

Principal Canadian Nonferrous and Precious Metal Mine Production in 1995

Lo-Sun Jen and Bill McCutcheon

*The authors are with the Minerals and Metals Sector, Natural Resources Canada.
Telephone: (613) 992-0658 and (613) 992-5480, respectively.*

PRINCIPAL CANADIAN NONFERROUS AND PRECIOUS METAL MINE PRODUCTION IN 1995

Company and Mine Name	Capacity (tonnes per day)	Grades of Ore Milled						Ore Milled (tonnes)	Metal Contained in All Concentrates Produced														
		Cu	Ni	Pb	Zn	Ag	Au		Copper	Nickel	Lead	Zinc	Silver	Gold									
		(percent)							(grams/tonne)						(tonnes)						(kilograms)		
NEWFOUNDLAND																							
Royal Oak Mines Inc. Hope Brook mine Couteau Bay	3 495	0.40 ^e	-	-	-	0.41 ^e	2.74	989 058	540 ^e	-	-	-	279 ^e	2 270 ^e									
NEW BRUNSWICK																							
Brunswick Mining and Smelting Corporation Limited No. 12 mine Bathurst	10 500	0.36	-	3.47	9.10	112.01	-	3 789 492	11 196	-	90 905	301 932	301 924	-									
Noranda Mining and Exploration Inc. Heath Steele mine Bathurst	2 420	0.77	-	1.96	6.78	79.89	-	970 325	5 841	-	10 375	54 578	40 562	-									
QUEBEC																							
Agnico-Eagle Mines Limited LaRonde mine Cadillac	1 996	1.06	-	-	-	19.41	8.50	659 977	5 807	-	-	-	7 553	5 329									
Aur Resources Inc. Custom milling Val-d'Or	1 270	-	-	-	-	0.72	4.32	159 273	-	-	-	-	96	610									
Aurizon Mines Ltd. - Cambior inc. joint venture Sleeping Giant mine Amos	900	-	-	-	-	16.18	12.45	124 522	-	-	-	-	1 655	1 494									
Aurizon Mines Ltd. - Louvem Mines Inc. joint venture Beaufor mine Val-d'Or	400	-	-	-	-	0.50 ^e	11.40 ^e	49 000 ^e	-	-	-	-	20 ^e	480 ^e									
Barrick Gold Corporation Bousquet No. 1 mine Cadillac	1 500	-	-	-	-	0.90	6.00	247 870	-	-	-	-	111	1 412									
Bousquet No. 2 mine Malartic	1 680	0.60	-	-	-	15.30	9.20	623 400	3 100	-	-	-	4 769	5 488									
Billiton Metals Canada Inc. Les Mines Selbaie OP mine Joutel	6 650	0.54	-	0.10	2.06	31.99	0.65	1 272 599	6 357	-	862	23 617	27 029	679									

Cambior inc. Bouchard-Hébert mine Rouyn-Noranda	2 250	1.01 ^e	-	-	4.53 ^e	54.51	1.82	634 122 ^e	5 271 ^e	-	-	23 646	13 766	624
Doyon mine Val-d'Or	3 300	-	-	-	-	1.92	6.17	1 166 005	-	-	-	-	1 963	6 820
Chimo mine Mouska mine Rouyn-Noranda	1 700	-	-	-	-	0.18	3.53	322 050	-	-	-	-	47	825
	-	-	-	-	-	2.50 ^e	8.50	80 000 ^e	-	-	-	-	160 ^e	647
Campbell Resources Inc. Joe Mann mine Chibougamau	1 315	0.29	-	-	-	6.03 ^e	8.64	255 830	571	-	-	-	915	2 049
Inmet Mining Corporation - Thunderwood Resources Inc. joint venture Donalda mine Rouyn-Noranda	450	-	-	-	-	1.23	3.56	10 573	-	-	-	-	13	38
Lithos Corporation Wrightbar mine Val-d'Or	270	-	-	-	-	1.0	5.70	58 780	-	-	-	-	61	310
MSV Resources Inc. Copper Rand and Portage mines Chibougamau	2 800	1.27	-	-	-	8.91	4.35	541 680	6 771	-	-	-	3 158	2 210
Noranda Mining and Exploration Inc. Division Mines Gaspé Copper Mountain and Needle Mountain mines Murdochville Matagami Division Îsle-Dieu and Norita East mines Mattagami Lake	10 000	1.87	-	-	-	11.25	0.10	1 364 950	24 505	-	-	-	13 083	39
	2 150	1.07	-	0.27	15.13	70.59	0.48	602 552	6 129	-	1 331	87 281	33 215	213
Noranda Mining and Exploration Inc. - Cambior inc. joint venture Silidor mine Rouyn-Noranda	1 100	-	-	-	-	1.4 ^e	4.41	418 545	-	-	-	-	498 ^e	1 736
Novicourt Inc. - Aur Resources Inc. - Teck Corporation joint venture Louvicourt mine Val-d'Or	5 000	3.7	-	-	2.10	30.21	1.23	1 283 263	46 082	-	-	23 758	29 104	1 172
Placer Dome Inc. Kiena mine Sigma mine Val-d'Or	1 450	-	-	-	-	0.69	5.10	546 000	-	-	-	-	288	2 694
	1 600	-	-	-	-	1.10	4.30	606 000	-	-	-	-	536	2 434
Richmont Mines Inc. Francoeur mine Rouyn-Noranda	1 135	-	-	-	-	0.61	5.96	153 900	-	-	-	-	96	916
TVX Gold Inc. Casa Berardi East and West mines La Sarre	2 000	-	-	-	-	1.20	4.70	469 542	-	-	-	-	475	1 903

PRINCIPAL CANADIAN NONFERROUS AND PRECIOUS METAL MINE PRODUCTION IN 1995 (cont'd)

Company and Mine	Capacity	Grades of Ore Milled						Ore Milled	Metal Contained in All Concentrates Produced						
		Cu	Ni	Pb	Zn	Ag	Au		Copper	Nickel	Lead	Zinc	Silver	Gold	
	(tonnes per day)	(percent)						(tonnes)	(tonnes)						(kilograms)
QUEBEC (cont'd)															
Western Quebec Mines Inc. Joubi mine Val-d'Or	100	-	-	-	-	0.79	5.38	20 160	-	-	-	-	16	108	
Yorbeau Resources Inc. Astoria mine Rouyn-Noranda	500	-	-	-	-	0.50	4.33	60 000	-	-	-	-	24	215	
ONTARIO															
AJ Perron Gold Corp. Kerr mine Virginiatown	1 995	-	-	-	-	0.45	3.39	238 771	-	-	-	-	85	687	
Barrick Gold Corporation Holt-McDermott mine Kirkland Lake	1 360	-	-	-	-	0.86	5.59	382 469	-	-	-	-	197	2 065	
Golden Patricia mine Pickle Lake	375	-	-	-	-	1.92	14.91	151 228	-	-	-	-	290	2 205	
Falconbridge Limited Sudbury operations (6 mines) Sudbury	7 900	1.98	1.74	-	-	8.98	0.27	2 385 896	45 024	35 390	-	-	19 247	556	
Timmins operations Kidd Creek mines Timmins	11 235	2.89	-	0.09	4.20	61.03	-	2 764 192	84 933	-	1 982	113 216	147 825	-	
Goldcorp Inc. Red Lake mine Red Lake	815	-	-	-	-	1.20	9.94	205 931	-	-	-	-	185	1 663	
Hemlo Gold Mines Inc. Golden Giant mine Marathon	3 000	-	-	-	-	0.69	12.21	631 600	-	-	-	-	399	7 269	
Hemlo Gold Mines Inc. - Teck Corporation - Homestake Canada Inc. joint venture Quarter Claim mine Marathon	450	-	-	-	-	0.45	9.5	46 800 ^e	-	-	-	-	19	435	
Inco Limited Sudbury mine Sudbury	36 290	1.14	1.26	-	-	6.34	0.21	10 450 224	107 501	104 607	-	-	50 288	1 335	
Shebandowan mine Thunder Bay	1 630	0.84	1.75	-	-	6.34	0.21	150 411	1 168	2 198	-	-	723	19	
Inmet Mining Corporation Winston Lake mine Winston Lake	1 000	0.92	-	-	11.27	26.23	1.44	321 597	2 657	-	-	34 108	5 128	225	

Kinross Gold Corporation														
Hoyle Pond mine	998	-	-	-	-	1.30	16.70	178 652	-	-	-	-	211	2 849
Timmins														
Macassa Division														
Macassa mine	1 200	-	-	-	-	1.71	13.60	114 116	-	-	-	-	151	1 485
Lake Shore tailings operation	-	-	-	-	-	0.31	2.30	347 358	-	-	-	-	56	576
Custom ore	-	-	-	-	-	0.86	7.20	11 703	-	-	-	-	8	78
Kirkland Lake														
Noranda Mining and Exploration Inc.														
Geco Division														
Geco mine	3 900	1.99	-	-	3.21	46.63	0.14	794 867	14 783	-	-	17 756	27 726	57
Manitouwadge														
North American Palladium Ltd.														
Lac-des-Îles mine	2 270	0.13	0.10	-	-	-	0.31	674 564	558	470	-	-	-	151
Thunder Bay														
Placer Dome Inc.														
Campbell mine	1 360	-	-	-	-	1.37	20.50	526 000	-	-	-	-	690	10 071
Red Lake														
Detour Lake mine	2 400	-	-	-	-	1.37	4.20	978 000	-	-	-	-	1 120	3 776
Detour Lake														
Dome mine	8 255	-	-	-	-	0.69	3.09	2 759 000	-	-	-	-	1 703	7 969
South Porcupine														
River Gold Mines Ltd.														
Eagle River mine	544	-	-	-	-	0.96	11.42	28 576	-	-	-	-	26	311
Wawa														
Royal Oak Mines Inc.														
Timmins Division	3 265	-	-	-	-	1.40	2.37	1 224 706	-	-	-	-	429	2 595
Timmins														
Teck Corporation - Homestake Canada Inc. joint venture														
David Bell mine	1 200	-	-	-	-	0.34	11.83	442 000	-	-	-	-	122	4 945
Williams mine	6 000	-	-	-	-	0.69	5.59	2 366 000	-	-	-	-	1 801	12 597
Marathon														
MANITOBA														
Granduc Mining Corporation - Black Hawk Mining Inc. joint venture														
BT mine (Keystone project)	1 200	-	-	-	-	1.37	2.37	432 374	-	-	-	-	474	896
Lynn Lake														
Hudson Bay Mining and Smelting Co., Limited (4 mines) Flin Flon and Snow Lake area	7 540	1.85	-	0.22	4.68	22.09	2.03	1 399 187	24 233	-	1 719	51 234	21 317	1 946
Ruttan mine	5 880	1.30	-	-	1.40	13.03	0.48	1 947 726	24 486	-	-	23 375	15 723	482
Leaf Rapids														
Inco Limited														
Thompson and Birchtree mines	15 000	0.15	2.28	-	-	4.46	0.14	1 891 934	2 798	39 424	-	-	5 478	168
Thompson														

PRINCIPAL CANADIAN NONFERROUS AND PRECIOUS METAL MINE PRODUCTION IN 1995 (cont'd)

Company and Mine	Capacity (tonnes per day)	Grades of Ore Milled						Ore Milled (tonnes)	Metal Contained in All Concentrates Produced					
		Cu	Ni	Pb	Zn	Ag	Au		Copper	Nickel	Lead	Zinc	Silver	Gold
		(percent)				(grams/tonne)			(tonnes)				(kilograms)	
MANITOBA (cont'd)														
TVX Gold Inc. - High River Gold Mines Ltd. joint venture New Britannia mine Snow Lake	1 815	-	-	-	-	0.38	4.39	127 000	-	-	-	-	36	451
SASKATCHEWAN														
Cameco Corporation - Uranerz Exploration and Mining Limited joint venture Contact Lake mine La Ronge	700	-	-	-	-	1.37	6.17	268 964	-	-	-	-	218	1 475
Claude Resources Inc. Seabee mine La Ronge	455	-	-	-	-	2.06	7.41	191 830	-	-	-	-	280	1 338
BRITISH COLUMBIA														
BHP Minerals Canada Ltd. Island Copper mine Port Hardy	49 895	0.28	-	-	-	1.30	0.08	16 532 535	39 129	-	-	-	10 761	665
Candorado Operating Company Ltd. Hedley tailings heap leach operation Hedley	2 040	-	-	-	-	0.17	1.34	78 000	-	-	-	-	10	94
Cominco Ltd. Snip mine Stewart	464	-	-	-	-	13.03	27.43	153 768	-	-	-	-	1 699	3 987
Sullivan mine Kimberley	9 100	-	-	4.10	7.50	17.49	-	1 616 200	-	-	57 948	113 648	23 174	-
Cusac Gold Mines Ltd. Table Mountain mine Cassiar	270	-	-	-	-	-	27.77 ^e	15 500 ^e	-	-	-	-	-	411
Fairfield Minerals Ltd. Siwash mine Merritt	75	-	-	-	-	-	25.37 ^e	4 850 ^e	-	-	-	-	185	118
Gibraltar Mines Limited Gibraltar mine Waste rock operation McLeese Lake	41 095 28 200	0.27 0.09	- -	- -	- -	0.58 -	- -	13 855 000 11 521 246	28 035 2 587 ^a	- -	- -	- -	4 030 -	- -
Highland Valley Copper (Partnership of Cominco Ltd. - Rio Algom Limited - Teck Corporation) Logan Lake	132 995	0.40	-	-	-	2.57	0.02	45 521 800	157 729	-	-	-	58 790	396

Homestake Canada Inc. Nickel Plate mine Hedley	3 630	-	-	-	-	0.93	2.64	1 360 777	-	-	-	-	891	2 842
Imperial Metals Corporation - Goldnev Resources Inc. joint venture Goldstream mine Revelstoke	1 200	3.50	-	-	2.17	37.06	0.05	281 227	9 095	-	-	1 028	3 128	4
Kinross Gold Corporation QR mine Quesnel	800	-	-	-	-	2.40	3.74	194 400	-	-	-	-	264	660
Pacific Vangold Mines Ltd. Evening Star Rossland	90	-	-	-	-	-	4 620 ^e	5 400 ^e	-	-	-	-	-	249
Prime Resources Group Inc. Eskay Creek mine Stewart	300	-	-	-	-	3 457.72	67.30	100 243	-	-	-	-	346 612	6 747
Princeton Mining Corporation Similco mine Princeton	20 865	0.27	-	-	-	0.72	0.18	8 126 561	17 093	-	-	-	2 972	737
Teck Corporation Afton-Ajax mine Kamloops	8 700	0.42	-	-	-	0.79	0.34	2 929 662	10 807	-	-	-	1 597	780
Westmin Resources Limited H-W and Lynx mines Buttle Lake	4 000	2.03	-	-	2.71	22.49	1.85	1 200 000	21 770	-	-	26 780	18 629	821
Premier Gold mine Stewart	2 000	-	-	-	-	85.89	3.70	180 087	-	-	-	-	6 246	607
YUKON TERRITORY														
Anvil Range Mining Corporation Grum and Vangorda mines Faro	11 700	-	-	2.68 ^e	4.48 ^e	52.5 ^e	0.68 ^e	1 450 000 ^e	-	-	32 000 ^e	50 000 ^e	36 500 ^e	237 ^e
NORTHWEST TERRITORIES														
Cominco Ltd. Polaris mine Little Cornwallis Island	2 050	-	-	3.50	12.40	-	-	1 004 000	-	-	33 518	121 235	-	-
Echo Bay Mines Ltd. Lupin mine Contwoyto Lake	2 090	-	-	-	-	1.54	8.85	655 713	-	-	-	-	941	5 353
Miramar Mining Corporation Con mine Yellowknife	1 090	-	-	-	-	2.74	10.53	406 130	-	-	-	-	992	3 795

PRINCIPAL CANADIAN NONFERROUS AND PRECIOUS METAL MINE PRODUCTION IN 1995 (cont'd)

Company and Mine	Capacity	Grades of Ore Milled						Ore Milled	Metal Contained in All Concentrates Produced					
		Cu	Ni	Pb	Zn	Ag	Au		Copper	Nickel	Lead	Zinc	Silver	Gold
	(tonnes per day)	(percent)				(grams/tonne)		(tonnes)	(tonnes)				(kilograms)	
NORTHWEST TERRITORIES (cont'd)														
Nanisivik Mines Ltd. Nanisivik mine Baffin Island	2 260	–	–	0.20	6.88	28.53	–	750 242	–	–	1 202	49 636	15 945	–
Royal Oak Mines Inc. Colomac mine Indin Lake	9 070	–	–	–	–	0.23	1.61	2 472 430	–	–	–	–	483	3 659
Giant mine Yellowknife	1 090	–	–	–	–	1.71	8.71	372 822	–	–	–	–	499	2 844
Tremingo Resources Ltd. Ptarmigan and Tom mines Yellowknife	225	–	–	–	–	0.69	6.86	21 400 ^e	–	–	–	–	7	132
Total Canada	514 193	0.50	0.14	0.16	0.76	10.73	1.01	161 241 073	717 896	182 089	231 840	1 116 828	1 321 240	145 794

Sources: Natural Resources Canada; federal-provincial annual survey of mines and mills/concentrators; company reports.

– Nil; ^e Estimated; OP Open pit.

^a Cathode copper.

Notes: Not included in the above are placer gold operations, several small mine/mill operations, and operations that were not officially in production in 1995, or for which no information was available to enable the completion of a reliable production assessment. The overall contribution to the Canadian production total in 1995 from these omitted operations is estimated to be about 1%. On January 1, 1995, Noranda Minerals Inc. split into Noranda Mining and Exploration Inc. and Noranda Metallurgy Inc.; on January 17, 1995, American Barrick Resources Corporation's name changed to Barrick Gold Corporation; on February 27, 1995, Bethlehem Resources Corporation merged with Imperial Metals Corporation; on May 2, 1995, Kinross Gold Corporation acquired the Macassa gold mine from Barrick Gold Corporation; on May 4, 1995, Metall Mining Corporation's name changed to Inmet Mining Corporation. In November 1995, Audrey Resources Inc. was acquired by Cambior inc.; on July 1, 1996, Granduc Mining Corporation merged with Black Hawk Mining Inc.; on July 8, 1996, Breakwater Resources Ltd. acquired the Nanisivik zinc mine from AEC West Ltd., a wholly owned subsidiary of Alberta Energy Company Ltd.; and on July 19, 1996, Hemlo Gold Mines Inc. merged with Texas-based Battle Mountain Gold Company. Mines that were opened or closed in 1995 are contained in the chapter entitled "Canadian Mine Openings, Closings, Expansions/Extensions and New Mine Developments" in the 1995 edition of the *Canadian Minerals Yearbook*.