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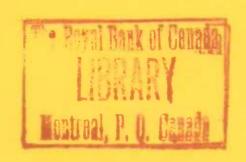
# GOVERNMENT OF CANADA

THE GOLD MINING INDUSTRY
1951



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# THE GOLD MINING INDUSTRY 1951

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## NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 4 volumes, as follows: Volume I—The Primary Industries, including mining, forestry and fisheries; Volume II—Manufacturing; Volume III—Construction; Volume IV—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, 25c.

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, 25c.

I-The Asbestos Mining Industry, 25¢.

J-The Feldspar and Quartz Mining Industry, 25¢.

K-The Gypsum Industry, 25¢. L-The Peat Industry, 25¢.

M - The Salt Industry, 25¢.

N-The Talc and Soapstone Industry, 25¢.

O-The Miscellaneous Non-Metal Mining Industry, 25¢.

P-The Cement Manufacturing Industry, 25¢.

Q-The Clay and Clay Products Industry, 25¢.

R-The Lime Industry, 25¢.

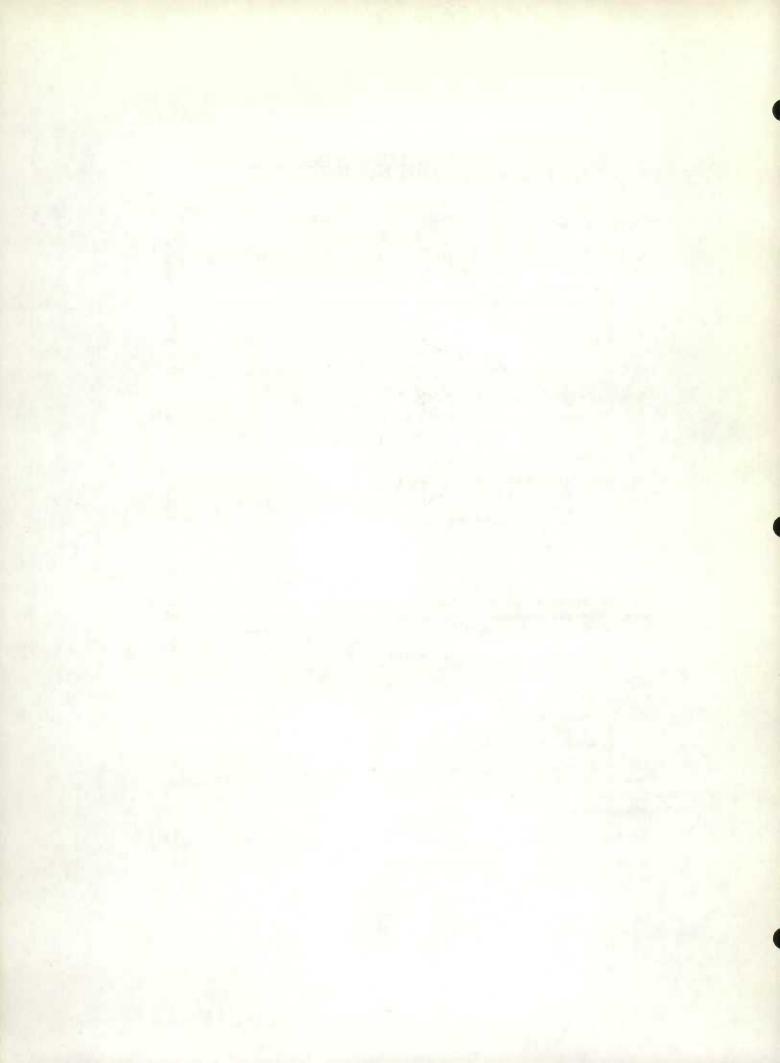
S-The Sand and Gravel Industry, 25¢.

T - The Stone Industry, 25¢.

U-Contract Diamond Drilling in the Mining Industry, 25¢.

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# THE GOLD MINING INDUSTRY 1951

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 1951 the production of gold amounted to 4,392,751 fine troy ounces valued at \$161,872,873 compared with 4,441,227 ounces valued at \$168,988,687 in 1950. 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 24 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, Alberta and Nova Scotia.

During most of the year the exchange value of the United States dollar was approximately \$1.05 Canadian dollars, but towards the end of the year it declined to less than \$1.02. The average price for gold during 1951 was calculated at \$36.85 Canadian dollars.

An Order-in-Council was passed by the federal government in October, 1951, to permit the gold producers to sell 22 karat gold on the premium market. However, the Order provides for a reduction in aid payable under the Emergency Gold Mining Assistance Act if the mine elects to dispose of its gold on the premium market.

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

TABLE 1. Production of Gold, Fifty Years, 1902-1951

	Year	Fine ounces	\$	Year	Fine ounces	\$
		The state				
1902	***************************************	1,032,161	21, 336, 667	1927	1, 852, 785	38,300,464
1903	***************************************	911,559	18,843,590	1928	1, 890, 592	39,082,005
1904	***************************************	796.374	16, 462, 517	1929	1,928,308	39,861,663
1905	***************************************	684, 951	14, 159, 195	1930	2, 102, 068	43, 453, 601
1906	103351330340303743414336443747444443647444616789767686677	556, 415	11,502,120	1931	2, 693, 892	58,093,396
1907	171741487148744848148144887777777777777	405,517	8,382,780	1932	3,044,387	71, 479, 373
1908	***************************************	476, 112	9,842,105	1933	2,949,309	84, 350, 237
1909	***************************************	453,865	9, 382, 230	1934	2, 972, 074	102, 536, 553
1910	***************************************	493, 707	10, 205, 835	1935	3, 284, 890	115, 595, 279
1911	4	473, 159	9,781,077	1936	3,748,028	131, 293, 421
1912	***************************************	611,885	12, 648, 794	1937	4,096,213	143, 326, 493
1913		802, 973	16, 598, 923	1938	4, 725, 117	166, 205, 990
1914		773, 178	15, 983, 007	1939	5,094,379	184, 115, 951
1915		918,056	18,977,901	1940	5, 311, 145	204, 479, 083
1916		930, 492	19, 234, 976	1941	5, 345, 179	205, 789, 392
1917	***************************************	738,831	15, 272, 992	1942	4,841,306	186, 390, 281
1918	***************************************	699,681	14,463,689	1943	3,651,301	140, 575, 088
1919	***************************************	766, 764	15,850,423	1944	2, 922, 911	112, 532, 073
1920	>>>>1000000000000000000000000000000000	765,007	15, 814, 098	1945	2, 696, 727	103, 823, 990
1921		926, 329	19, 148, 920	1946	2, 832, 554	104, 096, 359
1922		1, 263, 364	26.116,050	1947	3, 070, 221	107, 457, 735
1923	v1140144411141114111411141141114114114114	1, 233, 341	25, 495, 421	1948	3, 529, 608	123,536,280
1924		1,525,382	31, 532, 443	1949	4, 123, 518	148, 446, 648
1925	404000000000000000000000000000000000000	1, 735, 735	35, 880, 826	1950	4, 441, 227	168, 988, 687
1926	410444101000000000000000000000000000000	1, 754, 228	36, 263, 110	1951	4, 392, 751	161, 872, 873

TABLE 2. Total (Cumulative) Recorded Production of Specified Metals to December 31, 1951

	Since		Quantity	Value
The second secon				\$
Gold	1858	fine ounces	117, 384, 360	3,602,610,553
Silver	1887	7 4	999,009,683	585, 959, 34'
Copper	1886	tons	6,546,849	1, 818, 793, 716
Vickel	1889	16	3,050,257	1, 764, 262, 079
Lead	1887		5, 446, 568	670, 825, 025
Zine	1898	_	_	772, 696, 688
Cobalt	1904	tons	19, 379	40,535,073

TABLE 3. Production of Gold, by Months 1, 1949-1951

Month	1949	1950	1951	Month	1949	1950	1951
		Fine ounces				Fine ounces	I
January	310, 981	353,615	376, 874	July	3 27, 235	367, 766	346,690
February	308,724	349,291	349, 484	August	359,931	375, 924	347, 383
March	343,877	382, 624	374, 774	September	364,689	364, 361	361,386
April	327, 828	369,070	365,806	October	366,880	376, 315	380,827
May	333, 126	373, 124	371,585	November	362, 772	378, 294	374,888
June	344, 275	368, 347	364,910	December	373,200	382, 496	378, 144
				Total	4, 123, 518	4, 441, 518	4, 392, 751

<sup>1.</sup> 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, 1949-1951

Month	Gold ba:	production from se metal mines	m	Gold production from auriferous quartz mines and placer deposits			
	1949	1950	1951	1949	1950	1951	
			Fine o	unces			
January	34,838	47, 250	53,696	276,143	306, 365	323, 178	
February	31,309	45, 191	45,476	277,415	304, 100	304,008	
March	35,859	51,410	48,364	308,018	331, 214	326,410	
April	34, 115	50, 208	47,214	293,713	318,862	318,592	
May	34, 444	49, 827	45,737	298,682	323,297	3 25, 848	
June	37, 897	49,321	48, 257	306, 378	319,026	316,653	
July	37, 235	46,150	49, 277	290,000	321,616	297, 413	
August	39,888	46,039	51,735	320,043	329,885	295,648	
September	47,384	43, 283	49,840	317,305	321,078	311,546	
October	37,675	44,625	48,715	329,205	331,690	332, 112	
November	44,304	45,788	50,844	318,468	332, 506	324,044	
December	45,804	49, 235	47,554	327,396	333, 261	330, 590	
Total	460,752	568, 327	586, 709	3,662,766	3, 872, 900	3, 806, 042	

TABLE 5. Production of Gold , by Provinces, 1942-1951

	Nova S	Scotia	Que	bec	Ont	ario	Manil	oba
Year	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$
1942	12,989	500,076	1,092,388	42,056,938	2,763,819	106,407,032	136, 226	5,244,701
1943	4,129	158, 967	922, 533	35,517,521	2, 117, 215	81,512,777	91,775	3,533,337
1944	5,840	224,840	746, 784	28, 751, 184	1,731,836	66,675,686	74, 168	2,855,468
1945	3, 291	126,704	661,608	25, 471, 908	1,625,368	62,576,666	70,655	2,720,218
1946	4, 321	158,797	618,339	22, 723, 958	1,813,333	66, 639, 988	79,402	2,918,024
947	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
	Saskato	hewan	British Columbia		Yukon		Northwest Territories	
1942	178,871	6,886,533	474,339	18,262,052	83, 246	3,204,971	99,394	3,826,669
	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
945	108,568	4,179,868	186, 854	7,193,879	31,721	1, 221, 258	8,655	333, 218
946	112,101	4, 119, 712	136, 242	5,006,893	45, 286	1,664,260	23, 420	860, 685
947	93,747	3, 281, 145	249,011	8,715,385	47,745	1,671,075	62,517	2, 188, 095
948	87,927	3,077,445	306, 998	10,744,930	80,614	2, 121, 490	101,625	3,556,875
949	94, 208	3,391,488	304,307	10, 955, 052	81,970	2,950,920	177, 493	6,389,748
950	79,784	3, 035, 781	290, 490	11,053,144	93, 339	3,551,549	200, 663	7,635,227
951	110,216	4,061,460	289, 992	10,686,205	77, 504	2,656,022	212, 211	7,819,975

<sup>1.</sup> 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 and 8,515 ounces in 1951.

TABLE 6. Production of Gold, by Provinces, According to Nature of Ores, 1950 and 1951

Year and Province	Placer gold	Auriferous quartz ores	Copper-gold- silver ores	Nickel-copper ores	Silver-lead and other ores	Total
			Fine	ounces		
1950						
ve wfoundland	-	_	_	_	9, 254	9, 25
Iova Scotia	_	6.5	_	_		6
Duebec	_	743, 241	332, 592	_	18, 812	1,094,64
ntario		2, 444, 839	7	36, 264	_	2, 481, 11
lanitoba	-	137,020	54, 705	_	-	191,72
askatchewan	_	_	79, 784	_	_	79, 78
lberta	152	_	-	-	_	15
ritish Columbia	14,632	238,949	12,779	-	24, 130	290, 49
forthwest Territories	20	200.643	_	_	-	200,66
rukon	93,339		-	_	_	93, 33
Canada	108, 143	3, 764, 757	479, 867	36, 264	52, 196	4, 441, 22
1951						
lewfoundland	-	_	_	_	8, 515	8, 51
ova Scotia		1.7		-	_	
nepec	38	724, 878	316, 849	_	25, 541	1,067,30
ntario	_	2, 422, 505	80	40, 394	_	2, 462, 9'
anitoba	_	126, 867	37, 047		_	163, 9
askatchewan	_	-	110, 216	-	- 1	110. 21
lberta	97	-	-	mar.	-	1
ritish Columbia	18, 802	223, 142	20, 488	_	27, 560	289, 99
orthwest Territories	-	212, 192	19	-	_	212, 21
ukon	77, 504	-	_	_	-	77, 5
Canada	96, 441	3, 709, 601	484, 699	40,394	61, 616	4, 392, 73

TABLE 7. Gold Production by Provinces and Principal Areas, 1949-1951

	19	49	19	50	19	51
Province and Area	Fine ounces	\$	Fine ounces	\$	Fine ounces	\$
Jewfoundland	9, 269	333.684	9, 254	352, 115	8,515	313, 77
ova Scotia	64	2, 304	65	2, 473	17	62
uebec: Gold mines	703,677 260,507	25, 332, 372 9, 378, 252	743, 241 351, 404	28, 280, 320 13, 370, 922	724,878 342,428	26, 711, 75 12, 618, 47
Total Quebec	964, 184	34, 710, 624	1, 094, 645	41,651,242	1, 067, 306	39, 330, 22
Ontario: Gold mines: Porcupine Kirkland Lake Larder Lake Matachewan Sudbury Thunder Bay Patricia Other mines  Total Ontario	1, 047, 949 475, 819 314, 434 49, 526 32, 725 117, 863 280, 348 35, 845 2, 354, 509	37, 726, 164 17, 129, 484 11, 319, 624 1, 782, 936 1, 178, 100 4, 243, 068 10, 092, 528 1, 290, 420 84, 762, 324	1, 100, 122 448, 391 341, 081 50, 048 36, 930 131, 413 336, 854 36, 271 2, 481, 110	41, 859, 642 17, 061, 278 12, 978, 132 1, 904, 326 1, 405, 187 5, 000, 265 12, 817, 295 1, 380, 111 94, 496, 236	1,062,951 454,986 352,135 41,984 23,717 137,291 349,404 40,511 2,462,979	39, 169, 74 16, 766, 23 12, 976, 17 1, 547, 11 873, 97 5, 059, 17 12, 875, 53 1, 492, 83
	D; 00 E; 000	0111001001	0,100,100			
anitoba: Gold mines Other mines	106,755 30,644	3,843,180 1,103,184	137, 020 54, 705	5, 213, 611 2, 081, 525	126, 867 37, 047	4,675,04 1,365,18
Total Manitoba	137, 399	4, 946, 364	191, 725	7, 295, 136	163, 914	6, 040, 23
askatchewan: Gold mines Other mines	14 94, 194	504 3, 390, 984	79,784	3, 035, 78 i	110.216	4,061,46
Total Saskatchewan	94, 208	3, 391, 488	79, 784	3, 035, 781	110, 216	4,061,46
lberta (placer)	115	4, 140	152	5,784	97	3,57
Gritish Columbia: Gold mines (lode) Gold mines (placer) Other mines	260, 088 14, 497 29, 722	9, 363, 168 521, 892 1, 069, 992	238,949 14,632 36,909	9, 092, 009 556, 747 1, 404, 387	223, 142 18, 802 48, 048	8, 222, 78 692, 85 1, 770, 56
Total British Columbia	304, 307	10, 955, 052	290, 490	11, 053, 144	289, 992	10, 686, 20
orthwest Territories; Gold mines and placer	177.493	6, 389, 748	200,663	7, 635, 227	212, 211	7,819,37
ukon (chiefly placer)	81,970	2,950,920	93, 339	3,551,549	77,504	2,856.01
Total Canada	4, 123, 518	148, 446, 648	4, 441, 227	168, 988, 687	4, 392, 751	161, 872, 87

TABLE 8. Production of Gold and Silver by Principal Mines, 1951

Mine and Province	Ore hoisted	Material sorted (discarded)	Ore treated	Gold produced	Silver produced	Mill capacity - 24 hours	See foot note
		Tons		Fine o	unces	Tons	
American American							
NewFoundLand:  Base metal ores	324.000	_	324.000	8.515	534, 519	1,350	
Dase metal of the second	021,000					,	
NOVA SCOTIA:							
Royal Canadian Mint receipts from Nova Scotia mines	_		_	17	1	_	
QUEBEC:						]	
Anglo-Rouyn	37, 331	_	37,331	9,105	6,091		1
Relleterre Revcourt	129,032 65,135	5,579	123,257 51,447	38, 335	5.693 4.228	350	2
Barnat	194,543	_	194,543	27, 252	5, 297	600 1,300	2
Canadian Malartic Consolidated Beattle	462, 205 555, 800		462,205 555,800	38, 993 48, 797	17.528 23,780	1,800	2 2
Consolidated Duquesne Donaida	16,818 89,628		16.818 73.796	2, 517 12, 965	11,862	300	3, 4
East Malartic	441, 393	_	441,393	67,066	11,672	1,500	2 5
Elder Lamaque	148, 675 548, 999		145,662 548,999	24,647 119,520	20, 968	1,400	2
Malartic Goldfields O'Brien	571, 196 64, 824		571,196 64,758	103, 049 27, 825	4,739	1,500	2, 6
Poweil Rouyn	163,719	_	161,220	17,832	1, 234	450 425	2, 5
Perron Quesabe	29, 378 59, 223	95	29, 378 59, 128	4,826	705	400	2
Senator Rouyn	145, 562 420, 154	_	145,562 420,154	14, 404 74, 663	3, 945 15, 805	1,100	2
Sigma Stadacona	151,489	9,223	142, 266	23, 292	6,772	400	2
Sullivan Consolidated	222, 537	42, 724	179,813	41,564	10, 41 1	500	2
Total for principal gold mines in Quebec				718, 985			
Copper-polition fatter cres				348, 321	3,994,098		
Total Quebec				1, 067, 306	4, 154, 290		
Demokrat							
Porcupine District							
Aunor	175, 977	-	175, 977	65.473	4,886	300	2 7
Bonwhit	36, 513 8, 068	_	36,513 8,068	5, 862 2, 944	_	_	7
Broulan Reef Buffalo-Ankerite	172,877 117,836	3,757	169, 120 118, 995	51, 123 25, 151	3,974 1,671	1, 250	2
Coniaurum	126, 295	-	126, 295	31,940	5,581 3,060	500 520	2 2
Delnite Dome	139,551 688,000	_	139,278 686,000	40.413 165,747	36, 927	1,850	2, 6
Hallnor Hollinger-(Timmins)	138, 424 929, 729	_	138,424 933,081	48,733 243,157	3,686 48,434	3,900	2 2
Hollinger-(Ross)	111,940	_	112,006	20, 248	38,811	300	2 7
Hugh-Pam McIntyre	7,740 754,470	_	7,740 754,640	207.028	42,934	2,400	2
Pamour Paymaster	581,746 182,603	_	581,746 174,417	55,654 37,482	4, 705 11, 862	1,600	2 2
Preston East Dome	233, 040	_	233,516	60,467	7, 255	800	2, 6
Kirkland Lake District							
Kirkland Lake Gold	124,944	_	124,944 359,489	42,036 135,488	3, 955 45, 166	1,500	2
Lake Shore Macassa	135,440	_	135,440	44,597	9,048	400	2
Sylvanite Teck Hughes	170,971 198,089	_	171,017	16,573 48,583	9,557 9,937	600	2
Toburn	43,855	3,330	40,525 151,568	15,543 42,352	2, 25 2 15, 482	175 400	2 2
Upper Canada Wright-Hargreaves	151,568 182,210	_	182, 210	79, 671	17, 207	1, 200	2
Larder Lake District							
Chesterville	313,948	-	313,948	21, 198	1,364	900	2
Kerr Addison	1,613,114	-	1,612,707	330, 937	17, 407	4,000	2
Matachewan District							
Matachewan Consolidated	259,092	_	259,092	23,186	14, 230	1,000	2
Young Davidson	307, 257	-	307,254	18, 798	3, 825	1,050	2

Shipped to Powell Rouyn mill.
Cyanidation.
Shipped to Perron Mill.
Shipped to Consolidated Beattle.
Shipped to smelter.
Amalgamation process.
Shipped to Broulan Reef mill.

TABLE 8. Production of Gold and Silver by Principal Mines, 1951 - Concluded

Mine and Province	Ore hoisted	Material sorted (discarded)	Ore treated	Gold produced	Silver produced	Mill capacity — 24 hours	See foot note
		Tons		Fine	ounces	Tons	1
ONTARIO - Concluded							
Sudbury District							
Renable	89, 036		88,736	23,673	7,549	450	1
	00,000		001,100				
Thunder Bay District							
Hard Rock Leitch		9,094	111,996 29,988	9,504 24,965	8 16 785	600	1, 2
Little Long Lac MacLeod-Cockshutt	103, 443	1,712	101,731 366,547	26,889 69,939	2.668 4,353	1,200	1, 2
Magnet Consolidated Theresa	22, 291	212	22, 29 l 2, 013	4,855 982	615	150	1, 2
THE COS	2, 223	212	2,015	302	33		
Patricia District							
Campbell Red Lake Central Patricia		7, 738	173, 143 84, 802	69.563 24.349	5,068 2,395	400 400	1, 2
Cochenour Willans	70,531	10 270	70,531	35,356 14,390	1, 036 4, 844	225 400	1, 2
Hasaga Madsen Red Lake	302, 240	10,379	133, 191 302, 227	61,680	14,708	800	1, 2
McKenzie Red Lake New Dickenson		10,090	80,828 90,572	23,591 37,319	5,537 2,508	240 290	1, 2
New Jason Pickle Crow		7, 739	36, 441 105, 645	12,675 45,783	1, 276 6, 858	150	1, 2
Starratt Olsen	150, 437	-	151, 187	24,698	5, 024	500	1
Total for principal gold mines in Ontario		- 166		2,392,044	429, 295		
Nickei-copper and other mines				70.935 2.462,979	4,090,799		
Total Ontario	· h	100		2, 402, 919	4,320,094		
MANITOBA:							
Howe Sound		52,741	702,092 13.553	69, 995 6, 137	8, 237 498	2,000	1
Ogama-Rockland San Antonio	191, 406	3,370	191, 536	49,569	8, 202	550	1
Copper-gold and other ores				38, 413 163, 914	596, 204 <b>613, 141</b>		
I OURT MIKELEODIK	•=			200,000	0.20,1.11		
SASKATCHEWAN:							
Copper-gold and alluvial ores				110, 216	1,454,341		
ALBERTA:							
Alluvial gold	n.	THAT I		97	9		
Braiorne	168, 194		168, 194	79,593	21, 500	500	2
Cariboo Gold Quartz	69,842	-	69, 842 39, 290	24,374 16,736	2, 383 2, 377	350 150	1 1
Island Mountain	115,488	_	115,488	43,429	2,922	325	1,4
Kelowna Exploration (French) Polaris-Taku	7,427	_	7,427 20,700	14, 583		300	5
Pioneer Total for principal gold mines in B.C.	77,720	-	77,720	38, 202 219, 334	8, 216 37, 398	325	1
				18,602	3, 030		
Placer gold				51,856	8, 301, 986		
Total British Columbia				289, 992	8,342,414		
Northwest Territories:							
Consolidated Mining & Smelting	121,938	_	121,938	62,642	17,872	355 100	1, 2
Discovery Yellowknife Giant Yellowknife	31,915	_	31,915 147,337	20,948 107,781	2, 178 38, 392	425	1, 1
Negus Other ores	79,971	1,929	78,042	20,821	5, 786	225	
Total Northwest Territories				212,211	64,228		
YUKON:							
Placer and silver-lead ores	***			77,504	3,442,788		
Total Canada				4,392,751	23, 125, 825		

Cyanidation.
 Amalgamation process.
 Shipped to San Antonio mill.
 Flotation process, concentrates exported.
 Milled at Nickel Plate mine.

TABLE 9. Gold Production of the World 1 — (Omitting Russia) — 1947-1951 (Taken from the Annual Report of the American Bureau of Metal Statistics)

Country	1947	1948	1949	1950	1951		
			Fine ounces				
North America:	1		1				
United States	2,320,531	2, 099, 178	1, 996, 435	2, 375, 130	1,996,493		
Canada	3,070.221	3, 529, 608	4, 123, 518	4, 441, 227	4, 328, 931		
Newfoundland	14,600 464,728	339, 183	405, 540	408, 112	393, 420		
Total North America	5, 870, 080	5, 980, 221	6, 525, 493	7, 224, 469	6, 718, 844		
Central America and West Indies	250,000	270.000	242,000	180.000	180,000		
South America:							
Brazil <sup>2</sup>	135, 544	130, 243	119, 179	131, 700	141, 397		
Chile	168, 852	164, 126	179, 140 359, 475	185,538 379,412	173.674 430,723		
Colombia Ecuador	383, 027 55, 000	335, 260 70, 196	80, 982	83, 071	250, 120		
Peru	116,014	111, 160	113, 753	147, 968	144, 367		
Guiana:							
British	21, 111	16,518	21,098	13,740	14, 689		
Dutch French	4, 134 14, 918	13,625	14, 265	12, 249	12, 056		
Venezuela	22, 409 20, 000	49, 730 20, 000	61,377	34, 465			
Other South America  Total South America	941, 009	915, 025					
Ewope	200, 000	300,000	400,000	400,000			
Australia;							
New South Wales	50, 082	52, 164 69, 646	51, 793 76, 282	51, 350 88, 249	49, 149 76, 586		
Queensland	72, 281 84, 709	68,580	68, 426	67,826	63, 697		
vestern Australia	703, 886	664,985 12,904	648, 425 12, 152	610, 333 15, 578	627, 777		
Tismania Other Australia	15, 05 1 11, 645	17, 225	31,979	36, 201	39, 308		
Total Australia (Commonwealth)	927, 654	885, 504	889, 057	869, 537	870, 963		
New Guinea	59, 202	86,556	93,045	80,099	94.083		
New Zealand Fiji	112, 260 94, 295	93,903 98,000	84,874 104,036	76, 527 103, 421	75, 182 94,000		
Asia:							
China	107, 535	88, 200					
India	171, 782	180,852	164, 151	196,848	226, 233		
Japan Korea <sup>3</sup>	55,029 329,000	69,060 3,466	84, 492 3, 418	132, 332	189,000		
Philippines Republic	64, 441	209, 225	287,844	333,991	367,000		
Saudi ArabiaOther Asia	52,000 12,958	74,000 23,327	66,835	66, 202	65,000		
Total Asia	792, 746	648, 130	-				
Africa:							
Rechuanaland	7, 381	1,507	256	261			
Belglan Congo	301,438	299,767	333.847	339.408	352,300		
British West Africa	562, 614 25, 700	677, 480 41, 595	681,606 45,102	695, 190 43, 200	657, 200		
French Cameroons	11,574	10,719	8,931	7, 973	5, 420		
French Equatorial Africa	64,034 21,959	63, 715 23, 429	57, 259 20, 072	54, 996 31, 314	52,848 19,000		
Liberia	19,000	13,797	14,656	13,841			
Madagascar Rhodesia	1,521 552,735	2,095 514,440	2,508 528,180	1, 125 511, 163	1, 948 486, 90°		
Tanganyika	47, 300	57, 557	68, 989	65, 127	65,583		
Transvaal, Cape Colony, Natal	11, 200, 281	11,584.849	11, 708, 013	11,663,713	11,516,450		
AgandaOther Africa	1, 432 27, 065	921 40,800	63,900	586 44,400	223		
Total Africa	12, 814, 924	13, 332, 671	13, 534, 190	13, 472, 297			
Russia <sup>5</sup>	7,000,000	7,000,000	7,000,000	7,000,000			
Total	29, 071, 279	29, 670, 020	_				
1	40,011,413	20,010,020					

in compiling this table, free use has been made of the reports of the United States Director of the Mint.
Mined gold only: production of alluvial gold unknown.
Reginning 1948 South Korea only.
Comprising Gold Coast. Sierra Leone and Nigeria.
As reported by Director of the Mint.

TABLE 10. Gold Production According to Method of Computation and Recovery, 1942-1951

Year	In alluvial gold	In crude gold bullion produced at mines	In base bullion produced at lead smelters	In blister and anode copper produced 2	In ores, matte, slags, etc., exported	Total gold produced
	%	7c	9/,	%	%	Fine Ounces
1942	2.3	80.8	0.2	12. 1	4.6	4,841,306
1943	1.45	78.71	0. 19	15.61	4.04	3,651,301
1944	1. 14	78.98	0.12	15.41	4.35	2,922,911
1945	1.55	76.77	0.09	15.30	6. 29	2, 696, 727
1946	2. 15	80.91	0.16	13.48	3.30	2,832,554
1947	1.74	84.4	0. 15	9.41	4.3	3,070,221
1948	2. 23	83.19	0. 22	10.01	4.35	3,529,608
1949	2.35	83.94	0. 23	9.71	3.77	4, 123, 518
1950	2.43	81.51	0.38	12.26	3.42	4, 441, 227
1951	2. 19	81.86	0.33	12.20	3.42	4, 392, 751

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, 1939-1951

Month	1939	1940- 1945	1946	1947- 1948	1949 <sup>L</sup>	1950	1951
				Dollars		1	
January	35.30	38. 50	38.50	35.00	35.00	38.50	36.81
February	35.19	38.50	38.50	35.00	35.00	38.50	36.73
March	35.13	38.50	38.50	35.00	35.00	38.50	36, 65
April	35.15	38.50	38.50	35.00	35.00	38.50	37.07
May	35.13	38.50	38.50	35.00	35.00	38.50	37. 38
June	35.07	38.50	38.50	35.00	35.00	38.50	37. 42
July	35.06	38.50	35. 35	35.00	35.00	38.50	37. 13
August	35.01	38.50	35.00	35.00	35.00	38.50	36.96
September	37.21	38.50	35.00	35.00	36.52	38.50	36.94
October	38.43	38.50	35.00	35.00	38.50	36.86	36.78
November	38. 50	38.50	35.00	35.00	38. 50	36.43	36.53
December	38.50	38.50	35. 00	35.00	38.50	36.83	35. 89
Yearly average	36.14	38.50	36.75	35.00	36.00	38. 05	36.85

<sup>1.</sup> 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, 1948-1950

		Cost at works	
Material	1948	1949	1950
	\$	\$	\$
Fine gold	5, 882, 780	5,578,690	8,912,334
Gold alloys	636, 185	917,037	1,112,829
Fine silver	2,898,952	4,618,640	4,403,015
Silver alloys and sterling	3,037,540	4,095.635	3,509,982
Platinum	469.408	434,730	523, 275
Old gold, jewellers' findings, waste and scrap refining	1,571,467	2,327,295	2,023,120
Gold-filled wire and stock	348, 176	235,867	210,835
Precious and semi-precious stones	2, 168, 413	2,623,783	2,372,374

#### 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 purpose of The Emergency Gold Mining Assistance Act of 1948 was to assist the Canadian gold mine operators in meeting the greatly increasing post-war costs of production of gold, for which there had been in mid-1946 a reduction in price to \$35 per fine ounce from the price of \$38.50 per fine ounce

that had been paid by the Royal Canadian Mint since September 1939, and for which there had been no later compensating increase in price. It was designed primarily to assist the high-cost or marginal mines to continue in operation over a difficult period and to maintain their dependent communities.

#### Amendments to the Act and Regulations

The Act received Royal Assent on May 14, 1948, and came into force by proclamation on June 15, 1948. It authorized the then Minister of Mines and Resources to make assistance payments to operators of gold mines in respect of gold produced from their mines and sold to the Royal Canadian Mint, or exported from Canada and sold, during each of 3 designated years which were the calendar years 1948, 1949, and 1950. The Emergency Gold Mining Assistance Regulations, made by the Governor in Council under the authority of the Act, were approved by Order in Council P.C. 2664, June 11, 1948. The Act

was amended by Chapter 20, 13 George VI (Second Session), which received Royal Assent on December 10, 1949, and by Chapter 49, 15 George VI (First Session), the latter which received Royal Assent on June 30, 1951, authorizing the Minister of Mines and Technical Surveys to make assistance payments on a modified basis to gold mine operators in respect of gold produced and sold during the calendar or designated year 1951. The Regulations have been amended by Orders in Council P.C. 1753, April 12, 1950, and P.C. 3925, July 31, 1951.

# Basis for Making Assistance Payments in Respect of Gold Produced and Sold in the Designated Years 1948, 1949, and 1950

A gold mine was defined for the purpose of the Act as one whose value of gold output for the designated year was 70 per cent or more of its total value of production. The amount of assistance payable to a gold mine operator in respect of gold produced and sold in each of the designated years 1948, 1949, and 1950, subject to a deduction described later, was determined by multiplying the "rate of assistance" for the year by part of the number of ounces of gold so produced and sold. The "rate of assistance" for each of the designated years amounted to 50 per cent of the amount by which the average cost of production of gold per ounce for the year exceeded \$18, with a provision that in no case was the "rate of assistance" to exceed \$16. A "rate of assistance" that thus increased with the cost of production provided relatively larger assistance benefits to the high-cost or marginal mines.

For the designated years 1948, 1949, and 1950 the 'rate of assistance' applied to the number of ounces of gold by which the number of ounces 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 the designated year, whichever was the greater. In the case of old producing mines the "base year" was the period of 12 months ending on 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 when production was resumed after June 30, 1947. In the case of a new mine commencing production on or after July 1, 1946, the "base year"

was its first year of production the beginning of which was determined as required for the purpose of tax exemption under Section 4(x), Income War Tax Act, or Section 74, Income Tax Act. In the case of a new mine the rate of assistance applied to each ounce of gold produced and sold in that part of a designated year that was also part of its first year of production.

For the purpose of the Act the cost of production of gold from the mine was the cost incurred by the operator properly attributable to the gold produced from the mine during the period. This included mining, milling, smelting, refining, transportation, and administration costs; also amounts in respect of depreciation and amortization of pre-production and deferred development expenses, and costs of exploration and development in the mine, as determined in accordance with the Regulations.

During the period from September 20, 1949, when the Canadian dollar was devalued, until September 29, 1950, prior to freeing it from exchange control, the gold operators received \$38.50 per ounce for gold sold to the Royal Canadian Mint, or \$3.50 per ounce more than in the period when the Act came into force. Although they received this increase in price and the full assistance payments in respect of gold produced and sold in the last quarter of 1949, amendments to the Act in 1949 and 1951 provided that the assistance payments for the designated year 1950 would in each case be the amount calculated as originally provided less \$3.50 for each assistance ounce of gold produced from the mine and sold during the first 9 months of the year.

Basis for Making Assistance Payments in Respect of Gold Produced and Sold in the Designated Year 1951

Chapter 49, 15 George VI (First Session), An Act to Amend The Emergency Gold Mining Assistance Act, given Royal Assent on June 30, 1951, provided for the continuation of assistance payments in respect of gold produced and sold in the calendar or designated year 1951, but on a modified basis. These modifications were designed to reduce relatively the payments made to the low-cost mines, and included.

- (1) A reduction in the rate of assistance to 50 per cent of the amount by which the average cost of production of gold per ounce for the year exceeded \$22, the rate of assistance in no case to exceed \$11.50:
- (2) An increase in the assistance ounces to the number by which the production ounces for the year 1951 exceeded one-half the production ounces of the mine in its base year or to one-

half the number of ounces produced and sold in the year, whichever was the greater; and

(3) A new base year, being one of the calendar years 1948, 1949, or 1950 as the operator of the mine elected, if the first year of production of the mine commenced on or before January 1 of the year elected, and the mine had been in production for more than 6 months during the year. If none of these calendar years could thus be elected, the base year was the first period of 12 months following July 1, 1950, in which the mine was in production for more than 6 months.

The base year of a new mine continued to be the first year of production, as determined for the purposes of Section 74, Income Tax Act, and the rate of assistance continued to apply to each ounce of gold produced from the mine and sold during that part of 1951 that was also part of the first year of production.

Reductions in Amounts of Assistance Payable in Respect of Gold Produced in the Last Quarter of 1951 that Was Sold by the Mine Operator on the Premium Market

Under Order in Council P.C. 5774, October 26, 1951, which prescribed Mint Custom Refining and Storing Regulations, a gold mine operator could elect to sell gold on the premium market in Canada or outside Canada, subject to The Gold Export Act, and could avail himself of the refining and storage facilities therein made available. An operator was permitted to elect to deliver gold produced from his mine on or after the first day of October, November,

or December, 1951, to the Royal Canadian Mint under these regulations. In so electing, the operator in effect also instructed the Minister of Mines and Technical Surveys to deduct from the amount of assistance normally payable in respect of gold produced and sold in 1951, the proportionate part attributable to the gold produced on and after the elected date and delivered to the Mint under these regulations.

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

Province	1948	1949	1950	1951
		Dollars		
Quebec Ontario Manitoba British Columbia Northwest Territories Yukon	2,898,388 5,010.619 159,681 1,245,162 919,418 285,327	3,470,791 5,868,450 784,474 1,090,705 968,846 366,693	2,593,399 4,015,799 597,013 819,061 146,777 181,505	2,625,836 5,287,134 427,508 678,351 943,254 111,824
Canada	10,518,595	12,549,959	8,953,554	10, 073, 907

#### THE ALLUVIAL GOLD MINING INDUSTRY - 1951

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 1951 a total of 96,441 troy ounces of fine gold were recovered from crude gold obtained from Canadian alluvial deposits. This represented a decrease of 10.8 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.

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 1951 were made chiefly from deposits located in the Atlin and Carlboo districts. Output was estimated at 18,802 fine ounces.

Yukon — About 80 per cent of the placer gold recovered in Canada during 1951 was found in the creeks of the Yukon. Production in 1951 totalled 77,504 fine ounces.

About 362 persons were employed in this industry in 1951 and their earnings amounted to \$1,553,103. The total number of man-hours worked in 1951 was 1,547,017.

TABLE 14. Summary Statistics for Alluvial Gold Mining, 1950 and 1951

		1950			1951	
	British Columbia	Yukon	Alberta, Saskatchewan and Northwest Territories <sup>1</sup>	British Columbia	Yukon	Alberta, Northwest Territories and Quebec
Number of firms and individual operators 2	42	16	_			-
Number of employees	106	305	_	69	293	_
Salaries and wages paid\$	326,082	1, 272, 793	_	273, 236	1, 279, 867	_
Electricity generated for own use K.W.	н. –	1,577,300		120	1, 517, 100	-
Electricity generated for sale	_	_	-		_	_
Crude gold recovered 3 fine ou	nces 14,632	93, 339	172	18,802	77, 504	135
Quantity of material handled cu. y	ds. 494,066	7, 860, 497	_	335,487	7, 266, 422	-
Length of ditches mile	s 26	49	_			_
Total gross value of alluvial products \$	569, 917	3, 568, 056	6, 558	695, 719	2, 871, 860	4, 937
Fuel and Electricity used\$	44, 299	67, 772		33,641	11,037	-
Process supplies used	60,091	310,924	- 1	84,320	423,510	_
Cost of freight and express on dust, nuggets, bullion, etc., shipped 3	2, 505	20, 988	_	1,662	15,349	_
Cost of smelter, refinery and mint treatment on material shipped 3\$	3,848	21,921	_	3,528	48.127	_
Total net value of alluvial products\$	459, 174	3, 146, 451	6, 558,	572,568	2, 373, 837	4, 937

Represents receipts of fine gold at Dominion Assay office, Vancouver, British Columbia, or Royal Canadian Mint, Ottawa, Ontario.
 In addition to the number shown in the table, there are numerous small operators from whom returns were not obtainable.
 Information not completely available.
 Includes flume in use.

TABLE 15. Alluvial Gold Recovered and Quantity of Material Handled 1, 1942-1951

		British (	Columbia		Yukon				
Year	Material handled <sup>2</sup>	Gold recovered	Ounces per cu. yd.	Value per cu. yd.	Material handled <sup>2</sup>	Gold recovered	Ounces per	Value per cu. yd.	
	cu. yds.	Fine ounces		\$	cu. yds.	Fine	ounces	s	
1942	1,884,887	26,323	0.0139	0.5352	11,875,833	83, 198	0.0070	0. 2695	
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	695, 719	18,802	0.0270	0.9950	7, 266, 422	77, 504	0,0107	0.3942	

<sup>1.</sup> 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 of the entire auriferous quartz mining industry, including the value of all recoverable metals, totalled \$136,703,452 in 1951 compared with \$144,044,607 in 1950. The major producing provinces were Ontario with \$89,603,190, Quebec with \$26,433,685 and British Columbia with \$8,144,954.

The industry employed 22,126 persons to whom \$68,739,531 were distributed in salaries and wages. Fuel cost \$2,069,814 and 1,133,512,167 k.w.h. of electricity were purchased for \$5,721,772. Process supplies, which included explosives, chemicals, drill steel, etc., cost \$26,677,361. Canadian gold mining companies paid \$8,093,292 in taxes, and spent \$2,414,004 in prospecting and preliminary exploration of new areas or deposits.

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

TABLE 16. Principal Statistics for the Auriferous Quartz Mining Industry, 1950 and 1951

	Number of active opera- tors 1	Number of employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies used 2	Amount of freight, etc., paid on ship- ments of ore, slag, etc.	Smelter and refinery treatment costs	Gross value of bullion, ore, concen- trates or residues shipped from mines	Net 4 value of bullion, ore, concentrates or residues shipped from mines
				1	Dollar	S			
1950									
Nova Scotia	2	1	782	315	110	-	-	467	42
Quebec	132	5, 125	13, 760, 259	1,714,407	6, 205, 367	256, 725	927, 081	28, 780, 382	19, 676, 802
Ontario	100	14, 347	41, 213, 560	4,403,534	15, 395, 634	106. 285	590, 858	93, 167, 805	72, 671, 494
Manitoba	7	694	1, 981, 517	447, 971	912.156	14, 137	38.043	5, 220, 151	3, 807, 841
British Columbia	24	1,461	4, 386, 226	475, 282	1.469,990	216, 282	397, 565	9, 206, 688	6, 647, 569
Northwest Territories	16	863	3, 190, 770	832, 454	731, 895	17, 420	50,734	7, 669, 114	6, 036, 611
Canada	281	22, 491	64, 533, 114	7, 873, 963	24, 715, 152	610, 849	2, 004. 281	144, 044, 607	106, 108, 904
1951						-			
Nova Scotia	1	1	500	10	7	_	-	627	610
Quebec	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
Manitoba	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

<sup>1.</sup> Producing mines only; in 1949-103, in 1950-92, in 1951-84.

<sup>2.</sup> Explosives, chemicals, etc.
3. Value of bullion produced plus value of ore, concentrates, etc., shipped.

<sup>4.</sup> 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, 1951

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	Value of freight paid on shipments of ore, slag, etc.	Smelter and refinery treament costs <sup>2</sup>	Gross value of bullion, ore, concen- trates or residues shipped from mines <sup>3</sup>	Net4 value of bullion, ore, concentrates or residues shipped from mines
			\$	\$	\$	\$	\$	\$	\$
Quebec	21	4,592	13, 444, 600	1,688,613	6,368,913	253,718	691,344	26, 433, 685	17,431,097
Ontario.	45	14, 386	44, 503, 322	4,372.052	15, 979, 118	96, 107	648,579	89,603,190	68, 507, 334
Manitoba	3	590	1,886,794	355, 019	1, 202, 412	8, 766	33,099	4,655,079	3, 055, 783
British Columbia	10	1, 282	3, 917, 540	422,937	2,069,526	188,548	182, 231	8, 144, 954	5, 281, 712
Northwest Territories	5	831	3,618,692	820,092	857, 302	17, 501	55, 109	7,865,917	6. 115, 913
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
Canada, 1948	101	21, 325	56, 321, 068	6,601,520	19, 070, 440	609, 053	1, 149, 720	108, 664, 082	81, 233, 349

TABLE 18. Principal Statistics Relating to All Gold Mines in Ontario, by Areas, 1949-1951

Camp or district	Number of producers	Ore treated 2	Total gold recovered	Average ounces per ton recovered	Employees	Salaries and wages paid	Cost of fuel, electricity and process supplies
	No.	Tons	Fine ounces		No.	\$	\$
1949							
Porcupine	16	4,500,059	1,047,949	. 23	7,044	19,499,185	9,672,375
Kirkland Lake	9	1,288,886	475, 819	. 37	2,915	7, 855, 537	2,977,177
Larder Lake	2	1,860,742	314,434	.17	1,053	2,857,876	1,448,960
Matachewan	2	563,295	49, 526	. 09	281	759,770	646,825
Sud bury	1	155,049	32,725	. 21	218	572,418	346,873
Thunder Bay	1 8	466.525	117.957	.25	914	2,395,799	1,018,567
Rainy River and Kenora	} °	400,323	111,951	. 23	314	2,030,133	1,010,001
Patricia	10	1,032,663	280,348	. 27	1,609	5,045,651	2,301,969
Total	48	9, 867, 23 9	2,318,758	. 23	14,234	38, 986, 236	18, 412, 746
1950							
Porcupine	16	4, 562, 185	1,100,098	. 24	7.063	20.714.637	10, 013, 774
Kirkland Lake	8	1, 320, 949	448, 391	. 34	2.948	8, 169, 677	3, 210, 275
Larder Lake	2	1, 903, 733	341, 081	. 18	1,069	3,039,920	1,653,243
Matachewan	2	564, 616	50,048	. 09	261	760, 416	675, 665
Sudbury	1	157, 948	36, 930	. 23	249	672,983	407, 284
Thunder Bay	1				. 010	0.000.010	
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							
Porcupine	16	4.397.816	1,062,951	. 24	7,472	22, 839, 455	10,352,507
Kirkland 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
Matachewan	2	566,346	41, 984	. 07	267	795, 705	637, 086
Sudbury	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
Paricia	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

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

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 smelted.

TABLE 19. Ores Mined and Treated by Auriferous Quartz Mining Industry, 1942-1951

Year	Ore hoisted	Ore milled 1	Crude ore shipped to smelters <sup>2</sup>	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	
1942	17,722,866	16,820,442	282,334	658, 439	5, 176	3,898,999	39,512	193,068
1943	12,853,610	12, 206, 518	268, 334	361,522	29.716	2,869,635	36, 429	109,055
1944	10.790,495	10,330,899	205, 379	234, 820	18,233	2, 300, 090	26, 535	103, 946
1945	9,780,555	9, 437, 796	177, 208	136, 328	_	2,068,910	27,019	109, 487
1946	10.712.615	10, 306, 720	146,075	229, 237	_	2, 289, 647	19,532	71,819
1947	11,632,841	11,296,610	146, 469	205, 250	1,376	2, 590, 589	19,001	109,826
1948	13,630,705	13, 110, 271	224, 123	224,374	537	2,934,160	29, 143	114, 378
1949	15,999,866	15,374,803	243, 137	184, 373	112	3, 423, 303	34,405	143, 274
1950	16,980,027	16, 297, 461	315,390	206,797	_	3,630,358	46, 202	98,804
1951	16.548.264	15, 907, 335	311,324	171, 137		3, 572, 655	41,549	84,812

<sup>1 + 2 =</sup> 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, 1951

		Nova Scotia	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories	Canada
Number of producing mines			21	45	3	10	5	84
Ore mined to	ons	_	4,541,340	10, 211, 339	915, 689	498,735	381, 161	16,548,26
Material discarded (sorted)	**	_	57,620	55,477	56, 111	-	1,929	171, 137
Ore milled (ground, etc.)		_	4, 152, 133	9,983.641	893, 628	498,701	379, 232	15, 907, 335
Tailings re-treated	_	_	_	_		_	-	
Gold content of ores, slags, residues and concentrates shipped:								
To foreign smelters fine o	ounces	-	72		-	77, 637		77. 709
To Canadian smelters	44	-	41,932	6,367	206	147		48, 652
Bullion bars shipped:				4				
Gold content fine o	ounces	17	671, 221	2, 414, 362	126,660	145, 276	212,624	3,570,160
Silver content	44	1	152, 227	408,896	16,547	27, 262	63,826	668,759
Content of bullion bars produced:								
Gold fine o	ounces	17	672.714	2, 415, 795	126,661	145, 276	212, 192	3, 572. 655
Silver	1.0	1	152, 117	420, 143	16,547	27, 262	64. 228	680, 298
Gold value	\$	626	24, 744, 185	88.960.626	4,631,516	5, 339, 667	7.808,521	131, 485, 141
Silver value	\$	1	142,660	396.732	15, 548	24, 480	57, 396	636, 617
Value of ores, concentrates, slags and residues sold (shipped)	\$	_	1,546.840	245, 832	8.015	2, 780, 807	-	4, 581, 494
Total gross value of production	\$	627	26, 433, 685	89, 603, 190	4, 655, 079	8, 144, 954	7, 865, 917	136, 703, 452
Value of fuel, electricity and process supplies used, also freight on ship- ments, marketing, smelter and refinery			0.150.451	01 020 220	1 500 200	2,880,437	1.774.423	36, 643, 945
cbarges	\$	17	9, 159, 474	21, 230, 302	1, 599, 296			
Net value of production	\$	610	17, 274, 211	68, 372, 888	3, 055, 783	5, 264, 517	6, 091, 494	100, 059, 50

<sup>1.</sup> Not recorded.

TABLE 21. Ores, Concentrates, Slags, etc., Shipped to Smelters from Canadian Gold Mines, 1942-1951

	Ore	S	Concer	ntrates	Slags, re precip	esidues, itates
Aeat	Tons	Gold content- fine ounces	Tons	Gold content- fine ounces	Tons	Gold content- fine ounces
To Canadian Plants						
942	280, 978	38,492	2,555	7, 307	137	2, 83
943	268, 334	36, 429	4,490	12, 335	311	2,06
944	205, 379	26, 535	4, 835	lt, 900	143	1, 85
945	177, 099	26,834	5,474	13,903	647	1,83
946	146,075	19,532	5, 155	10,646	314	2, 35
947	146, 469	19,001	2,538	5, 313	296	1,96
048	223, 834	28, 997	630	2, 192	248	2,86
349	243, 121	34, 114	325	1, 196	253	3, 69
950	294, 387	45, 215		-	153	5, 2
951	296, 341	41,398	-	9	349	7, 24
To Foreign Plants						
942	1, 356	1,020	40,428	126,931	68	55,99
943	_	-	20,615	59,949	40	34, 70
944	_	_	20, 755	54, 233	73	35,9
945	t09	185	19,596	49, 193	47	44.5
946	_	-	11,969	49, 164	25	9,6
947	_	-	25.765	67, 929	32	34, 5
948	289	6, 400	24,446	64,531	36	44, 7
949	16	291	25, 331	69, 935	29	34,04
950	51	987	20,471	53,811	15	39, 7
951	34	151	14, 303	37.360	29	40, 1

TABLE 22. Shipments from Auriferous Quartz Mines, 1950 and 1951

	O 4 i 4			Total gross m	etal content		
	Quantity	Gold	Silver	Copper	Lead	Zinc	Other
	Tons	Ounc	es		Poun	ds	
1950		1					
To Canadian smelters:							
Gold ore	294, 387	45, 215	1,994		8.904	4,997	-
Gold concentrates	-	-	-		-		_
Slags, precipitates, residues	153	5, 220	5,663	544	-	-	_
Arsenical material	313	-	no.		-	Wheek	264
To foreign smelters:							
Gold concentrates	20,471	53, 811	9, 468	-	_	_	640
Slags, precipitates, residues	15	39,773	3, 956	_	-	-	_
Gold ore	51	987	2, 544	-	-	-	_
Total	315, 390	145, 006	23, 625	544	8, 904	4, 997	-
1951							
To Canadian smelters;							
Gold ore	296, 341	41,398	72	_	169	793	_
Gold concentrates	_	9	1	_	-	- 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	-	- 1	
Slags, precipitates, etc.	29	40, 126	3,019	-	_	-	_
Arsenical material	268	72	_	-	-	_	225
Total	311.324	126, 361	21, 902	155, 983	169	793	-

<sup>1.</sup> Tons of arsenious oxide.

TABLE 23. Certain Data Relating to the Production of Gold by the Entire Auriferous Quartz Mining Industry, 1942-1951 (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 bullion shipped, per ounce of gold produced	Taxes per ounce of gold produced	Total of specified costs
	Ounces	\$	\$	\$	\$	\$	\$
1942	176	1.84	11.47	4.34	0.75	Information not available	18.40
1943	176.7	2.12	11.47	4.24	0.69	4.89	23.41
1944	159	2.43	12.81	4.60	0.81	4.15	24.80
1945	140	2. 45	14.08	5.09	0.74	3.74	26. 10
1946	122	2. 63	16.77	6.05	0.59	3.08	29. 12
1947	132	2.62	17. 28	6.56	0.52	1.93	28.91
1948	151	2. 27	16.82	6, 35	0.57	1.47	27.48
1949	176	2. 05	15.03	6. 52	0.68	1.73	26.01
1950	186	2.08	14.83	6.55	0.69	2.08	26. 23
1951	193	2.11	15.60	7. 21	0.59	2. 19	27, 70

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, 1942-1951

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 bullion shipped, per ounce of gold produced	Taxes per ounce of gold produced	Total of specified costs
	Ounces	\$	\$	\$	\$	\$	\$
1942	177	1.83	11.41	4.33	0.75	Information not available	18.32
1943	177	2.12	11.42	4.23	0.69	4.89	23,35
1944	163	2.41	12.59	4.57	0.81	4.12	24.50
1945	151	2.34	13. 17	4.97	0.74	3.68	24.90
1946	141	2.35	14.38	5.69	0.59	2.99	26.00
1947	148	2.29	15.20	6.10	0.52	1.86	25.97
1948	159	2. 14	16.00	6. 20	0. 57	1.41	26.32
1949	179	2. 02	14.83	6.45	0.68	1.71	25.69
1950	191	2.04	14.50	6.46	0. 69	2.06	25.75
1951	197	2.07	15.31	7.16	0.59	2. 17	27.30

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, 1942-1951

Year	Tonnage treated 1, 3	Gold content 2	Sllver content <sup>2</sup>	Ounces of fine gold per ton	Ounces of fine silver per ton	Average price of gold	Average price of silver
	,	Fine our	ces			\$ per	OZ.
942	17, 102, 776	4,131,579	2, 186, 369	. 24	. 13	38.50	0.422
943	12, 474, 852	3,015,119	1,399,778	. 24	.11	38.50	0.452
944	10, 536, 278	2,430,571	906,788	. 23	.09	38.50	0.430
945	9,615,004	2, 205, 416	1, 205, 147	. 23	.13	38. 50	0. 47
946	10,452,775	2, 380, 998	1,025,619	. 23	. 10	36.75	0.836
947	11,443.079	2,719,416	845,749	. 24	. 07	35.00	0.72
948	13,334,931	3,077,681	1,044,912	. 23	. 08	35.00	0.75
949	15,617,940	3, 566, 577	682,569	. 23	.04	36.00	0.743
950	16, 297, 461	3,775,364	715,991	. 23	. 04	38.05	0.808
951	15, 907, 335	3,699,016	658,719	.22	. 04	36.85	0.945

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

TABLE 26. Specified Costs per Ton of Ore Milled at Certain of the Principal Auriferous Quartz Mines, 1951

Name of mine	Develop- ment and explora- tion	Mining	Milling	General <sup>2</sup>	Fotal before deprecia- tion and taxes	Depre- ciation	Taxes	Total costs
QUEBEC:		}	d <sub>a</sub>	Dol	lars			
Anglo Rouyn Mines Ltd. Barnat Mines Ltd. Belleterre Quebec Mines Ltd. Canadian Malartic Gold Mines Ltd. Consolidated Beattie Mines Ltd. Consolidated Duquesne Mining Co. Ltd. Donalda Mines Ltd. Fast Malartic Mines Ltd. Corsien Gold Mines Ltd. Lamaque Mining Co. Ltd. O'Brien Gold Mines Ltd. Quesabe Mines Ltd. Senator-Rouyn Ltd. Sigma Mines (Quebec) Ltd. Stadacona Mines (1944) Ltd. Sullivan Consolidated Mines Ltd.	0. 40 0. 54 1. 46 0. 477 0. 350 3. 57 0. 573 0. 687 1. 29 1. 46 1. 63 0. 266 1. 006 0. 96 1. 88	2. 95 2. 57 5. 87 1. 292 2. 435 1. 55 3. 847 3. 052 4. 32 8. 26 3. 72 3. 408 2. 860 2. 07 4. 13	3.02 0.97 1.55 0.657 1.000 3.62 1.894 0.695 0.85 2.30 2.03 0.987 1.04	i. 07 0. 93 0. 27 0. 521 0. 489 i. 88 0. 897 0. 342 0. 10 3. 70 1. 75 0. 142 0. 98 0. 98	7. 44 5. 01 9. 15 2. 947 4. 274 10. 62 7. 211 4. 776 6. 56 15. 72 9. 13 4. 803 5. 092 4. 88 7. 40	2.72 0.41 0.140 - 1.239 1.021 0.27 0.42 - 0.170 0.165 0.96 0.38	0. 19 0. 07 0. 99 0. 016 0. 026 	10. 35 5. 08 10. 55 3. 103 4. 300 10. 62 1. 282 5. 918 7. 27 16. 31 9. 13 5. 008 5. 722 5. 90 8. 08
ONTARIO:								
Porcupine District  Aunor Gold Mines Ltd. Bonetal Gold Mines Ltd. Proulan Reef Mines Ltd. Buffalo Ankerite Gold Mines Ltd. Coniaurum Mines Ltd. Hallnor Mines Ltd. Hollinger Consolidated (Timmins). Hollinger Consolidated (Ross). McIntyre Porcupine Mines Ltd. Pamour Porcupine Mines Ltd. Preston East Dome Mines Ltd.	1. 36 1. 70 0. 73 3. 15 1. 94 1. 02 0. 609 0. 938 1. 07 0. 54 2. 636	6. 62 2. 17 3. 09 4. 52 4. 62 3. 84 5. 276 6. 13 1. 62 5. 036	1.34 1.37 1.04 1.40 1.12 1.49 0.921 1.936 1.15 0.70 0.989	1. 01 0. 86 1. 40 0. 72 1. 66 1. 20 1. 722 0. 830 0. 19 0. 37 0. 249	10. 26 6. 10 6. 26 9. 79 9. 34 7. 55 8. 528 6. 481 8. 54 3. 23 8. 910	0.30 	0. 99 1. 05 0. 05 0. 05 1. 92 0. 405 0. 169 1. 01 0. 05 0. 190	11. 62 6. 10 7. 31 10. 05 9. 45 9. 56 9. 180 6. 817 9. 69 3. 34 9. 367
Kirkland Lake District Macassa Mines Ltd. Peck-Hughes Gold Mines Ltd. Upper Canada Mines Ltd. Wright-Hargreaves Mines Ltd.	1. 353 0. 60 1. 22	6.300 3.84 3.89 7.719	1.384 1.24 1.24 1.487	1. 432 0. 42 0. 64 1. 916	10. 469 6. 10 6. 99 11. 102	0.240 0.03 0.88 0.127	0.619 0.89 0.69 1.594	11.328 7.02 8.56 12.823
Larder Lake District Chesterville Mines Ltd	0.10 0.969	1. 19 1. 277	0.92 0.807	0.40 0.463	2.61 3.516	0.593	1. 235	2.61 5.344
Matachewan District Matachewan Consolidated Mines Ltd. Hollinger Consolidated (Young Davidson)	0.029 0.084	1. 209 1. 466	0.762 0.778	0.666 0.347	2. 666 2. 675	0.032	=	2.698
Thunder Bay District  Leitch Gold Mines Ltd.  Little Long Lac Gold Mines Ltd.  MacLeod-Cockshutt Gold Mines Ltd.  Magnet Consolidated Mines Ltd.	5.40 0.55 0.714 0.09	11.10 5.70 2.200 4.72	3.75 2.00 1.240 1.82	0. 27 1. 64 0. 767 0. 92	21.52 9.89 4.921 7.55	1.95 0.10 0.415	1. 75 0. 07 0. 126	25. 22 10. 06 5. 462 7. 55
Patricia District  Cochenour Willans Gold Mines Ltd.  Hasaga Gold Mines Ltd.  Madsen Red Lake Gold Mines Ltd.  McKenzie Red Lake Gold Mines Ltd.  New Dickenson Mines Ltd.  Plckle Crow Gold Mines Ltd.  Starratt Olsen Gold Mines Ltd.	2. 381 0. 854 1. 450 1. 541 0. 80 2. 05 0. 529	4.599 2.596 2.410 4.584 4.12 6.50 2.450	2.126 1.062 1.038 1.585 2.20 1.60	1.675 0.646 - 1.641 2.14 1.37 0.280	10. 781 5. 158 - 9. 351 9. 26 11. 52 4. 663	1.533 0.628 	2. 138 — 0. 157 0. 12 0. 96 0. 280	14. 452 5. 786 10. 516 2. 62 13. 16 4. 943
BRITISH COLUMBIA:								
Braiorne Mines Ltd	1.66 3.95 5.35 1.44 0.08	5.77 7.40 8.53 9.58 2.76	1. 19 2. 69 3. 02 2. 53 5. 26	3.65 0.40 0.14 1.70 2.65	12. 27 14. 44 17. 04 15. 26 11. 25	-	0.98 - 0.18 0.19	13. 25 - 15. 44 11. 44
VORTHWEST TERRITORIES:								
Consolidated Mining & Smelting Co Giant Yellowknife Gold Mines Ltd. Discovery Yellowknife Mines Ltd. Negus Mines Ltd.	1.82 2.83 6.31 2.013	6.92 3.57 5.89 5.716	4. 72 4. 63 4. 15 1. 961	2. 74 3. 55 5. 55 2. 904	16.20 14.58 21.90 12.593	9.63	-	24. 21

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

TABLE 27. Milling Capacity of Operating Canadian Gold Mines, 1942-1951

Year	Nova Scotla	Quebec	Ontario	Manitoba	Saskat- chewan	British Columbia	Northwest Territories	Canada		
	Tons of 2,000 pounds per 24 hours									
94.2	247	14,330	36, 135	903	1,202	4,303	710	57,83		
943	280	13,304	32, 555	753	2	2,845	510	57,83 50,24		
944	180	13,059	30,710	550	_	2,650	66	47, 21		
45	187	12,600	30, 457	550	_	2,740	417	46,95		
46	172	12,035	30,370	550	***	3,052	417	46,59		
47	50	13,010	29,430	550	_	3, 235	467	46,74		
48	***	12,395	29,990	700	_	2,550	1,150	46, 78		
49	25	13,460	33, 150	2,700	_	2,690	1,135	53, 16		
50	_	12,400	33, 175	2,700	_	2, 125	785	51, 18		
951	_	12,825	33, 998	2,695		1,950	1, 105	52, 57		

TABLE 28. Employees and Earnings in the Entire Auriferous Quartz Mining Industry, 1950 and 1951

		Num	ber of empl	oyees			Earnings				
Province	Administrative and office		Work	men	Total	Administrative and	Workmen	Total			
	Male	Female	Male	Female		office					
	- ,11					\$	\$	\$			
1950											
Vova Scotia Quebec Intario Manitoba Mritish Columbia Vorthwest Territories	486 1,227 74 159 90	- 36 110 13 17 14	4,589 12,953 586 1,264 751	14 57 21 21 8	5, 125 14, 347 694 1, 461 863	1,833,239 5,208,024 324,398 676,499 495,778	782 11,927,020 36,005,536 1,657,119 3,709,727 2,694,992	782 13,760,259 41,213,560 1,981,517 4,386,226 3,190,770			
Canada	2,036	190	20, 144	121	22,491	8, 537, 938	55, 995, 176	64,533,114			
1951							the state of				
Vova Scotia Quebec Ontario Hanitoba Stritish Columbia Northwest Territories	482 1,969 74 138	34 120 14 20 6	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	500 12, 422, 615 37, 147, 168 1, 547, 651 3, 436, 885 3, 156, 367	14,385,596 44,887,096 1,888,594 3,945,706 3,632,039			
Canada	2,777	194	19,070	85	22,126	11,028,345	57, 711, 186	68, 739, 531			
fan-hours worked, 1951: Administration and office Workmen								7,214,356 45,010,36			

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, 1947-1951

Month	1947	1948	1949	1950	1951
			Number		
January February March April May June July August September October November December	20, 656 20, 850 20, 959 20, 768 20, 816 20, 937 20, 947 20, 267 19, 611 19, 778 20, 458 20, 672	20, 867 20, 559 20, 387 20, 211 20, 203 20, 530 20, 637 20, 312 20, 031 20, 276 20, 464 20, 315	20, 237 20, 058 19, 993 19, 651 19, 993 20, 100 20, 173 20, 292 20, 490 20, 667 20, 764 20, 361	20, 388 20, 295 20, 163 20, 050 20, 163 20, 564 20, 294 19, 981 19, 878 20, 192 20, 297 20, 025	20, 18 19, 72 19, 54 19, 12 18, 56 18, 47 18, 38 18, 45 17, 98 18, 59 18, 83 18, 48

TABLE 30. Workmen in Producing Lode Gold Mines, by Provinces, 1950 and 1951

Month	Que	bec	Ontario		British Columbia		Other districts and provinces		Can	ada	
MOILL	1950	1951	1950	1951	1950	1951	1950	1951	1950	1951	
	Number										
January	4,489	4,344	13,147	12,954	1,360	1,227	1,392	1,275	20,388	19,800	
February	4,480	4,304	13,107	12,617	1,331	1,173	1,377	1,256	20,295	19,35	
March	4,479	4,212	13,032	12,642	1,283	1,133	1,369	1,193	20,163	19,18	
9 pril	4,546	4,106	12,895	12,464	1,264	1,011	1,345	1,171	20,050	18,75	
VAV	4,635	3,993	13,038	11,923	1,129	1,049	1,361	1,160	20,163	18,12	
June	4,810	3,957	13,168	11,886	1,145	1,040	1,441	1,165	20,564	18,04	
July	4,746	4,027	13,039	11,655	1,131	1.098	1,378	1,208	20,294	17,98	
A URUST	4.737	4,112	12,781	11,646	1,139	1,146	1,324	1,195	19,981	18,09	
eptember	4,638	3,993	12,691	11,397	1,245	1,130	1,304	1,164	19,878	17,68	
October	4,644	4,198	12,864	11,761	1,300	1,144	1,384	1,230	20,192	18,33	
November	4,573	4,342	13,117	11,830	1,238	1,152	1,369	1,277	20,297	18,60	
December	4.427	4,203	13,067	11,648	1,206	1,175	1,325	1,279	20,025	18,30	

TABLE 31. Classification of Workmen Employed in Entire Auriferous Quartz Mining Industry, 1950 and 1951

		195	0			195	51	
		Mine				Mine		
Province	Surf	Surface		Mill	Surf	ace	Under- ground	Mill
	Male	Female	Male	Male	Male	Female	Male	Male
				Nu	mber			
Nova Scotia	1	_		-	1	- 1	- 1	-
Quebec	1,171	14	3,072	346	1,073	22	2,921	370
Ontario	3,258	57	8,586	1,109	3,159	31	B,158	1,067
Manitoba	181	21	340	65	137	16	297	53
British C olumbia	263	21	847	154	243	16	745	1 29
Northwest Territories	278	8	381	92	254	_	383	80
Canada	5,152	121	13,226	1,766	4,867	85	12,504	1,699

TABLE 32. Cost of Prospecting Conducted by Canadian Auriferous Quartz Mining Companies, 1950 and 1951

Province in which prospecting was conducted <sup>1</sup>	By Nova Scotia and Quebec companies <sup>2</sup>	By Ontario companies?	By Manitoba companies <sup>2</sup>	By British Columbia companies <sup>2</sup>	By Yukon and Northwest Territories companies	Total
			Dolla	BIS		
1950						
Newfoundland	460 1,243 344 1,008,057 225,284 452 453 72,109 5,528 1,313,930	555 220,833 653,813 11,981 - 38,211 1,420 3,300 930,113	140 35,419 	8,000 	2,500 	460 1,243 899 1,231,390 877,237 47,852 6,953 494,000 79,807 8,828 2,758,669
1951						
Newfoundland Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan British Columbia Northwest Territories	33,307 639,847 409,274 2,013 77,453 74,564	400 1,366 139,457 575,664 47 600	430 28,494	500 - 217,280	12,539	400 54,673 979,304 985,868 30,507 77,500 292,424 13,278
Total Canada	1,437,247	717,534	28,924	217,760		2,414,004

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, 1949-1951

		Footage drilled	
	1949	1950	1951
Diamond drilling for exploration (testing):			
By companies with their own equipment and personnel	647,821	525,482	902,947
By contractors	1,459,401	2.261,988	1,405,308
other drilling:			
Diamond drilling for breaking rock or ore:			
By companies with their own equipment and personnel	270,014	272,281	238,769
By contractors	545,799	580,514	378,230
Drilling by percussion and other machines <sup>2</sup>	34,480,521	36,580,081	32,746,954

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

TABLE 34. Specified Taxes Paid by Active Canadian Auriferous Quartz Mines, 1950 and 1951, by Provinces1

Nature of tax	Nova Scotla	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories	Canada
				Dollars			
1950							
Dominion Income Tax, including tax on non-operating revenue	-	559,243	4,299,176	94,121	163,400	_	5,115,940
Provincial taxes	35	309,248	1,634,649	64,773	108,557	13,165	2,130,427
Municipal taxes	-	256,038	293,109	13,151	27,384	23,760	613,442
T otal	35	1,124,529	6,226,934	172,045	299,341	36,925	7,859,809
1951							
Dominion Income Tax, including tax on non-operating revenue	-	519,281	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

<sup>1.</sup> 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, 1949-1951

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	ars		
Nova Scotia:						
1949	28	-	38	1,204	11,201	11,701
1950	- 1	-	-	-	_	-
1951	- 1	***	_	-	_	
Quebec:						
1949	577,108	214	98,065	8,948,502	798,208	1,093,448
1950	473,158	739	112,708	9,883,566	1,159,285	1,628,782
1951	578,308	1,253	115,215	10,283,038	1,183,294	2,608,763

Note. The value of diamonds in all forms (bits, etc.) parchased by gold mining companies in 1951 totalled \$235,904.

TABLE 35. Certain Specified Expenditures Made by Auriferous Quartz Mining Companies, 1949-1951 - 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
				Dolla	NL8		1
Ontario:				1	1		
1949		1, 270, 055	615,094	273,830	22, 575, 013	2,500,662	5, 156, 771
	PO	1, 217, 855	620, 405	319.773	25, 488, 447	2, 229, 828	3, 793, 710
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1, 144, 597	684, 409	348, 625	26, 136, 870	1, 798, 247	3,069,373
Manitoba:							(0)
	***************************************	64, 843	5, 317	13,727	2,067,864	51.838	778, 553
	\$12944436443644444444444444444444444444444	52,749	3, 604	15,063	1,990,148	24,868	335, 312
	***************************************	48,799	-	14.325	1,804,342	28,026	134, 376
Saskatchewan	;						
1949	015000000000000000000000000000000000000	_	_	_	580	-	_
	6 - 0 + 0 5 6 - 0 4 2 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	_	-	-	-	_	-
	***************************************		-	-	- 1	_	_
British Colum	bia:						
1949	.d.c.c.c.c.c.c.c.c.c.c.c.c.c.c.c.c.c.c.	176,096	107.338	30,404	2.071,808	558, 419	536, 108
	4-4000048000400000000000000000000000000	176,912	81,040	25, 611	1,829,916	716,721	375, 176
1951	02000ap20044ap4xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	145, 224	80, 140	31, 391	478,964	2, 177, 309	206, 269
Northwest Te	ritories:						
1949	. d = d d d d d d d d d d d d d d d d d	24,850	1,838	5, 435	1.936.745	769, 896	1, 293, 25
		55, 575	200	11,729	3,032.541	1,068,383	1, 569, 87
	***************************************	61,842	200	14, 155	3, 240, 175	1,031.743	1, 742, 468
Total Canada							
1949		2, 112, 980	729, 801	421, 499	37, 601, 516	4, 690, 224	8, 870, 053
1950	094447303347747474747474747474747474747474	1, 976, 249	705, 988	484, 884	42, 224, 618	5, 198, 885	7, 702, 85
1951	0044 04 0 1 4 0 1 8 1 8 1 8 1 0 1 0 1 0 1 0 1 1 1 1 1	1, 978, 770	766, 002	523, 711	41, 943, 389	6, 218, 619	7, 761, 269

#### THE COPPER-GOLD-SILVER MINING INDUSTRY

The mining of "copper-gold-silver" ores in Canada during 1951 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.

In 1951the gross value of crude ore concentrates, etc., shipped from the mines and mills in this industry to smelters was estimated at \$123,162,228. Fuel cost \$781,702 and 361,696,764 k.w.h. of electricity was purchased for \$1,303,906. Process supplies,

freight and treatment charges amounted to \$28,744,625. Employees numbered 6223 to whom \$21,545,660 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 1942-1951

Year	No. of active operators <sup>2</sup>	No. of operating plants or mines 2	Number of employees 2	Salaries and wages <sup>2</sup>	Cost of fuel and electricity <sup>2</sup>	Value of ores and concen- trates shipped by mines 3
				\$	\$	\$
1942	26	28	5,646	11,097,412	1, 338, 737	33,688,642
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

Data relating to idle mines and smelters not included.
 Not including data relating to any Rossland 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 37. Shipments from Copper-Gold-Silver Mines, 1950 and 1951

	Quantity	Value	Totai	metal content	as determined b	y settlement	assay 1
	dagmit,	Value	Gold	Silver	Copper	Sulphur	Zinc
	Tons	\$	Fine c	unces	lb.	Tons	lb.
1950							
TO CANADIAN PLANTS:							
Ores	594,808	10,691,575	109,376	264.605	27, 671, 577	- Online	
Copper concentrates	756, 131	65,503,794	341.984	3,881,842	230, 131, 209		
Zinc concentrates	176, 356	13, 731, 427	8, 035	230, 457	1, 075, 532		162, 960, 10
Iron pyrite concentrates	81, 983	196, 774	0,000	200, 401	1,010,002	38,881	102, 500.
Slags, residues, bullion and gold precipi-	01,503	130, 114				30, 601	
tates	418	1, 309, 510	29, 306	203, 416	318, 402	-	-
TO FOREIGN PLANTS:							
Ores	10, 788	144,879	1,727	3,870	335,957	-	_
Copper concentrates	78, 241	9,554,641	19,320	247, 606	39,657,035	-	_
Zinc concentrates	134, 137	20, 095, 185	-	_	-	_	138, 736, 96
Iron pyrite concentrates	230,631	486,037	-	_	_	111,606	_
Precipitates	623	139, 996	-	_	687, 780	_	-
Total	2,064,116	121, 853, 818	509, 748	4, 831, 796	299, 877, 482	150,487	301, 697, 37
value of process supplies, etc. 2	-	38, 671, 894	_	-	-	_	-
Net Value		83, 181, 924	-	699		_	_
1951							
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, 981
Zinc concentrates	152, 801	18. 298, 432	5,650	205.430	1, 608, 280	_	139, 146, 77
Iron pyrite concentrates	186,069	504, 837				89, 295	-
Slags, residues, bullion and gold precipi- tates	8, 201	1, 836, 788	26,461	202,011	911, 146	_	4, 150, 14
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, 44
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, 34
Value of process supplies, etc. 2	_	30, 830, 233		-	_	-	-
Net value	-	92, 331, 995		_	_	-	-

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

TABLE 38. Ores Mined, Milled, and Concentrates Produced by the Copper-Gold-Silver Mining Industry, 1942-1951

Year	Ore mined	Ore milled	Copper concentrates produced	Zinc concentrates produced	Iron pyrite concentrates produced	Net value of all estimated mine and mill shipments <sup>2,3</sup>
			Tons			\$
1942	6, 575, 626	7,816,813	858,580	264,739	219,874	40,730,834
1943	8, 251, 579	7,482,831	914,360	315,670	292,007	50,774,104
1944	7, 395, 608	6,873,542	870,726	276,737	257, 423	44,770,863
1945	5, 914, 580	5, 441, 121	730,724	229,980	228,618	44,258,780
1946	5,009,490	4,606,503	661.554	219,985	201,873	42, 609, 415
1947	5, 462, 233	5, 140, 376	662,088	185,630	178,263	58, 198, 612
1948	6,496,499	6,061,132	724,066	232, 131	184.069	91, 403, 196
1949	8, 245, 402	7,662,382	839,609	250, 595	250, 476	83, 721, 820
1950	8,758,607	8, 159, 756	830,438	313, 161	322, 117	94, 727, 26
1951	7, 380, 966	6,799,064	792,830	231,674	375,969	102,675,422

TABLE 39. Ore Reserves of Specified Copper-Gold-Silver Mining Companies 1

		Copper	Zinc	Gold	Silver
-	Tons	Per cent	Per cent	Ounces per ton	Ounces per to
Noranda Mines Ltd., January 1, 1952:	3,860,622	7, 06		0.159	_
Sulphide ore over 4 per cent copper		0.65		0.195	_
Sulphide ore under 4 per cent copper	11,765,518 955,759	0. 08		0, 121	
Silicious fluxing ore	1,550,000	0.00		0, 126	
Chadbourne orebody	320,000	_	_	0. 228	_
No. 5 Zone Horne 1	1, 500, 000	0. 7	_	0.120	
No. 5 Zone Horne <sup>2</sup>		0. 1		0.120	
Capacity of mill: 24 hours	3,500				
Waite Amulet Mines Ltd., December 31, 1951:					
East Waite shaft	1,028,000	4.1	3.15	0.048	0.88
"C" shaft orebodies	9,800	2. 3	1.1	0.01	1.0
Amulet Dufault:					
Lower "A" orebody	695, 887	5.7	4.05	0.045	1.5
Upper "A" orebody	25,000	1.05	5.6	0.07	1.6
Ore below 1000-ft level	200,000	2. 75	0.6	0.022	0.52
Capacity of mill: 24 hours	1,800				
Hudson Bay Mining & Smelting Co. Ltd., January 1, 1952:					
Ore reserves	18, 102, 439	3.15	4.1	0.078	1.07
Capacity of mill: 24 hours	6, 200				
Granby Consolidated Mining, Smelting & Power Co. Ltd., Dec. 31, 1950:					
Ore reserves	3, 100, 000	0.97	-	_	_
Capacity of mill: 24 hours	5,000				
East Suliivan Mines Ltd., 1951:					
Ore reserves	4,375,252	1.63	1.27	0.017	0.46
Capacity of mill: 24 hours	2,500				
Quemont Mining Corp. Ltd., 1951:					
Ore reserves	9, 438, 000	1.44	2.65	0.159	0.98
Capacity of mill: 24 hours	2, 000				
Cuprus Mines Ltd., January, 1952:					0.00
Ore reserves	129,045	3. 35	6.5	0.04	0.89
Capacity of mill: 24 hours	300				

<sup>1.</sup> Subject to revision.

Exclusive of copper precipitate, 1943-1950.
 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 40. Employees and their Earnings in the Copper-Gold-Silver Mining Industry, 1950 and 1951

	Numb	per of empl	oyees			Earnings	
an	Administrative and office		Workmen		Administrative and	Workmen	Total
Male	Female	Male	Female		office		
					\$	\$	\$
276	34	2, 975	18	3, 303	1, 109, 404	8, 261, 794	9, 371, 198
329	91	2, 119	18	2, 559	1, 588, 646	7, 591, 373	9, 180, 019
149	26	1, 48 1	36	1,692	762, 407	4, 175, 742	4, 938, 149
754	151	6, 575	74	7, 554	3, 460, 457	20, 028, 909	23, 489, 360
1	-	7	-	8	3,500	14,045	17,54
254	36	2, 530	10	2,830	1,082,799	7, 249, 770	8, 332, 569
354	95	1,966	18	2,433	1, 921, 643	8, 115, 500	9, 947, 163
	1						
80	16	822	14	932	392,900	2, 702, 557	3, 095, 457
3	-	16	1	20	7, 111	55, 835	62.946
692	147	5, 341	43	6,223	3,407,953	18, 137, 707	21, 545, 660
	an offi Male 276 329 149 754 1 254 354	Administrative and office  Male Female  276 34  329 91  149 28  754 151  1 254 36  354 95  80 16 3	Administrative and office Work office Work office Work office Work office Male Work office 1	Administrative and office Workmen  Male Female Male Female  276 34 2,975 18  329 91 2,119 18  149 26 1,481 36  754 151 6,575 74  1 - 7 254 36 2,530 10  354 95 1,966 18  80 16 822 14 3 - 16 1	Administrative and office         Workmen         Total           Male         Female         Male         Female           276         34         2,975         18         3,303           329         91         2,119         18         2,559           149         26         1,481         36         1,692           754         151         6,575         74         7,554           1         -         7         -         8           254         36         2,530         10         2,830           354         95         1,966         18         2,433           80         16         822         14         932           3         -         16         1         20	Administrative and office         Workmen         Total         Administrative and office           Male         Female         Male         Female         \$           276         34         2,975         18         3,303         1,109,404           329         91         2,119         18         2,559         1,588,646           149         26         1,481         36         1,692         762,407           754         151         6,575         74         7,554         3,460,457           1         -         7         -         8         3,500           254         36         2,530         10         2,830         1,082,799           354         95         1,966         18         2,433         1,921,643           80         16         822         14         932         392,900           3         -         16         1         20         7,111	Administrative and office         Workmen         Total         Administrative and office         Workmen           Male         Female         \$         \$         \$           276         34         2,975         18         3,303         1,109,404         8,261,794           329         91         2,119         18         2,559         1,588,646         7,591,373           149         26         1,481         36         1,692         762,407         4,175,742           754         151         6,575         74         7,554         3,460,457         20,028,909           1         -         7         -         8         3,500         14,045           254         36         2,530         10         2,830         1,082,799         7,249,770           354         95         1,966         18         2,433         1,921,643         8,115,500           80         16         822         14         932         392,900         2,702,557           3         -         16         1         20         7,111         55,835

Note. In addition to the above there were 52 in 1950 and 156 in 1951, administrative and office employees at head offices in other places in Canada than at mines or mills; their salaries and wages totalled \$268,523 in 1950 and \$665,397 in 1951.

TABLE 41. Classification of Workmen Employed in the Copper-Gold-Silver Mining Industry, by Provinces, 1949-1951

	Surface		Underground	Mill		Total	
	Male	Female	Male	Male	Female	Male	Female
				Number			
1951			1				
Quebec and Newfoundland	684	9	1, 540	313	1	2, 537	10
Ontario	11	-	13	5	_	29	_
Manitoba	304	12	369	99	- [	772	1:
Saskatchewan	549	6	503	113	-	1, 165	(
British Columbia and Northwest Territories	173	15	450	215	-	838	1
Canada 1951	1, 721	42	2,875	745	1	5,341	43
Canada, 1950	1,913	59	3, 674	988	15	6, 575	74
Canada, 1949	1, 963	69	3,522	961	19	6, 446	88

TABLE 42. Specified Expenditures by the Copper-Gold-Silver Mining Industry, 1949-1951

	1949	1950	1951
		Dollars	
Workmen's compensation	893, 898	841,003	780, 576
Silicosis assessment	103,097	101,786	66,680
Unemployment inswance	154, 766	193, 554	194, 210
Aggregate cost of all supplies purchased	16, 445, 653	17,074,795	19,015,080
Aggregate cost of plant and equipment purchased	7, 179, 284	4,900,575	4,685,169
Cost of buildings, machinery and equipment erected or installed during year.	10, 507, 554	6,872,991	5, 935, 960

TABLE 43. Taxes Paid by the Copper-Gold-Silver Mining Industry, 1949-1951

	1949	1950	1951
		Dollars	
Dominion income tax, including tax on non-operating revenue	8, 183, 172	8,842,345	9, 951, 479
Provincial tax	3,419,742	3,690,872	4,730,728
Municipal tax	716, 141	1,204,810	875, 195
Grand total taxes paid	12,319,055	13, 738, 027	15, 557, 402

TABLE 44. Cost of Prospecting Conducted by the Copper-Gold-Silver Mining Industry, by Provinces, 1950 and 1951

Conducted in-	1950	1951	Conducted in-	1950	1951
	Dolla	rs		Dolla	rs
Newfoundland	-	20,304	Saskatchewan	19, 303	23,505
Nova Scotia	-	3,011	British Columbia	84,638	171.557
New Brunswick	-	54.303	Yukon	7, 479	3,971
Quebec	469, 434	670,597	Northwest Territories	828	207
Ontario	134, 308	194,597	00.000.000.000.000.000.000.000.000		
Manitoba	85,398	52,494	Total	801, 388	1, 194, 546

TABLE 45. Drilling Completed on Copper-Gold-Silver Deposits, 1949-1951

	F	ootage drilled	
	1949	1950	1951
Diamond drilling for exploration (testing only):  By mining companies with their own personnel and equipment  By diamond drilling contractors	119,627 420,012	170, 307 480, 253	143,477 809,507
Other diamond drilling: Blast hole diamond drilling: By mining companies with their own personnel and equipment By diamond drilling contractors	1. 589, 817 61, 419	1,922,830 88,001	1.465,673
Drilling by percussion or other machines 1	8,868,074	9,095,279	8, 150, 83

<sup>1.</sup> Not complete as these data are not recorded by some operators.

TABLE 46. Copper Production (Recoverable) According to Nature of Ore, and by Provinces, 1949-1951

Province and year	From copper- gold-silver ores	From nickel- copper ores	From gold and other ores	Total
	-	Poun	ds	
1949: Newfoundland Que bec Ontario Manitoba Saskatche wan British Columbia	135,644,936 33,920,148 69,919,293 53,195,933	224, 726, 682	7, 233, 952 1, 358, 741 — 913, 947	7, 233, 95 135, 644, 93 226, 085, 42 33, 920, 14 69, 919, 29 54, 109, 88
Total Canada	292, 680, 310	224, 726, 682	9, 596, 640	526, 913, 63
i950: Newfoundland Quebec Ontario Manitoba Saskatchewan British Columbia	145, 253, 590 41, 634, 697 57, 963, 500 40, 289, 361	234, 394, 012	6,442.825 527.781 26,532  1,885,998	6, 442, 82 145, 781, 37 234, 420, 54 41, 634, 69 57, 963, 50 42, 175, 35
Total Canada	285, 141, 148	234, 394, 012	8,883,136	528, 418, 29
1951: Newfoundland Quebec Ontario Manitoba Saskatchewan British Columbia Northwest Territories	136, 127, 919 31, 677, 863 63, 250, 444 26, 573, 735	257, 279, 486 - - -	5, 798, 674 1, 603, 987 337, 320 — 17, 290, 227 1, 934	5, 798, 674 137, 731, 906 257, 616, 806 31, 677, 863 63, 250, 444 43, 863, 963 1, 93
Total Canada	257, 629, 961	257, 279, 486	25.032,142	539, 941, 58

TABLE 47. Production of Refined Copper 1, 1942-1951

Year	Short tons	Year	Short tons
1942	268.447	1947	202,42
1943	251, 495	1948	221, 275
1944	256, 244	1949	226, 083
1945	237, 457	1950	238, 204
946	204, 016	1951	245, 460

<sup>1.</sup> In all forms and from all sources, including scrap.

TABLE 48. Silver Production According to Nature of Ores, by Provinces, 1951

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	-		_	_	534,519	-	534,519
Nova Scotia	-	1	_	-	-	-	1
Quebec	1	163,910	1,961,940		2,028,439		4, 154, 290
Ontario		430,033	1,868	1, 128, 205		2, 959, 988	4,520.094
Manitoba		16,937	596, 204	-	-	_	613, 141
Saskatchewan	-	-	1,454,341	deler		-	1.454,341
Alberta	9	_	-	1 -	_	-	9
British Columbia	3,030	37,607	239, 530	-	8, 062, 247	-	8, 342, 414
Northwest Territories	_	64, 228	440	-	_		64, 228
Yukon	16, 721		-	-	3, 426, 067	-	3, 442, 788
Canada	19, 761	712, 716	4,253,083	1, 128, 205	14,051,272	2, 959, 988	23, 125, 825

TABLE 49. Selenium and Tellurium Recovered from Canadian Ores, 1942-1951

	From copper-gold-silver ores		From nickel-copper ores		Total	
Year	Selenium	Tellurium	Selenium	Tellurium	Selenium	Tellurium
			Pour	nds		
1942	419, 369	1,584	76,000	9,500	495, 369	11,086
1943	292,013	Adar	82, 000	8,600	374,013	8,600
1944	233,592	761	65,000	9,900	298, 592	10,661
1945	211, 187	484	168,000	_	379, 187	484
1946	251, 261	1, 648	270, 606	14, 200	521.867	15, 848
1947	354, 684	3, 025	146, 406	6, 169	501.090	9, 194
948	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
950	198, 264	4, 065	63,709	6, 010	261, 973	10, 075
951	300, 194	2, 612	82, 409	6, 301	382,603	8,913

TABLE 50. Zinc Production (Recoverable) According to Nature of Ore, and by Provinces, 1949-1951

Year and province	Recovered from copper-gold-silver ores	Recovered from silver-lead-zinc and other ores	Total
		Pounds	
1949: Newfound land Quebec Manitoba Saskatchewan British Columbia Yukon	74, 332, 795 34, 081, 713 64, 266, 312 11, 188, 239	63, 818, 908 50, 988, 503 — 277, 000, 381 847, 246	63,818,908 125,321,298 34,081,713 64,266,312 288,188,620 847,246
Canada	183,869,059	392,655,038	576, 524, 097
1950: Newfoundland Quebec Manitoba Saskatchewan British Columbia Yukon	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
1951: Newfoundland Quebec Manitoba Saskatchewan British Columbia Yukon	67,403,205 30,221,016 79,148,484	56,938,689 105,322,618 — 337,511,324 5,678,999	56, 938, 689 172, 725, 823 30, 221, 016 79, 148, 484 337, 511, 324 5, 678, 999
Canada	176, 772, 705	505, 451, 630	682,224,335

# TABLE 51. Refined Zinc Produced, from all Sources, 1942-1951

Year	Short tons Year		Short tons
1942	215, 795	1947	178, 264
. 943	206,510	1948	196, 575
1944	168, 518	1949	206, 045
1945	182, 267	1950	204,367
1946	185,683	1951	218, 578

## TABLE 52. Cadmium Recovered from Canadian Ores, 1942-1951

Year	From copper- gold-silver ores	From silver- lead-zinc ores	Total	Year	F'rom copper- gold-silver ores	From silver- lead-zinc ores	Total
Pounds				Pounds			
1942	176, 550	972,413	1,148,963	1947	172,896	545,638	718,534
1943	187,938	598.673	786, 611	1948	148,864	617, 226	766, 090
1944	140, 560	386, 410	526,970	1949	181,092	665, 449	846, 541
1945	135, 632	510, 432	646, 064	1950	141,456	706, 950	848, 406
1946	166, 333	636,315	802,648	1951	147, 168	1, 179, 752	1,326,220

TABLE 53. Average Annual Metal Prices, in Canadian Dollars, 1942-1951

		Gold	Silver	Copper	Lead	Zinc
	Year	Per troy ounce	Per troy ounce	Per pound	Per pound	Per pound
				Dollars		
1942	***************************************	38.50	0.4216	0.101	0.034	0.034
1943	######################################	38.50	0.4525	0.117	0.037	0.040
944	41400.00044444444466004445544005004445540005004471414560000444460044444644464444444444444	38.50	0.43	0.12	0.045	0.043
945	A44220244444444444444444444444444444444	38.50	0.47	0.1255	0.05	0.064
946	14,040,000,000,000,000,000,000,000,000,0	36.75	0.836	0.128	0.067	0.078
947		35.00	0.72	0.2039	0.1367	0.112
948	10 20d + 10 2 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	35.00	0.75	0.2235	0. 1804	0. 139
949	***************************************	36.00	0.7425	0.1997	0. 158	0.132
950	\$	38.05	0.8082	0.2342	0.1445	0.156
951	77	36.85	0.9455	0.277	0. 184	0. 199

#### TRANSACTIONS IN GOLD BULLION AT THE ROYAL CANADIAN MINT

(From the Annual Report of the Royal Canadian Mint)

Five thousand seven hundred and seventy six 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 5,246,759 ounces containing by assay 4,169,480 ounces fine gold and 651,004 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 1950 of 147 in the number

of deposits, gross weight 239,198 ounces, gold content 253,488 ounces and fine silver 224 ounces.

The net value paid by cheque to depositors was \$142,075,349.02. In addition the amount of fine gold issued to depositors was 121,836.848 ounces.

Postage collected for the Postmaster General on deposits shipped by mail, postage collect, amounted to \$39,133.70.

Details of the origin of the bullion deposited at Vancouver and Ottawa during the year 1951 are shown in the following table:

From Canadian mines and refineries	Gross weight	Fine gold	Fine silver
		Ounces	
Ontarlo	3, 018, 118- 044	2,443,243.299	333. 209. 83
Quebec	1. 393. 507. 375	1, 100, 148. 791	191, 785, 47
British Columbia	229, 087, 285	182, 051, 951	29, 419, 40
Manitoba	176, 318, 350	142. 157. 662	16, 351.40
(ukon Territory	97, 455. 820	77, 503. 840	16, 720, 26
Nova Scotia	29.400	17.418	1. 15
Vorthwest Territories	302, 937. 975	209-115-970	60, 941, 64
Alberta	127. 480	96. 471	8- 86
Total from Canadian mines and refineries	5, 217, 581. 729	4, 154, 335, 402	648, 438. 01
From jewellery and scrap	36, 350. 403	19, 323- 100	3,676.22
Grand total	5, 253, 932, 132	4, 173, 658, 502	652, 114, 23

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

	Ounces fine
9.613 Trade Bars transferred to Exchange Fund Account of Minister of Finance and held in safe-keeping by Bank of Canada	3, 849, 507, 749
Depositors — granulated and bars	122, 220- 733
Sales to manufacturers — granulated	191, 080- 125
Proof Plate for assay purposes	2, 000
Medals, etc	12. 47
weep	4, 662, 795
	4, 167, 485, 874

This total shows a decrease of 180,476.024 ounces fine as compared with the year 1950.

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, 1951.

	Gold re	ceived	Gold issued			
Year	Gross weight	Statutory value gold only	Coin	Bullion	Statutory value coin and bullion	
	Ounces	\$	\$	Ounces fine	\$	
908 to 1941	83, 392, 336, 615	1, 392, 148, 535, 51	7, 923, 908, 73	66, 875, 857, 747	1, 390, 370, 566. 02	
942	5, 761, 045, 973	95, 338, 135, 90	_	4,611,892-227	95, 336, 270, 7	
43	4, 456, 437, 559	74, 769, 168, 35	_	3, 645, 739, 964	75, 364, 131. 9	
44	3,537,734.636	59. 163, 794, 79		2,829,755,000	58, 496, 226. 1	
45	3, 102, 991, 020	51, 750, 218, 87	-	2, 499, 163, 674	51.662.297.7	
46	3, 271, 246, 445	54, 826, 765, 59		2, 665, 964, 763	55. 110, 381.	
47	3, 559, 496, 703	59, 296, 515, 31	-	2.859,084.218	59, 102, 514.	
48	4, 252, 389, 454	70, 325, 402, 34	_	3, 405, 073, 335	70, 389, 111.	
19	4,941,749,248	81, 149, 717, 63	-	3,865,296.377	79, 902, 766, 0	
50	5, 485, 956, 751	91,430,862 97		4, 347, 961, 898	89, 880, 347. 1	
51	5, 246, 758, 942	86, 190, 788, 36	-	4, 167, 485, 874	86, 149, 576, 4	
Total	127, 008, 143, 346	2, 116, 389, 905, 62	7, 923, 908, 73	101, 773, 275, 077	2, 111, 764, 189, 6	

#### The Mint Custom Refining and Storing Regulations

#### P.C. 5774

#### AT THE GOVERNMENT HOUSE AT OTTAWA

Friday, the 26th day of October, 1951

Present:

### His Excellency the Governor General in Council

His Excellency the Governor General in Council, on the recommendation of the Minister of Finance, is pleased to make the annexed 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, and the said Regulations are hereby made and established, accordingly.

# N. A. ROBERTSON, Clerk of the Privy Council.

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.
- 2. In these Regulations,
  - (a) "designated gold" means gold produced from the mine of a producer in the year 1951, on or after the elected date;
  - (b) "elected date" means, with respect to a producer, the first day of October, November or December, in the year 1951, 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 on or before the first day of December, 1951, made an election by instrument in Form A, delivered to the Minister; and
  - (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.
- 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
    - (b) sells designated gold to a smelter or refiner outside Canada,

at a price that, in the opinion of the Minister does not exceed the mint price, the Minister may, upon being satisfied that the gold has been so sold, sell to the producer an amount of gold equivalent to the amount so sold and, subject to section 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. 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, 1951

Name	Head or executive office address	Location
	(a) Alluvial Gold Mining Industry	
kitish Columbia:		1
Anderson, Adolf	Likely	Quesnel
Antler Mountain Gold Ltd. (N.P.L.)	Barkerville	Cariboo
Baker, George S.	Keithley Creek	Quesnel
Bride, Maurice	Atlin	Atlin
Bridge River Placers		
Brown, Alfred F.	Stanley	
Burrard Placers Ltd. (N.P.L.)		
Enterprise Placers Enterprise Placers		
Falconer, D.R.		
Fosbery, P.H.V.		Vernon
Ketch Placers	Wells	
Harvey Creek Mines Ltd. (N.P.L.)		
Holland, John		
Holm & Petersen	Barkerville	
Lawless Creek Mining Co. Ltd.		
Loper, George H.		
Lowhee Guich Placers		
Lyne, C.J.	Williams Lake	Quesnel
Moses, Wm.	Coalmont	
Noland Mines Ltd.	525 Seymour St., Vancouver	
Noland, J.W.		
Piccolo Bros.		
Russell and Burke Sullivan, L.P.		
Swanson & Watt		
Zenda Gold Mining (Canada) Ltd.		
ukon:		
Ballarat Mines Ltd.	Dawson	Ballarat Creek
Boutillier, D.F. & H.C.		
Boutillier, H, & H.		
Bratsberg, B.		Dawson
Bremner, John		
Cariboo Creek Placers		
Clear Creek Placers Ltd.		
Coulombe, A. & A.		
Moose Creek Mining Feichtinger, J.		
Gould, J.A. & R.S.		Dawson
Kluane Dredging Co. Ltd.		
Pamuchina, P.	Bonanza Creek	Bonanza Creek
Pontaletta, P.	Dawson	
Strugar, J.		
Yukon Consolidated Gold Corporation Yukon Exploration Ltd.		
Yukon Gold Placers Ltd.		
uebec:		
Winget, C.M. & Vernette, E.	75 Main St., Lennoxville	Ditton River
	(h) Auriferous Quartz Mining Industry	
ava Saatta		
ova Scotta:	Liverpool	Liverpool
K.V. Mines		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
uebec:		
Abitibi Metals Mines Ltd.	1197 Val d'Or, Quebec	Pascalis
Anglo-Rouyn Mines Ltd.	44 King St. W., Toronto, Ontario	Temiscamingue, Quel
Aumaque Gold Mines Ltd.	307-100 Adelaide St. W., Toronto, Ontario	Bourlamaque Twp.
Barnat Mines Ltd.		
Bargoid Mines Ltd.		Barraute Waswanipi Lake
Barymin Company Ltd. Beacon Mining Co., Ltd.		
Belle-Chibougamau Mines, Ltd.		
Bagmac Mines Ltd.	Oak Ridges, Ontario	Rouyn
Belleterre Quebec Mines, Ltd	25 King St. W., Toronto 1, Ontario	Belleterre
Bevcourt Gold Mines, Ltd.		
Canadian Malartic Gold Mines Ltd		Malartic Pourlamague Two
Centremaque Gold Mines Ltd.  Cheskirk Mines Limited		
Chibougamau Explorers Ltd.	431 St. James St. W., Montreal, Quebec	
Chimo Gold Mines Ltd.	24 King St. W., Toronto, Ontario	Vauquelin
Consolidated Astoria Mines Ltd.		Rouyn
Consolidated Beattie Mines Ltd	Duparquet, Quebec	Duparquet
Consolidated Central Cadillac Mines Ltd.		
Consolidated Duquesne Mining Co. Ltd.		
D'Aragon Mines Ltd.		
Defor Chibougamau Mines Ltd.		
	Bourlamaque, Quebec	Bourlamaque

#### Directory of Firms in the Gold Mining Industry, 1951 - Continues

Name Head or executive office address Location

(b) Auriferon	us Quartz Mining Industry — Continued	
Quebec:— Concluded		
Dupresnoy Mines Ltd.	Duparquet, Quebec	Dufrespoy Twp.
East Malartic Mines Ltd	355 St. James St. W., Montreal, Quebec	Fourniere Twp.
Elder Mines, Ltd.		Noranda Twp.
Eldona Gold Mines Ltd. Fayolle-Antoine		
Flobec Gold Mines Ltd.		
Flomic Chibougamau Mines Ltd.		Abitibi
Fortress Mining & Oil Ltd.	430 King St. W., Toronto, Ontario	Dufresnoy Twp.
Gale-Cummings Mines Ltd.		
Gothic Gold Miners Ltd		Duverny Twp. Opawica Lake
Harricana Gold Mine Incorporated		Bourlamaque
Hebecourt Gold Mines Ltd.		Canton Twp.
Heva Gold Mines Ltd		Joannes Twp.
Huclif Porcupine Mines Ltd.	229 Yonge St., Toronto, Ontario	Rouyn Twp.
Joannes Goldfields Ltd. Karpus Gold Mines Ltd.		Dasserat Twp.
Kayrand Mining and Development Co., Ltd.		Merrill Island
Kennco Explorations, (Canada) Ltd.	1010 Ste. Catherine St. W., Montreal 2	Guercheville Twp.
Keyboycon Mines Ltd.	330 Bay St., Toronto, Ontario	Vauquelin Twp.
Kokko Creek Mining Corporation Ltd.	132 St. James St. W., Montreal	Kokko Creek
La Flamme & La Haye	139, rue de Montmorency, Québec	Cranbourne Beauchas tel Twp.
Lamaque Mining Co., Ltd.	Bourlamaque, Quebec	
Lavalie Mines Ltd.	24 King St. W., Toronto, Ontario	Bourlamaque
Laurentide (Chibougamau) Mines Ltd.	360 Craig St. W., Montreal	Mackenzie Twp.
Louvicourt Goldfields Corporation  Malartic Gold Fields Ltd.	100 Adelaide St. W., Toronto, Ontario	Bourlamaque Fourniere Twp.
Marbenor Malartic Mines Ltd.	330 Bay St., Toronto, Ontario	Dubuisson Twp.
McIntyre Porcupine Mines, Ltd.	26 Ving St W Toronto 1 Ontario	Lesseur Twp.
Mining Corporation of Canada, The, Ltd.	44 King St. W., Toronto 1, Ontario	Kreighoff Twp.
Moneta Porcupine Mines, Ltd.	320 Bay St., Toronto, Ontario	Verneuil Twp.
Mylamaque Mines Ltd. National Malartic Gold Mines Ltd.		Bouriamaque Malartic
Nemrod Mining Co. Ltd.		Louvicourt
New Goldvue Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Amos, Quebec
New Jersey Zinc Explorations Ltd.		Desjardins Twp.
Norlartic Mines Ltd.	330 Bay St., Toronto, Ontario	Malartic Twp.
Nortyne Gold Mines Ltd. Nubar Mines Limited	217 Bay St., Toronto, Ontario	Manneville Twp.
O'Brien Gold Mines, Ltd.	Kewagama, Quebec	Cadillac Twp.
Osisko Lake Mines Ltd.	25 King St. W., Toronto 1, Ontario	Rouyn Twp.
Perron Gold Mines Ltd.	Perron, Quebec	Senneville Twp.
Preston East Dome Mines Ltd.	Box 200, Noranda, Quebec	Noranda Poularies Twp.
Quebec Chibougamau Goldfields Ltd.	132 St. Jacques St., Montreal.	Levy
Quebec Smelting and Refining Ltd.	215 St. James St. W., Montreal	Obalski Twp.
Quesabe Mines Limited	320 Bay St., Toronto, Ontario	Queeabe
Randona Quebec Gold Mines Ltd	330 Bay St., Toronto, Ontario	Dufresnoy Twp. Beaucastie Twp.
Royran Gold Fields Ltd.	215 St. James St. W., Montreal	Obalski Twp.
Quartz Bleu du Saguenay, Le	235 St-Joseph d'Alma, Quebec	Labarre
Senator Rouyn Ltd.		Noranda
Shawkey (1945) Mines Ltd.	80 King St. W., Toronto, Ontario Bourlamaque, Quebec	Dubuisson Bouriamaque
Sigma Mines (Quebec) Ltd.	907 Dominion Square Bldg., Montreal	Siscoe Island
South Dufault Mines Ltd.	302 Bay St., Toronto, Ontario	Rouyn Twp.
Stadacona Mines (1944) Ltd.	P.O. Box 390, Rouyn, Quebec	Rouyn
Starcourt Gold Mines Ltd.	85 Richmond St. W., Toronto, Ontario.	Bourlamaque
Sullivan Consolidated Mines Ltd.	1604-Aldred Building, Montreal 145 Yonge St., Toronto, Ontario	Dubuisson Twp. Louvicourt Twp.
Tasmaque Gold Mines Ltd. Teck Exploration Co. Ltd.	25 King St. W., Toronto, Ontario	Queylus Twp.
Timmins, N.A. (1938) Ltd.	1010 Canada Cement Bidg., Montreal 2	Montalambert
Titanic Mine Holding Ltd.	215 St. James St. W., Montreal	Merrili Island
United Mic Mac Mines Ltd.	100 Adelaide St. W., Toronto, Ontario	Bousquet Twp,
Wildor Gold Mines Ltd. Wright-Hargreaves Mines, Ltd.	257 Bay St., Toronto, Ontario Canadian Bank of Commerce, Fort Erie, Ontario	Bourlamaque Twp.
THE REPORT OF THE PARTY OF THE PROPERTY OF THE	Community Dates of Constitution, For Early, Constitution,	2.00
Ontario:		
Porcupine District		N. C.
Aunor Gold Mines Ltd.	1600, Royal Bank Building, Toronto	Timmins
Bonetal Gold Mines Ltd.	1705, Sterling Tower Bldg., 372 Bay St., Toronto	Pamour
Bonwhit Mines Ltd.	1705, Sterling Tower Bldg., 372 Bay St., Toronto	Pamour
Broulan Reef Mines Ltd.  Buffalo Ankerite Gold Mines Ltd.	1705, Sterling Tower Bldg., 372 Bay St., Toronto Box 533, South Porcupine	Whitney Twp. Deloro Twp.
Carshaw Porcupine Gold Mines Ltd.	906, Canada Bldg., Windsor	Carman Twp.
Coniaurum Mines Ltd.	25 King St., W., Toronto	Tisdale Twp.
Delnite Mines Ltd.	Box 590, Timmins	Deloro Twp.
Dome Mines Ltd.	South Porcupine	Tisdale Twp.
Hallnor Mines Ltd.	1700 Bank of Nova Scotia Building, Toronto	Whitney Twp.
HOUSINGST CORROLLINGS GOLD WINES L.T.		CARACAULI A W.L.
Hollinger Consolidated Gold Mines Ltd.  Hugh-Pam Porcupine Mines Ltd.	Timmins	
Hugh-Pam Porcupine Mines Ltd. McIntyre Porcupine Mines Ltd.	50 King St., W., Toronto	Cochrane District Schumacher
Hugh-Pam Porcupine Mines Ltd. McIntyre Porcupine Mines Ltd. Midcamp Mines Ltd.	50 King St., W., Toronto Schumacher 1600, Royal Bank Building, Toronto	Cochrane District Schumacher Tisdale Twp.
Hugh-Pam Porcupine Mines Ltd. McIntyre Porcupine Mines Ltd. Midcamp Mines Ltd. Pamour Porcupine Mines Ltd.	50 King St., W., Toronto Schumacher 1600, Royal Bank Building, Toronto	Cochrane District Schumacher Tisdale Twp. Whitney Twp.
Hugh-Pam Porcupine Mines Ltd. McIntyre Porcupine Mines Ltd. Midcamp Mines Ltd.	50 King St., W., Toronto Schumacher 1600, Royal Bank Building, Toronto	Cochrane District Schumacher Tisdale Twp.

# Directory of Firms in the Gold Mining Industry, 1951 - Continued

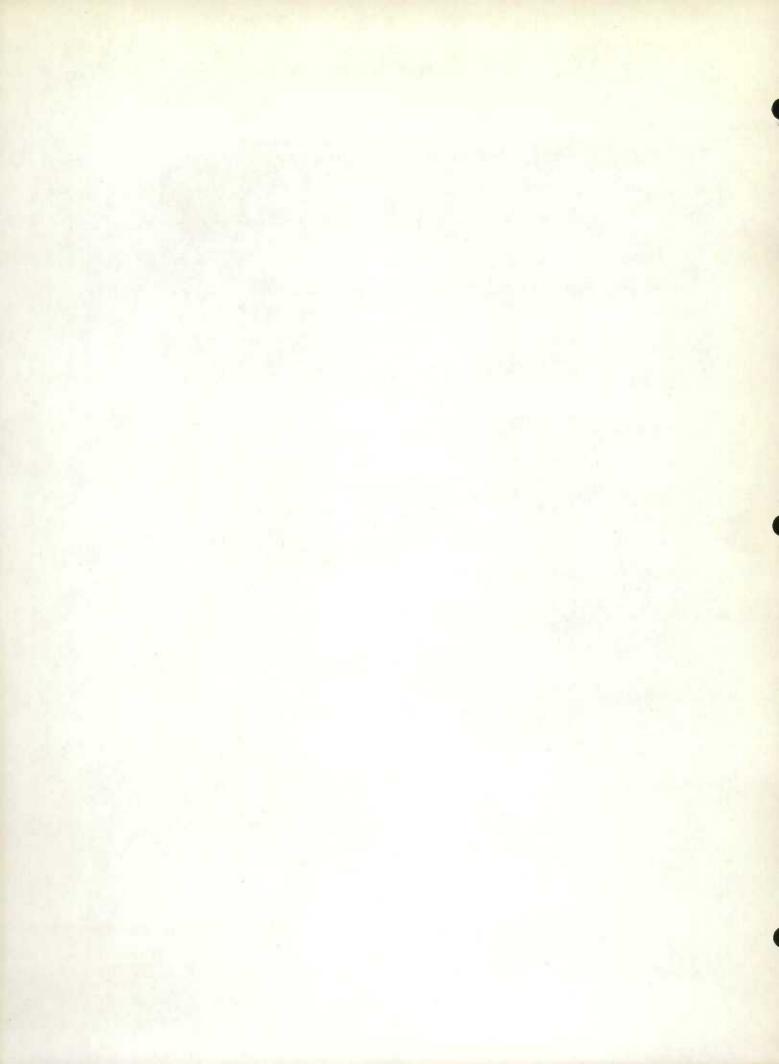
Name		
Name	Head or executive office address	Location
(b) Aurif	erous Quartz Mining Industry — Continued	
Ontario: Concluded		
Kirkland Lake District  Gateford Mines Ltd.  Kirkland Lake Gold Mining Co. Ltd.  Lake Shore Mines Ltd.  Macassa Mines Ltd.	1314, Metropolitan Building, Toronto   Kirkland Lake   85 Richmond St. W., Toronto	Teck Twp.  Kirkland Lake  Kirkland Lake
Northland Mines (1940) Ltd. Queenston Gold Mines Ltd. Sylvanite Gold Mines Ltd. Teck-Hughes Gold Mines Ltd., The Toburn Gold Mines Ltd. Upper Canada Mines Ltd. Wright-Hargreaves Mines Ltd.	1101 Federal Bldg., Toronto Box 670, Kirkland Lake 14 Finkle St., Woodstock 1809, Royal Bank Building, Toronto 1101, Federal Building, Toronto	Dobie Teck Twp. Kirkland Lake Kirkland Lake Gauthier Twp.
Larder Lake District		
Cathroy Larder Mines Ltd. Chesterville Mines Ltd. Kerr-Addison Gold Mines Ltd.	330 Bay St., Toronto	McGarry Twp.
Matachewan District		Dame 11 Thurs
Hollinger Consolidated Gold Mines Ltd.  Matachewan Consolidated Mines Ltd.		
Sudbury District		Delhi Twp.
New Delhi Mines Ltd. Greenray Mines Ltd.	330 Bay St., Toronto, Ontario	Shakespeare Twp.
Ladulama Gold Mines Ltd. Renable Mines Ltd.	330 Bay St., Toronto 1	
Thunder Bay District		
Amichi Gold Mines Ltd. Hard Rock Gold Mines Ltd.		Ashmore Two.
Leitch Gold Mines Ltd.	Beardmore	Summers Twp.
Little Long Lac Gold Mines Ltd.	25 King St. W., Toronto	
Magnet Consolidated Mines Ltd	185 Bay St., Toronto	Geraldton
New Mosher Long Lac Mines Ltd.		Long Lac
Theresa Gold Mines Ltd. Tombill Gold Mines Ltd.	Long Lac	Theresa
Kenora District		
Duport Mining Co. Ltd.		Shoal Lake Shoal Lake
Patricia District		
	40 Adelaide St. W., Toronto	Dalman Deen
Brewis Red Lake Mines Ltd.		Balmer Twp.
Campbell Red Lake Mines Ltd.	Balmerton	Balmer Twp.
Campbell Red Lake Mines Ltd. Central Manitoba Mines Ltd. Central Patricia Gold Mines Ltd.	Balmerton 274 Fort St., Winnipeg, Manitoba Central Patricia	Neepawa Island Central Patricia
Campbell Red Lake Mines Ltd. Central Manitoba Mines Ltd. Central Patricia Gold Mines Ltd. Cochenour Willans Gold Mines Ltd.	Balmerton. 274 Fort St., Winnipeg, Manitoba Central Patricia 801, Dominion Bank Bldg., Toronto	Ralmer Twp. Neepawa Island Central Patricia Dome Twp.
Campbell Red Lake Mines Ltd. Central Manitoba Mines Ltd. Central Patricia Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Conecho Mines Ltd. Delta Minerals Ltd.	Balmerton  274 Fort St., Winnipeg, Manitoba  Central Patricia  801, Dominion Bank Ridg., Toronto  44 King St. W., Toronto  145 Yonge St., Toronto	Balmer Twp. Neepawa Island Central Patricia Dome Twp. Echo Two. Red Lake
Campbell Red Lake Mines Ltd. Central Manitoba Mines Ltd. Central Patricia Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Conecho Mines Ltd. Delta Minerals Ltd. hassags Gold Mines Ltd.	Balmerton. 274 Fort St., Winnipeg, Manitoba Central Patricia 801, Dominion Bank Bldg., Toronto 44 King St. W., Toronto 145 Yonge St., Toronto 25 King St. W. Toronto	Balmer Twp. Neepawa Island Central Patricia Dome Twp. Echo Twp. Red Lake Dome Twp.
Campbell Red Lake Mines Ltd. Central Manitoba Mines Ltd. Central Patricia Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Conecho Mines Ltd. Delta Minerals Ltd. Hassaga Gold Mines Ltd. Headway Red Lake Gold Mines Ltd.	Balmerton  274 Fort St. Winnipeg, Manitoba  Central Patricia  801, Dominion Bank Ridg. Toronto  44 King St. W. Toronto  145 Yonge St., Toronto  25 King St. W. Toronto  67 Yonge St., Toronto  357 Bay St., Toronto	Balmer Twp. Neepswa Island Central Patricia Dome Twp. Echo Two. Red Lake Dome Twp, Heyson Twp. Todd Twp.
Campbell Red Lake Mines Ltd. Central Manitoba Mines Ltd. Central Patricia Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Conecho Mines Ltd. Delta Minerals Ltd. Hassaga Gold Mines Ltd. Headway Red Lake Gold Mines Ltd. Heath Gold Mines Ltd. Lun-Echo Gold Mines.	Balmerton  274 Fort St., Winnipeg, Manitoba  Central Patricia  801, Dominion Bank Ridg., Toronto  44 King St. W., Toronto  145 Yonge St., Toronto  25 King St. W., Toronto  67 Yonge St., Toronto  357 Bay St., Toronto  67 Yonge St., Toronto	Balmer Twp. Neepawa Island Central Patricia Dome Twp. Echo Two. Red Lake Dome Twp. Heyson Twp. Todd Twp. Echo Twp.
Campbell Red Lake Mines Ltd. Centrai Manitoba Mines Ltd. Centrai Patricia Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Conecho Mines Ltd. Delta Minerals Ltd. Hassaga Gold Mines Ltd. Headway Red Lake Gold Mines Ltd. Lun-Echo Gold Mines. McKenzie Red Lake Gold Mines Ltd. Madsen Red Lake Gold Mines Ltd.	Balmerton  274 Fort St. Winnipeg, Manitoba  Central Patricia  801, Dominion Bank Ridg, Toronto  44 King St. W. Toronto  145 Yonge St., Toronto  25 King St. W. Toronto  67 Yonge St., Toronto  67 Yonge St., Toronto  67 Yonge St., Toronto  67 Yonge St., Toronto  McKenzie Island  67 Yonge St., Toronto	Balmer Twp. Neepswa Island Central Patricia Dome Twp. Echo Twu. Red Lake Dome Twp, Heyson Twp. Todd Twp. Echo Twp. McKenzie Island Heyson Twp.
Campbell Red Lake Mines Ltd. Central Manitoba Mines Ltd. Central Patricia Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Conecho Mines Ltd. Delta Minerals Ltd. Heath Gold Mines Ltd. Heath Gold Mines Ltd. Lun-Echo Gold Mines. McKenzie Red Lake Gold Mines Ltd.	Balmerton 274 Fort St. Winnipeg, Manitoba Central Patricia 801, Dominion Bank Ridg, Toronto 44 King St. W. Toronto 145 Yonge St., Toronto 25 King St. W. Toronto 67 Yonge St., Toronto 357 Bay St., Toronto 67 Yonge St., Toronto 67 Yonge St., Toronto McKenzie Island 67 Yonge St., Toronto 145 Yonge St., W. Toronto 7 King St. W. Toronto	Balmer Twp. Neepswa Island Central Patricia Dome Twp. Echo Two. Red Lake Dome Twp, Heyson Twp. Todd Twp. Echo Twp. McKenzie Island Heyson Twp. Balmer Twp. Casummit Lake
Campbell Red Lake Mines Ltd. Central Manitoba Mines Ltd. Central Patricia Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Conecho Mines Ltd. Delta Minerals Ltd. Headway Red Lake Gold Mines Ltd. Headway Red Lake Gold Mines Ltd. Lun-Echo Gold Mines Ltd. Lun-Echo Gold Mines Ltd. Madsen Red Lake Gold Mines Ltd. New Dickenson Mines Ltd. New Jason Mines Ltd. New Jason Mines Ltd. Newlund Mines Ltd.	Balmerton   274 Fort St., Winnipeg, Manitoba   Central Patricia   801, Dominion Bank Ridg, Toronto   44 King St. W., Toronto   145 Yonge St., Toronto   25 King St. W., Toronto   67 Yonge St., Toronto   357 Bay St., Toronto   67 Yonge St., Toronto   67 Yonge St., Toronto   McKenzie Island   67 Yonge St., Toronto   145 Yonge St., W., Toronto   145 Yonge St., W., Toronto   7 King St. W., Toronto   80 King	Balmer Twp. Neepswa Island Central Patricia Dome Twp. Echo Twu. Red Lake Dome Twp, Heyson Twp. Todd Twp. Echo Twp. McKenzie Island Heyson Twp. Balmer Twp. Casummit Lake Echo Twp.
Campbell Red Lake Mines Ltd. Central Manitoba Mines Ltd. Central Patricia Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Conecho Mines Ltd. Delta Minerals Ltd. Headway Red Lake Gold Mines Ltd. Heath Gold Mines Ltd. Heath Gold Mines Ltd. Lun-Echo Gold Mines. McKenzie Red Lake Gold Mines Ltd. Madsen Red Lake Gold Mines Ltd. New Dickenson Mines Ltd. New Dickenson Mines Ltd. New Jason Mines Ltd. Newlund Mines Ltd. Pickle Crow Gold Mines, Ltd. Starratt Olsen Gold Mines Ltd.	Balmerton 274 Fort St. Winnipeg, Manitoba Central Patricia 801, Dominion Bank Ridg, Toronto 44 King St. W. Toronto 145 Yonge St., Toronto 25 King St. W. Toronto 357 Bay St. Toronto 67 Yonge St., Toronto 67 Yonge St., Toronto 67 Yonge St., Toronto 145 Yonge St., Toronto McKenzie Island 67 Yonge St., Toronto 145 Yonge St. W. Toronto 7 King St. W. Toronto 80 King St. W. Toronto Pickle Crow 25 King St. W., Toronto	Balmer Twp. Neepswa Island Central Patricia Dome Twp. Echo Twu. Red Lake Dome Twp. Heyson Twp. Todd Twp. Echo Twp. McKenzie Island Heyson Twp. Balmer Twp. Casummit Lake Echo Twp. Connell Twp. Baird Twp.
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Campbell Red Lake Mines Ltd. Central Manitoba Mines Ltd. Central Patricia Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Cochenour Miles Ltd. Delta Minerals Ltd. Hassaga Gold Mines Ltd. Headway Red Lake Gold Mines Ltd. Heath Gold Mines Ltd. Lun-Echo Gold Mines. McKenzie Red Lake Gold Mines Ltd. New Dickenson Mines Ltd. New Dickenson Mines Ltd. New Jason Mines Ltd. Newlund Mines Ltd. Pickle Crow Gold Mines Ltd. Starratt Olsen Gold Mines Ltd. Wanitoba:	Balmerton  274 Fort St. Winnipeg, Manitoba  Central Patricia  801, Dominion Bank Ridg, Toronto  44 King St. W. Toronto  145 Yonge St., Toronto  25 King St. W. Toronto  67 Yonge St., Toronto  67 Yonge St., Toronto  McKenzie Island  67 Yonge St., Toronto  145 Yonge St., Toronto  7 King St. W. Toronto  28 King St. W. Toronto  29 King St. W. Toronto  44 Yonge St., Toronto  7 King St. W. Toronto  20 King St. W. Toronto  21 King St. W. Toronto  22 King St. W. Toronto  23 King St. W. Toronto  24 King St. W. Toronto  237 Curry Bldg. Winnipeg  Snow Lake	Balmer Twp. Neepswa Island Central Patricia Dome Twp. Echo Two. Red Lake Dome Twp. Heyson Twp. Todd Twp. Echo Twp. McKenzie Island Heyson Twp. Balmer Twp. Casummit Lake Echo Twp. Conneil Twp. Echo Twp. Conneil Twp. Baird Twp. Echo Twp. Rice Lake Snow Lake
Campbell Red Lake Mines Ltd. Central Manitoba Mines Ltd. Central Patricia Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Conecho Mines Ltd. Delta Minerals Ltd. Hassaga Gold Mines Ltd. Headway Red Lake Gold Mines Ltd. Headway Red Lake Gold Mines Ltd. Lun-Echo Gold Mines. McKenzie Red Lake Gold Mines Ltd. New Dickenson Mines Ltd. New Jason Mines Ltd. New Jason Mines Ltd. Newlund Mines Ltd. Pickie Crow Gold Mines, Ltd. Btarratt Olsen Gold Mines Ltd. Windward Gold Mines Ltd.  **Anitoba:* Forty-Four Mines Ltd. Howe Sound Exploration Co. Ltd.	Balmerton  274 Fort St. Winnipeg, Manitoba  Central Patricia  801, Dominion Bank Ridg, Toronto  44 King St. W. Toronto  145 Yonge St., Toronto  25 King St. W. Toronto  357 Bay St., Toronto  67 Yonge St., Toronto  67 Yonge St., Toronto  68 Yonge St., Toronto  145 Yonge St., Toronto  80 King St. W., Toronto  80 King St. W., Toronto  25 King St. W., Toronto  27 King St. W., Toronto  80 King St. W., Toronto  21 King St. W., Toronto  22 King St. W., Toronto  23 King St. W., Toronto  24 King St. W., Toronto  25 King St. W., Toronto  26 Sing St. W., Toronto  27 King St. W., Toronto  28 King St. W., Toronto  29 Toronto  21 King St. W., Toronto  22 King St. W., Toronto  23 T. Curry Bldg., Winnipeg  Snow Lake  23 T. Curry Bldg., Winnipeg  80 King St. W., Toronto, Ontario	Balmer Twp. Neepswa Island Central Patricia Dome Twp. Echo Twu. Red Lake Dome Twp. Heyson Twp. Todd Twp. Echo Twp. McKenzie Island Heyson Twp. Balmer Twp. Casummit Lake Echo Twp. Connell Twp. Baird Twp. Echo Twp. Connell Twp. Rice Lake Snow Lake Rice Lake Long Lake
Campbell Red Lake Mines Ltd. Central Manitoba Mines Ltd. Central Patricia Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Cochenour Miles Ltd. Delta Minerals Ltd. Hassaga Gold Mines Ltd. Headway Red Lake Gold Mines Ltd. Heath Gold Mines Ltd. Heath Gold Mines Ltd. McKenzie Red Lake Gold Mines Ltd. Madsen Red Lake Gold Mines Ltd. New Dickenson Mines Ltd. New Dickenson Mines Ltd. New Jason Mines Ltd. Newlund Mines Ltd. Pickle Crow Gold Mines, Ltd. Biarratt Olsen Gold Mines Ltd. Windward Gold Mines Ltd. Wanitoba: Forty-Four Mines Ltd. Howe Sound Exploration Co. Ltd. Jeep Gold Mine Ltd. Ogama Kirkland Gold Mines Ltd. San Antonio Gold Mines Ltd.	Balmerton  274 Fort St. Winnipeg, Manitoba  Central Patricia  801, Dominion Bank Ridg, Toronto  44 King St. W. Toronto  145 Yonge St., Toronto  25 King St. W. Toronto  357 Bay St., Toronto  67 Yonge St., Toronto  67 Yonge St., Toronto  68 Yonge St., Toronto  145 Yonge St., Toronto  80 King St. W., Toronto  80 King St. W., Toronto  25 King St. W., Toronto  27 King St. W., Toronto  80 King St. W., Toronto  21 King St. W., Toronto  22 King St. W., Toronto  23 King St. W., Toronto  24 King St. W., Toronto  25 King St. W., Toronto  26 Sing St. W., Toronto  27 King St. W., Toronto  28 King St. W., Toronto  29 Toronto  21 King St. W., Toronto  22 King St. W., Toronto  23 T. Curry Bldg., Winnipeg  Snow Lake  23 T. Curry Bldg., Winnipeg  80 King St. W., Toronto, Ontario	Balmer Twp. Neepswa Island Central Patricia Dome Twp. Echo Twu. Red Lake Dome Twp. Heyson Twp. Todd Twp. Echo Twp. McKenzie Island Heyson Twp. Balmer Twp. Casummit Lake Echo Twp. Connell Twp. Baird Twp. Echo Twp. Connell Twp. Rice Lake Snow Lake Rice Lake Long Lake
Campbell Red Lake Mines Ltd. Centrai Manitoba Mines Ltd. Centrai Patricia Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Conecho Mines Ltd. Delta Minerals Ltd. Hassaga Gold Mines Ltd. Headway Red Lake Gold Mines Ltd. Heath Gold Mines Ltd. Lun-Echo Gold Mines. McKenzie Red Lake Gold Mines Ltd. New Dickenson Mines Ltd. New Dickenson Mines Ltd. New Jason Mines Ltd. New Jason Mines Ltd. Windward Gold Mines Ltd. Windward Gold Mines Ltd. Windward Gold Mines Ltd. Windward Gold Mines Ltd. Howe Sound Exploration Co. Ltd. Jeep Gold Mine Ltd. Ogama Kirkland Gold Mines Ltd. San Antonio Gold Mines Ltd.  British Columbia: Alpine Gold Ltd.	Balmerton   274 Fort St., Winnipeg, Manitoba   Central Patricia   801, Dominion Bank Ridg, Toronto   44 King St. W., Toronto   145 Yonge St., Toronto   25 King St. W., Toronto   357 Bay St., Toronto   357 Bay St., Toronto   67 Yonge St., Toronto   67 Yonge St., Toronto   67 Yonge St., Toronto   145 Yonge St., Toronto   145 Yonge St., Toronto   145 Yonge St., W., Toronto   7 King St. W., Toronto   80 King St. W., Toronto   25 King St. W., Toronto   25 King St. W., Toronto   24 King St. W., Toronto   27 King St. W., Toronto, Ontario   27 King St. W., Toronto, Ontario   27 King St. Winnipeg   27	Balmer Twp. Neepswa Island Central Patricia Dome Twp. Echo Twu. Red Lake Dome Twp. Heyson Twp. Todd Twp. Echo Twp. McKenzie Island Heyson Twp. Balmer Twp. Casummit Lake Echo Twp. Connell Twp. Echo Twp. Connell Twp. Echo Twp. Echo Twp. Echo Twp. Saird Twp. Echo Twp. Echo Twp. Sitkum Creek
Campbell Red Lake Mines Ltd. Central Manitoba Mines Ltd. Central Patricia Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Cochenour Willans Gold Mines Ltd. Cochenour Miles Ltd. Delta Minerals Ltd. Hassaga Gold Mines Ltd. Headway Red Lake Gold Mines Ltd. Heath Gold Mines Ltd. Lun-Echo Gold Mines. McKenzie Red Lake Gold Mines Ltd. New Dickenson Mines Ltd. New Dickenson Mines Ltd. New Jason Mines Ltd. Newlund Mines Ltd. Pickle Crow Gold Mines Ltd. Wanitoba: Forty-Four Mines Ltd. Howe Sound Exploration Co. Ltd. Jeep Gold Mine Ltd. Ogama Kirkland Gold Mines Ltd. San Antonio Gold Mines Ltd. Schitch Columbia: Alpine Gold Ltd. Bowen and Torguson	Balmerton   274 Fort St. Winnipeg, Manitoba   Central Patricia   801, Dominion Bank Ridg, Toronto   44 King St. W., Toronto   145 Yonge St., Toronto   25 King St. W., Toronto   357 Bay St., Toronto   67 Yonge St., Toronto   67 Yonge St., Toronto   67 Yonge St., Toronto   145 Yonge St., Toronto   145 Yonge St., Toronto   145 Yonge St., Toronto   145 Yonge St. W., Toronto   7 King St. W., Toronto   25 King St. W., Toronto   25 King St. W., Toronto   25 King St. W., Toronto   24 King St. W., Toronto   237, Curry Bldg., Winnipeg   Snow Lake   237, Curry Bldg., Winnipeg   80 King St. W., Toronto, Ontario   237, Curry Bldg., Winnipeg   Box 83, Nelson   Zeballos   Zeballos   Zeballos   Zeballos   25 King St. W., Toronto   25 King St. W., Toronto, Ontario   25 King St. W., Toronto,	Balmer Twp. Neepswa Island Central Patricia Dome Twp. Echo Two. Red Lake Dome Twp. Heyson Twp. Todd Twp. Echo Twp. McKenzie Island Heyson Twp. Casummit Lake Echo Twp. Connell Twp. Baird Twp. Echo Twp. Connell Twp. Rice Lake Snow Lake Rice Lake Long Lake Rissett  Sitkum Creek Alberni
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# Directory of Firms in the Gold Mining Industry, 1951 - Continued

Name	Head or executive office address	Locatio
(b) Auriferon	is Quartz Mining Industry - Concluded	
ritish Columbia: - Concluded		1
Northwestern Explorations Ltd.	1010 St. Catherine St. W., Montreal, Quebec	
Nugget Mine c/o A. Enderby	Fruitvale	
Phillips, A.A. Pioneer Gold Mines of B.C., Ltd.	Stewart	
Polaris-Taku Mining Co. Ltd.	525 Seymour St., Vancouver	Atlin
Providence Mine Sheep Creck Gold Mines Ltd.	Greenwood	
Surf Inlet Consolidated Gold Mines Ltd.	615 W. Hastings St., Vancouver	Vancouver
Spud Valley Gold MinesZeballos Leasing Co	525 Seymour St., Vancouver Zeballos	Alberni Alberni
orthwest Territories:		4000
Akaitcho Yellowknife Gold Mines Ltd.	25 King St. W., Toronto, Ontario	
American Yellowknife Gold Mines Ltd.	19 Richmond St. W., Toronto, Ontario	Yellowknife Yellowknife
Consolidated Mining & S. Co. of Canada, Ltd.  Discovery Yellowknife Mines Ltd.		
Giant Yellowknife Gold Mines Ltd	25 King St., W., Toronto, Ontario	Yellowknife
Negus Mines Ltd.	410, Royal Bank Bldg., Toronto, Ontario	
Salmita Consolidated Mines Ltd.  Thompson-Lundmark Gold Mines Ltd.		
(c) Cc	pper-Gold-Silver Mining Industry	
ewfoundland:		
Cape Copper Mines Ltd. Pliley's Island Copper-Pyrite Ltd.	100 Adelaide St. W., Toronto, Ontario	
sebec:		
Abex Mines Ltd.	330 Bay St., Toronto, Ontario	
Albert Metals Corporation Ltd.	P.O. Box 492, Sherbrooke, Quebec	
Area Mines Ltd.  Beaupre Base Metals Mines Ltd.	1596 Danforth Ave., Toronto, Ontario	
Buffalo Canadian Gold Mines Ltd.	44 King St. W., Toronto, Ontario	Rouyn Twi
Campbell Chibougamau Mines Ltd	625 Dorchester St. W., Montreal	
Chibougamau Explorers Ltd.	620 Cathcart St. W., Montreal, Quebec	
Chicohi Lake Mines Ltd. (N.P.L.)	25 King St. W., Toronto 1, Ontario	
Citra-Lartic Mines Ltd. (N.P.L.)	22 King St., Toronto, Ontario	
Consolidated Lebel Oro Mines Ltd.	22 Toronto St., Toronto, Ontario	Barraute Twp.
Crangold Mines Ltd	45 Richmond St. W., Toronto 1, Ontario	
Despina Gold Mines Ltd. (N.P.L.)	79 Wall St., New York, N.Y., U.S.A.	Rouyn Twp.
East Sullivan Mines Ltd.	1604, Aldred Bidg., Montreal	
Flicka Red Lake Mines Ltd	1709, Bank of Nova Scotia Bldg., Toronto, Ontario	
Golden Shaft Mines Ltd.	67 Yonge St., Toronto, Ontario	
Holland Gaspe Mines Ltd.	85 Richmond St., W., Toronto, Ontario	
nsco Mines Ltd. (N.P.L.)	355 St. James St. W., Montreal	Dufresnoy
Joliet - Quebec Mines Ltd. (N.P.L.)	25 King St. W., Toronto 1, Ontario	
(idihawk Mines Ltd. (N.P.L.)	21 Dundas Square, Toronto, Ontario	La Sarre Twp.
ake Dufault Mines Ltd. (N.P.L.)	Noranda, Quebec	Dufresnoy Twp.
yndhurst Mining Co. Ltd	360 St. James St. W., Montreal	
Miller Copper Mines Ltd	414 St. James St. W., Montreal	Holland Twp.
New Formaque Mines Ltd	80 Richmond St. W., Toronto, Ontario	
Noralmac Mines Limited	44 King St. W., Toronto 1, Ontario	Abitibi
Voranda Mines Ltd.	1709, Bank of Nova Scotia Bidg., Toronto, Ontario	
Northern Canada Mines Ltd	P.O. Box 1197. Val d'Or. Quebec	
Opemiska Copper Mines (Quehec) Ltd.	P.O. Box 1197, Val d'Or, Quebec	Chibougamau
Osisko Lake Mines, Ltd. (N.P.L.)	25 King St., W., Toronto 1, Ontario	. ADICIDI
Quebec Copper Corporation Ltd.	35 Notre Dame St., W., Montreal	Barraute
Quemont Mining Corporation Limited	44 King St. W., Toronto 1, Ontario	Rouyn Twp.
dainville Copper Mines Ltd. (N.P.L.)	25 King St. W., Toronto 1, Ontario	
trathallon Enterprises Limited	56 Esplanade St., Toronto, Ontario	Inverness
Tache Lake Mines Ltd. (N.P.L.)	132 St. James St. W., Montreal, Quebec	
Touton Mining & Exploration Co.	507, Place d'Armes, Montreal, Quebec	
Waite Amulet Mines, Ltd.	Noranda, Quehec	Dufresnoy
Weedon, Pyrite & Copper Corporation	507, Place d'Armes, Montreal, Quebec	Duprat Twp.
Young Chlbougamau - Opemiska Mines Ltd.	28 St. James St. W., Montreal	Barraute
tario:		Dalarahita
Copper Prince Mines Limited Golden Arrow Mines Limited	22 Toronto St., Toronto, Ontario	Falconbridge Tw Tenlgani

# Directory of Firms in the Gold Mining Industry, 1951 - Concluded

Name	Head or executive office address	Location
(c) Copp	er-Gold-Silver Mining Industry — Concluded	
danitoba:		1
Cuprus Mines Limited Fairway Flinflon Mines Limited Hudson Bay Mining & Smelting Company Ltd. Sherritt-Gordon Mines Ltd. Sno-Squall Mines Ltd.	500, Royal Bank Bldg., Winnipeg. Manitoba 330 Bay St., Toronto, Ontario 500, Royal Bank Bldg., Winnipeg. 25 King St. W., Toronto I, Ontario 64 Main St., Flin Flon.	Flin Flon Athapapuskow Flin Flon Sherridon Flin Flon
saskatchewan:		
Hudson Bay Mining & Smelting Co., Limited	500, Royal Bank Bldg., Winnipeg, Manitoba	Flin Flon
British Columbia:		
Attwood Copper Mines Limited Granby Consolidated Mining, Smelting & Power Co. Ltd, Kamioops Copper Company Limited Nicholson Creek Mining Corporation Rico Copper Mines Ltd, Skookum Payroll Syndicate Vananda Mines (1948) Ltd.	844 West Hastings St., Vancouver 675 West Hastings St., Vancouver 210 Victoria St., Kamloops 301, Insurance Bldg., Seattle, Washington, D.C. 1155 W. Pender St., Vancouver Port Kells, British Columbia 413 Granville St., Vancouver	Greenwood Similkameen Kamloops Omineca Laidlaw Skookum Nanalmo
Northwest Territories:		
Tungsten Corporation of Canada Limited	50 King St. W., Toronto, Ontario	Outpost Island





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