172 42, 235	7, 424, 664 485, 675 1, 447, 393
Total British Columbia	290, 490	11, 953, 144	289, 992	10, 686, 205	273,059	9, 357, 782
Northwest Territories: Gold mines and placer	200, 663	7, 635, 227	212, 211	7, 819, 975	247, 581	8,484,601
Yukon (chiefly placer)	93,339	3, 551, 549	77, 504	2, 656, 022	78,519	2, 690, 846
Total Canada	4,441,227	168, 988, 687	4, 392, 751	161, 872, 873	4, 471, 725	153, 246, 016

TABLE 8. Production of Gold and Silver by Principal Mines, 1952

Mine and province	Ore hoisted	Material sorted (discarded)	Оте treated	Gold produced	Silver produced	Mill capacity — 24 hours	See foot note
		Tons		Fine o	unces	Tons	
NewFoundland:							
Base metal ores	ema.	10000 100	-	8,595	638,524	_	
IOVA SCOTIA:							
Base metal ores and Mint receipts	-	-	-	1, 433	91,886	_	
UEBEC:							
Belleterre Bevcourt Barnat Canadian Malartic Beattie — Duquesne Donalda East Malartic Elder Lamaque Malartic Goldfields O'Brien Powell Rouyn Heva Quesabe New Senator-Rouyn Sigma Stadacona Stullivan Consolidated	121, 224 98, 725 205, 856 469, 478 636, 206 139, 722 470, 462 139, 752 687, 980 635, 691 68, 355 158, 145 17, 515 15, 288 164, 846 415, 186 148, 675 220, 539	1,007 	120, 144 87, 395 205, 497 469, 478 636, 206 114, 704 470, 462 687, 980 635, 691 68, 403 307 	36, 496 13, 861 40, 546 37, 443 65, 906 19, 373 76, 295 22, 030 134, 021 112, 870 24, 334 19, 910 3, 418 3, 990 14, 073 76, 110 24, 732 45, 567	4,277 6,191 6,008 18,947 25,045 16,875 14,001 23,033 4,814 1,659 538 2,985 2,705 8,038 15,339 7,860	350 600 600 1, 300 1, 800 300 1, 500 200 450 400 600 1, 100 400	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Total for principal gold mines in Quebec	220, 539	40, 900	179, 559	770, 975	11, 217 169, 532	500	1
Copper-gold and other ores	_	_	_	342, 229	4,366,715	_	
Total Ouebec	-	_	_	1,113,204	4,536,247	-	
Porcupine District Aunor Bonwhit Broulan Reef Buffalo-Ankerite Coniaurum Deinite Dome Hallnor Hollinger-(Timmins) Hollinger-(Timmins) Hollinger-(Ross) Hugh - Pam McIntyre Pamour Paymaster Preston East Dome Kirkland Lake District	178,827 67,009 138,066 118,832 129,325 158,786 687,400 134,236 1,070,722 110,421 26,053 760,230 611,270 173,773 239,549	400	178, 827 67, 009 137, 666 117, 795 129, 325 158, 794 687, 400 134, 236 1, 068, 778 110, 331 26, 053 760, 230 611, 270 174, 454 239, 500	74, 347 25, 119 35, 040 18, 933 29, 669 52, 650 168, 795 51, 186 302, 421 21, 860 7, 862 211, 076 56, 430 39, 509 68, 341	5, 426 4, 157 1, 668 5, 088 4, 027 32, 411 3, 697 58, 805 33, 913 	300 	1 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Kirkland Lake Gold Lake Shore Macassa Sylvanite Teck Hughes Toburn Upper Canada Wright-Hargreaves Larder Lake District	120, 543 263, 595 139, 660 171, 745 218, 879 45, 052 177, 458 189, 770	3,752	120, 543 263, 595 139, 660 171, 868 218, 930 41, 300 177, 468 189, 770	44,828 89,887 44,640 54,250 40,359 15,143 49,021 79,253	3, 995 25, 495 7, 529 13, 523 9, 963 3, 065 21, 280 14, 026	400 1,500 400 600 600 175 475 1,200	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Chesterville Kerr Addison	179, 209 1,649, 794	_	179, 209 1,649,836	17, 579 348, 113	969 18.038	900 4,000	1
Matachewan District Matachewan Consolidated	164, 257 286, 677	_	164, 407 287, 265	14,669 25,475	7,341 5,091	1,000 1,050	1

Cyanidation
 Shipped to Powell Rouyn mill,
 Shipped to smelter,
 Amalgamation process,
 Shipped to Broulan Reef mill,

TABLE 8. Production of Gold and Silver by Principal Mines, 1952 - Concluded

ore dedied)	Gold produced	Silver produced	Mill capacity — 24 hours	See foot note
	Fine	ounces	Tons	
			200	
- 169,6	40,818	11, 225	450	1
	4.5	3/1		
806 36, 2 78 99, 6		902 2, 487	120 300	1,
- 411.7	777 65,049	6, 171	1, 200	1
112 13, 1	- 181 1,935	9 79	150 100	1 2
- 178, 9 - 67, 3		5, 389 1, 127	400 225	1,
856 56,3 - 304,2	5,847	2, 272 14, 689	400 800	1,
443 83, 2	288 21,460	5, 436	240	1
- 102, 4 - 6, 8	321 2.126	2, 618 239	280 150	1,
399 108, 3 - 155, 6	275 41,030 26,239	5, 782 5, 342	400 500	1.
-	- 2,468,962	407, 650	-	
-	- 44,729	6,083,474		
-	- 2,513,691	6, 491, 124	-	
175 540,0 - 194,6	52, 323	4,884 8,739	2,000 550	1,
-	23,733	398, 528	-	
and-	- 141, 947	412, 149		
-	93, 585	1, 179, 514	_	
-	- 111	10		
	4			
175,0	138 24, 574	2, 237	500 350	
- 45.3 - 127.5	274 18,098 539 52,072	2, 523 5, 778	150 325	1,
- 86,0	16,940	9,834	325	
_	- 216,099 - 14,172	38, 364 2, 253		
-	- 42, 788	7,744,347	-	
-	- 273, 059	7, 784, 964	-	
- 33,	282 36, 292	3, 395	100	1
	032 133, 146 - 11, 103	33, 342	700	1
-	- 247,581	59, 258	_	
_	- 78,519		~	
	- 33,	- 33, 282 36, 292 - 204, 032 133, 146 - 11, 103 - 247, 581 - 75, 519	- 33, 282 36, 292 3, 395 - 204, 032 133, 146 33, 342 - 11, 103 3, 289 - 247, 581 59, 258	- 33, 282 36, 292 3, 395 100 - 204, 032 133, 146 33, 342 700 - 11, 103 3, 289 247, 581 59, 258 75, 519 4, 028, 551 -

Cyanidation.
 Amalgamation process.
 Flotation process, concentrates exported.

TABLE 9. Gold Production of the World¹ - (Omitting Russia) - 1948-1952 (Taken from the Annual Report of the American Bureau of Metal Statistics)

Country	1948	1949	1950	1951	1952
	-		Fine ounces		
North America:	1	1	Î		
United States	2,099,178	1,996,435	2, 375, 130	1,996,493	1,937,818
Canada	3, 529, 608	4, 123, 518	4,441,227	4,392,751	4,471,939
Newfoundland Mexico	12. 252 J 339, 183	405,540	408, 112	393, 420	459, 391
Total North America	5, 980, 221	6, 525, 493	7, 224, 469	6, 782, 664	6, 869, 148
Central America and West Indies	270,000	242,000	180,000	150,000	125,000
South America:					
Brazil 2	130, 243	119,179	131,700	141,397	141,600
Chile	164, 126 335, 260	179,140 359,475	185,538 379,412	173,674 430,723	177,050 422,240
Colombia	70, 196	80, 982	83.071	0 + 0	
Peru	111.160	113,753	147,968	158,270	140,081
Gulana:					
British	16,518	21,098	13.740	14,689	24, 223
Dutch	4, 177	3.794	4, 546	6,494 12,056	7,234
FrenchVenezuela	13,625 49,730	14,757 61,377	12.249 34.462	2,861	4, 797
Other South America	14,700	21,500	14,000	16, 300	
Total South America	909, 735	975, 055	1,006,686	956, 464	
Ewope	300,000	400,000	400,000	400,000	
Australia:					
New South Wales	52,164	51.793	51,350	48,910	39, 191
Queens landVictoria	69, 646 68, 580	76.282 68.426	88.249 67.826	78, 580 66, 063	85,591 68,121
Western Australia	664, 986	648.426	610,333	648, 245	724,690
Tusmania	12,906	12, 152	15,578	14.446 39.307	16,072 45,723
Other Australia	17.226	31,979	36, 201		
Total Australia (Commonwealth)	885,507	889, 958	869, 537	895, 551	979, 38
New Guines	86, 556 93, 903	93,045 84,874	80.099 76.527	94.082 75.115	127, 43 59, 37
New Zealand	98,000	104,036	103, 421	94,000	
Asia:					
China	88, 200	60,000	108,000	100,000	
India	180,852	164, 151	196,848	226, 233 189, 000	252, 90
Japan Korea 3	69,060 3,466	84, 492 3, 418	132.332	1,000	
Philippines Republic	209, 225	287,844	333,991	393,602	
Saudi Arabia	73, 972	66,835	66, 202 104, 800	73, 104 128, 700	
Other Asia	235, 700	123, 200			
Total Asia	860, 475	789, 940	947, 317	1,111,639	
Africa:					
Bechuanaland	1.507	256	261	352,302	368, 749
Belgian Congo	299, 767 677, 480	333,847 681,721	339.408 695.457	697, 434	715,03
Ethiopia	41,595	45, 102	43, 200	33,000	
French Cameroons	10,719	8,931	7,169 54,996	5,420 52,848	2.60 51.53
French Equatorial Africa	63,715	57,259 20,072	24, 402	19,765	14,80
Liberia	13.797	14,656	11.025	9,822	
Madagascar	2,095	2,508	1,935	1,961 486,907	2,60 496,73
Tanganyika	514,440 57,557	528,180 68,989	511, 163 65, 127	65, 583	64,69
Transvaal Cane Colony, Natal	11,584,849	11.708.013	11,663,713	11,516,450	11,815,51
Aganda	21, 900	871 23,800	586 19,800	223	20
Total Africa	13, 313, 771	13,494,205	13, 438, 242		
			8,000,000	9,500,000	
Russia 5	7,000,000	7,000,000		3,000,000	
Total	29, 798, 168	30, 597, 706	32,326,298		

^{1.} In compiling this table, free use has been made of the reports of the United States Director of the Mint.
2. Mined gold only: production of alluvial gold unknown.
3. Beginning 1948 South Korea only.
4. Comprising Gold Coast, Sierra Leone and Nigeria.
5. As reported by Director of the Mint.

TABLE 10. Gold Production According to Method of Computation and Recovery, 1943-1952

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
	%	%	%	OK.	%	Fine Ounces
1943	1.45	78. 71	0. 19	15. 61	4.04	3,651,301
1944	1. 14	78.98	0, 12	15. 41	4.35	2, 922, 911
1945	1.55	76. 77	0.09	15.30	6. 29	2, 696, 727
1946	2. 15	80. 91	0. 16	13. 48	3, 30	2, 832, 554
1947	1.74	84. 4	0.15	9.41	4.3	3, 070, 221
1948	2. 23	83. 19	0. 22	10.01	4. 35	3, 529, 608
1949	2.35	83.94	0.23	9. 71	3. 77	4, 123, 518
1950	2. 43	81.51	0.38	12. 26	3.42	4, 441, 227
1951	2. 19	81.86	0.33	12. 20	3. 42	4, 392, 751
1952	2.08	83. 22	0.39	11. 37	2.94	4, 471, 725

Includes a small quantity of gold contained in shipments of gold ores, slags, etc., to Canadian smelters.
 Contains a small quantity of gold recovered from auriferous quartz ores.

TABLE 11. Estimated Average Monthly Value of an Ounce of Fine Gold, Expressed in Canadian Funds, 1939-1952

Month	1939	1940- 1945	1946	1947- 1948	19491	1950	1951	1952
				Dolla	rs			
January	35. 30	38. 50	38. 50	35.00	35. 00	36. 50	36. 81	35. 19
February	35. 19	38. 50	38. 50	35.00	35. 00	38. 50	36. 73	35.03
March	35. 13	38.50	38.50	35. 00	35.00	38. 50	36- 65	34. 85
April	35. 15	38.50	38. 50	35.00	35.00	38. 50	37. 07	34. 34
May	35.13	38.50	36. 50	35.00	35.00	38.50	37. 25	34. 43
June	35.07	38. 50	38.50	35.00	35.00	38. 50	37. 42	34. 26
July	35.06	38. 50	35.35	35.00	35. 00	38. 50	37. 12	33. 93
August	35. 01	38. 50	35. 00	35. 00	35. 00	38.50	36. 96	33.65
September	37. 21	38.50	35.00	35.00	36. 52	36. 50	36. 94	33. 59
October	38. 43	38. 50	35.00	35. 00	38. 50	36. 86	36. 78	33. 75
Vovember	38. 50	38. 50	35.00	35.00	38. 50	36. 43	36.53	34.17
December	38.50	38, 50	35.00	35.00	38. 50	36. 83	35. 89	33.97
Yearly average	36. 14	38, 50	36, 75	35, 00	36.00	38, 05	36, 85	34. 27

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

TABLE 12. Precious Metals Consumed by the Jewellery and Silverware Industry, 1949-1951

		Cost at	works	
Material	1949	1950	1951	1952
	\$	\$	\$	\$
Fine gold	5, 578, 690	8, 912, 334	7,999,071	4, 016, 040
Gold alloys	917, 037	1, 112, 829	724, 585	1, 117, 633
Fine silver	4, 618, 640	4, 403, 015	4, 222, 994	2, 966, 857
Silver alloys and sterling	4,095,635	3, 509, 982	3, 731, 996	2, 637, 240
Platinum	434, 730	523, 275	909, 699	710,611
Old gold, jewellers' findings, waste and scrap refining	2, 327, 295	2, 023, 129	2, 475, 768	1, 910, 567
Gold-filled wire and stock	235, 667	210, 835	152, 601	310, 413
Precious and semi-precious stones	2, 623, 763	2, 372, 374	2, 155, 727	2, 478, 179

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)

The Emergency Gold Mining Assistance Act of 1948 was primarily designed to assist the high cost or marginal gold mines to continue operations throughout the difficult post-war period. From mid-1946 onward the costs of production of the gold mining industry continued to increase although the industry, through technological advancements and greater efficiency, has attempted to keep these increases to a minimum. This industry was further handicapped in that the price received from the Royal Canadian Mint has remained unchanged at the equivalent in Canadian dollars of 35 United States dollars per ounce of gold produced. Owing, however, to the gradual appreciation of the Canadian dollar relative to the United States dollar the value received by the mines continued to decline until, during 1952, the average price received per ounce of gold was \$34.27.

Method of Calculating Assistance Payments

This Act defines a gold mine as a mine whose value of gold production for a designated year is 70 per cent or more of the total value of the products derived therefrom. In addition a mine must produce at least 50 troy ounces of gold in the designated year. No working is deemed to be a gold mine until it has developed ore reserves of commercial significance and there is a possibility of attaining production of gold on a commercial basis within a reasonable time.

The assistance payable to a mine is the product of the "rate of assistance" and the "assistance ounces". The "rate of assistance" is defined as 50 per cent of the amount by which the average cost of producing an ounce of gold exceeds a constant factor. This factor for the designated years 1948, 1949, and 1950, was \$18, with the maximum "rate of assistance" for these years of \$16. For 1951 and 1952 the factor was changed to \$22 with a maximum rate of \$11.50. The factor for the calendar year 1953 will be \$18 with a maximum "rate of assistance" of \$13.50. It may readily be seen that the rate of assistance applicable to a mine increases as costs of production at the mine rise, and that the high cost or marginal mines benefit accordingly up to the maximum "rate of assistance".

During the designated years 1948, 1949, and 1950, the term "assistance ounces" was defined as the number of ounces by which the number produced from the mine and sold in the designated year exceeded two-thirds of the number of ounces produced from the mine in the base year, or to one-third of the number of ounces produced and sold in

designated year, whichever was the greater. For the designated year 1951 and subsequent years the number of assistance ounces was increased by substituting the expression "one-half" for the expressions "two-thirds" and "one-third" in the foregoing definition. In the case of a new mine the rate of assistance applies to each ounce produced and sold during the first year of production.

In the case of old producing mines the "base year" was the period of 12 months ended June 30, 1947, or if the mine was idle during that period the "base year" was the period of 12 months beginning on the day that production was resumed after June 30, 1947. Section 4 (x), Income War Tax Act, or Section 74, Income Tax Act, determine when a new mine is deemed to come into production and the first year of production is the period of 12 months immediately following that date. In the case of new mines during the designated years 1948, 1949, and 1950, the "base year" was the first year of production. For the designated year 1951 and subsequent years, the expression "base year" in the case of mines whose first year of production commenced on or before January 1, 1950, means the calendar years 1948, 1949, or 1950, as the operator of the mine may elect, provided that in the year elected the mine was in production for at least 6 months, and where the mine was in production for less than 6 months in each of the said years, means the first period of 12 months following the first day of July, 1950, in which the mine was in production for more than 6 months. In the case of mines commencing production after January 1, 1950, the "base year" means the first year of production. For the purposes of the Act the cost of production of gold from a mine is the cost incurred by the operator properly attributable to the gold produced from the mine during the year. This includes mining, milling, smelting, refining, transportation, and administration costs; also amounts in respect of depreciation, amortization, and pre-production costs, deferred development expenses, and costs of exploration and development as determined in accordance with the regulations.

During the period September 20, 1949, at which time the Canadian dollar was devaluated, to September 29, 1950, when the dollar was freed from exchange control, the gold operators received \$38.50 per ounce of gold produced and sold to the Royal Canadian Mint, or \$3.50 per ounce more than when the Act came into force. To compensate for this increase, the assistance payable for the designated year 1950 was reduced by an amount equal to the product of \$3.50 and the assistance ounces that were deemed to have been produced during the first 9 months of 1950.

Regulations Governing the Sale of Gold on the Premium Market

Order in Council, P.C. 5774, October 26, 1951, which prescribed the Mint Customs Refining and Storing Regulations, extented to the gold mines the right to sell gold on the premium market subject to the Gold Export Act. The election to sell on the premium market may be made by the mine at the commencement of any quarter of the calendar year.

However, after the election has been made the mine must continue on this market until the end of that calendar year. A mine is not eligible for assistance under The Emergency Gold Mining Assistance Act for any period of the calendar year during which it has elected to sell gold on the premium market.

TABLE 13. Emergency Gold Mining Assistance Act - Estimated Assistance Payable

Province	1948	1949	1950	1951	1952
			Dollars		
Quebec	2,898,388	3, 470, 791	2,593,399	2,625,836	2,630,877
Ontario	5,010,619	5,868,450	4,015,799	5, 287, 134	5, 353, 941
Manitoba	159,681	784, 474	597,013	427,508	378,983
British Columbia	1,245,162	1,090,705	819,061	678,351	805, 263
Northwest Territories	919,418	968,846	146,777	943, 254	1,082,976
Yukon	285, 327	366,693	181,505	111,824	107. 014
Canada	10,518,595	12,549,959	8, 953, 554	10, 073, 907	10, 359, 054

THE ALLUVIAL GOLD MINING INDUSTRY

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

In 1952 a total of 92,843 troy ounces of fine gold were recovered from crude gold obtained from Canadian alluvial deposits. This represented a decrease of 3.7 per cent from the preceding year. Reviewing the past twenty years, it is noted that the peak of production of placer gold occured 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.

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 1952 were made chiefly from deposits located in the Atlin and Cariboo districts. Output was estimated at 14,172 fine ounces.

Yukon — About 80 per cent of the placer gold recovered in Canada during 1952 was found in the creeks of the Yukon. Production in 1952 totalled 78.519 fine ounces.

About 361 persons were employed in this industry in 1952 and their earnings amounted to \$1,638,672. The total number of man-hours worked in 1952 was 1,071,381.

TABLE 14. Summary Statistics for Alluvial Gold Mining, 1951 and 1952

		1951			1952	
	British Columbia	Yukon	Alberta, Northwest Territories ¹ and Quebec	British Columbia	Yukon	Alberta, Northwest Territories 1 and Quebec
Number of firms and individual operators ²	28	18	_	22	16	_
Number of employees	69	293	-	58	302	-
Salaries and wages paid\$	273, 236	1,279,867	-	190,528	1,447,584	-
Electricity generated for own use	120	1,517,100	-	1,555,223	_	-
Electricity generated for sale	"	-	-	-	_	_
Crude gold recovered 3 ounces	18,802	77,504	135	7,950	92,789	_
Quantity of material handledcu, yds.	335,487	7,266,422	-	270,656	6,727,353	-
Total gross value of alluvial products\$	695,719	2,871,860	4,937	485,674	2,690,846	5, 210
Fuel and electricity used\$	33,641	11,037	_	22,574	10,724	40sp
Process supplies used\$	84,320	423,510		13,931	403,222	_
Cost of freight and express on dust, nuggets, bullion, etc., shipped 3 \$	1,662	15, 349	-	492	48,540	-
Cost of smelter, refinery and mint treatment on material shipped \$	3,528	48, 127	_	1,605	17,690	-
Total net value of alluvial products \$	572,568	2, 373, 837	4,937	447, 072	2,210,670	5,210

^{1.} Represents receipts of fine gold at Dominion Assay Office, Vancouver, British Columbia, or Royal Canadian Mint, Ottawa, Ontario.
2. In addition to the number shown in the table, there are summarous small operators from whom returns were not obtainable.
3. Information not completely available.

TABLE 15. Alluvial Gold Recovered and Quantity of Material Handled 1, 1943-1952

		British (Columbia		Yukon				
Year	Material handled ²	Gold recovered	Ounces per	Value per cu. yd.	Material handled ²	Gold recovered	Ounces per cu, yd.	Value per cu. yd.	
	cu. yds.	Fine (ounces	S	cu. yds.	Fine o	ounces	\$	
1943	754,202	11,680	0.0156	0.6006	8,028,117	41,157	0.0051	0.1964	
1944	531,737	9,402	0.0177	0.6815	4,687,174	23,816	0.0050	0.1956	
1945	263,527	10,071	0.0382	1.4707	2,981,599	31,721	0.0106	0.4081	
1946	428,603	15,530	0.0362	1.3303	5,917,740	45,283	0.0076	0.2793	
1947	478,667	5,732	0.0120	0,4191	7,054,753	47,679	0.0067	0.2365	
1948	1,692,585	18, 133	0.0107	0.3750	7,813,449	60,606	0.0078	0.2715	
1949	1,696,363	14,497	0.0085	0.3074	9,263,700	81,970	0.0088	0.3185	
1950	494,066	14,632	0.0296	1.1263	7,860,497	93,339	0.0118	0.4490	
1951	335,487	18,802	0.0560	2.0636	7,266,422	77,504	0.0107	0.3942	
1952	270,656	7,950	0.0294	1.0075	6,727,353	92,789	0.0138	0.4729	

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

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

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

THE AURIFEROUS QUARTZ MINING INDUSTRY IN CANADA

The gross value of output or the entire auriferous quartz mining industry, including the value of all recoverable metals, totalled \$134.996.056 in 1952 compared with \$136,703,452 in 1951. The major producing provinces were Ontario with \$86,349,951, Quebec with \$26,931,337 and British Columbia with \$9,030,553.

The industry employed 20,757 persons to whom \$69,004,828 were distributed in salaries and wages. Fuel cost \$1,946,677 and 1,016,464,868 k.w.h. of electricity were purchased for \$5,645,302. Process supplies, which included explosives, chemicals, drill steel, etc., cost \$49,356,348. Canadian gold mining companies paid \$4,839,953 in taxes, and spent \$2,566,981 in prospecting and preliminary exploration of new areas or deposits.

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

TABLE 16. Principal Statistics for the Auriferous Quartz Mining Industry, 1951 and 1952

	Number of active opera- tors	Number of employees	Salaries and wages	Cost of fuel and purchased electricity	Cost of process supplies used?	Amount of freight, etc., paid on shipments of ore, slag, etc.	Smelter and refinery treatment costs	Gross value of bullion, ore, concen- trates or residues shipped from mines ³	Net ⁴ value o bullion, ore, concentrates or residues shipped from mines
					I	Dollars		1	
1951									
lova Scotia	1	1	500	10	7	-	-	627	610
uebec	100	4,902	14, 385, 596	1, 774, 022	6,440,390	253, 718	691,344	26, 433, 685	17, 274, 211
ontario	76	14,504	44, 887, 096	4, 409, 161	16,076,455	96, 107	648, 579	89, 603, 190	68, 372, 888
fanitoba	7	591	1,888,594	355,019	1, 202, 412	8,766	33,099	4,655,079	3,055,783
British Columbia	14	1, 291	3, 945, 706	422,987	2,086,671	188, 548	182, 231	8, 144, 954	5, 264, 517
Northwest Territories	5	837	3, 632, 039	830, 387	871.426	17, 501	55, 109	7, 865, 917	6,091,494
Canada	203	22, 126	68, 739, 531	7, 791, 586	26, 677, 361	564,640	1,610,362	136, 703, 452	100, 059, 503
Nova Scotia	1	2	2,500	20	10	_	_	34	4
Quebec	114	4,753	15,031,273	1,724,866	5, 214, 289	224, 166	564,570	26,931,337	19, 203, 446
Ontario	72	13, 269	44, 402, 133	4,318,676	16, 147, 324	94, 722	573, 139	86, 349, 951	65, 216, 090
Manitoba	4	505	1, 768, 995	334,643	1,052,070	8, 199	36, 308	4, 185, 345	2, 754, 125
British Columbia	18	1, 354	4,045,372	427, 606	2,030,236	86, 696	78,055	9,030,553	6, 407, 960
forthwest Territories	5	874	3, 754, 555	786, 168	1, 130, 940	18,302	61,545	8, 498, 836	6, 501, 881
Canada	214	20, 757	69, 004, 828	7,591,979	25, 574, 869	432, 085	1, 313, 617	134, 996, 05 b	100,083,506

Producing mines only; in 1950-92, in 1951-84, in 1952-85. Explosives, chemicals, etc. Value of bullion produced plus value of ore, concentrates, etc., shapped. Gross value less cost of supplies, fuel and electricity, treatment costs and freight.

TABLE 17. Principal Statistics Relating to Producers only in the Auriferous Quartz Mining Industry, 1952

Province	Number of pro- ducing plants or mines	Number of em- ployees	Salaries and wages	Cost of fuel and electri- city	Cost of process supplies used ¹	Value of freight paid on shipments of ore, slag, etc.	Smelter and refinery treatment costs ²	Gross value of bullion, ore, concen- trates or residues shipped from mines ³	Net 4 value of bullion, ore, concentrates or residues shipped from mines
			\$	\$	6	\$	\$	\$	\$
Quebec and Nova Scotia	20	4,491	14, 264, 510	1,644,949	5, 153, 208	224, 166	564, 570	26, 931, 371	19, 344, 448
Ontario	46	13, 183	44,071,176	4, 277, 844	16,044,749	94, 722	573, 139	86, 349, 951	65, 359, 497
Manitoba	3	504	1,767,495	334,643	1,052,070	8, 199	36, 308	4, 185, 345	2, 754, 125
Oritish Columbia	10	1,338	4,006,121	426,940	2,002,480	86,696	78, 055	9,030,553	6,436,382
Northwest Territories	5	873	3, 750, 955	785, 583	1, 130, 940	18,302	61,545	8, 498, 836	6,502,466
Canada, 1952	84	20,389	67, 860, 257	7, 469, 979	25, 383, 457	432, 085	1, 313, 617	134, 996, 056	100, 396, 918
Canada, 1951	84	21, 681	67, 370, 948	7, 658, 723	26, 477, 278	564, 640	1, 610, 362	136, 703, 452	100, 392, 449
Canada, 1950	93	21, 868	62, 888, 423	7, 706, 820	24, 384, 766	610, 849	2, 004, 281	144, 044, 607	109, 337, 891
Canada, 1949	103	21, 985	60, 296, 116	7, 219, 282	22, 997, 149	728, 210	1, 682, 920	129, 550, 461	96, 922, 900

Explosives, etc.
 Includes handling charges.
 Value of bullion produced, plus value of ore, concentrates, etc., shipped.
 Gross value less cost of fuel and electricity, process supplies, freight and treatment charges.

TABLE 18, Principal Statistics Relating to AH1 Gold Mines in Ontario, by Areas, 1950-1952

Camp or district	lumber of producers	Ore treated ²	Total gold recovered	Average ounces per ton recovered	Employees	Salaries and wages paid	Cost of fuel, electricity and process supplies
	No.	Tons	Fine o	unces	No.	\$	\$
10.6							
Percagane	16	4, 582, 185	1, 100, 098	, 24	7,063	20, 714, 637	10,013,774
Kirkland Lake	8	1,320,949	448, 391	. 34	2,948	8, 169, 677	3, 210, 275
arder Lake	2	1,903,733	341,081	. 18	1,069	3,039,920	1,653,243
Matache wan	2	564,816	50,048	.09	281	760,416	675, 665
Sudhury	1	157, 948	36, 930	, 23	249	672, 983	407, 284
Thunder Bay	1						
Rainy River and Kenora	6	627,771	131, 413	. 21	1,010	2, 892, 516	1, 351, 158
Patricia	10	1, 144, 500	336, 793	. 29	1,727	4,963,411	2, 487, 769
Total	45	10, 301, 902	2, 444, 754	. 24	14,347	41, 213, 560	19, 799, 168
1951				100			
Porcupine	16	4,397,8t6	1,062,951	. 24	7,472	22, 839, 455	10, 352, 507
(irkland Lake	8	1, 211, 485	454,986	. 38	3, 150	9, 657, 297	3, 250, 365
Larder Lake	2	1,926,655	352, 135	. 18	1.041	3, 306, 150	1, 766, 519
Matache wan	2	566, 346	41,984	.07	267	795, 705	637, 086
Sudhury	1	88, 736	23,717	. 27	191	573, 300	376, 557
Thunder Bay and Kenora	6	634,567	137, 328	. 22	767	2, 493, 313	1,360,678
Patricia	10	1, 158, 036	349,404	. 30	1,616	5, 221, 876	2,741,904
Total	45	9, 983, 641	2,422,505	. 24	14, 504	44, 887, 096	20, 485, 616
1952							
Porcupine	15	4, 601, 668	1, 163, 344	. 25	7, 065	23, 193, 774	10,779,648
Kirkland Lake	8	1, 323, 134	417, 382	. 32	2, 711	8, 765, 850	3, 252, 968
Larder Lake	2	1,829,045	366,046	. 20	995	3, 338, 263	1,729,928
Matachewan	2	451,672	40, 144	. 09	274	958, 415	753, 366
Suribury and Algoma	4	170, 149	41,016	. 24	163	489,940	547, 187
Thunder Bay	5	560,853	120,091	, 21	579	1,979,109	1, 165, 979
Painy River and Kenora	1	000,003	120,031	, 21	319	1,515,105	1, 105, 919
Pal(fela	10	996,011	321,763	. 32	1, 396	5,345,825	2,093,517
Total	46	9, 932, 532	2,469,786	. 25	13, 183	44, 071, 176	20, 322, 593

Includes employees, etc., for all active properties whether producing or not.
 Does not include low-grade discarded by sorting, but includes crude ore milled and smelled.

TABLE 19. Ores Mined and Treated by Auriferous Quartz Mining Industry, 1943-1952

Year	Ore hoisted	Ore milled 1	Crude ore shipped to smelters ²	Low-grade sorted out	Tailings re-treated	Gold recovered as bullion	Gold in crude ore shipped	Gold in concentrates slag, etc., shipped
			Tons				Fine ounces	
1943	12, 853, 610	12, 206, 518	268, 334	361,522	29,716	2,869,635	36,429	109,055
1944	10, 790, 495	10, 330, 899	205, 379	234, 820	18, 233	2, 300, 090	26, 535	103, 946
1945	9, 780, 555	9, 437, 796	177, 208	136, 328		2, 068, 910	27,019	109, 487
1946	10, 712, 615	10, 306, 720	146, 075	229, 237		2, 289, 647	19, 532	71, 819
1947	11, 632, 841	11, 296, 610	146, 469	205, 250	1,376	2, 590, 589	19, 001	109, 826
1948	13,630,705	13, 110, 271	224, 123	224, 374	537	2, 934, 160	29, 143	114, 378
1949	15, 999, 866	15, 374, 803	243, 137	184, 373	112	3,423,303	34, 405	143, 274
1950	16, 980, 027	16, 297, 461	315, 390	206, 797	-	3, 630, 358	46, 202	98, 804
1951	16, 548, 264	15, 907, 335	311, 324	171, 137	andro	3, 572, 655	41,549	84, 812
1952	16, 496, 218	15, 991, 130	307, 464	145, 999	312	3, 757, 513	41, 943	72, 285

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

TABLE 20. Ores Mined and Milled, Crude Bullion Recovered, and Crude Bullion and Concentrates Shipped in the Auriferous Quartz Mining Industry, 1952

	Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories	Canada
							-100
Number of producing mines	1	19	46	3	11	5	85
Ore minedto	ons –	4, 813, 647	10, 032, 125	738, 681	505,020	406, 745	16, 496, 218
Material discarded (sorted)	" -	73,978	31,846	40, 175	-	-	145, 999
Ore milled (ground, etc.)	-	4,413,033	9, 932, 320	734, 619	505,020	406, 138	15, 991, 130
Tailings re-treated		_	312	-	-	-	312
Gold content of ores, slags, residues and concentrates shipped:							
To foreign smelters fine of	unces -	-	_	_	67, 652	_	67, 652
To Canadian smelters		41,887	3, 654	797	238	_	46, 576
Bullion bars shipped;							
Gold content fine o	ounces 1	730, 345	2,581,364	118, 214	195, 625	247, 160	3, 872, 709
Silver content	1.	167, 311	382, 962	13,623	36, 302	59,578	659,776
Content of hullion bars produced:							
Gold fine o	ounces 1	730, 868	2, 465, 467	118, 214	195,625	247, 338	3, 757, 513
Silver	1	167,034	406, 504	13,623	36,302	59, 191	682, 654
Gold value	\$ 34	25, 370, 221	65, 887, 828	4, 144, 824	6, 668, 587	8, 449, 950	130, 521, 444
Silver value	\$ 1	128, 700	335, 204	11, 295	30, 184	48, 886	564, 269
Value of ores, concentrates, slags and residues sold (shipped)	-	1, 422, 416	126, 919	29, 226	2, 331, 782	_	3, 910, 343
Total gross value of production	\$ 34	26, 931, 337	86,349,951	4, 185, 345	9, 030, 553	8, 498, 836	134, 996, 056
Value of fuel, ejectricity and process supplies used, also freight on ship- ments, marketing, smelter and refinery							24 540
charges	\$ 30	7,727,891	21, 133, 861	1, 431, 220	2,622,593	1,996,955	34, 912, 550
Net value of production	\$ 4	19, 203, 446	65,216,090	2, 754, 125	6, 407, 960	6, 501, 881	100,083,506

^{1.} Not recorded.

TABLE 21. Ores, Concentrates, Slags, etc., Shipped to Smelters from Canadian Gold Mines, 1943-1952

	Ore	s	Concer	itrates	Slags, residues, precipitates		
Year	Tons	Gold content- fine ounces	Tons	Gold content- fine ounces	Tons	Gold content- fine ounces	
To Canadian Plants							
1943	268,334	36,429	4,490	12,335	311	2,069	
1944	205,379	26,535	4,835	11,900	143	1,858	
1945	177,099	26,834	5,474	13,903	647	1,832	
1946	146,075	19,532	5,155	10,646	314	2,359	
1947	146,469	19,001	2,538	5,313	296	1,961	
1948	223,834	28,997	630	2,192	248	2,860	
1949	243,121	34,114	325	1,196	253	3,690	
1950	294,387	45,215	_	_	153	5,220	
1951	296,341	41,398	_	9	349	7,245	
1952	298,207	41,908	20	241	91	4,427	
To Foreign Plants							
1943		-	20,615	59,949	40	34,704	
1944	_	-	20,755	54,233	73	35,955	
1945	109	185	19,596	49,193	47	44,559	
1946	_	_	11,969	49,164	25	9,650	
1947	-	-	25,765	67,929	32	34,572	
1948	289	6,400	24,446	64,531	36	44,795	
1949	16	291	25,331	69,935	29	34,048	
1950	51	987	20,471	53,811	15	39.773	
1951	34	151	14,303	37,360	29	40,126	
1952	1	35	9,125	24,085	20	43,532	

TABLE 22, Shipments from Auriferous Quartz Mines, 1951 and 1952

				Total gross me	etal content		
	Quantity	Gold	Silver	Copper	Lead	Zinc	Other
	Tons	Ounc	es		Pour	nds	
1951							
To Canadian smelters:							
Gold are	296,341	41,398	72		169	793	_
Gold concentrates	-	9	1	-	-	-	_
Slags, precipitates, residues	349	7,245	11,481	9,871	-	-	-
To foreign smelters;							
Gold ore	34	151	79	-		_	_
Gold concentrates	14,303	37,360	7,250	146,112	_	_	-
Slags, precipitates, etc.,	29	40,126	3,019	-			
Arsenical material	268	72	-	_		-	2251
Total	311,324	126, 361	21,902	155, 983	169	793	_
1952							
To Canadian smelters:							
Gold ore	298, 207	41,908	45	386	_	111	-
Gold concentrates	20	241	373	-	-	_	
Slags, precipitates, residues	90	3,545	5,875	1,322	8,231		_
To toreign smelters:							
Gold concentrates	9,125	24,085	6,230	192,252	_	-	_
Slags, precepitates, residues	21	44,414	115		-	-	_
Gold ore	1	35	50	-	-	-	
Total	307,464	114,228	12,688	193,960	8,231	111	**

^{1.} Tons of arsenlous oxide.

TABLE 23. Certain Data Relating to the Production of Gold by the Entire Auriferous Quartz Mining Industry, 1943-1952 (Averages)

Year	Average ounces of gold pro- duced per wage-earner	Cost of fuel and electricity per ounce of gold produced	Cost of wages per ounce of gold produced	Cost of explosives and other process supplies used, per ounce of gold produced	Cost of freight and smelter refinery treatment on ores and builion shipped, per ounce of gold produced	Taxes per ounce of gold produced	Total of specified costs
	Ounces	\$	\$	\$	\$	\$	\$
1943	177	2.12	11.47	4.24	0.69	4.89	23,41
1944	159	2.43	12.81	4.60	0.81	4.15	24,80
1 945	140	2.45	14.08	5,09	0.74	3.74	26.10
1946	122	2,63	16.77	6.05	0.59	3,08	29.12
1947	132	2.62	17.28	6,56	0.52	1,93	28.91
1948	151	2, 27	16.82	6.35	0,57	1.47	27.48
1949	176	2, 05	15.03	6,52	0,68	1,73	26,01
1950	186	2.08	14.83	6.55	0.69	2.08	26.23
1951	193	2.11	15,60	7.21	0.59	2.19	27.70
1952	209	1.96	15.19	6.60	0.45	1.84	26.05

Note. The data contained in the foregoing table have been compiled from reports received from both producing and non-producing (exploring and developing) operators in the auriferous quartz mining industry. The trends should not be interpreted as entirely reflecting operations of producing mines only, but rather as indices of change in the industry as a whole. For data relating to producers only, see Table 24.

TABLE 24. Certain Data (Averages) Relating to the Total Production of Gold by Producers Only, in the Auriferous Quartz Mining Industry, 1943-1952

Үеаг	gold pro- duced per per ounce of gold		wages per ounce of	Cost of explosives and other process supplies used, per ounce of gold produced	Cost of freight and smelter refinery treatment on ores and bullion shipped, per ounce of gold produced	Taxes per ounce of gold produced	Total of specified costs
	Ounces	\$	\$	\$	\$	\$	\$
1943	177	2,12	11.42	4.23	0.69	4.89	23.35
1944	163	2.41	12.59	4.57	0,81	4.12	24.50
1945	151	2,34	13,17	4,97	0.74	3.68	24.90
1946	141	2.35	14.38	5.69	0.59	2.99	26.00
1947	148	2.29	15.20	6.10	0.52	1.86	25.97
1948	159	2.14	16.00	6.20	0.57	1.41	26.32
1949	179	2.02	14.83	6.45	0.68	1.71	25.69
1950	191	2.04	14.50	6.46	0.69	2.06	25.75
1951	197	2.07	15.31	7.16	0.59	2,17	27.30
1952	212	1.93	14.97	6.47	0,46	1.82	25, 65

TABLE 25. Gold and Silver Content of Bullion Produced and of Ores, Concentrates, etc., Shipped, With Average Grade of Ore Shipped and Ore Milled at Auriferous Quartz Mines, and the Average Price of Gold and Silver in Canadian Funds, 1943-1952

Year	Tonnage treated ^{1,3}	Gold content ²	Silver content ²	Ounces of fine gold per ton	Ounces of fine silver per ton	Average price of gold	Average price of silver
		Fine ounces				\$ per	OZ.
1943	12,474,852	3,015,119	1,399,778	. 24	.11	38,50	0.452
1944	10,536,278	2,430,571	906,788	. 23	. 09	38,50	0,430
1945	9,615,004	2,205,416	1,205,147	. 23	.13	38,50	0.47
1946	10,452,775	2,380,998	1,025,619	. 23	.10	36.75	0.836
1947	11,443,079	2,719,416	845,749	. 24	. 07	35,00	0.72
1948	13,334,931	3,077,681	1,044,912	, 23	.08	35.00	0.75
1949	15,617,940	3,566,577	682,569	.23	.04	36.00	0.743
1950	16,297,461	3,775,364	715,991	. 23	.04	38.05	0.808
1951	15, 907, 335	3,699,016	658,719	.22	. 04	36.85	0,945
1952	16,289,337	3,871,741	695,342	. 24	. 04	34.27	0.835

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

3. Material discarded by sorting not included.

TABLE 26. Specified Costs per Ton of Ore Milled at Certain of the Principal Auriferous Quartz Mines, 1952

	Name of mine	Develop- ment and explora- tion 1	Mining	Milling	General ²	Total before deprecia- tion and taxes	Depre- ciation	Taxes	Total costs
			1		Do	llars			
GREBEC:									
Belleter Beattle- Bevcour Canadia Donalda East Ma Elder Mi Lamaque New Ser O'Brien Sigma M	dines Ltd. re Quebec Mines Ltd. Duquesne Mines Ltd. t Gold Mines Ltd. Mines Ltd. Mines Ltd. lartic Mines Ltd. e Mining Co. Ltd. lattor Rouyn Ltd. Gold Mines Ltd. mines Ltd. e Mining Co. Ltd. lattor Rouyn Ltd. ines (Quebec) Ltd. ma Mines (1944) Ltd.	0.85 0.132 0.574 0.443 0.636 0.582 0.089 1.05 0.52 1.19	2. 51 7. 06 2. 329 1. 586 1. 398 3. 882 2. 966 2. 666 3. 43 2. 97 7. 82 3. 012 1. 97	1. 02 1. 66 0. 972 1. 099 0. 712 1. 732 0. 778 1. 289 0. 96 0. 89 2. 21 0. 790 0. 94	1. 03 0. 27 0. 451 1. 168 0. 372 0. 656 0. 448 0. 635 0. 15 0. 13 2. 97 0. 494 1. 05	5.60 9.84 3.884 4.427 2.925 6.897 4.774 4.679 5.59 4.51 14.19 5.413 5.03	0. 28 	0.18 0.21 0.020 0.062 0.976 0.115 	5. 78 10. 33 3. 90 4. 42' 3. 16: 8. 84 5. 80' 5. 35' 6. 20 4. 84 14. 44 5. 82' 5. 76
)NTARIO								}	
	Porcupine District								
Bonwhit Broulan Buffalo Conjauri Hallnor Hollinge Molntyre Pamour	old Mines Ltd. Mines Ltd. Reef Mines Ltd. Ankerite Gold Mines Ltd. am Mines Ltd. wr Consolidated (Timmins) ar Consolidated (Ross) Porcupine Mines Ltd. Porcupine Mines Ltd. East Dome Mines Ltd.	0.91 1.62 0.737 1.88 0.95 0.599 0.772 1.10	7. 68 2. 61 3. 42 4. 061 4. 75 4. 33 5. 481 2. 982 6. 39 1. 92 5. 248	1. 44 1. 05 1. 07 1. 414 1. 13 1. 51 1. 030 2. 141 1. 11 0. G8 1. 065	1.03 1.25 1.52 0.567 1.46 1.06 1.481 0.999 0.20 0.30 0.677	11.56 5.82 7.63 6.779 9.22 7.85 8.591 6.894 8.80 3.56 9.182	0. 89 	0.59 0.06 0.001 0.09 2.23 0.471 0.018 0.86 0.03 0.109	13. 04 5. 82 8. 46 7. 00' 9. 44 10. 18 9. 33 7. 05! 9. 78 3. 65 9. 52!
	Kirkland Lake District								
Teck-Hu Toburn C Upper C	Mines Ltd. Jighes Gold Mines Ltd. Gold Mines Ltd. anada Mines Ltd. argreaves Mines Ltd.	0. 65 0. 88 2. 14	6. 965 3. 32 7. 21 3. 92 7. 779	1. 498 1. 26 2. 60 1. 22 1. 459	0.863 0.43 2.74 1.03 2.156	10. 642 5. 66 13. 43 8. 31 11. 394	0. 236 0. 02 - 0. 49 0. 111	0.090 0.05 0.06 0.931	10, 961 5, 73 13, 43 8, 86 12, 43
Chester Kerr Ado	Larder Lake District ville Mines Ltd,	0.94	1.84 1.5G	1. I1 0. 7 9	0. 40 0. 27	3.35 3.56	0.46	I. 32	5. 34
	Matachewan District								0. 80
	ran Consolidated Mines Ltdr Consolidated (Young Davidson)		1.441	0, 869 0, 800	1. 147 0. 385	3. 457 3. 176	0.160 0.025	0. 164 0. 071	3. 78
	Thunder Bay District								
Little L	Gold Mines Ltd. ong Lac Gold Mines Ltd. 1-Cockshutt Gold Mines Ltd.	0. 21	1 2. 46 5. 38 2. 033	4.41 1.81 1.159	0. 26 1. 45 0. 7 53	20. 22 8. 85 4. 383	1. 48 0. 10 0. 311	0.02 0.062	8. 97 4. 75
	Patricia District	1 001	2.054	0.050	0.070	0.155	0.495	0.205	10 01
Cocheno Hasaga Madsen McKenz New Dio Pickle (l Red Lake Mines Ltd. bur Willans Gold Mines Ltd. Gold Mines Ltd. Red Lake Gold Mines Ltd. ie Red Lake Gold Mines Ltd. ie Red Lake Gold Mines Ltd. kenson Mines Ltd. Crow Gold Mines Ltd. Olsen Gold Mines Ltd.	5.686 0.778 1.961 1.884 1.09 1.146	3.054 8.885 2.375 2.593 4.440 4.08 6.092 2.273	2. 250 4. 528 1. 111 1. 148 1. 662 2. 22 1. 725 1. 390	0. 970 3. 011 1. 086 0. 74 1. 393 2. 73 1. 357 0. 280	8. 155 22. 110 5. 350 6. 442 9. 560 10. 12 10. 32 4. 755	2. 427 3. 527 0. 897 0. 59 0. 803 2. 57 0. 592 2. 110	0. 235 0. 946 0. 30 0. 19 0. 712	10. 81° 26. 58° 6. 24° 7. 33° 10. 36° 12. 88° 11. 62° 6. 86°
British (Columbia:							1	
Cariboo Island N	Mines Ltd, Gold Quartz Mining Co, Ltd, Jountain Mines Co, Ltd, Gold Mines of B,C, Ltd,	3.01 3.75	6. 74 8. 91 9. 41 11. 28	1. 20 2. 82 2. 85 2. 83	2. 75 0. 49 0. 13 1. 40	12.68 15.23 16.14 15.72	0.77	0. 20	13.45 15.23 16.14 16.62
ORTHWE	est Territories:								
Consoli	dated Mining & Smelting Co. dated Discovery Yellowknife Mines Ltd ellowknife Gold Mines Ltd	5. 45	7. 01 8. 29 4. 09	4.33 4.79 4.28	2.64 7.90 3.37	15.99 26.43 14.96	7. 07 7. 81	=	15.99 33.50 22.77

Exclusive of outside exploration.
 Marketing, head office, etc. (exclusive of taxes).
 Included in mining costs.

TABLE 27. Milling Capacity of Operating Canadian Gold Mines, 1943-1952

Year	Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories	Canada			
	Tons of 2,000 pounds per 24 hours									
1943 1944 1945 1946 1947 1948 1949 1950 1951	280 180 187 172 50 25 	13, 304 13, 059 12, 600 12, 035 13, 010 12, 395 13, 460 12, 400 12, 825 13, 600	32, 555 30, 710 30, 457 30, 370 29, 430 29, 990 33, 150 33, 175 33, 998 33, 099	753 550 550 550 550 700 2, 700 2, 700 2, 695 2, 550	2, 845 2, 650 2, 740 3, 052 3, 235 2, 550 2, 690 2, 125 1, 950 1, 650	510 66 417 417 467 1,150 1,135 785 1,105 1,380	50, 249 47, 215 46, 951 46, 596 46, 742 46, 785 53, 160 51, 185 52, 573 52, 279			

TABLE 28. Employees and Earnings in the Entire Auriferous Quartz Mining Industry, 1951 and 1952

		Numb	er of emplo	yees			Earnings	
Province	Adminis		Work	men	Total	Administrative and	Workmen	Total
	Male	Female	Male	Female		office	77777	1 00000
1951						\$	\$	\$
Nova Scotia	482 1.969 74 138 114	- 34 120 14 20 6	1 4, 364 12, 384 487 1, 117 717	22 31 16 16	4.902 14.504 591 1.291 837	1, 962, 981 7, 739, 928 340, 943 508, 821 475, 672	12, 422, 615 37, 147, 168 1, 547, 651 3, 436, 885 3, 156, 367	14, 385, 59 44, 887, 096 1, 888, 59 3, 945, 70 3, 632, 034
Canada	2, 777	194	19, 070	85	22, 126	11, 028, 345	57, 711, 186	68, 739, 53
1952								
Nova Scotia Quebec Ontario Manitoba British Columbia Northwest Territories	484 1, 202 61 115 143	37 115 14 19 13	4, 209 11, 924 416 1, 202 709	23 28 14 18	4, 753 13, 269 505 1, 354 874	2. 098, 295 6, 528, 195 332, 079 455, 881 778, 952	2, 500 12, 932, 978 37, 873, 938 1, 436, 916 3, 589, 491 2, 975, 603	2,500 15,031,273 44,402,133 1,768,995 4,045,372 3,754,555
Canada	2, 005	198	18, 462	92	20, 757	10, 193, 402	58, 811, 426	69, 004, 828
						195	1	1952
fan-hours worked: Administration and office	20 2440 2021 2000 40 40 20 20 20 20 20 20 20 20 20 20 20 20 20	5 dd dw 5 0 0 0 1 w 5 a da g e dd be 7 0 0 y 6 0 0 1 da 5 b 0 1 0 e ae da	- 0-0 km ka 0-0 km p+ 11+12+11			7 45.	214.356 010,367	5, 004, 901 43, 218, 353
Total						52.	224, 723	48, 223, 254

Note. In addition to the above there were 162 in 1950 and 231 in 1951 administration and office employees at head offices or any other places in Canada, except at mines or mills; their salaries and wages totalled \$778,275 in 1950 and \$1,022,089 in 1951.

TABLE 29. Workmen, by Months, in the Entire Auriferous Quartz Mining Industry, 1948-1952

Month	1948	1949	1950	1951	1952
		·	Number		
January	20, 867	20, 237	20,388	20, 181	19.304
Pebruary	20,559	20, 058	20, 295	19, 726	19, 17;
Aarch	20, 387	19, 993	20, 163	19,547	18, 98
April	20, 211	19, 651	20,050	19, 120	18, 710
lay	20, 203	19, 993	20, 163	18, 568	18, 55
une	20,530	20, 100	20, 564	18, 479	18, 47
uly	20, 637	20, 173	20, 294	18, 387	18, 48
ugust	20, 312	20, 292	19,981	18, 453	18, 17
eptember	20, 031	20, 490	19, 878	17, 987	18, 19
october	20, 276	20, 667	20, 192	18, 596	18, 29,
lovember	20, 464	20, 764	20, 297	18, 837	18, 13
December	20.315	20, 361	20, 025	18, 482	17, 75

TABLE 30. Workmen in Producing Lode Gold Mines, by Provinces, 1951 and 1952

Month	Quebec		Ontario		British Columbia		Other districts and provinces		Canada	
	1951	1952	1951	1952	1951	1952	1951	1952	1951	1952
					Nun	ber				
January	4,344	4,219	12,954	12,278	1,227	1,283	1,275	1,287	19,800	19,067
February	4,304	4,211	12,817	12,212	1,173	1,247	1,256	1,240	19,350	18,910
March	4,212	4,186	12,642	12,124	1,133	1,233	1,193	1, 177	19,180	18,720
April	4,106	4,131	12,464	12,028	1,011	1,168	1,171	1,131	18,752	18,458
May	3,993	3, 958	11,923	11,930	1,049	1, 194	1,160	1,130	18, 125	18, 212
June	3,957	3,928	11,886	11,902	1,040	1, 189	1, 165	1,129	18,048	18,148
July	4,027	3,897	11,655	11,860	1,098	1,252	1,208	1,138	17,988	18,147
August	4,112	3,917	11,646	11,617	1,146	1,222	1,195	1,085	18,099	17,841
September	3,993	3,948	11,397	11,640	1, 130	1,193	1,164	1,108	17,684	17,889
October	4,198	3,996	11,761	11,687	1,144	1,194	1,230	1,170	18,333	18,047
November	4,342	4,018	11,830	11,658	1,152	1,174	1,277	1,103	18,601	17,953
December	4,203	3,882	11,648	11,547	1,175	1,209	1,279	1,065	18,305	17,703

TABLE 31. Classification of Workmen Employed in Entire Auriferous Quartz Mining Industry, 1951 and 1952

		19	951		1952				
	Mine					Mine			
Province	Surface		Under- ground	міп	Surface		Under- ground	Mill	
	Male	Female	Male	Male	Male	Female	Male	Male	
	Number								
Nova Scotia	1	-	-	_	2	-	_	_	
Que bec	1,073	22	2,921	370	1,034	23	2,816	359	
Ontario	3,159	31	8,158	1,067	3,023	28	7,864	1,037	
Manitoba	137	16	297	53	117	14	250	49	
British Columbia	243	16	745	129	245	18	827	130	
Northwest Territories	254	-	383	80	239	9	389	81	
Canada	4,867	85	12,504	1.699	4.660	92	12, 146	1,656	

TABLE 32. Cost of Prospecting Conducted by Canadian Auriferous Quartz Mining Companies, 1951 and 1952

Province in which prospecting was conducted ¹	By Nova Scotia and Quebec companies ²	By Ontario Companies ²	By Manitoba companies ²	By British Columbia companies ²	By Yukon and Northwest Territories companies	Total
			Doll	ars		
1951			1	t	1	
Newfoundland	_	400		_	_	400
Nova Scotla	50	_	_ [_ [50
New Brunswick	33,307	1,366	-		_	34,673
Quebec	839,847	139, 457		_	_	979,304
Ontario	409,274	575,664		500	_	985,868
Manitoba	2,013		430	num .	- 1	30,507
Saskatchewan	77, 453	47	28,494		-]	77,500
British Columbia	74,564	600	0.00	217, 280	- 1	292, 424
Northwest Territories	739	-		- 1	12.539	13,278
Yukon	_	_	-	-	-	
Total Canada	1, 437, 247	717, 534	28, 924	217, 760	-	2,414,004
1952						
Newfoundland	125,010	498	_	_	_	125,508
Nova Scotia	310	2,893	_		460	3,203
New Brunswick	36, 205	150	1,839		_	38, 194
Quebec	774,980	186,130	_		- 1	961,110
Ontario	232, 813	691,577	2,009	- 1	- (926, 399
Manitoba	1,400	34,407	26,727	-	-	62,534
Saskatchewan	42,945	2,791	-	-	_	45,736
British Columbia	42,936	49,878	-	285, 132	-	377,946
Northwest Territories	12,211	929			-	13,140
Yukon	9,861	3,350	-	-	-	13,211
Total Canada	1, 278, 671	972, 603	30, 575	285, 132		2, 566, 981

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

TABLE 33. Drilling Completed on Auriferous Quartz Deposits, 1950-1952

		Footage drilled !	
	1950	1951	1952
Diamond drilling for exploration (testing):	7-1-		
By companies with their own equipment and personnel	525, 482	902.947	879.654
By contractors	2, 261, 988	1,405,308	1, 299, 238
Other drilling:			
Diamond drilling for breaking rock of ore:			
By companies with their own equipment and personnel	272, 281	238, 769	804,879
By contractors	580, 514	378, 230	342.951
Drilling by percussion and other machines 2	36, 580, 081	32,746,954	35.750.544

Subject to revision as drilling was not reported by some new companies.
 This is not complete as some companies do not compile these data.

Note. The value of diamonds in all forms (bits, etc.) puchased by gold mining companies in 1952 totalled \$407,119.

TABLE 34. Specified Taxes Paid by Active Canadian Auriferous Quartz Mines, 1951 and 1952, by Provinces 1

Nature of tax	Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories	Canada
				Dollars			
1951			1				
Dominion Income Tax, including tax on non-operating revenue	_	51 9, 281	4, 463, 765	160,812	140.710	_	5, 284, 568
Provincial taxes	30	329, 232	1,684.085	60.078	66. 201	30,808	2,170,434
Municipal taxes	-	243, 411	293, 292	12,451	27, 799	61.337	638, 290
Total	30	1, 091, 924	6, 441, 142	233,341	234, 710	92, 145	8, 093, 292
1952							
Dominion Income Tax, including tax on non-operating revenue	_	389, 295	4, 340, 801	106, 986	2,871		4. 839. 953
Provincial taxes	20	268, 237	1.280.042	30,909	28.815	18.006	1.626.029
Municipal taxes	-	266, 133	294, 490	12, 451	31,622	48, 821	653.517
Total	20	923, 665	5, 915, 333	150, 346	63, 308	66, 827	7, 119, 499

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

TABLE 35. Certain Specified Expenditures Made by Auriferous Quartz Mining Companies, 1950-1952

Province and year	Workmen's compensation	Silicosis assessment	Unemployment insurance	Aggregate cost of all supplies purchased	Aggregate cost of plant and equipment purchased	Cost of build- ings, machinery and equipment, erected or installed
NEW TOTAL			Dolla	S		
Nova Scotia:						
1950	-		-	-	-	_
1951	_	-	-	_	_	_
1952	-	-	A	-	_	20
Quebec:						
1950	473,158	739	112.708	9, 883, 566	1.159.285	1.628.783
1951	578, 308	1,253	115, 215	10, 283, 038	1.183.294	2, 608, 763
1952	467, 677	954	122, 470	10.143,316	1.753.248	2,173,542

TABLE 35. Certain Specified Expenditures Made by Auriferous Quartz Mining Companies, 1950-1952 - Concluded

Province and year	Workmen's compensation	Silicosis assessment	Unemployment insurance	Aggregate cost of all supplies purchased	Aggregate cost of plant and equipment purchased	Cost of build- ings, machinery and equipment, erected or installed
			Doll	lars		
Ontario:						
1950	1, 217, 855	620, 405	319,773	25, 488, 447	2, 229, 828	3, 793, 710
1951	1, 144, 597	884, 409	348,625	26, 136, 870	1,798,247	3, 069, 373
1952	1.113,969	884,000	339,057	24,654,788	1.492,149	3, 100, 314
Manitoba:						
1950	52, 749	3,604	15,063	1,990,148	24,668	335, 312
1951	48,799	-	14, 325	1,804,342	28,026	134, 376
1952	38, 561		12,716	1, 523, 533	18, 255	105, 326
Saskatchewan:						
1950	_	_	_	_	_	_
1951	-	_	_	-	_	_
1952	-	-	-	-	_	_
British Columbia:						
1950	176,912	81,040	25,611	1,829,916	716,721	375, 176
1951	145, 224	80, 140	31, 391	478,964	2, 177, 309	206, 269
1952	143, 554	78, 320	26,806	2, 148, 516	120,273	197,974
Northwest Territories:						
1950	55, 575	200	11,729	3,032,541	1,068,383	1, 569, 871
1951	61,842	200	14, 155	3, 240, 175	1,031,743	1,742,468
1952	70,576	-	11,691	3, 228, 871	950, 196	988,933
Total Canada:						
1950	1, 976, 249	705, 988	484, 884	42, 224, 618	5, 198, 885	7, 702, 852
1951	1, 978, 770	766, 002	523, 711	41, 943, 389	6, 218, 619	7, 761, 269
1952	1,834,337	763,274	512, 740	41, 699, 024	4, 334, 301	6, 566, 109

THE COPPER-GOLD-SILVER MINING INDUSTRY

The mining of "copper-gold-silver" ores in Canada during 1952 was confined to the provinces of Quebec, Ontario, Manitoba, Saskatchewan and British Columbia. It is to be noted that in addition to the copper recovered from ores of this type there is a very large quantity of the metal obtained in the smelting and refining of the copper-nickel ores mined in the Sudbury area of Ontario; important quantities of gold and silver are also being extracted from these copper-nickel ores. The lead-zinc-copper ores of Newfoundland also contribute to the production of copper, gold and silver. General statistics relating to labor, etc., in the nickel-copper or the silver-lead-zinc industry are not included in this report.

Some firms which were formerly included in this industry have been reclassified to the silver-lead-zinc mining industry. Their production of zinc had a greater value than the value of copper.

During 1952 the gross value of crude ore, concentrates, etc., shipped from the mines and mills in this industry to smelters was estimated at \$115,667,391. Fuel cost \$986,206 and 356,896,544 k.w.h. of electricity was purchased for \$1,372,714. Process supplies, freight and treatment charges

amounted to \$32,639,654. Employees numbered 7,210 to whom \$26,711,225 were distributed as salaries and wages.

The gross value of ores shipped by firms which both mine and smelt their own ores is sometimes not reported. This necessitates considerable estimating in determining gross and net values for mine shipments. However, possible abnormal evaluations resulting from this are largely compensated for in determining the value added at the smelters and refineries. This added value is credited to the nonferrous smelting and refining industry and is also included in the total net value of production of the entire Canadian mining industry. This fact should be noted in making any statistical study of the annual production values shown for shipments from copper-gold-silver mines.

The statistics as herein shown under the coppergold-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 non-ferrous smelting and refining industry.

TABLE 36. Principal Statistics 1 of the Copper-Gold-Silver Mining Industry 1943-1952

Year	No. of active operators ²	No. of operating plants or mines ²	Number of employees ²	Salaries and wages ²	Cost of fuel and electricity ²	Value of orus and concen- trates shipped by mines ³
				\$	\$	\$
1943	20	22	5,748	11,806,827	1,426,710	43,840,679
1944	23	26	5, 175	10,710,071	1,402,243	38, 198, 039
1945	38	41	4,658	9,663,612	1, 175, 916	38, 165, 269
1946	42	44	4,958	10, 244, 487	1, 152, 925	37, 433, 982
1947	31	32	5, 220	13, 149, 093	1,361.890	52, 173, 584
1948	35	37	6,401	17,919,526	1,706,874	85, 652, 206
1949	30	33	7, 395	21, 776, 150	1,630,715	74, 591, 660
1950	55	56	7,554	23, 489, 366	2, 204, 694	83, 181, 924
1951	80	82	6, 223	21, 545, 660	2,085,608	92, 331, 995
1952	88	98	7, 210	26, 711, 225	2, 358, 920	80,668,817

TABLE 37. Shipments from Copper-Gold-Silver Mines, 1951 and 1952

			Total	metal content	as determined t	y settlement a	ssay 1
-	Quantity	Value	Gold	Silver	Copper	Sulphur	Zinc
1951	Tons	\$	Fine o	unces	lb.	Tons	ib.
To CANADIAN PLANTS							
Ores	558, 976	11, 265, 005	103, 701	241, 118	26, 209, 129	-	_
Copper concentrates	730,058	66,972,614	332,682	3, 260, 539	202, 632, 950	_	2, 374, 988
Zinc concentrates	152,801	18, 298, 432	5,650	205, 430	1,608,280	-	139, 146, 773
Iron pyrite concentrates	186,069	504, 837	_	_	-	89, 295	-
Slags, residues, bullion and gold precipitates	8, 201	1,836,788	26,461	202,011	911, 146	- 1	4, 150, 140
To Foreign Plants:							
Ores	23, 368	330,333	4, 273	14, 545	631,343	-	-
Copper concentrates	54,012	8, 199, 902	7,966	172, 331	25,975,988	_	_
Zinc concentrates	77,639	15, 363, 901	-	_	_	-	79, 825, 445
Iron pyrite concentrates	148,931	390, 416	-	_	_	72, 194	-
Precipitates	-	_	-	_	_	-	_
Total	1, 940, 055	123, 162, 228	480, 733	4, 095, 974	257, 968, 836	161,489	225, 497, 346
Value of process supplies, etc. ²	_	30, 830, 233	_	_	_	_	-
Net value	_	92, 331, 995		_	-	-	-
1952 To Canadian Plants:			10.0				
Ores	609,046	11,301,425	106,581	255, 501	29,611,656	-	796, 202
Copper concentrates	560,642	53, 248, 184	286, 268	2,034,205	154,090,061	-	27,928,017
Zinc concentrates	125,454	10, 915, 350	6,061	172,718	2, 270, 142	-	13, 149, 510
Iron pyrite concentrates	114,530	380,881	great .	-	-	46, 113	_
Lead concentrates	359	170, 431	2, 854	5,729	-	453, 951 ³	15,978
Siags, residues, bullion and gold precipitates	81, 355	5, 085, 569	36,004	440, 183	3, 335, 634	-	41,596,071
To Foreign Plants:			6				
Ores	7,875	93, 463	123	1,022	208,006	2, 962	-
Copper concentrates	86,091	15, 297, 728	15, 744	260,994	38,500,578	_	-
Zinc concentrates	108, 209	17, 472, 467	_	-	21.130-	_	112,893,648
Iron pyrite concentrates	394, 164	1,527,633	-	-	_	188,718	_
Precipitates	458	174, 260	-	_	528, 212	-11-2-	_
Total	2, 088, 183	115, 667, 391	453,635	3, 170, 352	228, 544, 289	237, 793	196, 379, 426
Value of process supplies, etc, 2		34, 998, 574	_	_	_	_	-
Net value	_	80, 668, 817	- 1	-			-
					T		

In addition, cadmium, teilurium and selenium are recovered from these ores.
 Includes freight on ore shipments, smeiter charges and purchased electricity.
 Lead content.

Data relating to idle mines and smelters not included.
 Not including data relating to any Rossiand properties leased by Consolidated Mining and Smelting Co. of Canada, Ltd.
 The cost of fuel, purchased electricity and process supplies was deducted; however, values are less freight and estimated treatment charges.
 Also, value of ores and concentrates shipped from mines to smelters operated by the same companies are often of a nominal or conjectural nature.

TABLE 38. Ores Mined, Milled, and Concentrates Produced by the Copper-Gold-Silver Mining Industry, 1943-1952

Year	Ore mined	Ore milled	Copper concentrates produced	Zinc concentrates produced	kron pyrite concentrates produced	Net value of all estimated mine and mill shipments ^{2,3}
			Tons			\$
1943	8, 251, 579	7, 482, 831	914, 360	315, 670	292, 007	50, 774, 104
1944	7, 395, 608	6, 873, 542	870, 726	276, 737	257, 423	44, 770, 863
945	5, 914, 580	5, 441, 121	730, 724	229, 980	228, 618	44, 258, 780
1946	5, 009, 490	4, 606, 503	661,554	219, 985	201, 873	42, 609, 415
947	5,462,233	5, 140, 376	662, 088	185, 630	178, 263	58, 198, 612
948	6, 496, 499	6, 061, 132	724, 066	232, 131	184,069	91, 403, 196
949	8, 245, 402	7, 682, 382	839, 609	250, 595	250, 476	83, 721, 820
1950	8, 758, 607	8, 159, 756	830, 438	313, 161	322, 117	94, 727, 261
951	7, 380, 966	6, 799, 064	792, 830	231, 674	375, 969	102, 675, 422
1952	7, 773, 341	7, 128, 795	700,537	233,046	460, 753	93, 945, 201

Exclusive of copper precipitate.
 Gross value reported by operators less only freight and treatment costs deducted by Dominion Bureau of Statistics.
 Includes the value of any cyanide precipitate shipped from mills to smelters.

TABLE 39. Employees and Their Earnings in the Copper-Gold-Silver Mining Industry, 1951 and 1952

		Numbe	er of emplo	yees			Earnings			
Prevince	Administrative and office		Work	Workmen		Administrative and office	Workmen	Total		
	Male	Female	Male	Female		orrice				
						\$	\$	\$		
1951										
lewfoundland	1	_	7	-	8	3,500	14,045	17, 545		
Quebec	254	36	2,530	10	2, 830	1, 082, 799	7, 249, 770	8, 332, 569		
Ontario)									
Manitoba	354	95	1,966	18	2, 433	1, 921, 643	8, 115, 500	9, 947, 163		
Saskatchewan	}									
British Columbia	80	16	822	14	932	392, 900	2, 702, 557	3, 095, 457		
Northwest Territories	3	-	16	1	20	7, 111	55, 835	62, 948		
Canada	692	147	5, 341	43	6, 223	3, 407, 953	18, 137, 707	21, 545, 660		
1952										
Newfoundland	2	1	12	-	15	11, 381	19, 965	31, 346		
Quebec	335	37	2, 845	11	3, 228	1, 246, 856	9, 120, 507	10, 367, 363		
Ontario	1									
Manitoba	358	92	1, 700	10	2, 160	2, 033, 674	7, 205, 566	9, 239, 240		
Saskatchewan										
British Columbia	174	30	1,550	53	1,807	1, 073, 451	5, 999, 825	7, 073, 270		
Canada	869	160	6, 107	74	7, 210	4, 365, 362	22, 345, 863	26, 711, 225		
						195	1	1952		
an-hours worked: Administrative and office						2,	470, 594 678, 794	2, 322, 638 13, 829, 884		
Total		****************		,		15,	149, 388	16, 152, 522		

Note. In addition to the above there were 156 in 1951 and 109 in 1952, administrative and office employees at head offices in other places in Canada than at mines or mills; their salaries and wages totalled \$665,397 in 1951 and \$476,275 in 1952.

TABLE 40. Classification of Workmen Employed in the Copper-Gold-Silver Mining Industry, by Provinces, 1950-1952

	Surface		Underground	Mill		Total	
en en	Male	Female	Male	Male	Female	Male	Female
				Number			
1952							
Quebec and Newfoundland	872	9	1, 668	317	2	2, 857	11
Ontario	14	-	21	6	-	41	_
Manitoba	510	6	471	120	-	1, 101	6
Saskatchewan	280	4	223	55	-	558	4
British Columbia	266	30	879	405	23	1, 550	53
Canada, 1952	1, 942	49	3, 262	903	25	6, 107	74
Canada, 1951	1, 721	42	2, 875	745	1	5, 341	43
Canada,1950	1, 913	59	3, 674	988	15	6, 575	74

TABLE 41. Specified Expenditures by the Copper-Gold-Silver Mining Industry, 1950-1952

	1950	1951	1952
		Dollars	
workmen's compensation	841,003	780,576	928, 403
Silicosis assessment	101, 786	66, 680	135, 921
Unemployment insurance	193,554	194, 210	217, 979
Aggregate cost of all supplies purchased	17, 074, 795	19,015,080	25, 371, 497
Aggregate cost of plant and equipment purchased	4, 900, 575	4, 685, 169	4,039,615
Cost of buildings, machinery and equipment erected or installed during year	6, 872, 991	5, 935, 960	6, 311, 778

TABLE 42. Taxes Paid by the Copper-Gold-Silver Mining Industry, 1950-1952

	1950	1951	1952
A STEP BY LOUIS OF THE STEP STEP STEP STEP STEP STEP STEP STE		Dollars	
Dominion income tax, including tax on non-operating revenue	8, 842, 345	9, 951, 479	15,644,444
Provincial tax	3,690.872	4, 730, 728	4, 668, 117
Municipal tax	1, 204, 810	875, 195	748, 0 65
Grand total taxes paid	13, 738, 027	15, 557, 402	21, 060, 626

TABLE 43. Cost of Prospecting Conducted by the Copper-Gold-Silver Mining Industry, by Provinces, 1951 and 1952

Conducted in-	1951	1952	Conducted in-	1951	1952
	Dollar	s		Dollars	5
Newfoundland	20,304	51,618	Saskatchewan	23, 505	64,398
Nova Scotia	3,011	1,401	Alberta	-	598
New Brunswick	54,303	67, 504	British Columbia	171,557	388, 887
Quebec	670,597	752, 793	Yukon	3,971	28, 302
Ontario	194, 597	375,990	Northwest Territories	207	8, 280
Manitoba	52, 494	436	Total	1, 194, 546	1, 740, 207

TABLE 44. Drilling Completed on Copper-Gold-Silver Deposits, 1950-1952

	Footage drilled			
	1950	1951	1952	
Diamond drilling for exploration (testing only): By mining companies with their own personnel and equipment By diamond drilling contractors	170, 307 480, 253	143, 477 809, 507	257, 170 741, 591	
Other diamond drilling: Biast hole diamond drilling: By mining companies with their own personnel and equipment By diamond drilling contractors	1, 922, 830 88, 001	1, 465, 673 91, 02 3	1, 282, 144 38, 650	
Drilling by percussion or other machines 1	9, 095, 279	8, 150, 836	7, 011, 206	

Not completed as these data are not recorded by some operators.
 Value of diamonds, in all forms (stones, bits, etc.) purchased during the year, \$503,612.

TABLE 45. Copper Production (Recoverable) According to Nature of Ore, and by Provinces, 1950-1952

From copper- gold-silver ores	From nickel- copper ores	From gold and other ores	Total
	Por	unds	
145, 253, 590 41, 634, 697 57, 963, 500 40, 289, 361 285, 141, 148	234, 394, 012 	6, 442, 825 527, 781 26, 532 — 1, 885, 998 8, 883, 136	6, 442, 825 145, 781, 371 234, 420, 544 41, 634, 697 57, 963, 500 42, 175, 359 528, 418, 296
136, 127, 919 31, 677, 863 63, 250, 444 26, 573, 735 257, 629, 961	257, 279, 486 	5, 798, 674 1, 603, 987 337, 320 — 17, 290, 227 1, 934 25, 032, 142	5, 798, 674 137, 731, 906 257, 616, 806 31, 677, 863 63, 250, 444 43, 863, 962 1, 934 539, 941, 589
135, 497, 889 428, 625 18, 748, 439 60, 687, 296 38, 274, 883	250, 200, 034 ————————————————————————————————————	5, 918, 288 766, 165 2, 193, 813 56, 516 — 3, 296, 249 6, 900	5, 918, 288 766, 165 137, 691, 702 250, 685, 175 18, 748, 439 60, 687, 296 41, 571, 132 6, 900
	145, 253, 590 41, 634, 697 57, 963, 500 40, 289, 361 285, 141, 148 136, 127, 919 31, 677, 863 63, 250, 444 26, 573, 735 257, 629, 961 135, 497, 889 428, 625 18, 748, 439 60, 687, 296	Copper ores	Pounds P

TABLE 46. Production of Refined Copper¹, 1943-1952

Year	Short tons	Year	Short tons
1943	251, 495	1948	221, 275
1944	256, 244	1949	226,083
1945	237.457	1950	238, 204
1946	204,016	1951	245, 466
1947	202, 427	1952	196, 320

^{1,} In all forms and from all sources, including scrap.

TABLE 47. Silver Production According to Nature of Ores, by Provinces, 1952

Province	Crude placer gold	Auriferous quartz ores	Copper- gold-silver ores	Nickel- copper ores	Silver- lead-zinc ores	Silver- cobalt and other ores	Total
				Ounces			
Newfoundland	-	_	-	-	638,524	-	638,524
Nova Scotiá	-	7	-	-	91,879	-	91.886
Quebec	1	168, 577	1,569,504	-	2, 798, 165	-	4, 536, 247
Ontario	-	408,731	2, 917	1,231,047	3, 348	4, 845, 081	6. 491, 124
Manitoba	-	13,623	398, 526	-	-	-	412, 149
Saskatchewan	-	_	1, 179, 514	-	-	-	1, 179, 514
Alberta	10	_	-	-	_	-	10
British Columbia	2, 253	40,612	273, 806	1	7, 468, 293	999	7,784,964
Northwest Territories	-	59, 191	_	-	67	_	59, 258
Yukon	16, 315	-		-	4,012,236	-	4,028,551
Canada	18, 579	690, 741	3,424,267	1, 231, 047	15, 012, 512	4, 845, 081	25, 222, 227

TABLE 48. Selenium and Tellurium Recovered from Canadian Ores, 1943-1952

	From copper-go	old-silver ores	From nickel-	copper ores	Tot	al
Year	Selenium	Tellurium	Selenium	Tellurium	Selenium	Tellurium
			Pou	nds		
1943	292,013	-	82,000	8,600	374,013	8,600
1944	233,592	761	65,000	9,900	298, 592	10,661
1945	211, 187	484	168,000	-	379, 187	464
1946	251, 261	1,648	270,606	14, 200	521,867	15, 848
1947	354, 684	3,025	146, 406	6, 169	501,090	9, 194
1948	281,905	2,686	108,989	8,739	390,894	11,425
1949	231, 383	2,966	86,842	8,726	318, 225	11,692
1950	198, 264	4,065	63, 709	6,010	261,973	10,075
1951	300, 194	2,612	82, 409	6, 301	382,603	8,913
1952	160, 452	325	81,578	5,710	242,030	6,035

TABLE 49. Zinc Production (Recoverable) According to Nature of Ore, and by Provinces, 1950-1952

Year and province	Recovered from copper-gold-silver ores	Recovered from silver-lead-zinc and other ores	Total
		Pounds	
1950: Newfoundland Quebec Manitoba Saskatchewan British Columbia Yukon Canada	117, 275, 049 42, 905, 613 54, 981, 653 18, 473, 209 233, 635, 524	61,077,614 54,363,269 ————————————————————————————————————	61, 077, 614 171, 638, 318 42, 905, 613 54, 981, 653 290, 344, 227 5, 507, 173 626, 454, 598
i951: Newfoundland Quebec Manitoba Saskatchewan British Columbia Yukon Canada	67, 403, 205 30, 221, 016 79, 148, 484	56, 938, 689 105, 322, 618 — 337, 511, 324 5, 678, 999 505, 451, 630	56,938,689 172,725,823 30,221,016 79,148,484 337,511,324 5,678,999
Newfoundland	71, 247, 048 30, 185, 026 93, 381, 238 24, 333, 160 21, 146, 472	61, 033, 650 8, 816, 141 118, 550, 013 744, 920 324, 242, 781 11, 070, 178 524, 457, 683	61, 033, 650 8, 816, 141 189, 797, 061 744, 920 30, 185, 026 93, 381, 238 348, 575, 941 11, 070, 178

TABLE 50. Refined Zinc Produced, from all Sources, 1943-1952

Year	Short tons	Year	Short tons
1943	206, 510	1948	196, 575
1944	168, 518	1949	208,045
1945	18 2, 267	1950	204, 367
1946	185, 683	1951	2 18, 578
1947	178, 264	1952	222, 200

TABLE 51, Cadmium Recovered from Canadian Ores, 1943-1952

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	
1943	187,938	598, 673	786, 611	1948	148.864	617, 226	786,090
1944	140,560	386, 410	526,970	1949	181,092	665, 449	846,541
1945	135, 632	510, 432	846, 064	1950	141,456	706, 950	848,406
1946	166, 333	636, 315	802, 648	1951	147, 168	1, 179, 752	1, 326, 220
1947	172,896	545, 838	7 18, 534	1952	205, 911	742, 676	948,587

TABLE 52. Average Annual Metal Prices, in Canadian Dollars, 1943-1952

	Gold	Silver	Copper	Lead	Zinc
Year	Per troy ounce	Per tray ounce	Per pound	Per pound	Per pound
			Dollars	1	
1943	38. 50	0, 4525	0.117	0.037	0.040
1944	38. 50	0.43	0, 12	0.045	0.043
1945	38. 50	0.47	0.1255	0.05	0.0644
1946	36. 75	0,836	0. 128	0.067	0.078
1947	35.00	0.72	0. 2039	0. 1367	0.1123
948	35.00	0.75	0. 2235	0.1804	0. 1393
949	36.00	0.7425	0. 1997	0, 158	0. 1325
1950	38.05	0.8082	0. 2342	0. 1445	0. 1565
951	36. 85	0.9455	0. 277	0.184	0. 199
1952	34, 27	0.8352	0.2854	0. 1619	0.1748

TRANSACTIONS IN GOLD BULLION AT THE ROYAL CANADIAN MINT

(From the Annual Report of the Royal Canadian Mint)

Five thousand six hundred and two deposits of gold bullion were received at the Mint during the year from Canadian Mining Companies, the Assay Office, Royal Canadian Mint, Vancouver, B.C. and sundry persons. The gross weight of the deposits amounted to 4,981,971 ounces containing by assay 3,953,158 ounces fine gold and 625,601 ounces fine silver. (Note: The variation between these figures and those set out in the table of origin below is due to shipments from the Assay Office, Vancouver,

being received at the Royal Canadian Mint, Ottawa, the month following deposit and payment at Vancouver). The receipts show a decrease as compared with the year 1951 of 174 in the number of deposits, gross weight 264,788 ounces, gold content 216,322 ounces and fine silver 25,403 ounces.

The net value paid by cheque to depositors was \$94,319,844.64. In addition the amount of fine gold issued to depositors was 1,094,702.594 ounces.

Jetails of the origin of the bullion deposited at Vancouver and Ottawa during the year 1952 are shown in the following table:

From Canadian mines and refineries	Gross weight	Fine gold	Fine silver
	Ounces	Ounces	Ounces
ontario Quebec Stritish Columbia Lanitoba //ukon Territory Lova Scotia Lorth West Territories	8, 850	2, 521, 444, 981 765, 409, 648 181, 147, 784 132, 566, 983 78, 518, 648 1, 308, 999 112, 511	315,081,77 189,304,76 29,815,04 13,816,27 16,315,07 6,66 58,632,34
Total from Canadian mines and refineries	4, 939, 704. 071	3, 922, 240, 862	622, 981. 9
rom jewellery and scrap	27, 817, 955	14, 941, 195	2,511.1
Grand total	4, 967, 522, 026	3, 937, 182, 057	625, 493, 0

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

	Ounces fine
7,249 Trade Bars transferred to Exchange Fund Account of Minister of Finance and held in safe-keeping by Bank of Canada	2,900,578,893
Depositors - granulated and bars	1,094,702,594
Sales to Manufacturers - granulated	26, 352, 213
Proof Plate for assay purposes	4, 250
Medals, etc.	5, 250
Sweep	9, 420, 115
Total	4, 031, 063, 315

This total shows a decrease of 136,422,559 ounces fine as compared with the year 1951.

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, 1952

	Gold re	eceived	Gold issued		
Year	Gross weight	Fine gold	Coin	Bullion	
	Ounces	Ounces	Ounces fine	Ounces fine	
908 to 1942	89, 153, 382, 588 4, 456, 437, 559	71, 957, 169, 906 3, 616, 958, 628	383, 319, 096	71, 487, 749, 974 3, 645, 739, 964	
143	3, 537, 734, 636	2,862,048,659	= =	2, 829, 755, 000 2, 499, 163, 674	
145	3, 102, 991, 020 3, 271, 246, 445	2, 503, 416, 913 2, 652, 244, 865	-	2, 665, 964, 763	
48	3, 559, 496, 703 4, 252, 389, 454	2, 868, 469, 014 3, 401, 991, 441		2, 859, 084, 218 3, 405, 073, 335	
49 50	4, 941, 749, 248 5, 485, 956, 751	3,925,617,709 4,422,968,129	_	3, 865, 296, 377 4, 347, 961, 898	
51 52	5, 246, 758, 942 4, 848, 048, 381	4, 169, 479, 513 3, 953, 158, 154		4, 167, 485, 874 4, 031, 068, 071	
Total	131, 856, 191, 727	106, 333, 522, 931	383, 319, 096	105, 804, 343, 148	

Regulations Prescribing the Circumstances Under Which and the Conditions Upon Which Gold Will be Accepted at the Royal Canadian Mint for Custom Refining and Storing

- 1. These Regulations may be cited as The Mint Custom Refining and Storing Regulations (1952).
- 2. (1) In these Regulations,
 - (a) "designated gold" means gold produced from the mine of a producer in the year 1952, on or after the elected date;
 - (b) "elected date" means, with respect to a producer, the first day of January, April, July or October in the year 1952, as the producer designates, with the approval of the Minister, in making his election in Form A;
 - (c) "Gold Bullion Regulations" means the Regulations for the Receipt of Gold Bullion at the Royal Canadian Mint, Ottawa, established by Order in Council P.C. 461 of March 7, 1934;
 - (d) "Minister" means the Minister of Finance;
 - (e) "Mint" means the Royal Canadian Mint;
 - (f) "producer" means a person or corporation engaged in producing gold from a mine who has made an election by instrument in Form A delivered to the Minister;
 - (g) "processor" means a person or corporation engaged in the business of processing gold in Canada who makes application and gives an undertaking in Form B, and whose application has been accepted by the Minister and who has not subsequently been disqualified under section eight.
 - (2) The Minister will not approve a date as the elected date in respect of a producer unless the producer has, before the expiry of thirty days from that date (or where the date to be elected is January 1, 1952, before the fifteenth day of February, 1952) delivered to the Minister an election in Form A designating that date as the elected date.
- 3. (1) Upon application by a producer in Form C the Minister may accept designated gold at the Mint for assaying, refining and storing on behalf of the producer.
 - (2) Where a producer, in accordance with a licence issued under the Gold Export Act,
 - (a) ships designated gold from Canada to be smelted or refined and subsequently sells the refined gold outside Canada, or
 - (h) sells designated gold to a smelter or refiner outside Canada,

at a price that, in the opinion of the Minister does not exceed the Mint price, the Minister may, upon being satisfied that the gold has been so sold, sell to the producer an amount of gold equivalent to the amount so sold and, subject to section four, store it at the Mint for the producer.

- 4. (1) Gold accepted at the Mint for assaying, refining or storing under these Regulations is so accepted subject to the condition that it will be released in the form of fine gold (.995 fine or better), only upon application in accordance with these Regulations made by or on behalf of the producer,
 - (a) for sale and delivery to a processor in granulated form, in an amount that, in the opinion of the Minister, does not exceed the normal requirements of the processor for the ensuing thirty days, and if, in the opinion of the Minister, it will be used for bona fide industrial purposes in Canada;
 - (b) for delivery to a processor to be processed and exported on behalf of the producer, in accordance with a licence issued under the Gold Export Act, in the form of gold of 22 karat or lower fineness, or
 - (c) for sale to His Majesty at the Mint at the official price for the purchase of gold by His Majesty at the Mint for the week in which the sale is made,

and for no other purpose.

- (2) Where gold is released from the Mint to a producer, pursuant to these Regulations, it will be delivered, at the Mint Counter at Ottawa, to a consignee designated by the producer, or to a carrier or other agent acting on behalf of the consignee.
 - 5. (1) An application by a producer for sale and delivery of gold in accordance with paragraph (a) of section four shall be in Form D, and shall be accompanied by an offer to purchase gold in Form E.
- (2) An application by a producer for delivery of gold in accordance with paragraph (b) of section four shall be in Form F and shall be accompanied by a copy of the offer to purchase the gold and the original or a photostatic copy of the import licence issued by the appropriate authority in the country of destination in respect of the proposed transaction, if such a licence is required.
 - 6. The following Mint service charges are payable by a producer:
 - (a) where gold is melted, assayed or refined for the producer at the Mint, an amount in respect of the melting, assaying or refining calculated at the rates then prescribed therefor by the Gold Bullion Regulations in respect of deposits of gold at the Mint, payable when billed;
 - (b) one cent for every thirty days or fraction thereof (including the day on which the gold is received at the Mint but excluding the day on which it is shipped from the Mint) for each ounce of gold stored for the producer at the Mint, payable at the time of application for release of the gold or when billed, whichever is the earlier;
 - (c) ten cents for each ounce of gold packed for shipment at the Mint on the direction of the producer, payable at the time of application for release of the gold; and
 - (d) a handling charge of twenty cents for each ounce of gold sold to His Majesty, payable at the time of sale.
- 7. The silver content of the gold bullion delivered to the Mint by a producer under these Regulations may be purchased by His Majesty at the official price for the purchase of silver by His Majesty at the Mint for the week in which it is so purchased.
- 8. (1) Where a person or corporation engaged in the business of processing gold in Canada makes application and gives an undertaking in Form B, the Minister may accept the application if he is satisfied that the applicant is engaged in a bona fide enterprise for the processing of gold and will carry out the undertaking in good faith.
- (2) Where the Minister has reason to believe that a processor has failed to carry out any part of the undertaking given by him in Form B, or that gold sold to a processor has been dealt with in a manner contrary to the undertaking, he may, by notice in writing delivered to the processor, disqualify the processor.
 - 9. Notwithstanding anything in these Regulations,
 - (a) the Minister may designate a corporation that has adequate facilities for refining and storing gold as his agent to perform the services that would otherwise be performed at the Mint for a producer under these Regulations, and may enter into such agreements as he deems necessary for the purpose; and
 - (b) services will be performed by an agent designated under this section only upon such terms and conditions as the Minister prescribes and the Minister may, in his discretion, for the purposes of this section, fix such charges in lieu of those prescribed by section six and make such other financial arrangements as he deems advisable.
- 10. The Minister may, where he considers it necessary or advisable for the purpose of administering these Regulations, amend the forms and prescribe additional forms.

Directory of Firms in the Gold Mining Industry, 1952

Name	Head or executive office address	Location
	a) Alluvial Gold Mining Industry	
British Columbia:		
Anderson, Adolf	Likely	Quesnel
Andersen, M.A.	Wells	Wells
Asserbind & Johnson	Keithley Creek Keithley Creek	Quesnel Quesnel
Baker, George S. Bedruck Placers Ltd.	816 Northern Life Tower, Seattle, Washington, U.S.A	Stanley
	Lillooet	Bridge River
Burrard Placers Ltd. (N.P.L.)	555 Burrard St., Vancouver 1.	Quesnel
Enterprise Placers	Atlin	Atlin Atlin
Falconer, D.R.	Likely	Quesnel
Hind, John	Vanwinkle	Cariboo
Ketch Placers	Wells	Cariboo
Holland, John	Wells	Cariboo Cariboo
Holm & Petersen Hougen, Dr. O.R.	601, Birks Bldg., Vancouver	Cariboo
Ivanic, S., & Partners	Atlin	Spruce Creek
Lahaye, Leo	Likely	Quesnel
Lawless Creek Mining Co, Ltd.	Likely	Quesnel Omineca
Loper, George H.	P.O. Box 6, Barkerville,	Cariboo
Lyne, C.J.	Williams Lake	Quesnel
Mattson, T.R.	Atlin	Birch Creek
Noland Mines Ltd.	525 Seymour St., Vancouver	Atlin
Noland, J.W.	Atlin	Atlin Atlin
Piccolo Bros	416 Virginia St., Seattle, Washington, U.S. A	Quesnel
Sullivan, L.P.	300 Cranbrook St., Cranbrook	Fort Steele
Swanson & Watt	Atlin	Atlin
Zenda Gold Mining (Canada) Ltd	P.O. Box 1340, Quesnel	Cariboo
Yukon:		
Ba]]arat Mines Ltd.	Dawson	Ballarat Creek
Battallier, D.F. & H.C.	Dawson	Bonanza Creek
Goutillier, H. & H.	Box 437, Dawson	Bonanza Creek
Bratsberg, B	1682 MacGowan Ave., N. Vancouver	Dawson Dawson
Bradbury & Cooper	Glacier Dawson	Last Chance Creek
Grenner, John Clear Creek Placers Ltd.	Dawson	Clear Creek
Coulombe, A. & A.	Dawson	Bailarat Creek
Feichtinger, J.	Glacier Creek	Dawson
Gould, J.A. & R.S.	P.O. Box 328, Dawson Box 762, Whitehorse	Dawson Burwash Creek
Kluane Dredging Co. Ltd. Lundin, John E.	Box 923, Dawson	Quartz Creek
Morgan, W.F.	Dawson	Caribou Creek
Pamuchina, P	Bonanza Creek	Bonanza Creek
Pontaletta, P.	Dawson Dawson	Dawson
Strugar, J. Troberg, R.E.	Dawson	Bonanza Creek
Yukon Consolidated Gold Corporation	1919, Marine Bldg., Vancouver, B.C.	Dawson
Yukon Gold Placers Ltd.	Dawson	Henderson Creek Glacier Creek
Yukon Placer Mining Co	535 Homer St., Vancouver, B.C.	Glaciel Cleek
Quebec: Winget, C.M., & Vernette, E.	75 Main St., Lennoxville	Ditton River
(b)	Auriferous Quartz Mining Industry	
Nova Scotia:		
K.V. Mines	Liverpool	Liverpool
Smith, A.J.	East Chezzetcook	Lake Catcha
Quebec:		
Abex Mines Ltd	330 Bay St., Toronto, Ontario	Duhamel Twp.
Abitibi Ventures Ltd	506 est, rue Ste-Catherine, Montréal	Carpentier Pascalis
Abitibi Metals Mines Ltd.	1197 Val d'Or, Quebec	Gamache Twp.
Alta Mines Ltd.	132 ouest, rue St-Jacques, Montréal	Le Tac Twp.
Ausable Mines Ltd.	1434 ouest, rue Ste-Catherine Montréal	Lac-aux-Sables
Anglo-Rouyn Mines Ltd.	44 King St. W., Toronto, Ontario	Temiscamingue, Quebec Bourlamaque Twp.
Aumaque Gold Mines Ltd.	307-100 Adelaide St. W., Toronto, Ontario	Malartic, Quebec
Barmin Company Ltd.	67 Yonge St., Toronto, Ontario	Waswanipi Lake
Belle-Chibougamau Mines, Ltd.	50 King St. W., Toronto, Ontario	Chibougamau
Bagamac Mines i.td.	Oak Ridges, Ontario	Rouyn Belleterre
Belleterre Quebec Mines, Ltd	25 King St. W., Toronto I, Ontario	Guillet Twp.
Beattie-Duquesne Mines Ltd.	Duparquet	Duparquet
	1121 Sherbrooke St. W., Montreal	McKenzie Twp.
Belmont Mining & Exploration Co., Ltd.	11 King St. W., Toronto, Ontario	Labyrinth Lake Bourlamaque
Belmont Mining & Exploration Co., Ltd.	200 Ct Isman Ct W Mantenat Outher	LANGE FRANKLING
Belmont Mining & Exploration Co., Ltd. Bordulac Mines Ltd. Beveourt Gold Mines, Ltd.	360 St. James St. W., Montreal, Quebec	
Belmont Mining & Exploration Co., Ltd. Bordulac Mines Ltd. Bevecourt Gold Mines, Ltd. Canadian Malartic Gold Mines Ltd.	360 St. James St. W., Montreal, Quebec 25 King St. W., Toronto I, Ontario	Malartic Bourlamaque Twp.
Belmont Mining & Exploration Co., Ltd. Bordulac Mines Ltd. Pevcourt Gold Mines, Ltd. Canadian Malartic Gold Mines Ltd. Centremaque Gold Mines Ltd. Commonwealth Exploration Ltd.	360 St. James St. W., Montreal, Quebec	Malartic Bourlamaque Twp. Hauy Twp.
Belmont Mining & Exploration Co., Ltd. Bordulac Mines Ltd. Bevcourt Gold Mines, Ltd. Canadian Malartic Gold Mines Ltd. Centremaque Gold Mines Ltd. Commonwealth Exploration Ltd. Cropsey-Gordon Mines Ltd.	360 St. James St. W., Montreal, Quebec	Malartic Bourlamaque Twp. Hauy Twp. Apaica Lake
Belmont Mining & Exploration Co., Ltd. Bordulac Mines Ltd. Pevcourt Gold Mines, Ltd. Canadian Malartic Gold Mines Ltd. Centremaque Gold Mines Ltd. Commonwealth Exploration Ltd. Cropsey-Gordon Mines Ltd. Cropsey-Gordon Mines Ltd. Cropsey-Gordon Mines Ltd.	360 St. James St. W., Montreal, Quebec 25 King St. W., Toronto I, Ontario 637 Craig St. W., Montreal 355 St. James St. W., Montreal 145 Yonge St., Toronto, Ontario 62 Richmond St. W., Toronto, Ontario	Malartic Bourlamaque Twp. Hauy Twp. Apalca Lake Rouyn

Directory of Firms in the Gold Mining Industry, 1952 - Continued

Name Head or executive office address Location

(b) Auriferous Quartz Mining Industry - Continued

(b) Aurife	erous Quartz Mining Industry — Continued	
Quebec - concluded:		
D'Aragon Mines Ltd.	11 King St. W., Toronto, Ontario	Bourlamaque Twp.
Dome Exploration Company (Quebec) Ltd.	Bourlamaque, Quebec	Bouriamaque
Dominion Gulf Company	P.O. Drawer 2038, Pittsburgh 30, Pa., U.S.A	Beauchastel Twp.
Donalda Mines Ltd.	625 Burnside St., Montreal, Quebec	Temiskaming, Quebec Duverny Twp.
East Dalquier Gold Mines Ltd.	637 Craig St. W., Montreal	Dalquier 1wp.
East Malartic Mines Ltd.	355 St. James St. W. Montreal Quebec	Fourniere Twp.
Eldona Gold Mines Ltd.	86 Bloor St. W., Toronto, Ontario	Noranda Twp. Rouyn
Eplett, G.S., Mining & Development Co. Ltd.	New Liskeard, Ontario	Beauchastel
Fayolle-Antoine	175, rue Noranda ouest, Rouyn, Quebec	Dasserat
Gothic Gold Miners Ltd	80 Richmond St. W., Suite A, Toronto, Ontario	Duverny Twp.
Horne Fault Mines Ltd.	Duparquet	Beauchastel
Hosco Gold Mines Ltd.	357 Bay St., Toronto, Ontario	Joannes
Heva Gold Mines Ltd	100 Adelaide St. W., Toronto, Ontario	Joannes Twp. Montbray Twp.
Juno Metals Corp.	28 St. James St. W., Montreal	Privat Twp.
Kennco Explorations, (Canada) Ltd.	1010 Ste, Catherine St. W., Montreal 2	Guercheville Twp.
Keyboycon Mines Ltd.	330 Bay St., Toronto, Ontario	Vauqueiin Twp.
La Flamme & La Haye Lake Wasa Mining Corporation	139, rue de Montmorenc y, Québec	Beauchastel Twp.
Lamaque Mining Co., Ltd.	Bourlamaque, Quebec	Bourlamaque
Lavalie Mines Ltd.	24 King St. W., Toronto, Ontario	Bourlamaque
Lencourt Gold Mines Ltd. Louvicourt Goldfields Corporation	100 Adelaide St. W., Toronto, Ontario	Louvicourt Twp. Bourlamague
Malartic Gold Fields Ltd,	355 St. James St. W., Montreal	Fourniere Twp.
Marbenor Malartic Mines Ltd.	330 Bay St., Toronto, Ontario	Dubuisson Twp.
Marcoland Mines Ltd,	Amos	Landrienne Belcourt
Mc Watters Gold Mines	Haileybury, Ontario	Rouyn Twp.
McIntyre Porcupine Mines, Ltd.	25 King St. W., Toronto 1, Ontario	Lesseur Twp.
Mining Corporation of Canada, The, Ltd	132 St. James St. W., Montreal	Kreighoff Twp. Gamache
Nemrod Mining Co., Ltd.	4 East Notre Dame St., Montreal	Louvicourt
New Goldvue Mines Ltd. New Jersey Zinc Explorations Ltd.	100 Adelaide St. W., Toronto, Ontario	Amos, Quebec Desiardins Two.
New Sinatar-Rouyn Ltd.	80 St. Peter St., Quebec Box 780, Noranda	Noranda
Nubar Mines Limited	330 Bay St., Toronto, Ontario	Souart Twp.
O'Brien Gold Mines, Ltd.	Kewagama, Quebec	Cadillac Twp. Rouyn Twp.
Osisko Lake Mines Ltd.	Perron, Quebec	Senneville Two.
Powell Rouyn Gold Mines Ltd,	Box 200, Noranda, Quebec	Noranda
Quartz Bleu du Saguenay Enrg., Le	B.P. 235, St-Joseph d'Alma	Labarre Barraute
Quebec Explorers	132 St. Jacques, Montreal	Vauqualin Twp.
Quemaque Explorers Ltd.	619 St. James St. W. Montreal	Fancamp Twp.
Quesabe Mines Limited	320 Bay St., Toronto, Ontario 330 Bay St., Toronto, Ontario	Quesabe Dufresnoy Twp.
Rouandah Gold and Metals Ltd.	100 Adelaide St. W., Toronto, Ontario	Beaucastle Twp.
Royran Gold Fields Ltd,	215 St. James St. W., Montreal	Obalski Twp.
Sigma Mines (Quebec) LtdSiscoe Gold Mines Ltd.	Bourlamaque, Quebec	Bourlamaque Siscoe Island
South Dufault Mines Ltd.	302 Bay St., Toronto, Ontario	
Stadacona Mines (1944) Ltd.	P.O. Box 390, Rouyn, Quebec	Rouyn
Suliivan Consolidated Mines Ltd.	1604-Aldred Building, Montreal	Dubuisson Twp. Montalambert
Titanic Mine Holding Ltd.	215 St. James St. W., Montreal	Merrill Island
Wright-Hargreaves Mines, Ltd	Canadian Bank of Commerce, Fort Erie, Ontario	Gamache
Ontario:		
Porcupine District		
	1600 Royal Bank Building Toronto	Timmins
Bonwhit Mines Ltd.	1600, Royal Bank Building, Toronto	Pamour
Broulan Reel Mines Ltd	1705, Sterling Tower Bidg., 372 Bay St., Toronto	MILLINGA TAD.
Buffalo Ankerite Gold Mines Ltd.	Box 533, South Porcupine	Deloro Twp. Carman Twp.
Coniaurum Mines Ltd.	25 King St. W., Toronto	Tisdale Twp.
Delnite Mines Ltd.	Box 590, Timmins	Deloro Twp. Tisdale Twp.
Dome Mines Ltd	South Porcupine	Whitney Twp.
Hollinger Consolidated Gold Mines Ltd.	Timmins	Hislop Twp.
Hugh-Pam Porcupine Mines Ltd	50 King St. W., Toronto	Cochrane District
McIntyre Porcupine Mines Ltd.	Schumacher	Schumacher Tisdale Twp.
Pamour Porcupine Mines Ltd.	Pamour	Whitney Twp.
Paymaster Consolidated Mines Ltd.	Box 100, South Porcupine	Deloro and Tisdale Twps.
Preston East Dome Mines Ltd.	Box 545, South Porcupine	South Porcupine
Kirkland Lake District		
Kirkland Lake Gold Mining Co. Ltd.	1314, Metropolitan Building, Toronto	Teck Twp.
Lake Shore Mines Ltd.	Kirkland Lake	Kirkland Lake
Macassa Mines Ltd.	85 Richmond St. W., Toronto	Kirkland Lake Dobie
Sylvanite Gold Mines Ltd.	Box 670, Kirkland Lake	Teck Twp.
Teck-Hughes Gold Mines Ltd., The	14 Finkle St., Woodstock	Kirkland Lake
Toburn Gold Mines Ltd	1101, Federal Building, Toronto	Gauthier Twp.
Wright-Hargreaves Mines Ltd.	Fort Erie	Kirkland Lake

Directory of Firms in the Gold Mining Industry, 1952 - Continued

Name	Head or executive office address	Locatio
	Auriferous Quartz Mining Industry — Concluded	
Ontario - concluded:		
Larder Lake District	ARA Manua CA Transaction	Ma Filman Thum
Cathroy Larder Mines Ltd Chesterville Mines Ltd Kerr-Addison Gold Mines Ltd	330 Bay St., Toronto	Mc Elroy Twp. Mc Garry Twp. Mc Garry Twp.
Matachewan District		
Hollinger Consolidated Gold Mines Ltd		Powell Twp.
Sudbury District	D 400 F	Court To
Curtin Prospecting Syndicate	357 Bay St., Toronto	Esther Two.
New Delhi Mines Ltd	330 Bay St., Toronto, Ontario	Delhi Twp.
Renabie Mines Ltd.		
Thunder Bay District	THE STATE OF THE S	
Leitch Gold Mines Ltd.	Beardmore	Summers Twp.
Little Long Lac Gold Mines Ltd. MacLeod-Cockshutt Gold Mines Ltd.	25 King St. W., Toronto	
Magnet Consolidated Mines Ltd	185 Bay St., Toronto	Geraldton
New Mosher Long Lac Mines Ltd	67 Yonge St., Toronto	Long Lac
Theresa Gold Mines Ltd.	Long Lac	Theresa
Tombill Gold Mines Ltd.	217 Bay St., Toronto 1	Geraldton
Kenora District		
Duport Mining Co. Ltd	25 King St. W., Toronto Mine Centre	Shoal Lake Shoal Lake
	MAIIC SCIENCE COMMISSION OF THE PROPERTY OF TH	Total Control Total
Patricia District	An Ad-3-1d- Ch III Thomas	Ralman Thun
Brewis Red Lake Mines Ltd	Balmerton	Balmer Twp.
Cochenour Willans Gold Mines Ltd.	801 Dominion Bank Bldg., Toronto	Dome Twp.
Delta Minerals Ltd.	145 Yonge St., Toronto	Red Lake
Hasaga Gold Mines Ltd.	167 Yonge St., A Ofonto	Heyson Iwp.
Heath Gold Mines Ltd.	357 Bay St., Toronto	Lodd Lwp.
Lun-Echo Gold Mines	McKenzie Island	McKenzie Island
Madsen Red Lake Gold Mines Ltd.	145 Vonge St. W., Toronto	Balmer Twp.
New Jason Mines Ltd.	7 King St. W., Toronto	Casummit Lake
Newlund Mines Ltd. Pickle Crow Gold Mines, Ltd.	Pickle Crow	Connell Twp.
Starratt Olsen Gold Mines Ltd	25 King St. W., Toronto	Baird Twp.
Manitoba:		
Central Manitoba Mines Ltd.		Hole River
Forty-Four Mines Ltd. Howe Sound Exploration Co. Ltd.	Snow Lake	Snow Lake
Jeep Gold Mine Ltd	237, Curry Eldg., Winnipeg	Rice Lake Bissett
	231, Culty Diugs, winnipeg	2133000
British Columbia:		0111
Alpine Gold Ltd. Bralorne Mines, Ltd.	Box 83, Nelson	
Cariboo Gold Quartz Mining Co. Ltd	675 W. Hastings St., Vancouver	Cariboo
Consolidated Mining & Smelting Co. Ltd.		
Gem Gold Mines Ltd.	1604, Royal Bank Bldg., Vancouver	Nanaimo Lillooet
Hoyland, John	Stewart	Portland Canal
Island Mountain Mines Ltd		
Pioneer Gold Mines of B.C., Ltd.	711, Yorkshire Bldg., Vancouver	Lillooet
Polaris-Taku Mining Co., Ltd. Providence Mine	Greenwood	Greenwood
Privateer Mine Ltd. Sheep Creek Gold Mines Ltd.	208 Ford Building, Vancouver	Nelson
Surf Inlet Consolidated Gold Mines Ltd.	615 W. Hastings St., Vancouver	Vancouver
Spud Valley Gold Mines	525 Seymour St., Vancouver	Alberni Tide Lake
Northwest Territories:		
Akaitcho Yellowknife Gold Mines Ltd.	25 King St. W., Toronto, Ontario	
Consolidated Mining & S. Co. of Canada, Ltd	19 Richmond St. W., Toronto, Ontario	Yellowknife
Cient Vallauknife Cold Minns I tel	25 King St. W., Toronto, Ontario	Yellowknite
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Directory of Firms in the Gold Mining Industry, 1952 - Concluded

Name Head or executive office address Location

(c) Copper-Gold-Silver Mining Industry

	1	1
Newfoundland:		
Cape Copper Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Gregory River
Pilley's Island Copper-Pyrite Ltd.	38 King St. W., Toronto, Ontario	Pilley's Island Gull Pond
Rambridge Mines Ltd.	44 King St. W., Toronto, Ontario	
Quebec:		
Antoinette Lake Mines Ltd.	11 Ving St W. Togosto Opt-ole	McCarkill Twp.
Area Mines Ltd.	11 King St. W., Toronto, Ontario	Holland Twp.
Bar-Lan Gold Mines Ltd,	215 St. James St. W., Montreal	
Brompton Corp. Ltd. Buffalo Canadian Gold Mines Ltd.	New Sherbrooke Hotel, Sherbrooke	Brompton Twp.
Campbell Chibougamau Mines Ltd.	625 Dorchester St. W., Montreal	Chihougamau
Carlson Mines Ltd,	90 Perreault St. E., Rouyn, Quebec	
Citra-Lartic Mines Ltd. (N.P.L.)	22 King St., Toronto, Ontario	Barraute Twp.
Continental Copper Mines Ltd.	11 King St. W., Toronto, Ontario	Dufresnoy Twp. Obalski
Despina Gold Mines Ltd. (N.P.L.)	477 St-François-Xavier, Montréal	Rouyn Twp.
East Sullivan Mines Ltd.	79 Wall St., New York, N.Y., U.S.A. 1604, Aldred Bldg., Montreal	Bourlamaque
Gaspe Copper Mines Ltd. (N.P.L.)	1709, Bank of Nova Scotia Bldg., Toronto, Ontario	Holland Twp. Rouyn
Holland Gaspe Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Holland Twp.
Insco Mines Ltd. (N.P.L.)	355 St. James St. W., Montreal	Dufresnoy McKenzie Twp.
Joliet-Quebec Mines Ltd, (N.P.L.)	25 King St. W., Toronto I, Ontario	
Kayrand Mining & Development Co. Ltd.	215 St. James St. W., Montreal	McKenzie Twp.
Kenro Mines Ltd. Kerromac Mining Co. Ltd.	1114 Union Ave., Montreal	Cherbourg Twp.
Lays Mining Corp. Ltd.	1456 St. Mark St., Montreal	Beauchastel
Laurentide (Chibougamau) Mines Ltd Lake Dufault Mines Ltd. (N.P.L.)	300 Craig St. W., Montreal	Ely Twp. Dufresnoy Twp.
Lyndhurst Mining Co. Ltd.	360 St. James St. W., Montreal	Destor Twp.
Merrill Island Mining Corporation Ltd. Meston Lake Mines Ltd.	507, Place d'Armes, Montreal	
Miller Copper Mines Ltd.	414 St. James St. W., Montreal 80 Richmond St. W., Toronto, Ontario	Holland Twp.
New Metalore Mining Co. Ltd	80 Richmond St. W., Toronto, Ontario	Perron Abitibi
Noranda Mines Ltd.	1709, Bank of Nova Scotia Bldg., Toronto, Ontario	
North Trinity Mining Corporation	P.O. Box 1197, Val d'Or, Quehec	
Pacemaker Petroleums Ltd. Pantan Mines Ltd.	85 Richmond St. W., Toronto, Ontario	Montgay Twp. Rouyn Twp.
Opemiska Copper Mines (Quebec) Ltd.	25 King St. W., Toronto 1, Ontario	Chibougamau Bolton Two
Quebec Copper Corporation Ltd	132 St. James St. W., Montreal	Bolton Twp. Barraute
Que mont Mining Corporation Limited	44 King St. W., Toronto 1, Ontario	Rouyn Twp.
Rainville Copper Mines Ltd. (N.P.L.)	25 King St. W., Toronto 1, Ontario	Louvicourt Twp. Canton Duvernav
Strathallon Enterprises Limited	56 Esplanade St., Toronto, Ontario	Inverness
Tache Lake Mines Ltd. (N.P.L.)	132 St. James St. W., Montreal, Quebec	Chibougamau Fabre Twp.
Udolen Mines Ltd.	330 Bay St., Toronto, Ontario	Fancamp Twp.
Vauze Dufau It Mines Ltd.	1112 Star Building, Toronto, Ontario	Dufresnoy Twp.
Waite Amulet Mines, Ltd	507, Place d'Armes, Montreal, Quebec	Weedon
West Amulet Mines Ltd	11 King St. W., Toronto, Ontario	Duprat Twp.
Ontario:		
Copper Prince Mines Limited	22 Toronto St., Toronto, Ontario	Falconbridge Twp. Tenigani
Kristina Copper Mines Ltd.	Royal Bank Bldg., Toronto, Ontario	Aigoma
Halkin Mines Limited	Royal Bank Bidg., Toronto, Ontario	Clement Matachewan
New Ryan Lake Mines Limited	Matache wan, Ontario	Marcarche wan
Manitoba:		
Cuprus Mines Limited	500, Royal Bank Bldg., Winnipeg, Manitoba	Flin Flon
Fairway Flinflon Mines Limited	330 Bay St., Toronto, Ontario	Athapapuskow
Hudson Bay Mining & Smelting Company Ltd	500, Royal Bank Bldg., Winnipeg	Flin Flon Sherridon
Northern Metals Ltd.	217 St. Germaine Ave., Toronto, Ontario	Schist Lake
Saskatchewan:		
Hudson Bay Mining & Smelting Co., Limited	500, Royal Bank Bldg., Winnipeg, Manitoba	Flin Flon
British Columbia:		
Attwood Copper Mines Limited	844 West Hastings St., Vancouver	Greenwood
Britannia Mining & Smelting Co. Ltd. Consolidated Mining & Smelting Co. Ltd.	Britannia Beach	Britannia Beach Jordan River
Columbia Copperfield Mines Ltd.	100 Adelaide St., Toronto, Ontario	Phoenix
Chieftain Exploration Ltd.	441 Seymour St., Vancouver	Sechelt Peninsula Quadra Island
Dodge Copper Mines Ltd	330 Bay St., Toronto, Ontario	Similkameen
Rico Copper Mines Ltd.	1155 W. Pender St., Vancouver	Laidlaw Nanaimo
Vananda Mines (1948) Ltd	413 Granville St., Vancouver Rossland	Trail Creek
Northwest Territories:		
Tungsten Corporation of Canada Limited	50 King St. W., Toronto, Ontario	Outpost Island



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