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THE CANADIAN MINERAL INDUSTRY

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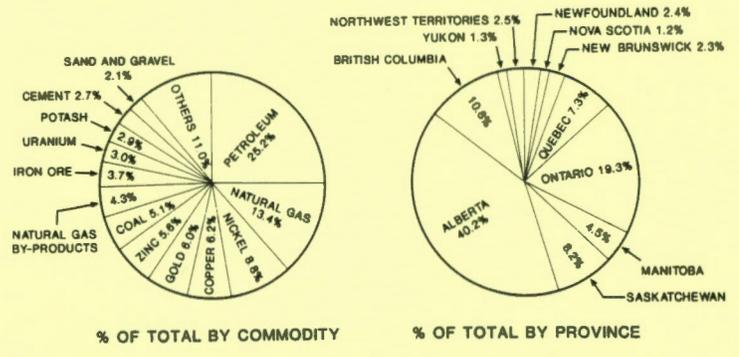
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GEOLOGICAL SURVEY

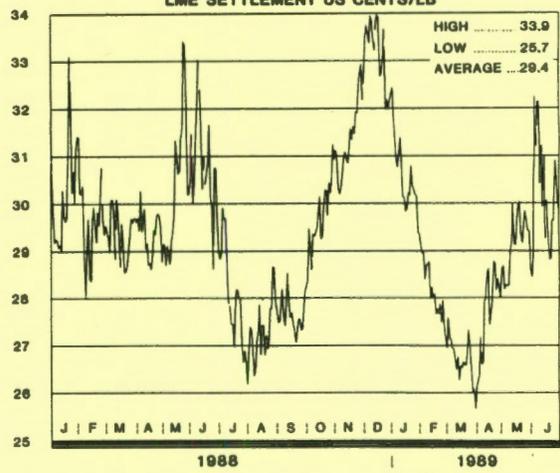
TABLE 3. METAL PRICES - 1988

	October	November
Copper		
Electrolytic, U.S. producer f.o.b. refinery, cents (U.S.)	136.648	150.920
Electrolytic, COMEX, 1st pos. plus 5¢, cents (C.)	166.904	185.133
Electrolytic, Standard, LME cash, cents (U.S.)	127.646	143.821
Lead		
New York, cents (U.S.)		
Montreal, cents (C.)		
LME cash, cents (U.S.)		
Silver		
New York, cents (U.S.) per troy oz.		
Toronto, cents (C.) per troy oz.		
LME cash, cents (U.S.) per troy oz.		
Zinc		
St. Louis, H.G., cents (U.S.)		
Montreal, Electrolytic, cents (C.)		
LME cash, cents (U.S.)		
Tin		
New York, dealers, cents (U.S.)		
Metals Week, composite, cents (U.S.)		
Gold		
London, p.m., US\$ per troy oz.		
Average, (Sharps Pixley) US\$ per troy oz.		
High, (Sharps Pixley) US\$ per troy oz.		
Low, (Sharps Pixley) US\$ per troy oz.		
Mercury		
New York, dealers, US\$ per flask		
Nickel		
New York, dealers, cathode (U.S.)		
LME cash, US\$		
Antimony		
New York, dealers, cents (U.S.)		

CANADA, VALUE OF MINERAL PRODUCTION, 1988



LONDON DAILY LEAD PRICES, 1988-89
LME SETTLEMENT US CENTS/LB



600.000
7.010
131.520
108.035
8.400
7.300
55.000
3.429
13.150
B.

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Canada

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THE CANADIAN MINERAL INDUSTRY

MONTHLY REPORT



Energy, Mines and
Resources Canada

Énergie, Mines et
Ressources Canada

PREFACE

This publication is prepared in the Mineral Policy Sector of the Department of Energy, Mines and Resources. It is compiled from many sources using the best information available to us. This report is intended to be a general review of the more important current developments that affect, or may affect the Canadian mineral industry. It should not be considered an authority for exact quotation or an expression of the official views of the Government of Canada.

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THE CANADIAN MINERAL INDUSTRY FOR JUNE

The following constitutes a brief summary of the Canadian mineral industry based on information that became available in June.

HIGHLIGHTS

1. Lead prices remained stronger than expected, reflecting current tight conditions in the market. The LME price averaged US30.3¢/lb. in June, an increase from 29.1¢/lb. in May. For the first half of the year, the LME price has averaged US28.8¢/lb.
2. In June, the LME settlement price averaged US115¢/lb. for copper, US\$5.52/lb. for nickel, and US76¢/lb. for zinc.
3. Gold prices averaged about US\$368/oz. in June, while silver prices averaged US\$5.28/oz.

ECONOMIC TRENDS

Table 1 provides a comparison of the volume of production of Canada's leading minerals for the months of March and April 1989, the corresponding months a year ago and the year-to-date totals.

Table 2 provides information on Canada's Gross Domestic Product at factor cost by industry at 1981 prices. The data is also annualized and seasonally adjusted.

The annual rate shown for any given month is calculated by multiplying the figure for that month by twelve. It is important to note, however, that if a particular month has been influenced by special factors such as a strike, the annualized data will reflect this bias.

Factor cost refers to output which is valued exclusive of excise taxes and duties, and provincial and municipal sales tax. Factor cost does, however, include subsidies and other taxes which are not a function of the level of output or sale.

Seasonally adjusted data represent time-series data from which the effects of repetitive and clearly defined seasonal fluctuations have been removed. Such a practice permits the isolation of trends in the economy which might otherwise be obscured. Seasonal factors include such items as climate, trade practices and social institutions such as Christmas and Easter.

The GDP data are subject to ongoing revision.

Statistics Canada reported that GDP at factor cost at 1981 prices rose by 0.5% in April following a 0.3% decline in March, averaging 0.1% growth over the March-April period. Nearly three quarters of the April growth originated among the goods producing industries, where output increased by 1.0%. Output of services producing industries increased by 0.2%. GDP in April stood 3.1% above the corresponding month last year.

Table 3 shows the prices of selected metals for March, April and May 1989.

Tables 4 through 6 provide information on ores and materials hoisted or removed from selected types of mines.

Tables 7 and 8 provide an overview of ores mined and rock quarried in the mining industry for selected years.

Tables 9 through 12 provide statistical information on diamond drilling activity in Canada.

Tables 13 through 17 present the financial statistics of corporations in the mining and mineral manufacturing industries.

Table 18 provides a summary of western world production of certain major metals for the period 1984 to 1988.

TABLE 1. CANADA, PRODUCTION OF LEADING MINERALS

	1988			1989			Percentage Changes		
	March	April	Total 4 Months	March	April	Total 4 Months	April 1989	April 1989	1st 4 months
							April 1988	March 1989	1989 1988
(000 tonnes except where noted)									
Metals									
Copper	76.9	60.8 ^r	266.3 ^r	56.9 ^r	72.0	252.6	18.4	26.6	-5.1
Gold kg	10 939.8	10 347.4 ^r	40 504.3 ^r	11 904.3 ^r	12 497.5	45 844.3	20.8	5.0	13.2
Iron ore	2 213.1	3 250.8	10 303.1	1 665.8	3 710.4	9 718.4	14.1	122.7	-5.7
Lead	31.3	28.8 ^r	123.0 ^r	24.1	25.1	94.4	-12.8	4.0	-23.3
Molybdenum t	1 123.0	1 076.1 ^r	4 161.0 ^r	944.4 ^r	1 175.8	4 202.2	9.3	24.5	1.0
Nickel	17.9	18.3 ^r	69.3 ^r	17.8	17.3	70.1	-5.0	-2.8	1.2
Silver t	130.2	126.0 ^r	491.4 ^r	109.1	110.3	423.6	-12.4	1.1	-13.8
Uranium ¹ t	1 329.4	1 002.1	4 811.7	1 249.5	1 225.7	4 380.3	22.3	-1.9	-9.0
Zinc	100.5	101.1 ^r	399.1 ^r	90.1	118.1	357.7	16.8	31.1	-10.4
Nonmetals									
Asbestos	59.2	60.2	214.2	58.5	55.0	216.8	-8.6	-5.9	1.2
Clay products \$000	12 898.7	17 874.7	47 756.4	12 149.9	22 210.6	53 722.0	24.3	82.8	12.5
Gypsum	662.9	620.7 ^r	2 605.7 ^r	722.9 ^r	645.7	2 511.2	4.0	-10.7	-3.6
Potash K ₂ O	781.2	861.7	3 010.4 ^r	743.6	811.4	2 667.4	-5.8	9.1	-11.4
Cement	831.5	949.7 ^r	2 762.9 ^r	735.5	..	..	..	..	..
Lime	199.8	211.1 ^r	793.3 ^r	226.6 ^r	207.2	849.3	-1.8	-8.6	7.1
Salt	671.0	747.5	3 283.7	803.2	732.2	3 590.1	-2.0	-8.8	9.3
Fuels									
Coal	6 277.0	5 782.1 ^r	24 005.8 ^r	6 339.9	..	..	..	..	..
Natural gas million m ³	10 083.0	9 036.0 ^r	41 005.0 ^r	..	..	..	..	..	..
Crude oil and equivalent 000 m ³	8 585.0	8 007.0 ^r	32 705.0 ^r	..	..	..	..	..	..

¹ Tonnes uranium (1 tonne U = 1.2999 short tons U₃O₈).

^r Revised; .. Not available.

Note: Percentage changes are calculated on the basis of actual production figures as opposed to the rounded figures as shown.

TABLE 2. CANADA, REAL GROSS DOMESTIC PRODUCT AT FACTOR COST BY INDUSTRY, IN 1981 PRICES, MONTHLY (SEASONALLY ADJUSTED AT ANNUAL RATES)

Industry Sector	1988	1989		Percentage Change April 1989 April 1988	
	April	February	March		April
	(\$ million)				
Total Economy	392 969.6	404 187.6	403 136.9	405 225.0	3.1
Primary Industries					
Agriculture	10 177.3	11 052.0	11 001.6	11 002.8	8.1
Forestry	2 912.0	2 868.0	2 809.2	2 812.8	-3.4
Fishing and Trapping	707.2	522.0	518.4	523.2	-26.0
Mines, Quarries and Oil Wells	23 572.5	23 337.9	23 158.1	23 889.9	1.3
Mining Industries	8 419.5	8 576.4	8 599.2	8 652.0	2.8
Gold Mines	1 499.2	1 732.8	1 748.4	1 754.4	17.0
Iron Mines	622.2	663.6	658.8	720.0	15.7
Other Metal Mines	4 065.4	3 949.2	3 934.8	3 940.8	-3.1
Nonmetal Mines	812.2	805.2	813.6	823.2	1.4
Asbestos Mines	160.8	204.0	178.8	176.4	9.7
Mineral Fuels					
Coal Mines	1 134.6	1 112.4	1 143.6	1 119.6	-1.3
Crude Petroleum and Natural Gas	13 510.0	13 457.5	13 271.6	13 893.8	2.8
Secondary Industries					
Manufacturing	77 215.2	79 064.8	78 755.1	79 396.1	2.8
Non-durable Manufacturing	32 986.5	33 574.7	33 329.0	33 577.4	1.8
Durable Manufacturing	44 228.7	45 490.1	45 426.1	45 818.7	3.6
Primary Metal Industries	6 352.2	6 226.1	6 243.4	6 336.6	-0.2
Primary Steel Industries	2 593.4	2 510.4	2 616.0	2 635.2	1.6
Steel, Pipe and Tube Industry	406.4	276.0	307.2	337.2	-17.0
Iron Foundries	368.9	359.5	356.2	341.8	-7.3
Smelting and Refining	2 263.3	2 348.4	2 220.0	2 299.2	1.6
Nonmetallic Mineral Products	2 430.7	2 485.0	2 430.2	2 470.4	1.6
Clay Products Industry	82.5	89.1	88.2	88.2	6.9
Cement Industry	335.8	332.4	327.6	330.0	-1.7
Ready-mix Concrete Industry	458.1	492.1	478.4	470.9	2.8
Construction Industry	27 702.7	29 914.8	29 949.6	30 060.0	8.5
Transportation and Storage	18 089.4	18 300.0	18 340.8	18 362.4	1.5
Communications	11 835.8	12 916.8	13 028.4	13 143.6	11.0
Other Utilities	11 394.0	11 576.4	11 480.4	11 496.0	0.9
Wholesale Trade	22 215.0	22 672.8	22 518.0	22 539.6	1.5
Retail Trade	25 216.4	26 000.1	25 798.4	26 298.3	4.3
Finance, Insurance and Real Estate	57 572.2	59 811.0	59 495.3	59 380.8	3.1
Community, Business and Personal Service	40 264.0	41 259.8	41 355.2	41 383.9	2.8

TABLE 3. METAL PRICES - 1989

	March	April	May
Copper			
Electrolytic, U.S. producer f.o.b. refinery, cents (U.S.)	152.528	140.720	125.746
Electrolytic, COMEX, 1st pos. plus 5¢, cents (C.)	147.880	141.580	125.725
Electrolytic, LME Grade A Settlement, cents (U.S.)	148.059	141.426	124.238
Lead			
New York, cents (U.S.)	35.000	35.000	36.200
Montreal, cents (C.)	42.000	42.000	42.800
LME cash, cents (U.S.)	26.693	27.599	29.146
Silver			
New York, cents (U.S.) per troy oz.	593.162	579.075	544.705
Toronto, cents (C.) per troy oz.	733.100	713.950	675.557
LME cash, cents (U.S.) per troy oz.	591.607	572.938	541.488
Zinc			
St. Louis, H.G., cents (U.S.)	93.710	88.065	84.644
Montreal, Electrolytic, cents (C.)	113.000	104.000	101.000
LME cash, cents (U.S.)	88.893	74.430	73.778
Tin			
New York, dealers, cents (U.S.)	407.750	471.000	473.278
Metals Week, composite, cents (U.S.)	543.087	623.632	621.182
Gold			
London, p.m., US\$ per troy oz.	390.150	382.770	371.045
Mercury			
New York, dealers, US\$ per flask	312.391	295.000	295.000
Nickel			
New York, dealers, cathode (U.S.)	7.715	6.745	6.102
LME cash, US\$	7.782	6.760	6.103
Antimony			
New York, dealers, cents (U.S.)	100.000	98.000	95.000
Platinum			
New York, refined, US\$ per troy oz.	600.000	600.000	600.000
Cadmium			
New York, dealers, US\$	7.457	7.050	7.005
Aluminum			
LME cash, cents (C.)	112.430	114.468	122.228
LME cash, cents (U.S.)	94.060	96.305	102.480
Cobalt			
Shot/cathode/250 kg., US\$	8.400	8.400	8.400
U.S. spot cathode, US\$	7.500	7.500	7.650
Tungsten			
LMB ore, low, US\$/MTU	55.000	55.000	52.000
Molybdenum			
M.W. dealer oxide, US\$	3.753	3.685	3.676
Uranium			
Nuexco, US\$ U ₃ O ₈	11.200	10.700	10.100

Average U.S. Exchange Rate for March = 1.1953, April = 1.1886, May = 1.1927.

Note: Prices are per pound unless otherwise stated.

Please note: The LME copper price reported since January 1989 is the "LME Grade A Settlement" price and not the "LME Standard Cash" price which is no longer reported by Metals Week.

TABLE 4. CANADA, SOURCE OF ORES HOISTED OR REMOVED FROM SELECTED TYPES OF MINES, 1985-87

Mines	1985			1986			1987		
	Underground	Open-pit	Total	Underground	Open-pit	Total	Underground	Open-pit	Total
	(kilotonnes)								
Nickel-copper-zinc	30 184	86 985	117 169	27 486 ^r	98 812 ^r	126 298 ^r	28 040	102 412	130 452
Iron ore	1 953	92 634	94 587	1 660	86 571	88 231	1 434	85 644	87 077
Coal	3 823	72 844	76 667	3 562	69 174	72 736	4 206	73 245	77 452
Potash	34 843	-	34 843	33 563	-	33 563	34 875	-	34 875
Gold	8 424	3 573	11 997	10 208	3 864	14 072	11 593	3 733	15 326
Silver-lead-zinc	7 183	2 787	9 970	7 118	4 965	12 083	7 321	7 826	15 147
Asbestos	1 488	15 630	17 118	1 212	10 596	11 808	1 089	12 437	13 526
Gypsum	1 100	8 508	9 608	1 324	7 851	9 175	1 435	8 004	9 439
Rock salt	7 101	-	7 101	8 460	-	8 460	7 091	-	7 091
Miscellaneous metals	1 288	2 779	4 067	1 127	7 234	8 361	909	10 878	11 787
Uranium	6 627	555	7 182	6 313	620	6 933	5 716	667	6 383
Miscellaneous nonmetals	130	2 906	3 036	409	2 988	3 397	192	3 372	3 564
Total	104 144	289 201	393 345	102 442^r	292 675^r	395 117^r	103 902	308 217	412 119
Percentage	26.5	73.5	100.0	27.9^r	74.1^r	100.0	25.2	74.8	100.0

^r Revised; - Nil.

Note: Totals may not add due to rounding.

**TABLE 5. CANADA, SOURCE OF MATERIAL HOISTED OR REMOVED FROM
SELECTED TYPES OF MINES, 1986**

	Underground		Open-pit			
	Ore	Waste	Ore	Waste	Overburden	Tailings
	(kilotonnes)					
Nickel-copper-zinc	27 486 ^r	3 964 ^r	98 812 ^r	101 267 ^r	25 036	119 197
Iron ore	1 660	17	86 571	23 705	6 476	53 107
Coal	3 562	..	69 174	..	..	..
Potash	33 563	22	-	-	-	23 376
Gold	10 208	2 068	3 864	7 061	1 897	12 917
Silver-lead-zinc	7 118	643	4 965	11 852	2 439	10 504
Asbestos	1 212	-	10 596	23 774	468	7 935
Gypsum	1 324	59	7 851	2 431	6 013	73
Rock salt	8 460	605	-	-	-	855
Miscellaneous metals	1 127	63	7 234	3 368	-	5 267
Uranium	6 313	348	620	5 845	1 121	7 058
Miscellaneous nonmetals	409	2	2 988	700	116	427
Total	102 442^r	7 791^r	292 675^r	180 003^r	43 566	240 716

- Nil; .. Not available; ^r Revised.

Note: Totals may not add due to rounding.

**TABLE 6. CANADA, SOURCE OF MATERIAL HOISTED OR REMOVED FROM
SELECTED TYPES OF MINES, 1987**

	Underground		Open-pit			
	Ore	Waste	Ore	Waste	Overburden	Tailings
	(kilotonnes)					
Nickel-copper-zinc	28 040	3 974	102 412	104 688	2 943	121 501
Iron ore	1 434	3	85 644	12 831	5 373	51 469
Coal	4 206	..	73 245	..	..	..
Potash	34 875	16	-	-	-	22 798
Gold	11 593	3 565	3 733	11 330	30	14 869
Silver-lead-zinc	7 321	317	7 826	5 255	-	124 845
Asbestos	1 089	-	12 437	28 533	2 858	7 071
Gypsum	1 435	56	8 004	1 743	5 232	576
Rock salt	7 091	595	-	-	-	886
Miscellaneous metals	909	26	10 878	6 352	-	8 710
Uranium	5 716	259	667	5 630	3 310	6 399
Miscellaneous nonmetals	192	39	3 372	730	185	584
Total	103 902	8 812	308 217	177 092	19 930	359 709

- Nil; .. Not available.

Note: Totals may not add due to rounding.

TABLE 7. CANADA, ORE MINED AND ROCK QUARRIED IN THE MINING INDUSTRY, 1958-87

	Metals	Industrial ¹	Coal	Total
	(million tonnes)			
1958	71.4	71.2		142.6
1959	89.9	82.2		172.1
1960	92.1	88.7		180.8
1961	90.1	96.7		186.8
1962	103.6	103.8		207.4
1963	112.7	120.4		233.1
1964	128.0	134.1		262.1
1965	151.0	146.5		297.5
1966	147.6	171.8		319.4
1967	169.1	177.5		346.6
1968	186.9	172.7		359.6
1969	172.0	178.8		350.8
1970	213.0	179.1		392.1
1971	211.5	185.8		397.3
1972	206.0	189.7		395.7
1973	274.9	162.6		437.4
1974	278.7	178.8		457.5
1975	264.2	158.7		422.9
1976	296.5	167.1		463.6
1977	299.5	205.2	33.8	538.5
1978	248.1	205.5	36.3	489.9
1979	274.8	200.1	39.8	514.6
1980	290.1	193.5	43.9	527.5
1981	301.5	172.5	48.2	522.2
1982	238.4	121.2	53.0	412.5
1983	219.0	137.0	54.8	410.8 ^r
1984	246.4	167.8	71.2	485.4
1985	245.0	171.9	76.7	493.6
1986	256.0 ^r	194.2	72.7	522.9 ^r
1987	266.2	213.1	77.5	556.8

¹ Includes nonmetallic mineral mining and all stone quarried, including stone used to make cement and lime. From 1979 onwards, coverage includes miscellaneous nonmetal mines previously excluded.

^r Revised.

Note: Totals may not add due to rounding.

TABLE 8. CANADA, ORE MINED AND ROCK QUARRIED IN THE MINING INDUSTRY, 1981-87

	1981	1982	1983	1984	1985	1986	1987
	(kilotonnes)						
Metals							
Nickel-copper-zinc	137 709	117 833	116 532	124 682	117 169	126 298 ^r	130 452
Iron	118 579	81 963	74 597	89 210	94 587	88 231	87 077
Gold	6 810	8 368	9 553	11 225	11 997	14 072	15 326
Silver-lead-zinc	15 964	14 113	9 157	10 084	9 970	12 083	15 147
Miscellaneous metals	15 014	8 477	2 133	3 627	4 067	8 361	11 787
Uranium	7 454	7 608	7 073	7 608	7 182	6 933	6 383
Total	301 530	238 362	219 045	246 436	244 972	255 978^r	266 172
Nonmetals							
Potash	30 344	16 946	24 222	36 542	34 843	33 563	34 875
Asbestos	25 664	17 493	15 035	15 726	17 118	11 808	13 526
Gypsum	6 220	5 830	7 540	8 869	9 608	9 175	9 439
Rock salt	4 927	5 723	5 996	6 706	7 101	8 460	7 091
Miscellaneous nonmetals	2 788	1 995	2 922 ^r	3 825	3 036	3 397	3 564
Total	69 943	47 987	55 715^r	71 668	71 706	66 403	68 496
Structural materials							
Stone, all kinds quarried ¹	86 860	59 181	67 651	81 754	86 632	112 693	128 969
Stone used to make cement	14 047	10 593	10 154	10 101	8 467	11 535	12 752
Stone used to make lime	1 626	3 411	3 446	4 260	5 137	3 556	2 925
Total	102 533	73 185	81 251	96 115	100 236	127 784	144 646
Fuels							
Coal	48 237	52 979	54 817	71 207	76 667	72 736	77 452
Total ore mined and rock quarried	522 243	412 513	410 828^r	485 426	493 581	522 901^r	556 765

¹ Excludes stone used to manufacture cement and lime in Canada.

^r Revised.

Note: Totals may not add due to rounding.

TABLE 9. CANADA, DIAMOND DRILLING IN THE MINING INDUSTRY BY MINING COMPANIES WITH OWN EQUIPMENT AND BY DRILLING CONTRACTORS, 1985-87

		1985			1986			1987		
		Exploration	Other	Total	Exploration	Other	Total	Exploration	Other	Total
		(metres)								
Metal mines										
Gold	Own equipment	51 906	22 642	74 548	50 003	161 919	211 922	36 101	49 276	85 377
	Contractors	349 405	5 612	355 017	553 141	9 833	562 974	565 311	-	565 311
	Total	401 311	28 254	429 565	603 144	171 752	774 896	601 412	49 276	650 688
Nickel-copper-zinc	Own equipment	228 851	-	228 851	185 156	11 568	196 724	154 123	-	154 123
	Contractors	246 731	-	246 731	237 601	-	237 601	349 386	-	349 386
	Total	475 582	-	475 582	422 757	11 568	434 325	503 509	-	503 509
Iron mines	Own equipment	-	203 876	203 876	15 000	199 336	214 336	15 000	226 782	241 782
	Contractors	5 295	-	5 295	3 900	-	3 900	6 771	-	6 771
	Total	5 295	203 876	209 171	18 900	199 336	218 236	21 771	226 782	248 553
Silver-lead-zinc	Own equipment	60 074	3 983	64 057	59 334	6 000	65 334	54 667	-	54 667
	Contractors	88 345	290	88 635	98 422	-	98 422	70 624	-	70 624
	Total	148 419	4 273	152 692	157 756	6 000	163 756	125 291	-	125 291
Uranium	Own equipment	41 659	-	41 659	37 661	-	37 661	30 619	49 485	80 104
	Contractors	12 827	-	12 827	233	-	233	11 718	-	11 718
	Total	54 486	-	54 486	37 894	-	37 894	42 337	49 485	91 822
Miscellaneous metal mining	Own equipment	-	-	-	-	-	-	-	-	-
	Contractors	22 707	400	23 107	22 512	-	22 512	18 636	-	18 636
	Total	22 707	400	23 107	22 512	-	22 512	18 636	-	18 636
Total metal mining	Own equipment	382 490	230 501	612 991	347 154	378 823	725 977	290 510	325 543	616 053
	Contractors	725 310	6 302	731 612	915 809	9 833	925 642	1 022 446	-	1 022 446
	Total	1 107 800	236 803	1 344 603	1 262 963	388 656	1 651 619	1 312 956	325 543	1 638 499
Nonmetal mines										
Gypsum	Own equipment	-	-	-	-	-	-	-	-	-
	Contractors	521	2 183	2 704	4 632	9 144	13 776	-	2 438	2 438
	Total	521	2 183	2 704	4 632	9 144	13 776	-	2 438	2 438
Other nonmetal mines	Own equipment	8 334 ^r	-	8 334	1 710	-	1 710	-	-	-
	Contractors	3 064	-	3 064	1 430	4 ^r	1 434 ^r	2 154	-	2 154
	Total	11 398 ^r	-	11 398	3 140	4 ^r	3 144 ^r	2 154	-	2 154
Asbestos	Own equipment	-	-	-	-	-	-	-	-	-
	Contractors	5 160	-	5 160	2 851	-	2 851	1 864	-	1 864
	Total	5 160	-	5 160	2 851	-	2 851	1 864	-	1 864
Potash	Own equipment	3 139	-	3 139	-	-	-	18 100	-	18 100
	Contractors	-	-	-	-	-	-	3 437	-	3 437
	Total	3 139	-	3 139	-	-	-	21 537	-	21 537
Total nonmetal mining	Own equipment	11 473	-	11 473	1 710	-	1 710	18 100	-	18 100
	Contractors	8 745	2 183	10 928	8 913	9 148 ^r	18 061 ^r	7 455	2 438	9 893
	Total	20 218	2 183	22 401	10 623	9 148 ^r	19 771 ^r	25 555	2 438	27 993
Total mining industry	Own equipment	393 963	230 501	624 464	348 864	378 823	727 687	308 610	325 543	634 153
	Contractors	734 055	8 485	742 540	924 722	18 981 ^r	943 703 ^r	1 029 901	2 438	1 032 339
	Total	1 128 018	238 986	1 367 004	1 273 586	397 804 ^r	1 671 390 ^r	1 338 511	327 981	1 666 492

^r Revised; - Nil

Note: Totals may not add due to rounding

TABLE 10. CANADA, TOTAL DIAMOND DRILLING, METAL DEPOSITS, 1958-87

	Gold Deposits	Copper-zinc and Nickel-copper Deposits	Silver-lead- zinc Deposits	Other Metal Bearing Deposits ¹	Total Metal Deposits
			(metres)		
1958	546 861	923 026	297 792	286 970	2 054 649
1959	558 160	1 110 664	282 088	383 471	2 334 383
1960	628 016	1 267 792	226 027	315 067	2 436 902
1961	595 180	1 128 091	255 101	221 079	2 199 451
1962	902 288	1 025 048	350 180	358 679	2 636 195
1963	529 958	977 257	288 204	148 703	1 944 122
1964	458 933	709 588	401 099	104 738	1 674 358
1965	440 020	779 536	331 294	275 917	1 826 767
1966	442 447	729 148	292 223	164 253	1 628 071
1967	391 347	947 955	230 182	120 350	1 689 834
1968	375 263	935 716	198 038	56 780	1 565 797
1969	274 410	923 452	197 670	109 592	1 505 124
1970	214 717	1 132 915	375 019	99 373	1 822 024
1971	193 291	1 089 103	308 798	83 851	1 675 043
1972	229 771	967 640	240 195	50 225	1 487 831
1973	243 708	713 134	185 946	57 730	1 200 518
1974	250 248	798 564	197 322	83 484	1 329 618
1975	216 158	532 991	184 203	97 971	1 031 323
1976	156 030	507 620	166 366	97 735	927 751
1977	175 643	515 780	213 279	124 329	2 039 031
1978	209 335	346 722	490 489	135 197	1 181 743
1979	198 955	437 562	131 032	150 018	917 567
1980	187 635	566 610	259 877	173 945	1 188 067
1981	306 197	675 712	478 754	170 369	1 631 032
1982	288 421	386 940	424 218	164 742	1 264 321
1983	352 218	512 745	269 659	97 661	1 232 283
1984	406 060	830 536	273 238 ^r	281 661	1 791 495 ^r
1985	429 565	475 582	152 692	286 764	1 344 603
1986	774 896	434 325	163 756	278 642	1 651 619
1987	650 688	503 509	125 291	359 011	1 638 499

¹ Includes iron, titanium, uranium, molybdenum and other metal deposits.

^r Revised.

TABLE 11. CANADA, EXPLORATION DIAMOND DRILLING, METAL DEPOSITS, 1958-87

	Mining Companies with Own Personnel and Equipment	Diamond Drill Contractors	Total
	(metres)		
1958	237 133	1 200 625	1 437 758
1959	239 786	1 367 061	1 606 847
1960	268 381	1 409 416	1 677 797
1961	302 696	1 337 173	1 639 869
1962	167 214	1 748 023	1 915 237
1963	361 180	1 169 292	1 530 472
1964	143 013	1 072 985	1 215 998
1965	209 002	1 176 996	1 385 998
1966	163 379	1 044 860	1 208 239
1967	93 164	1 123 137	1 216 301
1968	159 341	990 690	1 150 031
1969	135 311	1 072 328	1 207 639
1970	62 147	1 228 061	1 290 208
1971	86 838	1 053 330	1 140 168
1972	251 651	839 753	1 091 404
1973	321 333	742 899	1 064 232
1974	357 823	892 557	1 250 380
1975	346 770	618 161	964 931
1976	335 919	532 036	867 955
1977	327 241	638 327	965 568
1978	237 250	534 557	771 807
1979	311 221	571 721	882 942
1980	347 829	747 566	1 095 395
1981	460 687	917 566	1 378 253
1982	289 901	713 413	1 003 314
1983	324 383	707 343	1 031 726
1984	357 680	936 459	1 294 139
1985	382 490	725 310	1 107 800
1986	347 154	915 809	1 262 963
1987	290 510	1 022 446	1 312 956

TABLE 12. CANADA, DIAMOND DRILLING, OTHER THAN FOR EXPLORATION, METAL DEPOSITS, 1958-87

	Mining Companies with Own Personnel and Equipment	Diamond Drill Contractors	Total
	(metres)		
1958	444 376	172 516	616 892
1959	488 783	238 753	727 536
1960	450 246	308 860	759 106
1961	384 432	175 149	559 581
1962	528 700	192 259	720 959
1963	388 228	25 422	413 650
1964	385 765	72 594	458 359
1965	393 947	46 822	440 769
1966	227 968	191 863	419 831
1967	186 463	287 071	473 534
1968	122 851	292 914	415 765
1969	87 552	209 933	297 485
1970	290 363	241 453	531 816
1971	295 966	238 910	534 876
1972	304 523	91 903	396 426
1973	77 162	59 124	136 286
1974	54 353	24 885	79 238
1975	31 917	34 475	66 392
1976	31 413	28 383	59 796
1977	24 303	39 160	63 463
1978	351 344	58 592	409 936
1979	4 090	30 535	34 625
1980	20 545	72 127	92 672
1981	200 898	51 881	252 779
1982	188 674	72 333	261 007
1983	81 138	119 419	200 557
1984	492 939 ^r	4 417	497 356 ^r
1985	230 501	6 302	236 803
1986	378 823	9 833	388 656
1987	325 543	-	325 543

^r Revised; - Nil.

Note: Nonproducing companies excluded since 1964.

TABLE 13. CANADA, FINANCIAL STATISTICS OF CORPORATIONS IN THE MINING INDUSTRY¹ BY DEGREE OF NON-RESIDENT OWNERSHIP, 1985^r

	Corporations ²		Assets ³		Equity ⁴		Sales ⁵		Profits ⁶		Taxable Income ⁷	
	(number)	(%)	(\$ million)	(%)	(\$ million)	(%)	(\$ million)	(%)	(\$ million)	(%)	(\$ million)	(%)
Metal mines												
Reporting corporations												
Canadian	197	84.9	21 438	80.4	10 257	82.3	7 120	70.4	114	115.2	247	66.4
Foreign	35	15.1	5 218	19.6	2 211	17.7	2 993	29.6	-15	-15.2	125	33.6
Total	232	100.0	26 656	100.0	12 468	100.0	10 113	100.0	99	100.0	372	100.0
Mineral fuels												
Reporting corporations												
Canadian	2 313	91.4	51 932	62.4	19 856	57.1	13 574	42.1	3 058	32.4	1 329	20.3
Foreign	219	8.6	31 291	37.6	14 900	42.9	18 703	57.9	6 370	67.6	5 216	79.7
Total	2 532	100.0	83 223	100.0	34 756	100.0	32 277	100.0	9 428	100.0	6 545	100.0
Other mining (including mining services)												
Reporting corporations												
Canadian	5 047	96.3	8 946	73.9	3 949	75.7	4 182	69.2	-57	50.0	239	50.1
Foreign	195	3.7	3 167	26.1	1 271	24.3	1 860	30.8	-57	50.0	238	49.9
Total	5 242	100.0	12 113	100.0	5 220	100.0	6 042	100.0	-114	100.0	477	100.0
Total mining												
Reporting corporations												
Canadian	7 557	94.4	82 316	67.5	34 062	64.9	24 876	51.4	3 115	33.1	1 815	24.5
Foreign	449	5.6	39 676	32.5	18 382	35.1	23 556	48.6	6 298	66.9	5 579	75.5
Total	8 006	100.0	121 992	100.0	52 444	100.0	48 432	100.0	9 413	100.0	7 394	100.0

¹ Cement, lime and clay products (domestic clay) are included in mineral manufacturing industries. ² Corporations reporting under the Corporations and Labour Unions Returns Act. A corporation is considered to be foreign controlled if 50% or more of its voting rights are known to be held outside Canada, and/or by one or more Canadian corporations which are, in turn, foreign controlled. Each corporation is classified according to the percentage of its voting rights which are owned by non-residents, either directly or through other Canadian corporations, and the whole of the corporation is assigned to this particular degree of foreign ownership. ³ Included are cash, marketable securities, accounts receivable, inventories, fixed assets, investments in affiliated corporations and other assets. The amounts tabulated are those shown on the balance sheets of corporations after deducting allowances for doubtful accounts, amortization, depletion and depreciation. ⁴ Equity represents the shareholders' interest in the net assets of the corporation and includes the total amount of all issued and paid-up share capital, earnings retained in the business and other surplus accounts such as contributed and capital surplus. ⁵ For nonfinancial corporations, sales are gross revenues from nonfinancial operations. For financial corporations, sales include income from financial as well as nonfinancial sources. ⁶ The net earnings from operations, investment income and net capital gains. Profits are tabulated after deducting allowances for amortization, depletion and depreciation, but before income tax provisions or declaration of dividends. ⁷ Taxable income figures are as reported by corporations prior to assessment by the Department of National Revenue. They include earnings in the reference year after the deduction of applicable losses of other years.

^r Revised.

Note: Totals may not add due to rounding.

TABLE 14. CANADA, FINANCIAL STATISTICS OF CORPORATIONS IN THE MINING INDUSTRY¹ BY DEGREE OF NON-RESIDENT OWNERSHIP, 1986P

	Corporations ²		Assets ³		Equity ⁴		Sales ⁵		Profits ⁶		Taxable Income ⁷	
	(number)	(%)	(\$ million)	(%)	(\$ million)	(%)	(\$ million)	(%)	(\$ million)	(%)	(\$ million)	(%)
Metal mines												
Reporting corporations												
Canadian	172	83.5	23 333	82.1	11 082	83.1	6 669	70.5	207	48.7	156	61.9
Foreign	34	16.5	5 096	17.9	2 252	16.9	2 791	29.5	218	51.3	96	38.1
Total	206	100.0	28 429	100.0	13 334	100.0	9 460	100.0	425	100.0	252	100.0
Mineral fuels												
Reporting corporations												
Canadian	2 343	91.6	46 533	63.0	16 913	56.6	9 840	49.7	-3 295	161.8	560	29.5
Foreign	216	8.4	27 382	37.0	12 966	43.4	9 961	50.3	1 259	-61.8	1 341	70.5
Total	2 559	100.0	73 915	100.0	29 879	100.0	19 801	100.0	-2 036	100.0	1 901	100.0
Other mining (including mining services)												
Reporting corporations												
Canadian	5 124	97.1	8 523	74.8	3 846	75.2	4 075	76.4	-441	81.4	186	60.8
Foreign	152	2.9	2 876	25.2	1 267	24.8	1 262	23.6	-101	18.6	120	39.2
Total	5 276	100.0	11 399	100.0	5 113	100.0	5 337	100.0	-542	100.0	306	100.0
Total mining												
Reporting corporations												
Canadian	7 639	95.0	78 389	68.9	31 841	65.9	20 584	59.5	-3 529	163.9	902	36.7
Foreign	402	5.0	35 354	31.1	16 485	34.1	14 014	40.5	1 376	-63.9	1 557	63.3
Total	8 041	100.0	113 743	100.0	48 326	100.0	34 598	100.0	-2 153	100.0	2 459	100.0

¹ Cement, lime and clay products (domestic clay) are included in mineral manufacturing industries. ² Corporations reporting under the Corporations and Labour Unions Returns Act. A corporation is considered to be foreign controlled if 50% or more of its voting rights are known to be held outside Canada, and/or by one or more Canadian corporations which are, in turn, foreign controlled. Each corporation is classified according to the percentage of its voting rights which are owned by non-residents, either directly or through other Canadian corporations, and the whole of the corporation is assigned to this particular degree of foreign ownership. ³ Included are cash, marketable securities, accounts receivable, inventories, fixed assets, investments in affiliated corporations and other assets. The amounts tabulated are those shown on the balance sheets of corporations after deducting allowances for doubtful accounts, amortization, depletion and depreciation. ⁴ Equity represents the shareholders' interest in the net assets of the corporation and includes the total amount of all issued and paid-up share capital, earnings retained in the business and other surplus accounts such as contributed and capital surplus. ⁵ For nonfinancial corporations, sales are gross revenues from nonfinancial operations. For financial corporations, sales include income from financial as well as nonfinancial sources. ⁶ The net earnings from operations, investment income and net capital gains. Profits are tabulated after deducting allowances for amortization, depletion and depreciation, but before income tax provisions or declaration of dividends. ⁷ Taxable income figures are as reported by corporations prior to assessment by the Department of National Revenue. They include earnings in the reference year after the deduction of applicable losses of other years.

P Preliminary.

Note: Totals may not add due to rounding.

TABLE 15. CANADA, FINANCIAL STATISTICS OF CORPORATIONS IN THE MINERAL MANUFACTURING INDUSTRIES¹ BY DEGREE OF NON-RESIDENT OWNERSHIP, 1985^r

	Corporations ²		Assets ³		Equity ⁴		Sales ⁵		Profits ⁶		Taxable Income ⁷	
	(number)	(%)	(\$ million)	(%)	(\$ million)	(%)	(\$ million)	(%)	(\$ million)	(%)	(\$ million)	(%)
Primary metal products												
Reporting corporations												
Canadian	386	90.4	14 291	80.5	6 162	84.2	11 879	83.2	90	54.5	368	79.5
Foreign	41	9.6	3 457	19.5	1 158	15.8	2 396	16.8	75	45.5	95	20.5
Total	427	100.0	17 748	100.0	7 320	100.0	14 275	100.0	165	100.0	463	100.0
Nonmetallic mineral products												
Reporting corporations												
Canadian	1 541	95.4	2 351	28.6	926	21.9	3 000	44.3	211	28.0	189	39.2
Foreign	74	4.6	5 856	71.4	3 303	78.1	3 769	55.7	543	72.0	293	60.8
Total	1 615	100.0	8 207	100.0	4 229	100.0	6 769	100.0	754	100.0	482	100.0
Petroleum and coal products												
Reporting corporations												
Canadian	111	82.8	22 816	58.5	9 031	48.4	16 589	44.7	418	26.4	554	64.8
Foreign	23	17.2	16 218	41.5	9 621	51.6	20 500	55.3	1 166	73.6	301	35.2
Total	134	100.0	39 034	100.0	18 652	100.0	37 089	100.0	1 584	100.0	855	100.0
Total mineral manufacturing industries												
Reporting corporations												
Canadian	2 038	93.7	39 458	60.7	16 119	53.4	31 468	54.1	719	28.7	1 111	61.7
Foreign	138	6.3	25 531	39.3	14 082	46.6	26 665	45.9	1 784	71.3	689	38.3
Total	2 176	100.0	64 989	100.0	30 201	100.0	58 133	100.0	2 503	100.0	1 800	100.0

¹ Includes cement, lime and clay products (domestic clay). ² Corporations reporting under the Corporations and Labour Unions Returns Act. A corporation is considered to be foreign controlled if 50% or more of its voting rights are known to be held outside Canada, and/or by one or more Canadian corporations which are, in turn, foreign controlled. Each corporation is classified according to the percentage of its voting rights which are owned by non-residents, either directly or through other Canadian corporations, and the whole of the corporation is assigned to this particular degree of foreign ownership. ³ Included are cash, marketable securities, accounts receivable, inventories, fixed assets, investments in affiliated corporations and other assets. The amounts tabulated are those shown on the balance sheets of corporations after deducting allowances for doubtful accounts, amortization, depletion and depreciation. ⁴ Equity represents the shareholders' interest in the net assets of the corporation and includes the total amount of all issued and paid-up share capital, earnings retained in the business and other surplus accounts such as contributed and capital surplus. ⁵ For nonfinancial corporations, sales are gross revenues from nonfinancial operations. For financial corporations, sales include income from financial as well as nonfinancial sources. ⁶ The net earnings from operations, investment income and net capital gains. Profits are tabulated after deducting allowances for amortization, depletion and depreciation, but before income tax provisions or declaration of dividends. ⁷ Taxable income figures are as reported by corporations prior to assessment by the Department of National Revenue. They include earnings in the reference year after the deduction of applicable losses of other years.

^r Revised.

Note: Totals may not add due to rounding.

TABLE 16. CANADA, FINANCIAL STATISTICS OF CORPORATIONS IN THE MINERAL MANUFACTURING INDUSTRIES¹ BY DEGREE OF NON-RESIDENT OWNERSHIP, 1986^P

	Corporations ²		Assets ³		Equity ⁴		Sales ⁵		Profits ⁶		Taxable Income ⁷	
	(number)	(%)	(\$ million)	(%)	(\$ million)	(%)	(\$ million)	(%)	(\$ million)	(%)	(\$ million)	(%)
Primary metal products												
Reporting corporations												
Canadian	411	92.6	14 669	80.1	6 734	86.1	11 901	82.5	584	80.9	260	66.0
Foreign	33	7.4	3 635	19.9	1 083	13.9	2 530	17.5	138	19.1	134	34.0
Total	444	100.0	18 304	100.0	7 817	100.0	14 431	100.0	722	100.0	394	100.0
Nonmetallic mineral products												
Reporting corporations												
Canadian	1 535	95.3	2 510	32.3	990	28.9	3 268	47.9	275	52.5	252	40.6
Foreign	75	4.7	5 272	67.7	2 434	71.1	3 557	52.1	249	47.5	369	59.4
Total	1 610	100.0	7 782	100.0	3 424	100.0	6 825	100.0	524	100.0	621	100.0
Petroleum and coal products												
Reporting corporations												
Canadian	110	82.7	18 205	47.3	8 796	41.1	9 510	33.3	2 474	63.8	209	27.4
Foreign	23	17.3	20 263	52.7	12 614	58.9	19 026	66.7	1 401	36.2	554	72.6
Total	133	100.0	38 468	100.0	21 410	100.0	28 536	100.0	3 875	100.0	763	100.0
Total mineral manufacturing industries												
Reporting corporations												
Canadian	2 056	94.0	35 384	54.8	16 520	50.6	24 679	49.6	3 333	65.1	721	40.6
Foreign	131	6.0	29 170	45.2	16 131	49.4	25 113	50.4	1 788	34.9	1 057	59.4
Total	2 187	100.0	64 554	100.0	32 651	100.0	49 792	100.0	5 121	100.0	1 778	100.0

¹ Includes cement, lime and clay products (domestic clay). ² Corporations reporting under the Corporations and Labour Unions Returns Act. A corporation is considered to be foreign controlled if 50% or more of its voting rights are known to be held outside Canada, and/or by one or more Canadian corporations which are, in turn, foreign controlled. Each corporation is classified according to the percentage of its voting rights which are owned by non-residents, either directly or through other Canadian corporations, and the whole of the corporation is assigned to this particular degree of foreign ownership. ³ Included are cash, marketable securities, accounts receivable, inventories, fixed assets, investments in affiliated corporations and other assets. The amounts tabulated are those shown on the balance sheets of corporations after deducting allowances for doubtful accounts, amortization, depletion and depreciation. ⁴ Equity represents the shareholders' interest in the net assets of the corporation and includes the total amount of all issued and paid-up share capital, earnings retained in the business and other surplus accounts such as contributed and capital surplus. ⁵ For nonfinancial corporations, sales are gross revenues from nonfinancial operations. For financial corporations, sales include income from financial as well as nonfinancial sources. ⁶ The net earnings from operations, investment income and net capital gains. Profits are tabulated after deducting allowances for amortization, depletion and depreciation, but before income tax provisions or declaration of dividends. ⁷ Taxable income figures are as reported by corporations prior to assessment by the Department of National Revenue. They include earnings in the reference year after the deduction of applicable losses of other years.

^P Preliminary.

Note: Totals may not add due to rounding.

TABLE 17. CANADA, FINANCIAL STATISTICS OF CORPORATIONS IN NONFINANCIAL INDUSTRIES BY MAJOR INDUSTRY GROUP AND BY CONTROL, 1985 AND 1986

	Agriculture, Forestry, Fishing and Trapping		Mines, Quarries and Oil Wells		Manufacturing		Construction		Transportation, Communication and Other Utilities		Trade		Services		Total	
	1985	1986 ^P	1985	1986 ^P	1985	1986 ^P	1985	1986 ^P	1985	1986 ^P	1985	1986 ^P	1985	1986 ^P	1985	1986 ^P
	(number)															
Corporations¹																
Canadian Control	23 293	23 842	7 557	7 639	40 792	41 384	60 150	62 046	25 105	26 208	136 339	138 995	123 293	128 328	416 529	428 442
Foreign Control	83	80	449	402	1 899	1 777	145	145	265	237	1 745	1 624	672	597	5 258	4 862
Total	23 376	23 922	8 006	8 041	42 691	43 161	60 295	62 191	25 370	26 445	138 084	140 619	123 965	128 925	421 787	433 304
	(\$ million)															
Assets²																
Canadian Control	12 333	13 043	82 316	78 389	127 051	130 204	20 668	22 933	175 495	183 700	92 536	101 682	43 644	47 181	554 043	577 132
Foreign Control	430	395	39 675	35 354	90 517	101 314	1 800	1 746	6 139	5 906	23 255	24 620	7 716	9 079	169 532	178 414
Total	12 763	13 438	121 991	113 743	217 568	231 518	22 468	24 679	181 634	189 606	115 791	126 302	51 360	56 260	723 575	755 546
Equity³																
Canadian Control	4 317	4 705	34 061	31 841	48 738	53 540	4 934	5 801	47 895	49 974	26 716	30 789	10 616	11 943	177 277	188 593
Foreign Control	179	219	18 382	16 486	46 843	52 022	652	679	2 165	2 293	8 221	9 401	3 182	4 009	79 624	85 109
Total	4 496	4 924	52 443	48 327	95 581	105 562	5 586	6 480	50 060	52 267	34 937	40 190	13 798	15 952	256 901	273 702
Sales⁴																
Canadian Control	9 652	10 066	24 876	20 583	148 312	150 337	38 950	45 216	79 679	81 095	229 934	250 617	49 278	53 473	580 681	611 387
Foreign Control	280	246	23 556	14 013	140 585	144 636	2 862	2 753	4 565	4 513	56 244	57 458	8 440	8 949	236 532	232 568
Total	9 932	10 312	48 432	34 596	288 897	294 973	41 812	47 969	84 244	85 608	286 178	308 075	57 718	62 422	817 213	843 955
Profits⁵																
Canadian Control	475	560	3 116	-3 529	5 470	9 804	1 292	1 575	5 175	5 714	7 203	8 277	3 350	3 486	26 081	25 887
Foreign Control	51	31	6 297	1 376	8 900	9 455	81	79	573	617	1 514	1 925	1 001	988	18 417	14 471
Total	526	591	9 413	-2 153	14 370	19 259	1 373	1 654	5 748	6 331	8 717	10 202	4 351	4 474	44 498	40 358

¹ Corporations reporting under the Corporations and Labour Unions Returns Act. A corporation is considered to be foreign controlled if 50% or more of its voting rights are known to be held outside Canada, and/or by one or more Canadian corporations which are, in turn, foreign controlled. Each corporation is classified according to the percentage of its voting rights which are owned by non-residents, either directly or through other Canadian corporations, and the whole of the corporation is assigned to this particular degree of foreign ownership. ² Included are cash, marketable securities, accounts receivable, inventories, fixed assets, investments in affiliated corporations and other assets. The amounts tabulated are those shown on the balance sheets of corporations after deducting allowances for doubtful accounts, amortization, depletion and depreciation. ³ Equity represents the shareholders' interest in the net assets of the corporation and includes the total amount of all issued and paid-up share capital, earnings retained in the business and other surplus accounts such as contributed and capital surplus. ⁴ For nonfinancial corporations, sales are gross revenues from nonfinancial operations. For financial corporations, sales include income from financial as well as nonfinancial sources. ⁵ The net earnings from operations, investment income and net capital gains. Profits are tabulated after deducting allowances for amortization, depletion and depreciation, but before income tax provisions or declaration of dividends.

^P Preliminary

Note: Totals may not add due to rounding

TABLE 18. WESTERN WORLD PRODUCTION OF CERTAIN MAJOR METALS, 1984-88¹

	1984	1985	1986	1987	1988
	(000 t)				
Primary Aluminum					
Europe ²	3 814	3 642	3 716	3 748	3 805
Asia ²	1 184	1 153	1 066	952	1 021
Africa	413	473	552	572	597
North and South America	6 367	5 946	5 787	6 388	7 028
Australia and Oceania	998	1 095	1 113	1 276	1 406
Western World Total	12 775	12 308	12 234	12 935	13 857
Lead (refined production)³					
Europe ²	1 595	1 603	1 590	1 614	1 682
Asia ²	510	541	566	583	598
Africa	126	157	145	160	167
North and South America	1 578	1 706	1 584	1 656	1 690
Australia and Oceania	226	222	175	221	185
Western World Total	4 035	4 229	4 059	4 233	4 322
Copper (refined production)					
Europe ²	1 395	1 453	1 488	1 459	1 524
Asia ²	1 328	1 407	1 432	1 469	1 465
Africa	1 005	992	970	987	891
North and South America	3 275	3 307	3 384	3 558	3 931
Australia and Oceania	197	194	185	208	218
Western World Total	7 200	7 353	7 458	7 681	8 029
Zinc (smelter production)					
Europe ²	1 941	1 965	1 987	2 087	2 137
Asia ²	940	1 004	982	1 006	1 060
Africa	221	216	197	187	174
North and South America	1 478	1 518	1 379	1 454	1 541
Australia and Oceania	302	289	303	310	299
Western World Total	4 881	4 992	4 848	5 044	5 210
Tin (smelter production)					
Europe ²	25	26	23	23	25
Asia ²	96	91	90	89	98
Africa	6	6	4	4	5
North and South America	42	44	42	40	56
Australia and Oceania	3	3	1	1	...
Western World Total	172	170	160	156	185

Source: Metallgesellschaft AG, Metallstatistik (preliminary issue) Western World 1984-1988, May 1989.

¹ Preliminary data. ² Excluding Eastern countries. ³ Includes secondary lead.

... Amount too small to be expressed.

Totals may not add due to rounding.

METALLIC MINERALS AND PRODUCTS

Nonferrous and Precious Metals Prices

NONFERROUS AND PRECIOUS METALS PRICES¹

	1980s Extremes				June 1989		
	Low		High		Low	High	Average
	(US\$/lb.)		(US\$/lb.)		(US\$/lb.)		
Aluminum	0.41	03/06/82	1.95	13/06/88	0.82	0.91	0.87
Copper	0.56	18/10/84	1.68	08/12/88	1.10	1.21	1.15
Lead	0.15	18/03/86	0.35	20/05/87	0.28	0.32	0.30
Nickel	1.42	26/11/82	10.84	28/03/88	5.19	5.86	5.52
Zinc	0.25	31/10/85	0.97	02/03/89	0.72	0.82	0.76
	(US\$/troy oz.)		(US\$/troy oz.)		(US\$/troy oz.)		
Gold	285.00	26/02/85	502.75	14/12/87	358.50	376.30	367.73
Silver	4.86	20/05/86	10.92	27/04/87	5.16	5.42	5.28

Source: Nonferrous Division, Mineral Policy Sector.

¹ Prices used are the London Metal Exchange (LME) settlement prices for the nonferrous metals and the London Bullion Market Association (LBMA) morning fix for the precious metals.

Lead

D. Law-West (613) 992-4327

Lead prices remained stronger than expected and the LME price increased from an average of US29.1¢/lb. in May to 30.3¢ this month. North American prices also increased from 36.5¢/lb. to 37.8¢ during the same period. Average prices for the first half of the year were 28.8¢ on the LME and 38.0¢ in North America.

The strength of lead prices reflects the current tightness in the market. Battery manufacturers generally experienced a milder than expected winter, resulting in lower replacement battery demand at that time. However, given the fact that batteries have a finite life, manufacturers are now feeling the delayed demand. In addition, battery manufacturers have increased production in order to cover the summer holiday period. Thus there has been a significant drop in stocks of lead. LME stocks stood at 36 000 t at the end of April compared with 61 000 t at the start of the year.

Original equipment battery demand has been buoyed by increased new car sales reported by the major car manufacturers in both Europe and North America during the first quarter.

The Doe Run Company has reopened its Brushy Creek mine and mill in Missouri. The operation was closed in 1984 as part of the company's rationalization of its operations when lead prices were very weak. The operation will deliver 11 000 t/y of lead in concentrates to the Herculean smelter, which is also owned by Doe Run.

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Canada's International Coal Capabilities

This directory lists the Canadian companies having consulting, engineering, operating and research capabilities and experience that are available to the international community.

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