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THE GOLD MINING INDUSTRY 1959



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Industry and Merchandising Division



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THE GOLD MINING INDUSTRY 1959

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SYMBOLS

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

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- p preliminary figures.

THE GOLD MINING INDUSTRY 1959

Including: (a) The Placer Gold Mining Industry.

(b) The Gold Quartz Mining Industry

(c) The Copper-Gold-Silver Mining Industry

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

During 1959 the production of gold amounted to 4,483,416 troy ounces valued at \$150,508,275 compared with 4,571,347 ounces valued at \$155,334,370 in 1958. 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 60 per cent of the total. Quebec, in second position, produced 22 per cent and Northwest Territories accounted for 9 per cent of the total. The other provinces ranked in the following order: British Columbia, Saskatchewan, Yukon, Manitoba. Newfoundland and Alberta.

The price of gold in Canadian funds averaged \$33.57 per troy ounce. It ranged from \$34.23 per troy ounce in February 1959 to \$33.13 per troy ounce in November. The fluctuations were due to foreign exchange rates, The Royal Canadian Mint purchased gold on the basis of \$(U.S.) 35.00 per troy ounce. The United States dollar was quoted at a discount, throughout the year.

TABLE 1. Production of Gold, Fifty Years, 1910-59

Year	Troy ounces	Value	Year	Troy ounces	Value
		\$			\$
1910	493, 707	10, 205, 835	1935	3, 284, 890	115, 595, 279
1911	473, 159	9, 781, 077	1936	3,748,028	131, 293, 421
1912	611,885	12,648,794	1937	4, 096, 213	143, 326, 493
1913	802, 973	16,598,923	1938	4, 725, 117	166, 205, 990
1914	773, 178	15, 983, 007	1939	5, 094, 379	184, 115, 951
1915	918, 056	18,977,901	1940	5, 311, 145	204, 479, 083
1916	930, 492	19, 234, 976	1941	5, 345, 179	205, 789, 392
1917	738, 831	15, 272, 992	1942	4, 841, 306	186, 390, 281
1918	699, 681	14, 463, 689	1943	3,651,301	140,575,088
1919	766, 764	15,850,423	1944	2,922,911	112, 532, 073
1920	765,007	15, 814, 098	1945	2, 696, 727	103, 823, 990
1921	926, 329	19, 148, 920	1946	2, 832, 554	104,096,359
1922	1, 263, 364	26, 116, 050	1947	3, 070, 221	107, 457, 735
1923	1, 233, 341	25, 495, 421	1948	3, 529, 608	123, 536, 280
[924	1, 525, 382	31, 532, 443	1949	4, 123, 518	148, 446, 648
1925	1, 735, 735	35,880,826	1950	4, 441, 227	168,988,687
1926	1, 754, 228	36, 263, 110	1951	4, 392, 751	161, 872, 873
1927	1, 852, 785	38, 300, 464	1952	4, 471, 725	153, 246, 016
1928	1,890,592	39, 082, 005	1953	4,055,723	139, 597, 985
1929	1,928,308	39, 861, 663	1954	4, 366, 440	148, 764, 611
1930	2, 102, 068	43, 453, 601	1955	4.541.962	156, 788, 528
931	2,693,892	58, 093, 396	1956	4, 383, 863	151, 024, 080
932	3,044,387	71, 479, 373	1957	4, 433, 894	148, 757, 143
1933	2,949,309	84, 350, 237	1958	4, 571, 347	155, 334, 370
1934	2,972,074	102, 536, 553	1959	4, 483, 416	150, 508, 275

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

	Since	Quantity	Value
			\$
Goldtroy ounce	1858	152, 692, 730	4, 796, 631, 561
Silver	1887	1, 201, 975, 982	787, 140, 026
Copper ton	1886	9, 141, 217	3, 439, 285, 468
fickel	1889	4, 363, 303	3, 404, 414, 003
.ead	1887	6, 974, 088	1,083,421,897
Einc	1898	***	1,621,469,146
Cobalt ton	1904	30, 325	90, 364, 879

TABLE 3. Production of Gold from Auriferous Quartz and Base Metal Mines, by Months, 1957-59

		production se metal min							from nes		
	1957	1958	1959	1957	1958	1959	1957	1958	1959		
	troy ounces										
January	49,615	48, 128	42, 191	309,023	330, 286	333, 895	358,638	378,414	376,086		
February	47,811	45,211	45, 289	295,015	315, 174	312,763	342,826	360, 385	358.052		
March	55,089	50, 244	48, 254	320,613	344,003	330, 144	375, 702	394, 247	378, 398		
April	49,528	49, 454	47,618	320,723	335, 729	329, 177	370, 251	385, 183	376, 795		
May	43,279	49,625	47,837	332,626	335, 024	332, 182	375, 907	384,649	380.019		
June	46, 152	45,521	43,382	313, 569	340, 289	315,622	359,721	385, 810	359, 004		
July	52, 561	46,682	46, 150	313, 344	335,568	332,860	365, 905	382, 250	379,010		
August	50,938	48,651	45, 276	312,863	321,077	304, 194	363, 801	369, 728	349, 470		
September	48,094	52,076	48,689	327,948	325, 946	315, 299	376,042	378, 022	363, 988		
October	53,434	51, 267	47,673	346, 259	353,061	349,052	399, 693	404, 328	396, 725		
November	49,044	46,013	49,941	329,249	325, 133	338,871	378, 293	371, 146	388, 812		
December	45, 761	38,333	46,068	321, 354	338,852	330, 989	367, 115	377, 185	377,057		
Totals	591, 306	571, 205	558, 368	3, 842, 588	4, 000, 142	3, 925, 948	4, 433, 894	4, 571, 347	4, 483, 416		

TABLE 4. Production of Gold, by Provinces, 1950-59

	Newfo	oundland	Nova	Scotia	Qu	ebec	On	tario	Mai	nitoba
Year	Troy ounces	Value	Troy ounces	Value	Troy ounces	Value	Troy ounces	Value	Troy ounces	Value
		\$		\$		\$		\$		\$
1950	9, 254	352, 115	65	2, 473	1,094,645	41,651,242	2, 481, 110	94, 406, 236	191,725	7, 295, 136
951	8, 515	313,778	17	626	1,067,306	39, 330, 226	2,463,179	90, 768, 146	163, 914	6,040,231
1952	8, 595	294, 551	1, 433	49, 109	1, 113, 204	38, 149, 501	2, 513, 691	86, 144, 910	141, 947	4, 864, 524
1953	7, 654	263, 451	3, 248	111, 796	1,021,698	35, 166, 845	2, 182, 437	75, 119, 481	131, 309	4, 519, 656
1954	6, 528	222, 409	3,754	127, 899	1,098,570	37, 428, 280	2, 361, 385	80, 452, 387	134, 944	4, 597, 542
1955	6, 337	218, 753	3, 880	133, 938	1, 154, 522	39, 854, 099	2, 523, 040	87, 095, 340	123, 888	4, 276, 614
1956	8, 213	282, 938	1, 279	44, 061	1,036,059	35, 692, 233	2, 513, 912	86, 604, 268	120, 232	4, 141, 992
957	9,755	327, 280	45	1,510	1,006,895	33, 781, 327	2, 578, 206	86, 498, 811	120,008	4, 026, 268
958	13, 381	454,686	131	4, 451	1, 044, 846	35, 503, 867	2, 716, 514	92, 307, 146	87, 356	2, 968, 357
959	13, 411	450, 207	710 -	-	999, 388	33, 549, 455	2, 683, 449	90, 083, 383	51, 186	1,718,314
	Saska	tchewan	Alb	erta	British	Coiumbia	Northwest	Territories	Y	ukon
1950	79, 784	3, 035, 781	152	5, 784	290, 490	11, 053, 144	200, 663	7, 635, 227	93, 339	3, 551, 548
951	110, 216	4,061,460	97	3, 574	289, 992	10, 686, 205	212, 211	7, 819, 975	77, 504	2, 856, 022
952	93, 585	3, 207, 158	111	3,804	273,059	9,357,732	247, 581	8, 484, 601	78, 519	2, 690, 648
953	88, 327	3, 040, 215	65	2, 237	264, 976	9, 120, 474	289, 929	9, 979, 356	66, 080	2, 274, 474
954	101, 785	3, 467, 815	195	6, 644	268, 508	9, 148, 068	308, 563	10, 512, 741	82, 208	2, 800, 826
955	83, 580	2, 885, 182	214	7, 387	252, 979	8, 732, 835	321, 321	11,092,001	72, 201	2, 492, 378
956	82, 687	2, 648, 567	1 19	4, 100	196, 692	6, 776, 040	352, 669	12, 149, 447	72,001	2, 480, 434
957	75, 236	2, 524, 168	416	13, 957	229, 113	7, 686, 741	340,016	11, 407, 604	73,962	2, 481, 425
958	86, 590	2,942,328	282	9,582	210, 612	7, 156, 596	343, 838	11, 663, 615	67, 745	2, 301, 975
959	78, 588	2, 638, 199	200	6,714	184, 312	6, 187, 354	405, 922	13, 626, 802	66, 960	2, 247, 847

¹ From all sources.

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

TABLE 5. Production of Gold, by Provinces, according to Nature of Ores, 1958 and 1959

Year and province	Placer gold	Auriferous quartz ores	Copper-gold- silver ores	Nickel-copper ores	Silver-lead and other ores	Total
1958			troy or	Inces		
Newfoundland			3, 942		9, 439	10 00
Nova Scotia		131	3, 842		9, 439	13, 381
New Brunswick		191	52		_	131
		662.910	366, 894	-	15 040	
Quebec		2, 660, 194		47 007	15, 042	1,044,846
Ontario	_		7, 872	47, 367	1,081	2, 716, 514
Manitoba		67, 889	18, 618	849	-	87, 356
Saskatchewan		_	86, 590	_	-	86, 590
Alberta	282	-				282
British Columbia	3, 928	193, 225	3, 969	33	9, 457	210,612
Northwest Territories	_	343, 838	-		1 3 1 1 T	343, 838
Rukon	67, 745		_	-	-	67,745
Canada	71, 955	3, 928, 187	487, 937	48, 249	35, 019	4, 571, 347
1959						
Newfoundland	-	-	4, 875	_	8, 536	13, 411
Vova Scotia	-	-	-	-	-	_
New Brunswick	-	-	-	_	-	-
Quebec	_	620, 111	367, 324	_	11, 953	999, 388
Ontario	-	2, 633, 512	5, 706	42, 509	1,722	2, 683, 449
danitoba	-	29, 487	20, 913	786	_	51, 186
askatchewan	- 1	_	78, 588	_	_	78, 586
Uberta	200	-	-	_	_	200
British Columbia	5, 814	163,042	7, 948	_	7, 506	184.312
Vorthwest Territories	_	495, 922		_		405, 922
/ukon	66, 960	_	_	_	_	66,960
Canada	72, 974	3, 852, 074	485, 354	43, 295	29, 719	4, 483, 416

TABLE 6. Gold Production by Provinces and Principal Areas, 1957-59

	19:	57	195	8	1959		
Province and area	Troy ounces	Value	Troy ounces	Value	Troy ounces	Value	
		\$		S		\$	
Newfoundland	9, 755	327, 280	13,381	454,686	13,411	450, 207	
Nova Scotia	45	1,510	131	4,451	-	-	
New Brunswick	240	8,052	52	1, 767		_	
Quebec: Gold mines Base metal mines	610,482 396,413	20,481,671 13,299,656	662,910 381,936	22, 525, 682 12, 978, 185	620, 111 379, 277	20, 817, 126 12, 732, 329	
Totals	1, 006, 895	33, 781, 327	1,044,846	35, 503, 867	999, 388	33, 549, 455	
Ontario: Gold mines: Porcupine Kirkland Lake Larder Lake Matachewan Sudbury Thunder Bay Patricia Other mines	1,060,038 361,284 519,486 176 31,276 103,312 456,571 46,063	35, 564, 275 12, 121, 078 17, 428, 755 5, 905 1, 049, 310 3, 466, 118 15, 317, 957 1, 545, 413	1, 138, 190 362, 168 542, 269 64 27, 858 107, 124 482, 476 56, 365	38,675,696 12,306,469 18,426,301 2,175 946,615 3,640,073 16,394,534 1,915,283	1,089,699 352,250 567,304 112 36,350 103,228 484,552 49,954	36,581,195 11,825,033 19,044,395 3,760 1,220,269 3,465,364 16,266,411 1,676,956	
Totals	2,576,206	86, 498, 811	2,716,514	92, 307, 146	2,683,449	90, 083, 383	
Manitoba: Gold mines Other mines Totals	97, 156 22, 652 120, 008	3, 259, 584 766, 684 4, 026 , 268	87, 889 19, 467 87, 356	2,306,868 661,489 2,968,357	29, 487 21, 699 51, 186	989, 879 728, 435 1, 718, 314	
Saskatchewan:							
Gold mines Othe, mines Totals	75, 236 75, 236	2, 524, 168 2, 524, 168	86,590 86,590	2, 942, 328 2, 942, 328	78, 588 78, 588	2, 638, 199 2, 638, 199	
Alberta (placer)	416	13, 957	282	9,582	200	6,714	
British Columbia: Gold mines (lode) Gold mines (placer). Other mines	186, 495 2, 105 40, 513	6, 256, 907 70, 623 1, 359, 211	193, 225 3, 928 13, 459	6,565,786 133,473 457,337	163.042 5.814 15,456	5, 473, 320 195, 176 518, 858	
Totals	229, 113	7,686,741	210,612	7, 156, 596	184, 312	6, 167, 354	
Northwest Territories; Gold mines and placer	340, 018	11,407,604	343, 838	11, 683, 615	405, 922	13, 626, 802	
Yukon (chiefly placer)	73, 962	2,481,425	67, 745	2, 301, 975	66, 960	2, 247, 847	
Totals, Canada	4, 433, 894	148, 757, 143	4,571,347	155, 334, 370	4,483,416	150, 508, 275	

TABLE 7. Production of Gold and Silver by Principal Mines, 1959

Mine and province	Ore hoisted	Material sorted (discarded)	Ore treated	Gold produced	Silver produced	Mill capacity — 24 hours	See foot- notes
		tons		troy o	unces	tons	
Newfoundland: Base metal mines	* * *		0 0 0	13, 411	1, 125, 110		
Nova Scotia: Base metal mines and Mint receipts	***			-	_		
lew Brunswick: Base metal mines			* * 4	_	-	• • •	
Quebec: Anacon Barnat Belleterre Quebec Bevoon Canadian Malartic East Malartic Eider Eidrich Lamaque Malartic Goldfields Norlartic Sigma. Sullivan	100, 801 225, 677 14, 071 241, 772 467, 413 544, 137 147, 134 122, 705 758, 470 578, 463 41, 578 410, 112 208, 667	2, 693 - - - - - - - - - - - - - - -	98,108 209,499 14,289 243,788 467,413 544,137 — 758,470 578,483 68,735 410,112 178,942	17, 537 38, 244 3, 909 29, 420 41, 173 111, 130 20, 391 16, 528 122, 934 96, 085 7, 586 73, 646 41, 048	12,062 3,056 4,304 11,182 13,836 19,185 — 19,321 5,163 649 15,080 9,447	500 800 300 800 1,300 1,500 ———————————————————————————————————	1,2,8
Totals for principal gold mines in Quebec		040		619, 633	113, 285		
Copper-gold and other mines		***	***	379, 755	3, 994, 956		
Totals, Quebec	4 4 5			999, 388	4, 108, 241		

TABLE 7. Production of Gold and Silver by Principal Mines, 1959 - Concluded

Mine and province	Ore hoisted	Material sorted (discarded)	Ore treated	Gold produced	Silver produced	Mill capacity — 24 hours	See foot- notes
		tons		troy o	unces	tons	
Ontario:					}		
Porcupine District							
Aunor Broulan Reef	265,558 113,750	-	265,558 113,750	86, 182 31, 218	6,348 2,601	725	1 1
Coniaurum	120, 345	_	120,345	27.595	5, 245	700 500	1
Delnite	182,620 712,900	_	182,746 712,900	43, 933	3,228 36,026	520	1, 3
Hallnor	118,601	_	118,601	173,851 46.043	2,991	1,975	1
Hollinger (Timmins) Hollinger (Ross)	981, 149 121, 422	_	980, 887 121, 217	260, 146	43.226 51.360	3,900	1
Hugh-Pam	62,871	_	121, 21:	18,654 10,752	51,360	360	S
McIntyre Porcupine	773,980 659,827	22, 424	773, 980 637, 403	226.373	37, 364	2,400	1 1
Pamour Paymaster	207,920	22.424	207, 831	61,574 43,493	8,411 9,119	1,750	1
Preston East Dome	223,340	-	223,460	57,878	7,027	800	2,3
Kirkland Lake District							
Kirkland Minerals Lake Shore	69,624 180,577	_	69,624 180,577	30,594 66,265	2,515 23,426	1,200	1
Macassa	158, 130	_	158, 130	69,668	10.702	500	1
Sylvanite	146,781 183,667	_	146, 401 184, 170	39,306 25,149	8,257 3,291	600	1 1
Upper Canada	200,773	_	200, 773	52, 264	29,663	650 525	
Wright-Hargreaves	170, 220		170, 220	69,001	17, 232	_	6
Larder Lake District							
Kerr-Addison	1,662,695	-	1,662,534	567,304	31, 864	4.000	2
Sudhury District							
Renabie	195,628	_	195,898	36,350	10,579	550	1
Thunder Bay District	50 000	40.000	22.000	00.400			
Leitch MacLeod-Cockshutt	50,292	12,900	36, 862 693, 322	36,422 66,616	1,547 6,383	1,900	1,3
Patricia District	. 502,501		000,022	00,010	0,505	1,500	
Campbell Red Lake	314, 976	58, 255	256, 721	162, 273	9,540	700	1,3
Cochenour Willians	84,004	~	84,004	67,614	2,372	200	1,8
Madsen Red Lake McKenzie Red Lake	302,120 87,385	8, 252	301,999 79,133	118,796 17,572	20,401 4,927	800 230	1,3
New Dickenson	171,302		171, 227	85,851	8,126	470	1,3
Pickle Crow	112, 310	_	112,045	32,432	4,316	400	1,3
Totals for principal gold mines in Ontario	• • •	***	***	2,633,169	408, 087	0.0	
Nickel-copper and other mines	* * *	***	***	50, 280 2, 683, 449	10, 132, 769	***	
	***	***	***	4,003,413	10,040,000	***	
Manitoba: Forty-Four Mines Ltd.	35, 188		35,188	7,737	1,318		7
San Antonio Copper-gold and other mines	81, 752	-	81,478	20,833	3,546	550	1,3
	***	0.00	• • •	22,616	368, 963	* * *	
Totals, Manitoba	4 4 6		0 0 0	51,186	373, 827		
Saskatchewan: Copper-Gold and alluviai ores				78.588	1, 187, 439		
Alberta:	1			10,000			
Alluvial gold	* * *		***	200	19		
British Columbia:							
Bralorne-Pioneer	140, 972	-	140.972	103, 267	20,686	500	E E
Cariboo Gold Quartz Pioneer Division Bralorne	46,586 80,428	776	46,586 79,652	17, 746 33, 630	3,108 6,955	375 350	1
Placer gold				5.814	943		
Copper-gold and other mines		146	* * *	23,855	7, 431, 593	• • •	
Totals, British Columbia		***	* * *	184, 312	7, 463, 285		
Torthwest Territories: Consolidated Mining and Smelting (Con Mine)	115,593		115,593	52,647	20 272	500	1,3
Consolidated Mining and Smelting (Rycon Mine)	75, 706	=	75, 706	40,271	20,273 15,508	_	
Consolidated Discovery Yellowknife	51,709	E2 000	51,709	83,988	8,812	150	1,3
Other mines	413, 226	53, 968	360, 994	228,618 398	25,897	1,000	
Totals, Northwest Territories	***	4 9 9	* * *	405,922	70,560		
čukon:							
Placer and silver-lead mines				66,960	7,054,632		1207
Totals, Canada		***	* * *	4,483,416	31, 923, 969		

Cyanidation.
Shipped to smelter.
Amalgamation process.
Amalgamation process.
Shipped to Malartic Gold fields mill.
Shipped to Broulan Reef mill.
Shipped to Lake Shore mill.
Treated at San Antonio mill.

TABLE 8. Gold Production of the World, 1955-59

Country	1955	1956	1957	1958	1959
			fine ounces		
North America:		1			
United States	1,890,783	1,837,961	1,817,197	1,801,005	1,389,361
Mexico.	4,541,962 382,874	4, 383, 883	4, 433, 894	4,571,347	4,483,688
Totals, North America	6, 815, 619	6, 572, 066	6, 597, 411	6, 704, 590	6, 186, 704
A desired and an initial party of the control of th	0,020,020	0,0.11,000	0,000,100	0,102,000	0, 200, 102
Central America and West Indies	244,000	223,600	210,300	249,500	
South America:					
Brazil ²	109, 599	122, 234	120, 755	116, 190	109.310
British Guiana Chile	23.766 122.877	15,815 94,457	16,491 103,587	17, 500 70, 858	3,448
Colombia	380, 626	438,350	325, 130	371,715	397, 928
Ecuador	13,805 8,713	14,585 7,500	16,840	19,311 20,000	18, 177 18, 100
Peru	170, 747	159,074	165,093	159, 127	139,820
Surinam	7,210	6,700	6,526	4, 244	5,819
Venezueia	61, 140	69, 811	75, 976	89, 654	53.740
Total South America, as reported	898, 683	928, 526	839, 947	868, 599	
Europe	400,000	400,000	400, 000	400,000	
Australia:					
New South Wales	30,067	28,821	31,043	18,709	13, 269
Queensland	64,322 38,035	56,022 38,846	63,363 45,752	70, 987 41, 476	93, 136 36, 084
Western Australia	634, 326	813, 537	849, 751	874, 824	861, 122
Tas mania	18, 882	17, 131	20,027	21, 744	20, 751
Other Australia	65, 407	75,464	74, 005	72,664	65, 212
Total Australia (Commonwealth)	1, 049, 039	1, 029, 821	1, 983, 941	1, 100, 404	1, 089, 574
Oceania, other:					
New Guinea	74, 853	67.282 79,476	78, 807 89, 030	81,827 43,812	72, 566 46, 820
New ZealandFiji	26, 443 70, 100	26, 063	30, 195	24. 932	37, 662
Total Oceania, other	171, 396	172, 821	178, 032	150, 571	157, 048
Asia: India	211,461	209, 253	179, 198	170, 109	165.380
Japan	288, 707	295,334	302,706	308, 450	328, 193
Korea, Republic of	47,037	49,929	66,576	73, 163	85,681
Malaya Philippines Republic	22,838 419,112	20, 253 406, 163	11, 157 379, 982	22,484 422,633	26, 739 402, 615
Saudi Arabia				4 4 4	
Taiwan (Formosa)	28, 113	37, 501	19, 483	20, 265	
Total Asia, as reported	1, 017, 268	1, 018, 433	959, 102	1, 017, 394	
Africa:					
Bechuanaland	560	590	190	215	
Belgian Congo	369, 913	373,640	374, 258	356, 126 36, 369	351,078
Ethiopia	22, 058 518	25, 700	10, 899	2,009	97
French Equatorial Africa	46,553	40,712	30,780	23,704	eas 600
Gold Coast	681,206 9,528	620, 194 13, 642	788, 151 7, 387	851, 433 7, 753	591, 623 9, 14
KenyaLiberia	672	160	381	400	1,35
Madagascar	981	903	842	547	05/
Nigeria	681 474	439 452	487	646	950
Sierra Leone	524, 701	536, 392	536, 849	554,838	566, 883
Tanganyika (exports)	68, 892	59, 293	54.088	56, 299	85, 40:
Union of South Africa	14,601,395	15,896,693	17, 031, 690	17, 656, 442	20, 064, 10
Total Africa, as reported	16, 328, 534	17, 569, 944	18, 961, 245	19,547,073	=0,001,10
				10.00	
Russia ³	9, 000, 000	10,000,000	10,000,000	10,000,000	
Total world, as reported	35, 924, 589	37, 915, 211	39, 129, 978	40, 038, 041	
Estimated world totals	36, 400, 000	38, 400, 000	39, 620, 000	40, 400, 000	

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

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

Mined gold only; production of alluvial gold unknown.

Conjectural.

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

TABLE 9. Gold Production according to Method of Computation and Recovery, 1950-59

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
			per cent			fine ounces
1950	2.43	81.51	0.38	12.26	3.42	4, 441, 227
1951	2.19	81.86	0.33	12.20	3.42	4, 392, 751
1952	2.08	83.22	0.39	11.37	2.94	4, 471, 725
1953	1. 91	84.11	0.25	9.77	3.96	4, 055, 723
1954	2.05	83,14	0.34	11, 18	3, 29	4, 366, 440
1955	1. 73	83, 10	0.16	12.15	2. 86	4,541,962
1956	1.71	83.66	0.17	12.88	1.58	4, 383, 863
1957	1.72	83, 98	0.32	12,40	1.58	4, 433, 894
1958	1.57	84.06	0.20	12.64	1. 53	4, 571, 347
1959	1.63	84.47	0, 21	12, 52	1, 17	4, 483, 418

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 10. Estimated Average Monthly Value of an Ounce of Fine Gold, Expressed in Canadian Funds, 1940-59

Month	1940- 45	1946	1947- 48	19491	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959
		-duc					dol	lars			-			
January	. 38, 50	38, 50	35.00	35.00	38.50	36.81	35. 19	33.97	34. 05	33.81	34.95	33.62	34. 46	33.84
February	. 38, 50	38. 50	35.00	35.00	38. 50	36.73	35. 03	34. 20	33.83	34. 19	34. 97	33, 54	34, 34	34, 12
March	. 38.50	38. 50	35.00	35.00	38. 50	36.65	34. 85	34.44	33.98	34. 45	34.95	33, 46	34, 21	33. 93
April	38, 50	38. 50	35.00	35.00	38, 50	37.07	34,34	34, 43	34, 39	34. 52	34, 89	33.59	33.97	33.73
May	38, 50	38. 50	35.00	35.00	38. 50	37. 25	34.43	34.79	34. 45	34.51	34. 71	33.45	33.84	33.70
June	38. 50	38.50	35.00	35.00	38.50	37. 42	34. 26	34, 80	34.34	34.45	34. 48	33.36	33.67	33, 56
July	38, 50	35.35	35,00	35, 00	38.50	37.12	33.93	34.72	34.10	34.46	34, 37	33.29	33.60	33, 51
August	38, 50	35, 00	35,00	35.00	38.50	36,96	33.65	34.59	33,96	34.48	34.34	33.18	33.76	33.41
September	38. 50	35.00	35.00	38, 52	38. 50	38, 94	33.59	34.45	33.94	34.57	34. 22	33.56	34. 19	33.31
October	38. 50	35.00	35.00	38, 50	36,86	36. 78	33.75	34.39	33.94	34.84	34. 07	33.77	33.98	33.17
November	38. 50	35. 00	35.00	38. 50	36.43	36.53	34.17	34.22	33.93	34. 98	33.75	33.67	33.89	33.26
December	38.50	35.00	35.00	38, 50	36, 83	35. 89	33.97	34.06	33.88	34.98	33.62	34.22	33, 76	33, 29
Yearly averages	36, 50	36. 75	35.00	36.00	38. 05	36, 85	34,27	34, 42	34. 07	34, 52	34, 45	33, 55	33, 98	33.57

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

TABLE 11. Precious Metals Consumed by the Jewellery and Silverware Industry, 1955 - 58

Material		Cost at w	rorks	
Material	1955	1956	1957	1958
		dollar	8	
Pine gold	4, 152, 488	5, 444, 312	4, 585, 764	5, 044, 225
Gold alloys	1,299,382	1,421,905	1,403,075	1,633,143
Fine silver	3,027,330	3,677,213	3, 975, 569	2, 801, 283
Silver alloys and sterling	2, 802, 742	2,820,971	2, 554, 281	2, 354, 492
Platinum	579,060	1, 218, 798	1,182,835	3, 256, 208
Old gold, jewellers' findings, waste and scrap refining	1, 726, 260	1, 672, 727	1,651,414	1,020,928
Fold-filled wire and stock	138,030	146, 254	151, 113	143, 909
Precious and semi-precious stones	3, 140, 571	3,753,954	3,632,668	4, 073, 739

EMERGENCY GOLD MINING ASSISTANCE ACT

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

· Summary of Operations for the Year 1958

The Emergency Gold Mining Assistance Act was amended by Chapter 28 of the Statutes of 1958. The amending act, which received Royal Assent on September 6, 1958, extended the application of the Act for two years to the end of 1960. It also increased by 25 per cent the amount of assistance payable, as calculated by the prescribed formula, to eligible gold mine operators for each of the three years 1958, 1959, and 1960.

Since the inception of The Emergency Gold Mining Assistance Act in 1948 the amount of assistance payable to the operators of a gold mine has been calculated by a formula consisting of two factors: the "rate of assistance" which is based on the cost per ounce of gold produced from the mine, and the "assistance ounces" which are a specified proportion of the total ounces of gold produced. Under the formula prescribed for the years 1955, 1956, and 1957, the rate of assistance factor was determined by taking two-thirds of the amount by which the cost per ounce exceeded \$26.50, with a maximum rate of \$12.33 per ounce. The number of assistance ounces was two-thirds of the total produced. The amount of assistance payable for the years 1955 to 1957 was the amount obtained by multiplying the rate of assistance by the number of assistance ounces. The amending act of 1958 did not alter this formula, but the amount of assistance payable to an operator for the years 1958, 1959, and 1960 is computed by adding 25 per cent to the amount obtained by application of the formula.

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

Applications for assistance have been received from 42 gold mines with respect to the calendar year 1958. These represent the bulk of the mines that will apply for assistance for that year; however, applications may be made up to six months after the year-end and it is anticipated that additional applications will be received, most of which will be from placer operations.

The estimated total assistance which will be payable in respect of gold produced and sold under the provisions of the Act in 1958 is now calculated to be \$11,700,000. Of this amount, \$2,340,000 is attributable to the increase of 25 per cent in the assistance payable. The actual assistance paid up to March 31, 1959, with respect to the year 1958 was \$6,884,065.61. This sum is 80 per cent of the assistance payable on the applications received to that date. The remaining 20 per cent is payable when the books of the companies have been audited by the Cost Inspection and Audit Division of the Office of the Comptroller of the Treasury.

The final audit for the calendar year 1957 has been completed with the exception of four applications. A total of \$9,324,446.70 has been actually paid with respect to this year and the payment of holdbacks will bring the final figure to approximately \$9,700,000.

Two mines, one in Manitoba and one in Quebec, ceased operations during the year. One auriferous quartz producer resumed operations following a suspension of 1956. One gold-copper producer also qualified for assistance during the year. Both mines are located in Quebec. Nine lode gold mines were in operation in Canada which were not eligible for assistance payments because their costs of production were below \$26.50 per ounce of gold produced.

The average price per ounce of gold paid by the Royal Canadian Mint in 1958 was \$33.98 compared with \$33.55 in 1957 and \$34.45 in 1956.

The prescribed forms, upon which application is made for assistance, were revised to accommodate the calculation required by the 1958 amendment to the Act and to increase the usefulness of the forms in eliciting the information required in the examination and auditing of applications.

Conditions Governing Eligibility of the Operator of a Gold Mine for Assistance Payments

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

- The value of the gold produced must be 70 per cent or more of the total value of the output of the mine.
- (2) The mine or operation must produce at least 50 troy ounces of gold in a designated year.
- (3) Ore reserves of commercial significance must be developed and there must be a possibility of attaining production of gold on a commercial basis within a reasonable time.

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

- (1) Application in prescribed form for assistance payments with respect to a designated quarter or year must be received by the Department of Mines and Technical Surveys within six months after the end of the designated period. Advance payments may be made with respect to a calendar year or to quarterly periods beginning with the first day of the months of January, April, July, or October. Forms MREA 1 and MREA 2 are the forms to be used in making application for assistance.
- (2) The cost of production per ounce of gold, computed on all ounces of gold produced from the mine during the designated period, must exceed \$26.50.
- (3) Assistance payments are made only with respect to those ounces of gold produced from the mine during the designated period which are:
 - (a) sold in the form of bullion to the Royal Canadian Mint by the operator; or
 - (b) sold in the form of ore or concentrate to a domestic smelter which in turn selis an amount of gold to the Royal Canadian Mint equivalent to that separated from the ore as soon as is practical after the shipment of the ore; or
 - (c) exported and sold in the form of ore or concentrate to a foreign smelter.
- (4) The operator of a mine applying for assistance for the first time must submit a declaration of ownership of the mine on the prescribed form MREA 3.
- (5) A new mine which is operated by an incorporated company must be declared in production in accordance with Section 83(5) of the Income Tax Act. Status as a new mine may be obtained through application to the Taxation Division, Department of National Revenue, Ottawa

The Gold Export Act and Disposal of Canadian Gold

The Gold Export Act, passed in 1932, authorizes the Governor in Council to make regulations regarding the export of gold from Canada. On March 21, 1956, the regulations which prohibited the export of gold in any form except under licence

issued by the Minister of Finance were revoked. Thus, since March 21, 1956, producers have been free to sell their gold wherever they desire.

Act and Regulations

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

Amendments to the Act

- (3) Chapter 20, 13 George VI (Second Session), received Royal Assent, December 10, 1949.
- (4) Chapter 49, 15 George VI (First Session), received Royal Assent June 30, 1951.

- (5) Chapter 25, I Elizabeth II, received Royal Assent, June 18, 1952.
- (6) Chapter 32, 2 Elizabeth II, received Royal Assent, May 14, 1953.
- (7) Chapter 26, 2-3 Elizabeth II, received Royal Assent, March 31, 1954.
- (8) Chapter 19, 3-4 Elizabeth II, received Royal Assent, May 26, 1955.
- (9) Chapter 20, 4-5 Elizabeth II, received Royal Assent, June 26, 1956.
- (10) Chapter 28, 7 Elizabeth II, received Royal Assent, September 6, 1958.

Amendments to the Regulations

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

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

Province	1952	1953	1954	1955	1956	1957	1958
				dollars			
Quebec	2, 838, 726	4, 225, 820	4, 161, 889	2,510,421	2, 554, 961	2, 804, 639	2,562,905
Ontario	5,579,649	7, 154, 496	8.700,203	4, 532, 956	4, 569, 086	5, 430, 897	4, 945, 446
Manitoba	379,003	454,694	580,741	654, 801	722, 087	712, 029	390, 276
British Columbia	782, 155	1,046,076	1,036,678	600,710	605,950	391,877	246, 257
Northwest Territories	1,011,211	1,409,761	1.411.829	330,532	14, 013	284.030	460, 198
Yukon	255, 234	389, 263	367, 839	255,959	201, 138	47.761	-
Canada	10, 845, 978	14,680,110	16, 259, 179	8, 885, 479	8, 667, 235	9, 671, 233	8, 605, 082

THE PLACER GOLD MINING INDUSTRY

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

In 1959 a total of 72,974 troy ounces of fine gold were recovered from crude gold obtained from Canadian alluvial deposits. This represented an increase of 1.4 per cent from the preceding year. Reviewing the past twenty years, it is noted that the peak of production of placer gold occurred in 1939, and that the lowest annual output was in 1944.

Quebec - After many years of no production there was a recorded output of 38 ounces in 1951 and 39 ounces in 1952, none in 1953, 16 ounces in 1954 and nil in 1955-1959.

Saskatchewan and Alberta - The small amount of gold, considered as being placer in origin, received at the Royal Canadian Mint, Ottawa, is assumed to have come from along the North Saskatchewan River. There has been activity in this district, in the vicinity of Edmonton, dating from about 1860.

British Columbia—It has been found impractical to obtain complete reports for each individual placer mining operation in British Columbia inasmuch as a considerable quantity of the crude placer gold is recovered annually to prospectors of no fixed abode who, in many instances, market their recoveries through local merchants and banks. Recoveries in 1959 were made chiefly from deposits located in the Atlin and Cariboo districts. Output was estimated at 5,814 troy ounces.

Yukon - Over 90 per cent of the placer gold recovered in Canada during 1959 was found in the creeks of the Yukon. Production in 1959 totalled 66,960 troy ounces.

The placer gold industry employed an average of 239 persons to whom \$1,194,713 were paid in wages and salaries. Fuel and electricity cost \$74,536, electricity generated for own use was 18,586,304 kwh. and the electricity for sale was 6,626,700 kwh. Process supplies were valued at \$355,837. Freight and express on shipments amounted to \$12,370 and \$30,553 were paid for treatment and marketing.

TABLE 13. Principal Statistics for Placer Gold Mining, Significant Years, 1921-59

Year	Establish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Process supplies and containers	Gross value of products	Net value of production ¹
	nun	ber			dollars		
1921	197	428	671. 783		* *	1,576,222	
1929	68	488	586, 193	2,969		836,006	
1931	109	337	682.935	41.745	0.0	1, 226, 541	
1933	74	454	704, 151	35, 165		1, 218, 250	4
1937	109	1,069	1.689,911	99,072	77,488	3, 243, 196	3,066.63
1939	104	830	1, 439, 765	119.692	90,610	4, 523, 587	4, 204, 97
1941	110	797	1,954,278	155, 518	68, 489	4, 132, 503	3, 800, 14
1944	47	211	598, 556	43,591	13, 703	1, 281, 125	1.197.02
1946	39	340	1, 112, 984	84, 206	46, 870	1,849,511	1,693,56
1949	56	398	1,509,423	88, 614	455, 371	3,499,823	2,920,29
1951	47	362	1,553,103	44, 678	507,830	3, 572, 516	2,951,34
1954	62	351	1,619,460	146, 300	253, 128	3,051,665	2,575,03
1955	64	345	1,480,868	122, 882	98, 278	2, 728, 106	2,443,59
1956	64	250	1,378,166	81,639	451,933	2,594,312	2,026,79
1957	57	243	1.180.225	55, 472	353, 186	2, 573, 853	2, 116, 71
1958	112	236	1, 253, 362	63,007	461.375	3,049,743	2,484,52
1959	112	239	1, 194, 713	74,536	355,837	2, 462, 727	1,989,43

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

TABLE 14. Alluvial Gold Recovered and Quantity of Material Handled, 1950-59

		British (Columbia			Yu	kon		Canada
Year	Material handled ²	Gold recovered	Ounces per cu. yd.	Value per cu. yd.	Material handled ²	Gold recovered	Ounces per cu. yd.	Value per cu. yd.	Gold recovered
	cu. yd.	fine c	unces	\$	cu. yd.	fine o	unces	\$	ounces
1950	494,066	14, 632	0.0296	1- 1263	7, 860, 497	93, 339	0.0118	0.4490	108.143
1951	335,487	18, 602	0.0560	2.0636	7, 266, 422	77.504	0.0107	0.3942	96, 441
1952	270.656	7, 950	0.0294	1.0075	6,727,353	92,789	0.0138	0.4729	92, 843
1953	597,073	11,360	0.0199	0.6850	5, 155, 826	66, 080	0.0140	0.4832	77, 505
1954	233, 114	7, 105	0.0305	1.0390	6, 889, 820	82, 208	0.0119	0.4065	89, 571
1955	110,594	6, 206	0.0561	1. 9365	6, 379, 755	72, 201	0.0113	0.3907	78, 621
1956		2,962			5.716.389	71, 736	0.0125	0.4306	74, 919
1957	9.9	2, 105	010		7,559,882	73, 709	0.0097	0.3271	76, 303
1958	**	3,926		***	6,808,991	67, 745	0.0099	0.3380	71,955
1959		5,814			6,824,062	66, 960	0.0098	0.3294	72.974

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

Data partly conjectural and include some overburden and barren material.

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

TABLE 15. Employees and their Earnings in the Placer Gold Mining Industry, 1955 - 59

		E	mployee	81			Earnings			
Year	Admini	stration	Worl	umen	Total	Man-hours worked	Admin-	Workmen	Total	
	Male	Female	Male	Female	TOTAL		istration	Working	I Orom	
			number				1.	dollars		
1955	14	2	321	8	345	746,727	53,475	1,427,393	1, 480, 868	
1956	13	-	227	10	250	688,681	58.860	1,319,306	1.378,166	
1957	14	6	218	5	243	661, 202	92, 833	1.087.392	1, 180, 225	
1958	16	5	212	5	236	659.577	123, 329	1, 130, 033	1, 253, 362	
1959	20	5	211	3	239	621, 299	114, 224	1,080,489	1, 194, 713	

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

TABLE 16. Fuel and Electricity Used in the Placer Gold Mining Industry, 1959

Kind	Quantity	Cost at plani
		\$
Bituminous coal (a) From Canadian mines	30	988
(b) Imported	-	_
Sub-bituminous coal (from Alberta mines only)	-	-
Inthracite coal		-
lignite coal		_
Coke (for fuel Only)		-
Sasoline, (includes gasoline used in cars and trucks)	59,210	29, 455
Kerosene or coal oil	395	420
Puel oil	79, 443	25, 757
Tood (cords of 128 cubic feet of piled wood)	808	17,877
has (a) Liquefied petroleum gases (propane, etc.)	-	-
(b) Other manufactured gas	-	-
(c) Natural gas	-	-
Other fuel	_	-
Electricity purchased for power and lighting	3,900	39
Electricity purchased for other purposes	_	_
Total (cost only)	***	74, 536
Electricity generated (a) For own use	18, 586, 304	
(b) For sale "	6, 626, 700	114, 987

THE GOLD QUARTZ MINING INDUSTRY IN CANADA

The gold quartz mining industry produced, during 1959 minerals valued at \$130,097,538 compared with \$133,998.004 in the preceding year. The total valuation included gold, silver, copper and other recoverable metals found in the gold ores.

The average number of employees was 16,777 whose earnings amounted to \$65,519,112. Fuel cost \$1,493,294 and 944,534,278 kwh. of electricity were purchased for \$5,667,760. Process supplies, which included explosives, chemicals, drill steel, etc., cost \$20,901,136. Electricity generated for own use was 41,350,126 kwh. and generated for sale was 4,483,444 kwh.

The greater part of Canada's gold comes from the Canadian Shield, an immense area of precambrian rocks, extending from

the Labrador Coast westward almost to the mouth of the Mackenzie River. The area of the Shield is roughly 1.825,000 square miles, almost half of Canada. The deposits of the Shield are of two main types, namely, quartz veins, from which most of the gold, up to the present time, has been won, and sulphide deposits which produce a smaller but very considerable proportion. The second great source of gold in Canada has been the Western or Cordilleran section, comprising British Columbia and the Yukon Territory, the gold production from this section including relatively large quantities obtained from alluvial deposits. In Nova Scotia gold was mined as early as 1862 but in late years the production in this province has dwindled to a very small percentage of Canada's output.

TABLE 17. Principal Statistics for the Gold Quartz Mining Industry, Significant Years, 1921-59

		Establish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies	Gross value of products	Net value of production ¹
		nur	nber			dollars		
1921	***************************************	59	3, 889	6,072,318	1, 154, 606		16,689,784	
1929	^**************************************	85	8,660	14, 258, 733	2, 579, 481		37, 275, 986	
1931		69	9, 636	16, 467, 165	2, 700, 326		49, 144, 578	
1933	***************************************	216	12,823	20, 536, 012	3,330,137		69, 151, 535	
1937	47:1004277770000000000000000000000000000000	689	29, 140	48, 219, 318	7, 345, 401	16, 230, 722	122,876,103	97, 961, 27
1939	***************************************	474	30,622	53, 206, 225	7, 952, 580	19, 484, 870	160, 014, 172	129, 633, 24
1941	[47]]]]]]]	357	32, 551	62, 150, 810	8,462,618	21,066,900	179, 103, 182	145, 978, 83
1944	***************************************	262	17, 226	37, 023, 505	5, 895, 117	11, 174, 746	94, 263, 416	75, 234, 38
946	***************************************	686	21,973	47, 211, 062	6,259,876	14,401,904	88,422,683	66, 342, 15
949	***************************************	247	22, 358	61, 293, 334	7, 307, 153	23, 251, 674	129, 550, 461	96, 580, 30
1951		211	22, 126	68, 739, 531	7, 791, 586	26, 677, 361	136, 703, 452	100, 059, 50
1954		157	18, 479	63, 578, 156	6, 967, 528	23,639,788	127, 644, 959	95, 627, 10
1955	***************************************	136	18,032	83,961,744	7,080,925	24,496,662	134, 476, 377	101,382,07
1956	***************************************	134	17,031	62, 701, 494	6, 830, 676	22, 725, 750	127, 983, 495	97, 011, 06
957		147	16, 911	63, 706, 608	6, 771, 886	22, 705, 425	127, 055, 902	95, 991, 24
958	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	127	16,811	64, 208, 042	7, 134, 399	18, 013, 121	133, 998, 004	107, 140, 99
1959		139	16,777	65,519,112	7, 161, 054	20, 901, 136	130, 097, 538	100, 519, 39

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

TABLE 18. Principal Statistics for the Gold Quartz Mining Industry, 1958 and 1959

	Active opera- tors ¹	Em- ployees	Salaries and wages	Cost of fuel and purchased electricity	Cost of process supplies used ²	Amount of freight etc., paid on ship- ments of ore, slag, etc.	Smelter and refinery treatment costs	Gross value of bullion, ore, concen- trates or residues shipped from mines	Net value of bullion, ore, concentrates or residues shipped from mines ⁴
1958	nun	nber				dollars			
Quebec and Nova Scotia Ontario Manitoba and Saskatchewan British Columbia Northwest Territories	66 41 5 8 7	3,332 11,626 331 851 671	12, 274, 705 43, 192, 830 1, 278, 354 3, 786, 513 3, 675, 640	1,438,600 4,289,200 264,053 291,016 851,530	3,688,603 11,917,107 455,775 901,432 1,050,204	156, 792 110, 543 2, 501 82, 699 20, 976	505,189 654,888 8,840 95,272 71,791	22,941,713 90,657,790 2,313,109 6,351,710 11,733,682	17, 152, 529 73, 686, 052 1, 581, 940 4, 981, 291 9, 739, 181
Totals	127	16,811	64,208,042	7, 134, 399	18, 013, 121	373,511	1,335,980	133, 998, 004	107, 140, 993
1959 Quebec and Nova Scotia Ontario	75 46 3 7 8	3,347 11,732 218 771 709	12,717,019 44,783,710 781,900 3,284,383 3,952,100	1,527,716 4,307,333 126,920 301,199 897,886	3,868,729 15,376,966 170,637 215,398 1,269,406	126,024 108,653 2,805 78,113 9,232	469,466 613,840 9,590 84,428 13,780	21, 107, 303 88, 864, 666 990, 891 5, 420, 911 13, 713, 767	15,115,348 68,457,874 680,939 4,741,773 11,523,463
Totals	139	16,777	65, 519, 112	7, 161, 054	20, 901, 136	324,827	1, 191, 124	130, 097, 538	100, 519, 397

TABLE 19. Ores Mined and Treated by the Gold Quartz Mining Industry, 1950-59

Year	Ore holsted	Ore milled ¹	Crude ore shipped to smelters ²	Low-grade sorted out	Tailings re-treated	Gold in recovered as bullion	Gold in crude ore shipped	Gold in concentrates siag, etc., shipped
			tons				fine ounces	
1950 1951 1952 1953 1954 1955 1956 1957 1958	16, 980, 027 16, 548, 264 16, 496, 218 15, 247, 337 16, 178, 273 16, 404, 660 14, 589, 230 14, 354, 879 14, 751, 991 14, 246, 860	16, 297, 461 15, 907, 335 15, 991, 130 14, 842, 517 15, 560, 138 15, 660, 528 14, 070, 420 13, 894, 311 14, 223, 343 13, 732, 277	315, 390 311, 324 307, 464 198, 535 285, 697 333, 783 276, 130 253, 607 273, 204 347, 203	206, 797 171, 137 145, 999 233, 813 271, 642 221, 077 195, 257 215, 397 175, 069 188, 996	312 800 634 2,176 1,212 465 329	3,630,358 3,572,655 3,709,717 3,412,964 3,610,496 3,764,817 3,635,709 3,695,665 3,829,460 3,763,954	46,202 41,549 41,943 28,105 44,336 50,516 45,561 43,601 40,516 46,812	98, 804 84, 812 72, 285 76, 422 74, 808 58, 343 23, 725 26, 712 51, 499 40, 391

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

TABLE 20. Ores Mined and Milled, Crude Bullion Recovered and Crude Bullion and Concentrates Shipped, in the Gold Quartz Mining Industry, 1959

	Quehec, Nova Scotia	Ontario	Manitoba	British Columbia	Northwest Territories	Canada
	14	0.4	0		5	61
Number of producing mines	14	34	410.010	6	2 2 2 2 2	
Ore mined ton	3,861,020	9, 327, 102	116,940	285, 564	656, 234	14, 246, 860
Material discarded (sorted)	32,418	101,831	-	779	53, 968	188, 996
Ore milled (ground, etc.)	3,503,241	3, 136, 396	116,666	283,179	604,002	13, 732, 277
Tailings re-treated	-	312	_	17	_	329
Gold content of ores, slags, residues and con- centrates shipped: To foreign smelterstroy ound To Canadian smelters or mills	55, 730	7,477	917	21, 183 52	1,844	21, 183 66, 020
Bullion bars shipped: Gold content Silver content	563,329 105,245	2,627,791 404,274	28,570 4,864	140,924 25,917	401, 582 69, 661	3,762,196 609,961
Content of bullion bars produced: Gold Silver Gold value Silver value	564, 381 103, 597 16, 941, 260 90, 661	2,626,001 402,496 88,258,758 351,347	28,570 4,864 959,016 4,257	140,924 25,917 4,730,724 21,774	404,078 70,068 13,585,153 62,357	3,763,954 606,962 126,474,911 530,396
Value of ores, concentrates, slags and residues sold (shipped)	2,075,382	254, 561	27,618	668, 413	66, 257	3,092,231
Total gross value of production	21, 107, 303	88, 864, 666	990, 891	5, 420, 911	13, 713, 767	130, 097, 538
Value of fuel, electricity and process supplies used, also freight on shipments, marketing, smelter and refinery charges	5,991,955	20,406,792	309,952	679, 138	2, 190, 304	29,578,141
Net value of production \$	15, 115, 348	68, 457, 874	680, 939	4, 741, 773	11, 523, 463	100,519,39

Producing mines; in 1956, 61; in 1957, 69; in 1958, 68; in 1959, 61.
Explosives, chemicals, etc.
Value of bullion produced, plus value of ore, concentrates, etc., shipped.
Gross value less cost of supplies, fuel and electricity, treatment costs and freight.

TABLE 21. Ores, Concentrates, Slags, etc., Shipped to Smelters and Mills from Canadian Gold Mines, 1950-59

	Ore	es	Concen	itrates	Slags, re	
Year	Tons	Gold content- troy ounces	Tons	Gold content- troy ounces	Tons	Gold content- troy ounces
To Canadian plants						
1950	294, 387	45, 215	-		153	5, 22
1951	296, 341	41, 398	-	9	349	7, 24
1952	298, 207	41, 908	20	241	91	4, 42
1953	198, 535	28, 068	20	227	123	9, 30
1954	282, 331	44, 276	_	-	404	8, 64
1955	333, 783	50, 516	-	_	237	4, 81
1956	276, 130	45, 561	28	379	294	8, 56
1957	253, 602	43, 589	10	129	187	6, 79
1958	267, 309	40.516	2, 583	18, 883	290	9, 10
1959	347, 203	46, 812	1, 398	10, 215	232	8, 99
To foreign plants						
1950	51	987	20, 471	53, 811	15	39, 77
951	34	151	14, 303	37, 360	29	40, 12
952	1	35	9, 125	24, 085	20	43, 53
953	3	37	143	16, 468	20	50, 42
954	2	60	2, 938	14, 931	22	51, 23
955	-		2, 807	14. 676	17	38, 65
956	_	-	2, 388	14, 655	12	12
957	5	12	2, 636	19, 792	-	
1958			3, 009	23, 305	13	20
1959	_		2, 668	21, 183		_

TABLE 22. Shipments from Gold Quartz Mines, 1958 and 1959

	Quantity		Total gross me	etal content	
	Quantity	Gold	Silver	Copper	Other ¹
	tons	ounces		pounds	
1958					
To Canadian smelters:					
Gold ore	267, 309	40, 516	234	_	2, 982
Gold concentrates	5	416	50	-	and a
Slags, precipitates, residues	290	9, 109	10, 358	3, 859	_
Copper concentrates	2,578	18,467	19, 324	1, 485, 757	_
To foreign smelters:					
Gold ore	-	-	_	-	_
Gold concentrates	3, 009	23, 305	6, 475	-	_
Slags, precipitates, residues	13	202	52	- 1	-
Totals	273, 204	92, 015	36, 493	-	
1959					
Fo Canadian smelters:					
Gold ore	347, 203	46, 812	972	_	2, 891
Gold concentrates	78	1, 807	360	852	_
Slags, precipitates, residues	232	8, 993	8, 779	1, 823	28
Copper concentrates	1,320	8, 408	8, 562	744, 523	-
To foreign smelters:		S 10			
Gold ore	-	-	-	-	_
Gold concentrates	2, 868	21, 183	5, 830	-	-
Slags, precipitates, residues	_	-	-		_
Totals	351, 501	87, 203	22, 503	746, 998	2, 719

¹ Zinc.

TABLE 23. Certain Data Relating to the Production of Gold by the Entire Gold Quartz Mining Industry, 1950 - 59 (Averages)

Уеаг	Average ounces of gold produced per wage-earner	Cost of fuel and electricity per ounce of gold produced	Cost of wages per ounce of gold produced	Cost of explosives and other process supplies used, per ounce of gold produced	Cost of freight smelter refinery and treatment on ores and bullion shipped, per ounce of gold produced	Taxes per ounce of gold produced	Total of specified costs		
	ounces	dollars							
1950	186	2.08	14.83	6.55	0.69	2.08	26. 23		
1951	193	2.11	15.60	7.21	0.59	2.19	27.70		
1952	209	1.96	15.19	6.60	0.46	1.84	26.05		
1953	209	1.96	14.85	6.46	0.41	1.55	25.23		
1954	225	1.87	14.70	6.34	0.37	1.57	24. 85		
1955	240	1.83	14.20	6.32	0.39	1.60	24. 34		
1956	244	1.84	14.43	6. 13	0.38	1.66	24.44		
1957	249	1.80	14.53	6.03	0.42	1.57	24. 35		
1958	261	1.82	13.99	4.59	0.44	1. 55	22.39		
1959	251	1.91	14.85	5.57	0.41	1.87	24.61		

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

TABLE 24. Gold and Silver Content of Bullion Produced, of Ores, Concentrates, etc., Shipped, with Average Grade of Ore Shipped and Ore Milled at Gold Quartz Mines and the Average Price of Gold and Silver in Canadian Funds.

Year	Tonnage treated ^{1,3}	Gold content ²	Silver content ²	Ounces of fine gold per ton	Ounces of fine silver per ton	Average price of gold	Average price of silver
		fine ou	nces			\$ per	oz.
1950	16, 297, 461	3, 775, 364	715, 991	. 23	. 04	38.05	0.808
1951	15,907,335	3,699,016	658,719	. 22	.04	36.85	0.945
1952	16, 289, 337	3,823,747	688, 489	. 23	. 04	34. 27	0.835
1953	15,041,261	3,509,527	620, 146	. 23	. 04	34.42	0.840
1954	15, 642, 471	3,729,640	660,259	. 24	- 04	34.07	0.632
1955	15, 997, 372	3,873,676	652, 589	. 24	. 04	34.52	0.882
1956	14,349,272	3, 704, 995	623,995	. 26	. 04	34.45	0.897
1957	14, 147, 918	3, 766, 124	643, 146	. 27	. 05	33.55	0.874
1958	14,490,652	3,921,475	707,794	. 27	. 05	33. 98	0.868
1959	14,079,480	3, 751, 157	629, 465	. 27	. 04	33.57	0.878

TABLE 25. Specified Costs per Ton of Ore Milled at Certain of the Principal Auriferous Quartz Mines, 1959

Name of mine	Develop- ment and explora- tion ¹	Mining	Milling	General ³	Total before deprecia- tion and taxes	Depre- ciation	Taxes	Total costs specified		
	dollars									
Quebec:								1		
Anacon Lead Mines Ltd.	1.90	3.61	2.79	2.55	10.85			16.79		
Belleterre Quebec Mines Ltd.	3.01		1.23	0.96	4.4	8.163	1.41	14.77		
Barnat Mines Ltd.	0.79	4.60	1.20	1.36	7.95	1.02	0.12	9.09		
Canadian Malartic Gold Mines Ltd.	0.597	1.596	0.786	0.582	3.561	0.079	0.002	3.642		
Elder Mines & Developments Ltd.	0.203	2.930	0.956	0.878	4.967	0.196	0.015	5.178		
Eldrich Mines Ltd.	0.680	2.086	1.796	0.899	5.461	***	0.024	5.48		
Lamaque Mining Co. Ltd.	0.86	2.93	0.92	0.15	4.86	0.02	0.17	5.05		
Sigma Mines (Quebec) Ltd.	1.40	2.92	0.90	0.49	5.71	0.26	0.04	6.01		
Sullivan Consolidated Mines Ltd.	1.74	3.73	1.31	0.32	7.10	0.60	_	7.70		

See footnotes at end of table.

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

3 Material discarded by sorting not included.

TABLE 25. Specified Costs per Ton of Ore Milled at Certain of the Principal Auriferous Quartz Mines, 1959 - Concluded

Name of mine	Develop- ment and explora- tion ¹	Mining	Milling	General ²	Total before deprecia- tion and taxes	Depre- ciation	Taxes	Total costs specified
				dol	lars			
Ontario:								
Porcupine District								
Aunor Gold Mines Ltd.	0.73	6,80	1.10	1.56	10.19	0.60	0.10	10.00
Broulan Reef Mines Ltd.	1.73	3.92	1.32	1.40	8.37	0.60	0.13	10.92
Hallnor Mines Ltd.	1.52	5.77	1.57	1.47	10.33	0.09	2.17	12.59
Hollinger Consolidated (Timmins)		5.736	0.869	2.407	9.310	0.145	0.070	9. 52
Hollinger Consolidated (Ross)	0.437	2. 225	1.903	1.443	6.008	0. 384	0.016	
Hugh Pam Porcupine Mines Ltd.		4.16	1.32	2.30	8.50			6,40
McIntyre Porcupine Mines Ltd.		6.28	1.18	0.63	9.56	0.24	0.11	9.91
Preston East Dome Mines Ltd.		5.07	1. 07	1.44	9.12	0.16	0. 11	
Pamour Porcupine Mines Ltd.		2.42	0.69					9.30
Paymaster Consolidated Mines Ltd.			1.69	0.30	3.58	0.07	0.02	3.67
Paymaster Comsondated Milles Litd	1.07	5.52	1.09	0.83	9.11	0.35	0.02	9.48
Kirkland Lake District								
Kirkiand Minerals Corp. Ltd.	2.165	8.528	2.545	1,406	14.644	0.434	2. 205	17, 28
Teck-Hughes Gold Mines Ltd.	0.85	3.31	1.44	0.38	5.78	0.01	0.04	5.83
Upper Canada Mines Ltd.	1.53	5.02	1.26	0.68	8.59	0.42	0.01	9.02
Larder Lake District								
Kerr Addison Gold Mines Ltd.	0.741	4.031	1.081	0.596	8.449	0.333	1.825	8.60
Sudbury District								
The state of the s	1 000	0.544						
Renable Mines Ltd.	1.092	2.544	1.460	1.037	6.133	0.509	0.029	6.67
Thunder Bay District								
MacLeod-Cockshutt Gold Mines Ltd.	0.130	1.669	0.755	0.523	3.077	0.107	0.011	3,19
				-1020		0.201	0.042	0.10
Patricia District								
Cochenour Wilians Gold Mines Ltd.	5. 031	6.379	3.394	2.716	17. 520	1.968	-	19.48
Madsen Red Lake Gold Mines Ltd.	1.78	5. 15	1.48	1.36	9.77	0.91	0.09	10.77
McKenzie Red Lake Gold Mines Ltd.	1.46	3.94	1.88	2.14	9.42			
New Dickenson Mines Ltd.	2.65	3.95	2.39	2.13	11.12	2.79	0.23	14-14
Pickle Crow Gold Mines Ltd.	3.71	6.83	1.93	1.75	14.22	0.61	0.18	29.21
British Columbia:								
Bralome-Pioneer Mines Ltd.	2.15	9.71	1.87	5. 16	18.89	1.88	-	19.97
Cariboo Gold Quartz Mining Co. Ltd.	5.10	10.70	3.69	1.23	20.72	1.69		22.41
"Pioneer Division" Bralorne Pioneer Mines Ltd	3.05	10.90	2.92	3.67	20.54	1.00	-	21.54
Northwest Territories;								
Consolidated Mining & Smelting Co. (Con)	0.89	6.02	4.28	2.24	13.43	+ + +		
Consolidated Discovery Yellowknife Mines Ltd	9.07	9.19	5.09	1.27	24.62	3.02	7.19	34.83
Giant Yellowknife Gold Mines Ltd.	0.83	3.88	4. 19	1.95	10.85	2.04	0.51	13.40

TABLE 26. Milling Capacity of Operating Canadian Gold Mines, 1950-59

Year	Nova Scotla	Quebec	Ontario	Manitoba	British Columbia	Northwest Territories	Canada		
	tons of 2,000 pounds per 24 hours								
1950	-	12,400	33, 175	2,700	2, 125	785	51, 18		
1951	-	12,825	33,998	2,695	1,950	1,105	52.57		
1952	-	13,600	33,099	2,550	1,650	1,380	52, 27		
1953	-	13, 200	31, 268	2, 550	1,675	1, 210	49,90		
1954	-	12,650	29, 168	2,550	1,700	1,375	47.44		
1955	-	12,650	29, 423	2,550	1,525	1.375	47,53		
1956	48	12,000	27, 778	2,550	1,200	1,500	45,070		
1957	-	9,530	27, 358	2,550	1, 204	1,500	42, 14		
1958	-	10,500	27, 292	2,550	1, 264	1,500	43,100		
1959	- 1	10, 100	28, 057	550	1, 275	1,650	41, 63		

Exclusive of outside exploration.
 Marketing, head office, etc. (exclusive of taxes).
 Shutdown costs.

TABLE 27. Employees and Earnings in the Gold Quartz Mining Industry, 1955-59

	Employees						Earnings			
rear and offi	Administrative and office		Wor	Workmen		Man-hours worked (all employees)	Administrative and	Workmen	Total	
	Female	Male	Female		office	workmen	LOCAL			
			number					dollars		
1955	1,695	169	16,099	69	18,032	41,757,023	8,943,675	55,018,069	63, 961, 74	
1956	1,894	172	15,091	74	17,031	38,888,232	9, 226, 125	53,475,389	62, 701, 49	
1957	1,601	158	15.066	86	16,911	36,996,927	8,975,888	54,732,792	63,708,666	
1958	1,623	153	14,952	83	16.811	36,846,723	9, 362, 346	54,845,696	64, 208, 04	
1959	1,658	152	14,884	83	16,777	36,320,320	9.808, 239	55,710,873	65, 519, 11	

TABLE 28. Number of Workmen, by Months, in the Gold Mining Industry, 1958 and 1959

	1958			1959			
Month			Mine		Mill		
monto	Total	Surfac	e	Underground	25-1-	Total	
		Male	Female	Male	Male		
January	15, 251	3, 583	82	10,036	1,322	15,023	
February	15, 163	3,566	81	9,998	1,314	14, 959	
March	15,011	3,563	81	9,837	1,312	14,793	
April	14,905	3, 554	79	9,729	1, 284	14,646	
Мау	15,089	3,625	83	9,863	1,316	14.887	
June	15, 170	3,755	85	9,914	1,328	15,082	
July	15,382	3,796	86	9,868	1,332	15,082	
August	15, 219	3,752	86	9,863	1,323	15,024	
September	15, 227	3,624	84	9,934	1, 293	14.935	
Uctoher	15, 169	3,573	82	10, 131	1,300	15,086	
November	15,095	3,551	82	10, 129	1,290	15,052	
December	14,920	3,531	81	10, 109	1, 287	15,008	
Averages	15,035	3.631	83	9, 946	1,307	14, 967	
Man-hours worked	32,999,835			32,426,483			

TABLE 29. Fuel and Electricity Used in the Gold Quartz Mining Industry, 1959

Kind		Quantity	Cost at plant
			\$
Bituminous coal (a) From Canadian mines (b) Imported	short ton	2,272 19,230	36,473 311,475
Sub-bituminous coal (from Alberta mines only)	6.6	13	644
Anthracite coal	* 6	1,208	20,824
Lignite coal		-	_
Coke (for fuel only)	short ton	8	322
Gasoline, (includes gasoline used in cars and trucks)	Imp. gal.	347, 473	152, 906
Kerosene or coal oil	**	20.375	6, 711
Fuel oil		3,365,108	682, 264
Wood (cords of 128 cubic feet of piled wood)	cord	11,785	145,582
Gas (a) Liquefied petroleum gases (propane, etc.)	Imp. gal.	23, 603	6,729
(b) Other manufactured gas (c) Natural gas	Mcf.	59,814	32, 190
Other fuel (shavings, sawdust etc.)			97,174
Electricity purchased for power and lighting	kwh.	929,951,854	5,627,611
Electricity purchased for other purposes	64	14,582,624	40, 149
Total (cost only)			7, 161, 054
Electricity generated (a) For own use	kwh.	41,350,126 4,483,444	89,681

TABLE 30. Cost of Prospecting Conducted by Canadian Gold Quartz Mining Companies, 1958 and 1959

51, 330		doll	979		
E1 220			NA PO		
E1 220				1	
31,336 3,405 112,396 234,013 224,613 59,461 24,728 108,106 1,845 6,682 926,585	20,660 63,414 417,055 507,118 1,598 5,688 26,185 26,374 19,847	148 12,827 49,491 ————————————————————————————————————	10, 150 	10, 151 5, 813 - - 43, 573 - 59, 537	51, 330 24, 065 175, 810 671, 523 850, 371 110, 550 30, 416 221, 837 83, 929 26, 529 2, 246, 380
49, 203 9,722 157, 339 1, 205, 179 461, 233 80, 522 20, 000 7, 479	443 44,561 118,254 502,165 702,798 867 8,211 27,314 22,657 419	11, 289 45, 494	28, 146 - 39, 152 14, 005	3,000	49,646 54,283 275,593 1,707,344 1,203,466 126,883 28,211 76,945 112,491 14,424 3,649,286
	3, 405 112, 396 234, 019 324, 613 59, 461 24, 728 108, 106 1, 845 6, 682 926, 585 49, 203 9, 722 157, 339 1, 205, 179 461, 233 80, 522 20, 000	3, 405 112, 396 112, 396 124, 199 324, 613 324, 613 59, 461 1, 598 108, 106 26, 185 1, 845 6, 682 19, 847 926, 585 1, 087, 939 49, 203 9, 722 44, 561 157, 339 118, 254 1, 205, 179 461, 233 702, 788 80, 522 20, 000 8, 211 7, 479 27, 314 7, 479 27, 314 19, 667 19	3,405	12, 396	3,405 20,660 — — — 112,396 63,414 — — — 234,019 417,055 148 10,150 10,151 324,613 507,118 12,827 — 5,813 59,461 1,598 49,491 — — 24,728 5,688 — — — 106,106 26,185 — 87,546 — 1,845 26,374 — 12,137 43,573 6,682 19,847 — — — 926,585 1,087,939 62,466 109,833 59,537 49,203 443 — — — 9,722 44,561 — — — 157,339 118,254 — — — 1,205,179 502,165 — — — 461,233 702,798 11,289 28,146 — 80,522 867 45,494 — — 20,000 8,211 — 39,152 3,000 7,479 27,314 — 39,152 3,000 1,2657 — — 89,834 1,205 — — 9

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

TABLE 31. Drilling Completed on Gold Quartz Deposits, 1957-59

	F	ootage drilled1	
	1957	1958	1959
Diamond drilling for exploration (testing):			
By companies with their own equipment and personnel	497.076	455,666	524,701
By contractors	1, 226, 771	1, 276, 442	1, 271, 824
Other drilling:			
Diamond drilling for breaking rock or ore:			
By companies with their own equipment and personnel	569,628	53.981	22, 570
By contractors	24, 395	8,075	12, 139
Drilling by percussion and other machines ²	35,652,622	37, 885, 485	35,508,818

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

Note: The value of diamonds in all forms (bits, etc.) purchased by gold mining companies in 1958 totalled \$163,988 and ln 1959 - \$130,736.

TABLE 32. Specified Taxes Paid by Active Canadian Gold Quartz Mines, 1958 and 1959 by Provinces¹

Nature of tax	Nova Scotia	Quehec	Ontario	Manitoba and Saskatchewan	British Columbia	Northwest Territories	Canada
				dollars			
1958		1		1		1	
Dominion income tax, including tax on non-operating revenue	_	178, 592	2, 558, 724	400		350,000	3, 087, 31
Provincial tax	20	202, 347	1,920,862	2,036	37,590	86,312	2, 251, 16
Municipal tax	-	268, 544	343,728	9,203	41,669	90,531	753, 67
Totals	20	649, 483	4,823,314	11, 239	79, 259	528, 843	6, 092, 15
1959							
Dominion income tax, including tax on non-operating revenue		190,091	3, 107, 650	_		339,000	3,636,74
Provincial tax	30	280, 421	2, 147, 885	_	49,832	132, 129	2, 610, 29
Municipal tax	_	275,021	365, 317	-	22,302	106, 103	768,74
Totals	30	745, 533	5, 620, 852	-	72, 134	577, 232	7,015,78

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

TABLE 33. Certain Specified Expenditures Made by Gold Quartz Mining Companies, 1957-59

Province and year	Workmen's compensation	Silicosis assessment	Unemployment insurance	Aggregate cost of all supplies purchased	Aggregate cost of plant and equipment purchased	Cost of buildings, machinery and equipment erected or installed
			dolla	ars		
Nova Scotia:						
1957	-	_	-	-	-	_
1958	-	-	40	- 1	_	-
1959	_	color	_	1, 690	_	_
Quebec:						
1957	302, 168	1, 092	91, 513	6, 611, 151	201, 505	336, 777
1958	389. 815	11	95, 809	7, 351, 220	310, 454	476, 182
1959	339, 595	16, 760	106, 960	8, 576, 248	1, 093, 813	6, 385, 127
Ontario:	1 100 010	1 004 415	011 505	00 110 100	2, 231, 301	3, 154, 265
1957	1, 169, 213	1, 024, 415	311, 527 324, 767	26, 113, 109 24, 458, 823	1. 226, 059	2, 096, 059
1958	1, 301, 357 1, 545, 412	1, 309, 340 1, 381, 792	365, 730	24, 456, 625	1, 567, 291	2, 335, 992
Manitoba:						
1957	28, 274	-	12, 478	1, 167, 550	5, 339	6, 892
1958	13, 422	23	8, 956	719, 814	28, 952	29, 520
1959 ,	5, 597	_	6, 651	315, 649	50, 584	55, 890
David Galachia						
British Columbia:	180, 553	102, 580	27, 840	1,499,092	367, 664	491, 978
1957	98, 498	75, 869	12, 848	902, 194	127, 793	153, 343
1958	140, 175	146, 161	24, 252	534, 447	121, 618	111,630
Northwest Territories:					000	Mos ass
1957	103, 820	- man	13, 462	3, 242, 120	262, 384	721, 814
1958	120, 532		13, 396	3, 721, 587	306, 920	1, 089, 967
1959	114, 412	_	13, 923	2, 620, 001	425, 840	581, 110
Total Canada:						
1957	1, 800, 740	1, 128, 087	456, 754	39, 112, 489	3, 112, 729	5, 079, 899
1858	1, 923, 507	1, 385, 283	454, 192	36, 993, 391	2, 431, 522	2, 906, 970
1959	2, 145, 191	1, 544, 733	517, 516	38, 740, 436	3, 259, 146	9, 469, 749

TABLE 34. Estimated Capital and Repair Expenditures, 1955-59

Year Construction	Capi	Capital expenditures			Repair expenditures			Capital and repair expenditures			
	Machinery	Total	Con- struction	Machinery	Total	Con- struction	Machinery	Total			
	F	thousands of dollars									
1955	5, 472	4, 311	9, 783	1, 299	7, 691	8, 990	6, 771	12, 002	18, 773		
1956	5, 877	3, 204	9, 081	1, 259	7, 445	8, 704	7, 136	10, 649	17, 785		
1957	5, 206	4, 173	9, 379	1, 360	7, 241	8, 601	6, 566	11, 414	17, 980		
1956	4, 304	2, 833	7, 137	1, 244	7, 596	6, 840	5, 548	10, 429	15, 977		
1959 ^p	3, 868	3, 224	7, 090	1, 434	7, 217	8, 651	5,300	10, 441	15, 741		

THE COPPER-GOLD-SILVER MINING INDUSTRY

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

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

During 1959 the gross value of crude ore, concentrates, etc., shipped from the mines and mills in this industry to smelters was estimated at \$147,752,990. Fuel cost \$1,729,260 and 517,848,901 kwh. of electricity was purchased for \$3,219,223.

Process supplies, freight and treatment charges amounted to \$52,144,498. Employees numbered 9,682 to whom \$43,460,641 were distributed as salaries and wages. There were 28 producers or shippers in 1959.

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 resuiting from this are largely compensated for in determining the value added at the smelters and refineries. This added value is credited to the smelting and refining industry and is also included in the total net value of production of the entire Canadian mining industry. This fact should be noted in making any statistical study of the annual production values shown for shipments from copper-gold-silver mines.

The statistics as herein shown under the copper-gold-silver mining industry refer only to mines and mills and do not include data pertaining to the operation of smelters and refineries. Statistics relating to the reduction of non-ferrous ores are recorded under the smelting and refining industry.

TABLE 35. Principal Statistics' of the Copper-Gold-Silver Mining Industry, Significant Years, 1921-59

Year	Establish- ments	Employees	Salaries and wages	Cost of fuel and electricity	Process supplies and containers	Gross value of products	Net value added ²
	nur	nber			dollars		
921	18	1, 222	1,573,221	177.052		2,589,314	
9.29	. 152	5,243	8, 498, 755	1, 035, 133	**	21, 859, 907	
931	. 56	3,351	4, 958, 317	726,502		15, 951, 103	
933	. 29	2,841	3, 938, 778	404,625		7,707,270	
937	. 38	5, 164	8, 240, 614	901,088	4,851,845	40,735,801	24, 902, 85
939	. 30	6,083	9, 920, 591	1,223,523	5, 585, 616	51, 161, 468	26, 182, 577
941	. 22	5,866	10,695,023	1, 264, 567	5,505,955	64,829,073	30, 220, 33
944	. 26	5, 175	10,710,071	1,402,243	5, 170, 581	62,369,815	38, 198, 03
946	. 43	4, 958	10, 243, 467	1, 152, 925	4, 022, 508	54, 304, 549	37, 433, 98
949	. 33	7, 395	21,776,150	1,630,715	7,499,445	105, 994, 498	74, 591, 660
951	. 82	6, 223	21,545,660	2,085,808	6, 257, 819	123, 162, 228	92, 331, 995
954	. 116	7,837	29,791,332	3, 148, 808	10, 232, 701	105, 893, 976	70, 814, 052
955	186	9,025	36, 391, 460	4,090,507	12, 548. 088	145. 269, 622	99, 540, 486
956	. 314	10,533	43,929,096	4,620,541	15,594,327	147, 187, 431	96, 941, 696
957	. 261	10,359	45, 622, 452	4, 942, 600	15, 297, 348	119, 013, 141	68, 694, 057
958	. 244	6, 875	39, 745, 243	4,428,653	15,968,381	133, 778, 148	77, 993, 264
959	. 310	9,682	43, 460, 841	4, 961, 920	12,948,618	147,752,990	90, 660, 009

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

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

TABLE 36. Shipments from Copper-Gold-Silver Mines, 1958 and 1959

The same of the sa	Quantity	Value	Total	metal content	as determined b	y settlement a	ISSAY1
	dumino	ABIGE	Gold	Silver	Copper	Sulphur	Zinc
	tons	\$	fine o	inces	lb.	tons	1b.
1958							
To Canadian plants:		0 777 000	E0 100	227 222	00 010 700		10 000
Ores	704, 377	9, 555, 092 98, 410, 777	76, 500 363, 751	237, 663 4, 986, 908	30, 645, 793 415, 993, 476	_	50, 258 28, 040, 042
Zinc	95. 933	4, 922, 137	4, 261	106, 466	1, 929, 079		85, 618, 058
Iron pyrite concentrates	322, 257	1,079,720	_	_	-	150, 273	
Slags	10	10, 246	185	3, 936	176	-	_
	2	846, 185	24, 056	38, 636	1,012		_
To foreign plants: Ores and tailings	108	16, 525	441	154	8, 483		_
Copper concentrates	19, 958	2,618,447	3, 258	75, 151	9, 759, 116	_	
Zinc concentrates	137, 448	14, 568, 431	322	34,654	156, 480		145, 732, 420
Iron pyrite concentrates	456, 454	1, 692, 507		_	240 001	228, 866	
Precipitates	301	58, 081			240, 261		
Totals	2, 820, 877	133, 778, 148	472, 774	5, 483, 568	458, 733, 878	379, 139	259, 440, 778
Value of process supplies, etc.2		55, 784, 884					
Net value added	4 2 2	77, 993, 264	***	* * *	•••	* * *	
1959							
To Canadian plants:							
Ores	693, 211	10,673,257	69, 199	221, 849	31, 206, 859	-	74, 297
Copper concentrates	1,097,563	109, 483, 063 6, 588, 571	363, 358 5, 011	4, 903, 125 139, 174	413, 965, 412 2, 330, 504	_	27, 871, 897 99, 962, 734
Iron pyrite concentrates	344, 661	828, 112	0,011	100, 111	2,000,001	155, 876	-
Slags, residues, bullion and gold precipi-	011,000						
tates	15	1, 480, 381	42,722	67,064	2, 198	-	_
Tailings	35, 488	19, 565	_	_	-	_	_
To foreign plants:							
Ores and tailings	28, 378	4.310.977	7, 527	84, 541	14, 385, 433	_	_
Zinc concentrates	112, 829	13, 180, 554	390	2,598	-	_	119, 336, 577
Iron pyrite concentrates	326, 384	1,081,538	_	_		162, 984	_
Precipitates	473	106, 972	_	_	389,656	-	_
Totals	2,749,711	147, 752, 990	488, 207	5, 408, 351	462, 280, 062	318, 860	247, 245, 505
Value of process supplies, etc.		57, 092, 981					
Net value added		90, 660, 009					

 $^{^{\}rm I}$ In addition, cadmium, bismuth, tellurium and selenium are recovered from these ores. $^{\rm 2}$ Includes freight on ore shipments, smeltsr charges, purchased electricity and fuel.

TABLE 37. Ores Mined, Milled, and Concentrates Produced, by the Copper-Gold-Silver Mining Industry, 1950-59

Year	Ore mined	Ore milled	Copper concentrates produced ¹	Zinc concentrates produced	Iron pyrite concentrates produced				
	tons								
1950 1951 1952 1953 1954 1955 1956 1957	8,758,607 7,380,966 7,773,341 7,438,500 6,501,589 9,911,751 10,422,648 10,570,801 11,484,960 12,436,105	8, 159, 756 6, 799, 064 7, 120, 795 6, 606, 631 7, 982, 320 9, 375, 687 10, 442, 164 10, 009, 694 11, 274, 297 11, 577, 414	830, 438 783, 011 701, 725 697, 285 806, 157 909, 466 931, 328 1, 135, 664 1, 106, 733 1, 135, 190	313, 161 231, 674 233, 046 216, 686 234, 364 230, 220 229, 514 229, 962 231, 959	322, 11 375, 96 460, 75 398, 42 505, 50 653, 91 578, 92 528, 38 782, 82 674, 45				

¹ Exclusive of copper precipitate.

TABLE 38. Employees and their Earnings in the Copper-Gold-Silver Mining Industry, 1955-59

Year Admini	Employees					Man-hours	Earnings		
	Administration		Work	Workmen		worked	44-1-1-1-1		
	Female	Male	Female	Total		Administration	Workmen	Total	
	number						dollars		
1955 1956 1957 1958 1959	1, 210 1, 403 1, 493 1, 327 1, 339	171 233 219 184 187	7, 568 6, 813 8, 570 7, 329 8, 116	76 84 77 35 40	9,025 10,533 10,359 8,875 9,682	20, 497, 165 23, 919, 073 22, 946, 894 18, 958, 827 20, 429, 780	6,608,136 7,912,036 9,134,100 7,723,473 7,867,882	29, 783, 322 36, 017, 060 37, 560, 252 32, 021, 770 35, 592, 759	36, 391, 460 43, 929, 096 46, 694, 352 39, 745, 243 43, 460, 641

TABLE 39. Number of Workmen, by Months, 1958 and 1959

	1958			1959			
Month			Mine	MEL	Total		
	Total	Total Surface U					
		Male	Female	Male	Male	Female	
January	8, 121	2,626	25	3, 783	893	9	7.336
February	7, 826	2,736	25	3,927	904	10	7, 602
March	7, 306	2,829	25	3, 990	906	10	7, 760
pril	7, 121	2, 783	25	4,085	929	10	7, 632
lay	7, 256	2,947	26	4, 196	977	9	8, 155
une	7, 266	3,102	28	4,296	1,006	9	8,441
uly	7,372	3,224	28	4,350	1,025	9	8, 636
lugust	7, 294	3,216	28	4,379	1,036	9	8,668
September	7, 194	3,038	26	4, 227	1,129	9	8, 429
October	7, 209	2,979	26	4, 242	1,114	9	8,370
Vovember	7, 194	2,894	29	4, 312	1,101	9	8,345
December	7, 061	2,809	30	4,156	1,093	9	8, 097
Averages	7, 364	2,944	30	4,213	959	10	8, 156
Man-hours worked	15, 790, 429			17, 163,	481		

TABLE 40. Fuel and Electricity Used in the Copper-Gold-Silver Mining Industry, 1959

Kind	Quantity	Cost at plant
		\$
Bituminous coal (a) From Canadian mines short ton (b) Imported	7,562 1,063	125, 855 17, 895
Sub-bituminous coal (from Alberta mines only)	45	658
Anthracite coal	462	5, 334
Lignite coal		_
Coke for fuel only	154	4,403
Gasoline, (includes gasoline used in cars and trucks)	396, 758	149, 201
Kerosene or coal oil	12,506	3,557
Puel oil	6, 732, 769	1, 347, 070
Food (cords of 128 cubic feet of piled wood)	40	387
Bas (a) Liquefied petroleum gases (propane, etc.) (b) Other manufactured gas (c) Natural gas	159, 633	42,040
Other fuel		32, 860
Electricity purchased for power and lighting kwh.	517, 848, 901	3, 219, 223
Electricity purchased for other purposes	-	-
Total (cost only)		4, 948, 483
Clectricity generated (a) For own use kwh. (b) For sale	77, 373, 108 747, 691	14, 304

TABLE 41. Specified Expenditures by the Copper-Gold-Silver Mining Industry, 1957-59

	1957	1958	1959
		dollars	
Workmen's compensation	1, 284, 418	1, 130, 201	966, 809
Silicosis assessment	228, 428	187, 145	298, 498
Unemployment insurance	335, 562	321, 468	5, 793, 394
Aggregate cost of all supplies purchased	42, 131, 327	37, 369, 425	28, 773, 276
Aggregate cost of plant and equipment purchased	16, 212, 121	5, 856, 514	5,337,650
Cost of buildings, machinery and equipment erected or installed during year	32, 111, 633	8, 533, 819	10, 862, 865

TABLE 42. Taxes Paid by the Copper-Gold-Silver Mining Industry, 1957-59

	1957	1958	1959
		dollars	
Dominion income tax, including tax on non-operating revenue	13, 411, 009	3, 884, 364	7, 121, 825
Provincial tax	4, 572, 134	3, 155, 812	4.389,509
Municipal tax	1, 198, 828	1.515,048	1, 462, 807
Grand total taxes paid	19, 181, 971	8, 555, 223	12, 974, 141

TABLE 43. Estimated Capital and Repair Expenditures in the Copper-Gold-Silver Mining Industry, 1955 - 59

	Сар	Capital expenditures			Repair expenditures			Capital and repair expenditures			
Year Con- struction	Machinery	Total	Con- struction	Machinery	Total	Con- struction	Machinery	Total			
		thousands of dollars									
1955	7,811	5,622	13, 433	3, 117	3, 298	6, 417	10,928	8,920	19, 848		
1956	29, 234	12, 820	42,054	3, 113	3,594	6.707	32, 347	16, 414	48, 761		
1957	26, 546	11, 337	37, 883	3,579	4, 275	7,854	30, 125	15.612	45.737		
1958	7,777	3, 324	11.101	3, 558	4.087	7, 645	11, 335	7,411	16, 746		
1959 ^P	8, 458	3, 878	12, 336	3, 341	4,012	7, 353	11. 799	7, 890	19, 689		

TABLE 44. Cost of Prospecting Conducted by the Copper-Gold-Silver Mining Industry, by Provinces, 1958 and 1959

Conducted in	1958	1959	Conducted in	1958	1959	
	dolla	ra		dollars		
Newfoundland	19, 786	33, 117	Saskatchewan	454.615	468, 794	
Nova Scotia	33, 563	90, 232	Alberta	52	2.605	
New Brunswick	299, 803	310, 385	British Columbia	1,965,080	1,436,069	
Quebec	2, 140, 416	13, 966, 618	Northwest Territories	488, 649	172, 440	
Ontario	1. 616. 780	3, 184, 028	Yukon	211, 291	167. 145	
Manitoba	3,009,460	2, 395, 300	Totals	10.239,495	22, 228, 933	

TABLE 45. Drilling Completed on Copper-Gold-Silver Deposits, 1958 and 1959

	Footage drilled		
	1958	1959	
Diamond drilling for exploration (testing only);			
By mining companies with their own personnel and equipment	33, 241	41, 778	
By diamond drilling contractors	1. 211. 722	1, 527, 265	
Other diamond drilling:			
Blast hole diamond drilling:			
By mining companies with their own personnel and equipment	769.595	547.941	
By diamond drilling contractors	338, 423	486, 223	
Drilling by percussion or other machines'	16.451.323	20, 355, 229	

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

Note: Value of diamonds in all forms (stones, bits, etc.) purchased during the year, \$95,909.

TABLE 46. Copper Production (Recoverable) according to Nature of Ore, and by Provinces, 1957-59

Province	From copper- gold-silver ores	From nickel- copper ores	From other ores	Total		
	tons					
1957		1				
Newfoundland Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan British Columbia Northwest Territories	1, 296 5, 738 109, 535 9, 644 13, 747 30, 597 12, 657	160, 786 4, 804 — — —	3, 239 	4.535 5,738 112,409 171,703 18,551 30,597 15,411		
Totals	183, 214	165, 755	10, 140	359, 109		
1958	8					
Newfoundland Nova Scotia Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan British Columbia Northwest Territories Totals	11, 619 328 127, 674 31, 839 7, 945 37, 510 4, 575 221, 490	106, 923 4, 656 340 434 112, 353	3, 132 - 3, 771 3, 273 - 1, 095 - 11, 271	14,751 328 131,445 142,035 12,601 37,510 6,010 434 345,114		
1959						
Newfoundland Nova Scotia Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan British Columbia Northwest Territories	12,097 — 131,877 28,328 8,365 35,536 6,781	157, 187 4, 580 249 493	2,892 	14,989 — 134,912 188,273 12,945 35,536 8,121 493		
Totals	222, 984	162, 489	9,796	395, 269		

TABLE 47. Production of Refined Copper, 1950-59

Year	Short tons	Year	Short tons	
1950	238, 204	1955	288, 997	
951	245,466	1958	328,458	
952	196,320	1957	323,540	
953	236, 968	1958	329, 239	
1954	253,385	1959	385, 366	

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

TABLE 48. Silver Production according to Nature of Ore, by Provinces, 1959

Province	Crude placer gold	Auriferous quartz ores	Copper- gold-silver ores	Nickel- copper ores	Silver- lead-zinc ores	Silver- cobalt and other ores	Total
				ounces			
Newfoundland	_	_	_	_	1, 125, 110		1, 125, 110
Nova Scotia			-	_	-		_
New Brunswick	-	-	-	-	-	-	-
Quebec	-	113,543	2,918,566	_	1,078,132	-	4, 108, 241
Ontario	-	408, 114	1, 312, 123	1,384,223	779, 234	6.657,162	10, 540, 856
Manitoba	-	5,231	350, 546	18,050	-	-	373, 827
Saskatchewan	- 1	1,167,439		_	-	_	1, 187, 439
Alberta	19	_			_	J	19
British Columbia	943	32,133	83,382	-	7,346,827		7, 463, 285
Northwest Territories	_	70, 560	-	-	-	-	70, 560
Yukon	13,822	-	_	-	7,040,810	-	7,054,632
Totals	14, 784	629, 581	5, 852, 056	1, 402, 273	17, 368, 113	6,657,162	31, 823, 969

TABLE 49. Selenium and Tellurium Recoverable from Canadian Ores, 1950-59

	From copper-go	ld-silver ores	From nickel-	copper ores	Total	
Year	Seienlum	Tellurium	Selenium	Tellurium	Seienium	Tellurium
			рош	nds		
1950	198, 264	4,065	63,709	6,010	261,973	10,075
1951	300, 194	2,612	62,409	6,301	382,603	8, 913
1952	160, 452	325	81,578	5,710	242,030	6,035
1953	169,648	169	92,698	4,525	262,346	4,694
1954	228, 703	976	94, 826	7, 195	323, 529	8, 171
1955	332,644	2,559	94, 465	6,455	427, 109	9,014
1956	221, 233	1,562	109, 156	6,305	330, 389	7,867
1957	234, 933	24,609	86,459	6,915	321,392	31,524
1958	216,695	31, 558	90, 295	8,692	306,990	38, 250
1959	266,707	6,123	101,400	6,900	388, 107	13,023

TABLE 50. Zinc Production (Recoverable) According to Nature of Ore, and by Provinces, 1958 and 1959

Year and province	Recoverable from copper-gold-silver ores	Recoverable from silver-lead-zinc and other ores	Total		
1956	tons (2,000 pounds)				
Newfoundland Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan British Columbia Yukon Totals	3, 162 40, 266 16, 938 11, 512 48, 328 1, 504	33,870 — 16,657 29,301 — — 215,800 7,761 303,389	33,870 3,162 56,923 46,239 11,512 48,328 217,304 7,761 425,099		
1959					
Newfoundland Nova Scotja New Brunswick Quebec Ontario Manitoba Saskatchewan British Columbia Yukon Totals	31, 515 17, 675 15, 703 46, 877 1, 451	31,674 — 15,543 27,306 — 201,641 6,823 282,787	31,674 47,058 44,981 15,703 46,677 203,092 6,623 396,008		

TABLE 51. Refined Zinc Produced, from all Sources, 1950-59

Year	Short tons	Year	Short tons	
1950	204,367	1955	256, 542 255, 564	
951	218, 578	1956	255, 564	
952	222,200	1957	247,316	
953	250, 961	1958	252,093	
1954	253,365	1959	255,306	

TABLE 52. Cadmium Production (Recoverable) from Canadian Ores, 1950-59

Year	From copper- gold-silver ores	From silver- lead-zinc ores	Total	Year	From copper- gold-silver ores	From silver- lead-zinc ores	Total
		pounds				pounds	
1950	141, 456	706,950	848, 406	1955	191,691	1,727,390	1,919,081
1951	147, 168	1, 179, 752	1,326,220	1956	208, 327	2, 131, 094	2, 339, 421
1952	205, 911	742,676	946, 567	1957	286,044	2,082,086	2, 368, 130
953		960, 288	1, 188, 285	1958	355, 602	1,400,448	1,756,050
1954		932, 184	1,086,780	1959	334, 029	1,826,334	2, 160, 961

TABLE 53. Average Annual Metal Prices in Canadian Dollars, 1950-59

	Gold	Silver	Copper	Lead	Zinc
Year	Per troy ounce	Per troy ounce	Per pound	Per pound	Per pound
			dollars		
1950	38.05	0.8082	0.2342	0.1445	0.1565
1951	36. 85	0.9455	0. 277	0.184	0.199
1952	34, 27	0.8352	0. 2854	0. 1619	0, 1746
1953	34, 42	0.8401	0. 299	0, 1293	0.1196
1954	34. 07	0.8326	0. 2916	0. 1333	0. 1198
1955	34. 52	0.8818	0.3687	0.1438	0.1365
1956	34.45	0, 8968	0.4141	0. 1551	0, 1484
1957	33.55	0.8737	0.2895	0.1396	0,1209
1958	33.98	0.8681	0. 2542	0.1136	0.1088
1959	33.57	0.8778	0. 2961	0.1061	0. 1224

TABLE 54. World Copper Production by Countries of Origin of Ores

Country	1955	1956	1957	1958	1959
		ton	s (2,000 pounds)		
United States. Mexico Canada Cuba Bolivia ^a Chile Peru Ecuador	1, 014, 442 60, 269 325, 994 19, 507 3, 855 477, 869 47, 843	1, 114, 285 60, 478 354, 860 16, 046 4, 897 539, 839 50, 966	1,092,744 66,799 359,109 15,306 4,319 533,855 63,023	990, 253 71, 609 345, 114 13, 992 3, 168 509, 541 59, 104	840,00 63,13: 399,36: 9,94: 2,46: 601,85: 53,14:
Totals, America	1, 949, 785	2, 141, 371	2, 135, 155	1, 992, 781	1, 969, 89
Austria Finland Finance Germany, West Italy Norway Spain ¹ Sweden Yugoslavia	2, 841 25, 412 650 1, 335 273 15, 419 6, 726 17, 275 32, 098	2, 579 24, 830 606 1, 076 494 16, 488 7, 525 18, 436 35, 087	2,574 28,321 496 1,203 428 16,787 11,077 19,914 36,883	2, 695 31, 569 794 1, 156 761 17, 501 7, 466 20, 453 38, 840	2, 722 33, 13; 67; 1, 584 655 16, 094 12, 134 19, 07; 38, 14;
Totals, Europe	102,029	107, 121	117, 683	121, 235	124, 224
Japan India Korea, Republic of Turkey Philippines Cyprus ³	80,466 8,155 1,400 26,313 19,247 26,123	85,458 8,543 1,450 27,101 29,721 39,497	90,066 8,790 1,011 23,716 44,513 43,676	89,836 8,782 842 24,676 51,841 36,614	92, 911 8, 459 529 27, 389 54, 580 39, 978
Totals, Asia	161, 704	191,770	211,772	212,591	223, 845
Belgian Congo Northern Rhodesia South West Africa Uganda Union of South Africa Totals, Africa	259, 158 395, 307 23, 739 47, 484 725, 688	275, 535 445, 464 27, 953 168 48, 474	267, 026 480, 313 30, 466 8, 360 47, 752	261, 865 441, 072 32, 065 12, 130 53, 375	310, 952 598, 834 31, 695 13, 362 53, 575
Australia	46,675	54,723	58, 465	76, 867	101,062
tussia	372,500 25,300 9,900	417,000 27,500 11,000	465,000 27,500 13,000	510,000 27,500 13,000	510,000 27,500 16,500
Soviet Sphere totals ⁴	407,700	455, 500	505, 500	. 550, 500	554,000
World totals, as reported ⁵	3, 393, 581	3,748,079	3, 862, 492	3,756,481	3, 981, 451

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

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

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

2 Exports.

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

4 In addition there is production in Hungary and Poland: the total of which is estimated to be about 17,500 tons in 1959.

5 In addition there is production in Brazil, Ireland, Portugal, Burma, Taiwan, Algeria, Angola, Southern Zone Morocco, Southern Rhodesia and Tanganylka; the total of all these countries is estimated to be about 25,000 tons in 1959.

TRANSACTIONS IN GOLD BULLION AT THE ROYAL CANADIAN MINT

(From the Annual Report of the Royal Canadian Mint)

Six thousand one hundred and twenty-two deposits of gold bullion were received at the Mint during the year from Canadian Mining Companies and Sundry persons. The gross weight of the deposits amounted to 4,805,494 ounces containing by assay 3,908,640 ounces fine gold and 551,412 ounces fine silver. This includes bullion received under the heading of Gold Storage. The receipts show a decrease as compared with the year 1958 of 169 in the number of deposits, gross weight 62,572 ounces, gold content 49,819 ounces and fine silver 50,683 ounces and was composed of the following:

Fine Gold -

354 deposits weighing 337,286.221 ounces with a mean fineness of 997.388

Crude Bullion -

3,831 deposits weighing 3,017,914.049 ounces with an average fineness of 778.982 gold, 123.513 silver and containing 6.5142% base metal

Scrap (Jewellery and Dental) -

264 deposits, 14,981.070 ounces at an average fineness of 449.105 gold and 92.231 silver

Gold for Storage -

1,673 deposits weighing 1,435,312.180 ounces with an average fineness of 846,232

The net value paid to depositors was \$90,164,875.37. In addition the amount of fine gold issued to depositors was 1,175,087.932 ounces.

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

	Ounces Fine
6,622 Trade bars transferred to Exchange Fund Account of Minister of Finance Depositors — granulated and bars Sales of fine gold Trial Plate for assay purposes Medals, etc.	1,175,087,932 5,500.441 4,000 14,316
Sweep	9,026.064

This total shows a decrease of 252,026,506 ounces fine issued as compared with the year 1958.

3,836,679.842

Details of origin of the bullion deposited for sale to Her Majesty and for gold storage during the year 1959 are shown in the following table:

From Canadian mines	Sale to He	er Majesty	Gold	storage	To	Total fine						
and refineries	Gross weight	Fine gold	Gross weight	Fine gold	Gross weight	Fine gold	silver					
		ounces										
Ontario	1, 899, 171, 560	1,555,989,187	1, 155, 625, 660	1,020,740.184	3, 054, 797, 420	2,576,729,371	297, 259. 25					
Quebec	631,393.220	657, 727. 911	47, 701, 500	14, 849, 166	879, 094, 720	672, 577. 077	135, 933, 10					
British Columbia	193, 074. 780	154, 169, 032			193,074.780	154, 169, 032	26, 064, 92					
Manitoba	39, 903. 300	29, 353. 720			39, 903, 300	29, 353. 720	4,835.86					
Yukon Territory	83,615,620	66, 959, 072			83,615.620	66,959.072	13,822.30					
North West Territories	307, 814, 540	222, 905, 700	231, 984. 820	179, 017, 831	539, 799, 360	401, 923, 531	72,096.47					
Alberta	227.050	200,314			227, 050	200. 314	18.83					
Totals from Canadian mines and refineries	3, 355, 200, 270	2,667,304.936	1,435,312.180	1,214,607.181	4, 790, 512, 450	3,901,912.117	550, 030. 73					
From jewellery and scrap	14, 981. 070	6,728.068			14,981.070	6, 728.068	1,381.72					
Grand totals	3, 370, 181, 340	2,694,833,904	1 435 312 180	1,214,697,181	4, 805, 493, 520	3, 908, 640, 185	551, 412, 45					

GOLD STORAGE

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

The fine gold content of the bullion deposited under this heading during 1959 amounted to 1,214,607.181 ounces. Fine

bullion amounting to 1,171,367.538 ounces was issued on behalf of the mines for export and to various processors for domestic use.

The following tables give details of rough bullion received and fine bullion produced during the year:

Receipts	Number of deposits	Fine gold	Fine silver
		ounces	
Mines - Sale to Her Majesty	4,185	2,687,304.936	550, 030. 78
Gold storage	1,673	1, 214, 607, 181	
Jewellery and scrap — Sale to Her Majesty	264	6, 728, 068	1, 381, 72

Produced	Number	Gross weight	Fine weight	Average assay
		ounces		
Fine gold bars	6, 592	2, 640, 565, 775	2, 634, 702, 363	997. 8
Granulated gold		9, 725, 160	9, 722, 579	999.7
Fine silver bars	516	579, 113. 29	578, 968. 72	999.8
Granulated silver		3, 338. 14	3, 337.47	999. 8
Gold trial plate			4.000	
Gold medals			0,282	
Silver medals			0.14	
Storage - Gold bars	3, 119	1, 249, 964, 247	1,247,644.380	998. 1
Granulated gold		13, 176, 130	13, 172, 774	999.7

Special processes		Gross weight
		ounces
emelts	178	96, 746, 920
oughenings	3	1,506.060
		pounds avoirdupois
hloride reduction		86,803.00
weeps		131, 343, 50

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, 1959

Year	Gold rec	eived	Gold issued		
	Gross weight	Fine gold	Coin	Bullion	
	ounce	ounces		fine	
1908 to 1949	116, 275, 427, 653	93, 787, 917, 135	383,319.096	93, 257, 827, 305	
1950	5, 485, 956. 751	4, 422, 968, 129		4, 347, 961. 898	
1951	5, 248, 758. 942	4, 169, 479, 513		4, 187, 485, 874	
1952	4, 848, 048. 381	3, 953, 158. 154		4,031,068.071	
1953	4, 642, 410, 478	3,684,073.637		3,628,496,738	
1984	4, 768, 451, 365	3, 829, 430, 609		3, 998, 835. 566	
1955	4, 878, 918. 379	3, 947, 636, 509		3, 952, 764, 485	
1956	4,693,484.529	3,801,788.815		3, 774, 599, 457	
1957	4, 798, 296, 343	3, 896, 083, 563		3, 776, 710, 677	
1956	4, 868, 066. 405	3, 958, 458, 747		4,086,706.348	
1959	4, 805, 493, 520	3, 906, 640, 185		3, 636, 679, 842	
Totals	165, 311, 312, 746	133, 359, 634, 996	383, 319. 096	132, 859, 136, 261	

CURRENCY, MINT AND EXCHANGE FUND ACT

Gold Bullion Regulations, 1959

AT THE GOVERNMENT HOUSE AT OTTAWA

P.C. 1959 - 100

Thursday, the 29th day of January, 1959.

Present:

His Excellency the Governor General in Council

His Excellency the Governor General in Council, on the recommendation of the Minister of Finance, pursuant to the Currency, Mint and Exchange Fund Act, is pleased hereby to revoke the Gold Builion Regulations made by Order in Council P.C. 1954-1584 of 19th October, 1954, and the Mint Custom Refining and Storing Regulations made by Order in Council P.C. 1956-450 of 22nd March, 1956, and to make the annexed Regulations Respecting the Handling of Gold Bullion at the Royal Canadian Mint in Substitution therefor.

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

Short Title

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

Interpretation

- 2. In these Regulations,
 - (a) "deposit" means a parcel of bullion or other material containing gold;

 - (b) "Master" means the Master of the Mint;(c) "Minister" means the Minister of Finance; and
 - (d) "Mint" means the Royal Canadian Mint.

Deposits

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

 ² SOR/56-117, CANADA GAZETTE PART II, Vol. 90, No. 7,
- April 11, 1956.

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

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

Mint Charges

8. (1) The Mint charge payable by a depositor to the Master in respect of a deposit shall be calculated as follows on the gross weight of the deposit after melting:

(a) for melting and assaying, one dollar for the first four hundred ounces or part thereof and twentyfive cents for each additional one hundred ounces or part thereof; and

(b) for refining,

- (i) when the deposit contains not more than five per cent base metal, three cents per ounce,
- (ii) when the deposit contains over five per cent base metal but not over ten per cent base metal, three and one-half cents per ounce,
- (iii) when the deposit contains over ten per cent base metal but not over fifteen per cent base metal, four and one-quarter cents per ounce,
- (iv) when the deposit contains over fifteen per cent base metal but not over twenty per cent base metal, five cents per ounce, and
- (v) when the deposit contains over twenty per cent base metal, or requires toughening or other special treatment in order to obtain concordant assays, such charge, not exceeding ten cents per ounce, as determined by the Master after taking into account the cost of treatment.
- (2) Notwithstanding paragraph (b) of subsection (1), the minimum charge for refining is two dollars for each deposit, and the charge for refining applies in respect of all deposits containing, by assay, less than nine hundred and ninety-five parts fine gold in one thousand.
- (3) A depositor shall pay to the Master for every deposit that is delivered to the Mint for the purpose of selling the gold content thereof to Her Majesty, a handling charge to cover the cost of marketing outside Canada as follows:
 - (a) for newly mined Canadian gold, twenty cents per fine ounce.
 - (b) for bars of fine gold that the Master is authorized by the Minister to accept for that purpose, twenty cents per fine ounce, and
 - (c) for all other gold, one dollar per fine ounce.
- (4) In respect of every deposit that is delivered to the Mint for the purpose of storing the gold content thereof, the depositor shall pay the following charges:
 - (a) one cent for every thirty days or fraction thereof (including the day on which the deposit is received at the Mint but excluding the day on which it is shipped from the Mint) for each fine ounce of gold so stored, payable at the time of

- application for release of the gold or when billed, whichever is the earlier,
- (b) ten cents for each fine ounce packed at the Mint for shipment, payable at the time of application for the release of the gold, and
- (c) a handling charge of twenty cents for each fine ounce of gold released from storage for sale to Her Majesty, payable at the time of sale.
- (5) In respect of every deposit that is delivered to the Mint for a purpose not described in subsection (3) or (4), and packing of fine gold is involved, the depositor shall pay at the time of shipment one dollar for the first ten ounces of fine gold or part thereof, and ten cents for each additional ounce or part thereof that is packed at the Mint for shipment.
- (6) It is a condition under which a deposit is accepted at the Mint that the Master may retain a portion of the fine gold content thereof in payment of the Mint charges in respect of that deposit.
- 9. The fine gold content of a deposit held in storage at the Mint shall be released only upon application therefor in the form prescribed by the Minister.
- 10. Every deposit is accepted at the Mint subject to the condition that the fine gold content thereof shall be released in a form that is at least .995 fine.

Sale of Gold

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

General

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

(a) fine gold held by him or on his behalf at the beginning

of the month

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

Name

Directory of Firms in the Gold Mining Industry, 1959

Head or executive office address

Location

(a) Placer Gold Mining Industry	
nebec:		
Beauce Placer Mining Co. Ltd.	330 Bay St., Toronto, Ontario	Beauceville
	OVO DEJ DOV, E DIVERDO, CHEMICA	Degree He
ritish Columbia:		
	10004 1044 04 73	
Ad Astra, Minerals Bates, Richard L.	10201-104th St., Edmontou, Aita.	Atlin Wells
Bindschalder A.	Wells	Barkerville
Carboneau, Joseph	Kamloops, B.C.	Kamloops
Chouse John Stanley	Quesnel, B.C. Prince George, B.C.	Cariboo Cariboo
Christensen, H.C.	Wells	Cariboo
Cosco, Nick	Kamloops, B.C.	Kamloops
Cresswell, R.	Quesnel, B.C.	Quesnel
Daln, John	Quesnel, B.C. Williams Lake, B.C.	Quesnel
Feyer, J.H.	Gibs on's, B.C.	Cariboo Quesnel
Fisher Nolan	Wells	Valley Creek
Fosberg, H.V.	Lumly, B.C.	Harris Creek
Frederick, F.w.	Quesnel Forks'	Spring Creek
Hamilton, T.C.	Wells, B.C. Manson Creek, B.C.	Cariboo Germanson River
Heal, John	Vernon, B.C.	- CANTON CALLERY CI
Holbrook, E.E.	Vancouver B.C.	
Hoy, C.D.	Quesnel, B.C.	Cariboo
Johansen, John Kinney, M.D.	Canal Flats, B.C.	Combrant
Kissick, E.	Cranbrook, B.C.	Cranbrook Cranbrook
Knudson, L.E. & Heinzelman, P.	Quesnel, B.C.	Cottonwood Canyon
Langevin, Dan	Atlin. B.C.	Atlin
MacDonald, Mrs. D.	Quesnel, B.C.	Atlin
McHugh, Charles O.	Quesnel, B.C. Williams Lake, B.C.	Lightning Lake Lillooet
McJana Placers	Quesnel, B.C.	Cariboo
Meagher, Thomas W.	Linott, B.C.	Lillooet
Mitchell, Garson C. Montgomery, Anthony	Burnaby, B.C.	
Morgan, Bud	Lillooet, B.C. Quesnel, B.C.	Lillooet
Nelson, John A.	Vancouver, B.C.	Carinoo
O'Donnell, John P	Trail, B.C.	
Ogden, P	100 Mile House, B.C.	
Piccolo Luigi Presby, Thomas B.	Atlin, B.C.	Atlin
Reber, W.S.	Terrace, B.C. Whitehorse N.W.T.	Atlin, B.C.
Roth, Mrs. Lurline B.	Quesnel, B.C.	Cariboo
Rollheiser, J.J.	Kimberley	Perry Creek
Speed, Len	Likely, B.C.	Likely
Stables, Geo. W. Troutline Creek Gold Ltd.	Spences Bridge, B.C. Edmonton, Alta.	I gird Mining District D
Walters, Frank W.	Vernon, B.C.	Laird Mining District, B.
Williams, S.N	Quesnei, B.C.	Carlboo
Weskey Creek Syndicate	Salmo	Neison
kon:		
Action Mining Co.	Mile 1054 Alaska Highway Y.T.	Bullion Creek
Ballarat Mines Ltd.	Dawson, Yukon Territory	Dawson
Bleiler Placer Mining	Box 2102, Whitehorse	Mayo
Boutellier, H.C. & D.F. Bremner, John	Box 258 Dawson, Y.T. Box 144 Dawson	Bonanza Creek
Burgelman, Mrs. Nellie	Box 197 Dawson, Y.T.	Last Chance Creek Cariboo Creek
)jukastein, Klaus	Mayo, Yukon Territory	Johnson Creek
Breig, Cliff W.	Mayo, Yukon Territory	Mayo
amontagne, J.Ae Saux, Eugene	Dawson, Yukon Territory	Bedrock Creek
unde, Ole	Stewart River, Yukon Territory Box 4 Dawson, Y.T.	Henderson Creek Dawson
loen, Olaf	Dawson, Y.T.	Last Chance
loss, Lorne M.	Box 1088 whitehorse	Kirkman Creek
Spruce Creek Placers	Box 104 Atlin, B.C.	Atlin
Taylor, Fred	Mayo, Y.T.	Dublin Gulch
Yukon Placer Mining Co.	1919 Marine Bldg., Vancouver, B.C. 1158 Melville St., Vancouver, B.C.	Dawson Glacier Creek
erta:		
Pester, Homer	12230-101 St. Edmonton, Alta.	North Saskatchewan Rive

Nova Scotia:

Redden, Fred C. Silver, Chas, S. MacMillan, MacKay Young, J. Oscar East Hants Gold Mines Ltd.	Middle Musquodohit Sheffield Mills Issacs Harbour The Oxen, R.R. # 1, Lunenburg Hants	Stormont Guysborough Lunenburg Hants
Val Jon Exploration Ltd.	1910 Royal Bank Bldg, Toronto, Ontario	Chester Basin

Name Head or executive office address Location (b) Gold Quartz Mining Industry - Continued Quebec: Akasaba Gold Mines Ltd.
Anacon Lead Mines Ltd.
Barnat Mines Ltd.
Bargold Mines Ltd.
Belfast Mines Ltd.
Belfast Mines Ltd.
Belleterre Quebec Mines, Ltd.
Beveon Gold Mines Ltd.
Bonnie Gold Mines Ltd.
Britt-Malartic Gold Mines Ltd.
Bourbeau Lake Mines, Ltd.
Canadian Malartic Gold Mines Ltd.
Canadian Shield Mining Corp.
Celta Development & Mining Co, Ltd. 199 Bay St., Toronto, Ontario
330 Bay St., Toronto, Ontario
199 Bay St., Toronto, Ontario
100 Adelaide St. W., Toronto, Ontario
44 King St. W., Toronto, Ontario
25 King St. W., Toronto I, Ontario
100 Adelarde St. W., Toronto Ontario
33 Melinda St., Toronto, Ontario
Noranda
25 King St. W., Toronto I, Ontario
360 St. James St. W., Montreal
465 St. John St., Montreal Louvicourt Twp. Rohault Twp.
Maiartic, Quebec
Barraute Twp.
Frotet Lake
Belleterre Louvicourt Bruchesi Twp. Malartic McKenzie Twp. Malartic Barraute Twp. Rouyn 25 Adelaide St. W., Toronto, Ontario
1121 Sherbrooke St. W., Montreal
455 Craig, Montreal
199 Bay St., Toronto, Ontario
1374 Sherbrooke St. W., Montreal
62 Richmond St. W., Toronto
314 Bathurst St., Toronto, Ontario
80 Richmond St. W., Toronto, Ontario
199 Bay St., Toronto, Ontario
44 King St. W., Toronto, Ontario
121 Richmond St. W., Toronto, Ontario Chimo Gold Mines Ltd. Vauquelin Twp. Louvicourt Twp. Cournor Mining Co., Ltd.
Consolidated Central Cadillac Mines Ltd.
Crolnor Pershing Mines Ltd.
Dolsan Mines Ltd. Cadillac Pershing Twp. Vassal Twp. Dolsan Mines Ltd.
Donalda Mines Ltd.
Dupel Mines Ltd.
East Amphi Gold Mines Ltd.
East Amghi Gold Mines Ltd.
East Malartic Mines Ltd.
Elder Mines & Developments Ltd.
Eldrich Mines Ltd.
Elvue Mines Ltd.
Eplett G.S. Mining & Development Ltd. Noranda
Duprat Twp.
Malartic Twp.
Fourniere Twp.
Noranda Twp. Duprat Duprat Beauchastei Twp. 159 Craig St. W., Montreal
222 Hospital St., Montreal
Bourlamaque
67 Yonge St., Toronto, Ontario
132 St. James St., Montreal
12 Richmond St. E., Toronto, Ontario
516 Canada Cement Bldg., Montreal
Amtifield Franksin Mines Ltd.
Fontana Mines (1945) Ltd.
Gamma Mines (Quebec) Ltd.
Gwillim Lake Gold Mines Ltd.
Kerromac Minling Co. Ltd.
Lake Expanse Gold Mines Ltd.
Lake Opawica Mines Ltd.
Lake Wasa Minling Corporation
Lamaque Mining Co. Ltd.
Leys, Wm., Mining Corp. Ltd.
Levicourt Goldfields Corporation
Malartic Goldfields Ltd.
Mariette Mines Ltd. Franksin Mines Ltd. Rat Lake Beauchastel Bourlamaque McKenzie Twp. La Sarre Twp. Sinneville Twp. Parker Twp. Amtfield Bourlamaque Bourlamaque
486 St. John St., Montreal
100 Adelaide St. W., Toronto, Ontario
Halet
1197 Phillips Square, Montreal Rour la ma que Beauchastel Bourlamaque Fourniere Twp. Halet
201 - 2ème Avenue, Quebec
Haileybury, Ontario
132 St. James St. W., Montreal
100 Adelaide St. W., Toronto, Ontario
7 King St. W., Toronto, Ontario
80 Kichmond St. W., Toronto, Ontario
80 Richmond St. W., Toronto, Ontario
199 Bay St. Toronto, Ontario
Halet
Cadillac
330 Bay St., Toronto, Ontario Marban Gold Mines Ltd.

Marcoland Mines Ltd.

Marcoland Mines Ltd.

McWatters Gold Mines
Nemrod Mining Co., Ltd.

New Goldvue Mines Ltd.

New Marlon Gold Mines Ltd.

New Senator-Rouyn Ltd.

New Vinray Mines Ltd.

Nickel Offsets Ltd.

Norbeau Mines Ltd.

Norlartic Mines Ltd.

O'Brien Gold Mines, Ltd.

O'Brien Gold Mines, Ltd.

O'enada Gold Mines Ltd. Landrienne Co.
Rouyn Twp.
Louvicourt Chibougamau Rouyn Noranda Dufresnoy Duprat Twp. McKenzie Twp. Marlartic Cadillac Twp. Bourlamaque 200 Bay St., Toronto, Ontario
82 Governement Road, Kirkland Lake
62 Richmond St. W., Toronto, Ont.
357 Bay St. Toronto, Ontario
132 St. Jacques, Montreal
44 King St. W., Toronto Petron Gold Mines Ltd. Perron Gold Mines Ltd.
Pitchvein Mines Ltd.
Pitchvein Mines Ltd.
Quebelle Mines Ltd.
Quebelle Mines Ltd.
Quebele Explorers
Rand Malartic Mines Ltd.
Sigma Mines (Quebec) Ltd.
Stadacona Mines (1944) Ltd.
Sullivan Consolldated Mines Ltd.
Trib Exploration Ltd.
Tribag Mining Co. Ltd.
Valco Mines Co. Abitibi Dasserat Fournière Twp. Cedar Rapids Vauqualin Twp. Fournière Twp. 44 King St. w., Toronto
Bourlamaque
455 Craig St., Montreal
1403 - Aldred Building, Montreal
67 Yonge St., Toronto, Ontario
44 King St. W., Toronto, Ontario
115 rue St. Pierre, Quebec Bourlamaque Rouyn Dubuisson Twp. Rouyn Malartic Ontario: Porcupine District Aunor Gold Mines Ltd.
Broulan Reef Mines Ltd.
Conlaurum Mines Ltd.
Delnite Mines Ltd.
Dome Mines Ltd.
Hallnor Mines Ltd.
Hollinger Consolidated Gold Mines Ltd.
Hugh-Pam Porcupine Mines Ltd.
McIntyre Porcupine Mines Ltd.
Pamour Porcupine Mines Ltd.
Paymaster Consolidated Mines Ltd.
Preston East Dome Mines Ltd.
Buffalo Ankerite Gold Mines Ltd.
Central Porcupine Mines Ltd. 44 King St. W., Toronto
80 Richmond St. W., Toronto
25 King St. W., Toronto
Box 590, Timmins Whitney Twp.
Tlsdale Twp.
Deloro Twp. Tisdale Twp. Whitney Twp. Hislop Twp. Whitney Twp. Bank of Nova Scotia Bldg., Toronto
Box 100, South Porcupine
335 Bay St., Toronto
South Porcupine
100 Adelaide St. W., Toronto Schumacher
Whitney Twp.
Doloro and Tisdale Twps.
South Porcupine Doloro Twp.

Name	Head or executive office address	Location				
(b	(b) Gold Quartz Mining Industry - Concluded					
Ontario - Concluded:						
Kirkland Lake District						
Kirkland Minerals Corp., Ltd.	160 Day St. Toponto	Mank Muse				
Lake Shore Mines Ltd.	199 Bay St., Toronto	Kirkland Lake				
Macassa Mines Ltd. Sylvanite Gold Mines Ltd.	85 Richmond St. W., Toronto	Kirkland Lake				
Teck-Hughes Gold Mine Ltd., The	14 Finkle St., Woodstock	Kirkland Lake				
Upper Canada Mines Ltd. Wright-Hargreaves Mines Ltd.	199 Bay St., Toronto	Kirkland Lake				
Larder Lake District						
Kerr-Addison Gold Mines Ltd,	44 King St. W., Toronto	McGarry Twp.				
Tresdor Larder Mines Ltd.		McGarry Twp.				
Sudbury District						
Renable Mines Ltd.	85 Richmond St. W., Toronto	Sudbury				
Thunder Bay Districts						
Leitch Gold Mines Ltd.	12 Richmond St. E., Toronto	Summers Twp.				
Little Long Lac Gold Mines Ltd.	199 Bay St., Toronto	Errington Twp.				
Mac Leod-Cockshutt Gold Mines Ltd. Consolidated Mosher Mines Ltd.		Geraldton Long Lac				
Kenora District						
Cone, R.C.						
Purdex Minerals Ltd. Northgate Exploration Ltd.		Euart Twp.				
Patricia District						
Ahino Gold Mines Ltd.	25 Adelaide St. W., Toronto	Baimer Twp.				
Ava Gold Mining Co. Ltd. Campbell Red Lake Mines Ltd.	50 King St. W., Toronto	Red Lake Baimer Twp.				
Cochenour Willans Gold Mines Ltd. McKenzie Red Lake Gold Mines Ltd.	150 Eglinton Ave. E., Toronto	Dome Twp.				
Madsen Red Lake Gold Mines Ltd.	55 Yonge St., Toronto	Heyson Twp.				
New Dickenson Mines Ltd. Pickle Crow Gold Mines, Ltd.	11 Adelaide St. W., Toronto	Balmer Twp.				
McFinley Red Lake Gold Mines Ltd.	199 Bay St., Toronto	McKenzie Island				
Young, H.G., Mines Ltd.	80 Richmond St. W., Toronto	Balmer Twp.				
anitoba:						
	237 Curry Bldg., Winnipeg					
Locwin Mining Co. Ltd.	237 Curry Bldg., Winnipeg 102 Mercantile Bldg., Edmonton, Alberta	Bissett Lake Winnipeg				
ritish Columbia:						
Bralorne - Pioneer Mines Ltd.						
Burgess, A. Cariboo Gold Quartz Mining Co. Ltd.	675 W. Hastings St., Vancouver	Cariboo				
Consolidated Mining & Smelting Co. Ltd. Cascade Lode Mines Ltd.	Trail	Skeena				
French Mines Ltd	675 W. Hastings St., Vancouver	Osoyoos				
Graham, W.B. Kelowna Mines Hedley Ltd.	Box 63, Hedley Hedley					
Northern Gem Mining Corp.	510 Hasting St. W., Vancouver	Lillooet				
Snowdrop Mining Co						
W.D. Mining Claim	1360 McLean St., Trail	Trail				
		1				
orthwest Territories:						
Akaitcho Yellowknife Gold Mines Ltd.						
Consolidated Mining & S. Co. of Canada, Ltd	25 Adelaide St. W., Toronto, Ontario	Yellowknife				
Giant Yellowknife Gold Mines Ltd. Ormsby Mines Ltd.	25 King St. W., Toronto, Ontario	Yellowknife Yellowknife				
Taurcanis Mines Ltd.						

Name Head or executive office address Location (c) Copper-Gold-Silver Mining Industry Newfoundland: Atlantic Coast Copper Corp. Ltd.
Maritimes Mining Corp., Ltd. Springdale Nova Scotia: King Copper Mining Corp. 1519 Pine Ave. W., Montreal, Quebec Oxford New Brunswick: Area Mines Ltd.
Aumacho River Mines Ltd.
Fab Metal Mines Ltd.
Fab Metal Mines Ltd.
Lencourt Gold Mines Ltd
Heath Steel Mines Ltd
Kennco Exploration (Canada) Ltd.
Mogul Mining Corp., Ltd.
New Alger Mines Ltd.
New Goldvue Mines Ltd.
New Goldvue Mines Ltd.
New Gold Mines Ltd.
New Senator Rough Ltd.
Quebec Smelting & Refining Ltd.
Roche Long Lac Gold Mines Ltd.
Sladen (Quebec) Ltd.
Timmins, N.A., (1938) Ltd.
Tribag Mining Co. Ltd. 44 King St. W., Toronto, Ontario
25 Adelaide St. W., Toronto, Ontario
25 Adelaide St. W., Toronto, Ontario
360 St. James St. W., Montreal, Quebec
80x 280, Newcastle
25 King St. W., Toronto, Ontario
25 Adelaide St. W., Toronto, Ontario
80 Richmond St. W., Toronto, Ontario
100 Adelaide St. W., Toronto, Ontario Bathurst Gloucester Gloucester Northumberland Northumberland Newcastie Gloucester Northumberland Miramichi Newcastie Newcastie Gloucester Sathurst Bathurst Rathurst Gloucester 1024 -85 Richmond St. W., Toronto, Ontario
605 - 137 Weilington W., Toronto, Ontario
1255 Phillips Square, Montréal, Quebec
8th. Street, New Toronto, Ontario
62 Richmond St. W., Toronto, Ontario
62 Richmond St. W., Toronto, Ontario
634 King St. W., Toronto, Ontario
64 King St. W., Toronto, Ontario
64 King St. W., Toronto, Ontario
640 - 100 Adelaide St. W., Toronto, Ontario
1600 - 100 Adelaide St. W., Toronto, Ontario
1600 - 100 Adelaide St. W., Toronto, Ontario
100 Montague St. Regina, Saskatchewan
100 Adelaide St. W., Toronto, Ontario
6600 - 100 Adelaide St. W., Toronto, Ontario
132 St. James St. W., Montréal, Quebec
906 - 357 Bay St., Toronto, Ontario
804 - 8 King St. E., Toronto, Ontario
804 - 8 King St. E., Toronto, Ontario
804 - 8 King St. E., Toronto, Ontario
805 - 357 Bay St., Toronto, Ontario
805 - 136 Bay St., Toronto, Ontario
806 - 1024 - 85 Richmond St., Toronto Ontario
1024 - 85 Richmond St., Toronto, Ontario
1026 - 80 Bay St., Toronto, Ontario
1030 - 100 Adelaide St. W., Toronto, Ontario
101 - 637 Craig St. W., Montréal, Quebec
1024 - 85 Richmond St., Toronto, Ontario
102 - 100 Adelaide St. W., Toronto, Ontario
103 - 100 Adelaide St. W., Toronto, Ontario
1045 - 25 Adelaide St. W., Toronto, Ontario
1070 Richmond St. W., Toronto, Ontario
108 - 155 Yonge St., Toronto, Ontario
109 - 215 St. James St. W., Montréal, Québec
107 - 55 Yonge St., Toronto, Ontario
109 - 100 Adelaide St. W., Toronto, Ontario
1107 - 637 Kraig St. W., Toronto, Ontario
1107 - 638 - 160 King St. W., Toronto, Ontario
1107 - 639 - 160 King St. W., Toronto, Ontario
1107 - 639 - 160 King St. W., Toronto, Ontario
1107 - 639 - 160 King St. W., Toronto, Ontario
1107 - 630 - 160 Aicourt Mines Ltd.
Alrose Mining Co. Ltd.
Amalgamated Larder Mines Ltd.
Americ Mines
Anaconda Company (Canada) Ltd., The
Anchor Petroleums Limited
Aneid Mines Limited
Area Mines Limited
Augustus Exploration Limited
Aumaque Gold Mines Limited
Aumaque Gold Mines Limited
Baska Uranium Mines Limited
Baska Uranium Mines Litd.
Beattle-Duquesne Mines Ltd.
Beattle-Duquesne Mines Ltd.
Big Town Copper Mines Ltd.
Big Town Copper Mines Ltd.
Bracemac Mines Ltd.
Bracemac Mines Ltd.
Campbell Chibougamau Mines Ltd.
Canada Radium Corp. Ltd.
Canada Radium Corp. Ltd.
Candore Explorations Ltd.
Cartier Quebec Explorations Ltd.
Central Porcupine Mines Ltd.
Chibougamau Mining top.
Chib-Kayrand Copper Mines Ltd.
Chibougamau Jaculet Mines Ltd.
Chibougamau Jaculet Mines Ltd.
Consolidated Bellekeno Mines Ltd.
Consolidated Mogul Mines Ltd.
Consolidated Zinc Corp. of Canada Ltd.
Contertal Contertal Company Ltd.
Copper Rand Chibougamau Mines Ltd.
Consolidated Zinc Corp. of Canada Ltd.
Convest Exploration Company Ltd.
Copper Rand Chibougamau Mines Ltd.
D'Aragon Mines Ltd.
D'Aragon Mines Ltd. Quebec: Cavalier Twp. Beauchastel Twp. Garthby Twp. Guercheville Twp. Eastern Quebec Daniel Twp. Duprat Twp Duprat Twp.
Aloegny Twp.
Duprat Twp.
Carpiquet Twp.
Bourlamaque Twp.
Cavalier Twp. Chibougamau La Pause Twp. Duparquet Twp. Abitibi Territory Daniel Twp.
Galinee Twp.
Abitibi Territory
Obalski Twp. Daniel Twp. Dussieux Twp. La Motte Twp. Mistassini Territory Cavalier Twp. Daniel Twn. Obalski Two. Levy Twp. Mc Kenzie Twp. Chibougamau La Gauchetiere Twp. Dufresnoy Twp. Noranda Dufresnoy Twp. Gaspé Mc Kenzie Twp. Copper Rand Chibougamau Mines Ltd.
Daniel Mining Co. Ltd.
D'Aragon Mines Ltd.
Detanco Mines Ltd.
Detanco Mines Ltd.
De Ville Copper Mines Ltd.
Dome Exploration Company Ltd.
Dominion Explorers Ltd.
Dulac Chibougamau Mines Ltd.
Diffusion Mines Ltd. Daniel Twp.
Bourlamaque Twp.
Chibougamau Abitibi Abitibi Galinee Two. Abitibi Canton Chavigny Dulac Chibougamau Mines Ltd.
Du Maurier Mines Ltd.
Duvan Copper Company Ltd.
Duvex Oils & Mines Ltd.
Eastern Opemiska Mines
East Sullivan Mines Ltd.
East Trinity Mining Corp.
Elk Lake Mines Ltd.
Fab Metal Mines Ltd.
Foreign Exploration Corp. Ltd.
Fundy Bay Copper Mines Ltd.
Gabbro Syndicate
Gagnon Frère
Garon Lake Mines Ltd.
Gaspe Copper Mines Ltd.
Gaspe Copper Mines Ltd. Berthiaume Twp. Desmeloizes Twp. Galinee Twp. Rohault Twp. Joutel Two. Destor Twp. Urban Twp. St. Helene Twp. Frotet Lake Frotet Lake Chäteau-Richer Isle-Dieu Twp.

Name Head or executive office address Location

(c) Copper-Gold-Silver Mining Industry - Continued

Quebec - Continued: Gibson Mines Ltd.

Gibson Mines Ltd.
Granset Lake Mines Ltd.
Grasset Lake Mines Ltd.
Grasset Lake Mines Ltd.
Greek Canadian Mines Ltd.
Hastings Mining & Development Co. Ltd.
Hoyle Mining Company Ltd.
Hudson Bay Exploration & Development Co. Ltd.
Hudson Bay Exploration & Development Co. Ltd.
Indian Mountain Metal Mines Ltd.
Inwex Corporation Ltd.
Iso Mines Ltd.
Jacobus Mining Corp. Ltd.
Jaylac Mines Ltd.
Jacobus Mining Corp. Ltd.
Jaylac Mines Ltd.
Jellicoe Mlnes (1939) Ltd.
Joburke Gold Mines Ltd.
Jowsey, F. H.
Kelly-Desmond Mining Corp. Ltd.
Kennco Explorations (Canada) Ltd.
Kimberly Copper Mines Ltd.
Korich Mining Company
La-Chib Mines Ltd.
Lake Chibougamau Mines Ltd.
Lake Dufault Mines Ltd.
Lenmac Mines Ltd.
Lenmac Mines Ltd.
Lynwallin Nickel Copper Ltd.
Macon Mining Company Ltd.
Lynwallin Nickel Copper Ltd.
Maralgo Mines Ltd.
Maralgo Mines Ltd.
Marland Mines Ltd.
Marland Mines Ltd.
Marland Mines Ltd.
Marland Mines Ltd.
Miller Copper Mines Ltd.
Mining Corporation of Canada Ltd.
Miller Copper Mines Ltd.
Mining Corporation of Canada Ltd.
Min-Ore Mines Ltd.
Mining Corporation of Canada Ltd.
Min-Ore Mines Ltd.
New Onsolldated Canadian Exploration Ltd.
New Gonsolldated Canadian Exploration Ltd.
New Faulkenham Mines Ltd.
New Jason Mines Ltd.
New Hosco Mines Ltd.
New Jason Mines Ltd.
New West Amulet Mines Ltd.
Nicus Mines Ltd. New Hasco Mines Ltd.
New Jason Mines Ltd.
New Jason Mines Ltd.
Newlund Mines Ltd.
Newport Mining Corp. of Canada Ltd.
New West Amulet Mines Ltd.
Nicup Mines Ltd.
Nicup Mines Ltd.
Noranda Mines Ltd.
Noranda Mines Ltd.
Normetal Mining Corp. Ltd.
Norque Copper Mines Ltd.
North Copper Mines Ltd.
Northcal Oils Ltd.
North Mattagami Mines Ltd.
North Mattagami Mines Ltd.
O'Leary Malartlc Mines Ltd.
O'Leary Malartlc Mines Ltd.
O'Leary Malartlc Mines Ltd.
Orchan Mines Ltd.
Orchan Mines Ltd.
Orslab Lake Mines Ltd.
Orslab Lake Mines Ltd.
Quebec Manitou Mines Ltd.
Quebec Manitou Mines Ltd.
Quebec Manitou Mines Ltd.
Quebec Smeiting & Refining Ltd.
Quebec Smeiting & Refining Ltd.
Radiore Uranium Mines Ltd.
Rainville Mines Ltd.
Rio Tinto Canadian Exploration Ltd.
Rovanda Mining Company
Selco Exploration Ltd. South Dufault Mines Ltd.
Southwest Potash Corporation
St. Heien Mining Exploration Ltd.
St. Mary's Explorations Ltd.
Tache Lake Mines Ltd.
Tazin Mines Ltd.
Terra Nova Explorations Ltd.
Three Brothers Mining Exploration Ltd.
Trade-Horn Limited Trade-Horn Limited

215 St. James St. W., Montreal, Que. 908 - 330 Bay St. Toronto, Ont. 1013 - 25 Adelaide St. E., Toronto, Ont. 740 Midland Ave., Scarboro, Ont. 507 Place d'Armes, Montreal, Que. 2200 - 25 King St. W., Toronto, Ont. 500 Royal Bank Bldg., Winnipeg, Man. 902 - 11 Adelaide St. W., Toronto, Ont. 1100 - 11 Adelaide St. W., Toronto, Ont. 1100 - 11 Adelaide St. W., Toronto, Ont. 124 King St. W., Toronto, Ont. 1403 - 100 Adelaide St. W., Toronto, Ont. 1403 - 100 Adelaide St. W., Toronto, Ont. 1024 - 85 Richmond St. W., Toronto, Ont. 1024 - 85 Richmond St. E., Toronto, Ont. 1024 - 85 Richmond St. E., Toronto, Ont. 1910 Royal Bank Bldg. Toronto, Ont. 1910 Royal Bank Bldg. Toronto, Ont. 1910 Royal Bank Bldg. Toronto, Ont. 1911 Royal Bank Bldg. Toronto, Ont. 1913 Radelife Rd., Montreal, Que. 1913 Radelife Rd., Montreal, Que. 1914 Richmond St. E., Toronto, Ont. 1915 Radelife Rd., Montreal, Que. 1914 Richmond St. E., Toronto, Ont. 1916 Royal St. James St. W., Montreal, Que. 1916 Richmond St. E., Toronto, Ont. 1917 Radelife Rd., Montreal, Que. 1916 Richmond St. E., Toronto, Ont. 1917 Radelife Rd., Montreal, Que. 1916 Richmond St. E., Toronto, Ont. 1917 Royal Richmond St. E., Toronto, Ont. 1918 Richmond St. E., Toronto, Ont. 1924 Richmond St. E., Toronto, Ont. 1924 Richmond St. E., Toronto, Ont. 1925 Richmond St. E., Toron 215 St. James St. W., Montreal, Que. 908-330 Bay St. Toronto, Ont. 1013-25 Adelaide St. E., Toronto, Ont.

Barraute Twp. Roy Twp. Subercase Twp. Pascalis Twp. Stratford Twp. Levy Twp.
Abitibi
Opemiska Twp.
Montbray Twp.
Rouyn Twp.
Ste. Helene Twp.
Frotet Lake
Berthiaume Twp. Galinee Twp. Montylel Twp Ste. Helene Twp. Abitibi Galinee Twp. Obalski Twp. Stratford Twp. Dufresnoy Twp. Berthiaume Twp. Guercheville Twp. Galinee Twp. Ste. Helene Twp. Beauchastel Twp. Opemiska Twp. Gatineau Douay Twp. Isle-Dieu Twp. Frotet Lake McKenzie Twp. Chibougamau Ty Dufresnoy Twp. Chibougamau Holland Twp. Chibougamau Cavalier Twp.
Galinee Twp.
La Martiniere Twp. Ungava District Hebecourt Twp. Daniel Twp. Brongniart Twp. Lozeau Twp. Daniel Twp. Galinee Twp. Subercase Twp. Mattagami Area Dunrat Two. Amos Carpiquet Twp. Noranda Desmeloizes Twp. Duprat Twp. Subercase Twp La Gauchetlère Twp. Isle-Dleu Twp. McCorkill Twp. Levy Twp.
Galinee Twp.
Rouyn Twp.
Roy Twp.
Abltibi
Le Tardif Twp. Cedar Rapids Lesperance Twp. Rouyn-Noranda Isle-Dleu Twp. Bourlamaque Twp. Gaspé Rohault Twp. Ligneris Twp. St. Helene Twp. Marceau Twp. Rouyn Twp. La Gauchetière Twp. Boyvinet Twp. St. Heiene Twp Ste. Helene Twp McKenzie Twp. Chibougamau Barraute Twp. Comporte Twp.

Name	Name Head or executive office address	
(c) Copper-	Gold-Silver Mining Industry - Concluded	
Quebec - Concluded:		
Tri-Cor Mining Company Ltd. Tyrone Mines Ltd. Valray Explorations Ltd. Ventures Limited Voyager Explorations Ltd. Waite Amulet Mines Ltd. Waite Lake Mines Ltd. Watoon Lake Mines Ltd. Weedon Mining Corporation West Wasa Mines Ltd.	2200 - 25 King St. W., Toronto Ont. 901 - 159 Bay St., Toronto, Ont. Noranda, Que. 421 Dominion Square Bldg., Montreal, Que.	Barraute Twp. Sakami Lake Area Ducros Twp. Mattagami Subercase Twp. Duprat Twp. Duprat Twp. Watson Lake Fontainebleau Beauchastel Twp.
Ontario:		
Andover Mining & Explorations Ltd. Bruce-Presto Mines Ltd. North Coldstream Copper Mines Ltd. Consolidated Sudbury Basin Mines Ltd. Dolmac Mines Ltd. Dupel Mines Ltd. Geco Mines Ltd. Maraigo Mines Ltd. Maybrun Mines Ltd. Nama Creek Mines Ltd. Norstar Lake Mines Ltd. Poly Ores Mining Company Ltd. Roaring River Mines Ltd. Tarbutt Mines Ltd. Tarbutt Mines Ltd. Temagami Mining Company Ltd. Welsh, G.S.	908-330 Bay St., Toronto, Ont. 103-160 Bay St., Toronto, Ont. 62 Richmond St. W., Toronto, Ont. 612-85 Richmond St. W., Toronto, Ont.	Moss & Yates Twps. Plummer Twp. Kashabowie Balfour & Creighton Twps. Rathburn Twp. Hindon Twp. Manitouwadge Strathy Twp. Kenora Manitouwadge Davis Twp. Spanish Bridgeland & Wells Twps. Horne Twp. Temagami Matachewan
Manitoba:		
Canorama Explorations Ltd. Hudson Bay Mining & Smelting Company Ltd. Schist Lake Mine	104-85 Richmond St. W., Toronto, Ont. 500 Royal Bank Bldg., Winnipeg, Man. 500 Royal Bank Bldg., Winnipeg, Man.	The Pas Flin Flon Flin Flon
Saskatchewan:		
Hanson Mines Ltd. Birch Lake Mine Hudson Bay Mining & Smelting Co, Ltd.	2001-80 King St. W., Toronto, Ont. 500 Royal Bank Bldg., Winnipeg, Man. 500 Royal Bank Bldg., Winnipeg, Man.	Hanson Lake Flin Flon Flin Flon
British Columbia:		
Birkett Creek Mine Operators Ltd. Cadamet Mines Ltd. Consolidated Mining & Smelting Co. of Canada Ltd. Consolidated Woodgreen Mines Ltd. Continental Consolidated Mines Ltd. Cowichan Copper Co. Ltd. Granduc Mines Ltd. Howe Sound Company, Britannia Division Mid-West Copper & Uranium Mines Ltd. Phoenix Copper Company Ltd. Rio Tinto Canadian Exploration Ltd. Texada Mines Ltd. The Granby Mining Company Ltd. Torwest Resources Ltd.	700 Burrard Bldg., Vancouver, B.C. 600-250 University Ave., Toronto, Ont. Trail, B.C. 204-569 Howe St., Vancouver, B.C. 535 Howe St., Vancouver, B.C. 620 Howe St., Vancouver, B.C. 507-1111 W. Georgia St., Vancouver, B.C. 500 Fifth Ave. New York 36, N.Y. 535 Howe St., Vancouver, B.C. 1111 W. Georgia St., Vancouver, B.C. 335 Bay St., Vancouver, B.C. 1111 W. Georgia St., Vancouver, B.C. 1111 W. Georgia St., Vancouver, B.C.	Merritt Kamloops Hope & Nanaimo Greenwood Greenwood Lake Cowichan Leduc Glacier Britannia Beach Rossland Grand Forks Kamloops Nanaimo Allenby Merritt

ERRATA

Gold Mining Industry, 1957
Page B - 24 Table 36, and Table 37.

Gold Mining Industry, 1958. Page B-24 Table 38, and Table 39,

REVISED DATA: Shipments from Copper-Gold-Silver Mines

1957	Quantity	Value	Gold	Silver	Copper	Zinc
	tons	\$	oz,	OZ.	lb.	
Copper concentrates	883,814	75, 668, 126	355, 103	3, 617, 116	317, 595, 817	_
Zinc concentrates	107, 912	6,831,555	4, 922	129, 414	2, 147, 221	96, 847, 179





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