

Statistical Report

This statistical summary of the Canadian mineral industry has been compiled by staff of the Minerals and Mining Statistics Division, Minerals and Metals Sector, Natural Resources Canada (NRCan), under the general direction of Yvan Gauthier, Director.

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Statistics contained in this summary are obtained from a variety of sources. Principal sources include the statistical survey programs of NRCan, Statistics Canada, and Labour Canada. The statistical survey program of the Minerals and Mining Statistics Division of NRCan is conducted jointly with the provincial governments and Statistics Canada in order to minimize the reporting burden on the mineral industry. The cooperation of the companies providing information is greatly appreciated.

(Note to Reader: We continue to review the tables of this Report in order to establish the requirements of users. We would appreciate your feedback on which tables are important to you. Please contact Laurie Morrison at tel. (613) 992-6767 or e-mail lmorriso@nrca.gc.ca to provide your input.)

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TABLE 1. MINERAL PRODUCTION OF CANADA, 1995-98P

	Unit	1995		1996		1997		1998P		
		(000)	(Quantity)	(\$000)	(Quantity)	(\$000)	(Quantity)	(\$000)	(Quantity)	(\$000)
METALS										
Antimony	kg		574	3 959	1 380	6 084	529	1 610	554	1 301
Bismuth	kg		159	1 815	150	1 598	196	1 956	217	2 431
Cadmium	kg		1 686	9 383	1 540	5 732	1 272	1 991	1 384	1 323
Calcium	kg		x	x	x	x	x	x	x	x
Cesium, pollucite	kg		x	x	x	x	x	x	x	x
Cobalt	kg		2 016	176 921	2 150	164 918	2 168	154 408	2 324	167 696
Columbium (niobium)	kg		x	x	x	x	2 253	x	2 200	x
Copper	kg		700 842	2 818 090	652 499	2 059 285	647 779	2 050 869	688 576	1 693 209
Gold	g		150 867	2 557 502	164 660	2 799 547	171 479	2 527 429	166 089	2 322 417
Ilmenite	t		x	x	x	x	x	x	x	x
Indium	g		x	x	x	x	x	x	x	x
Iron ore	t		36 628	1 291 474	34 400	1 321 727	38 928	1 571 741	38 908	1 584 146
Iron remelt	t		x	x	x	x	x	x	x	x
Lead	kg		204 226	176 656	241 751	254 564	170 847	147 612	151 708	118 029
Lithium	kg		x	x	x	x	x	x	x	x
Magnesium	kg		x	x	x	x	x	x	x	x
Molybdenum	kg		9 113	202 931	8 789	100 196	7 594	87 582	7 563	82 438
Nickel	kg		172 107	2 031 727	182 404	1 920 348	180 624	1 775 898	200 908	1 419 416
Platinum group	g		16 068	181 996	13 934	141 620	11 836	134 242	14 522	222 883
Selenium	kg		561	8 317	694	7 140	592	5 045	384	2 839
Silver	kg		1 245	285 136	1 243	282 510	1 194	260 024	1 115	293 468
Tantalum	kg		40	3 965	67	7 625	60	7 230	74	10 394
Tellurium	kg		102	2 074	59	1 744	59	831	57	860
Uranium	kg		10 238	526 448	11 348	620 880	11 127	553 900	9 984	x
Zinc	kg		1 094 701	1 549 004	1 162 720	1 625 482	1 026 864	1 870 946	987 361	1 486 966
Total metals				12 172 744		11 697 468		11 549 178		10 318 910
NONMETALS										
Asbestos	t		516	234 730	506	256 722	420	214 910	320	167 200
Barite	t		61	6 556	58	6 498	84	7 119	80	7 329
Diamonds	carats		-	-	-	-	-	-	278	53 425
Gemstones	kg		459	1 420	294	684	407	1 482	131	416
Graphite	t		x	x	x	x	x	x	x	x
Gypsum	t		8 055	88 417	8 202	85 415	8 628	95 263	8 095	87 972
Magnesitic dolomite	t		x	x	x	x	x	x	x	x
Marl	t		x	x	x	x	x	x	x	x
Mica	t		x	x	x	x	x	x	x	x
Nepheline syenite	t		617	37 098	606	46 690	648	51 319	617	50 190
Peat	t		886	139 154	901	141 019	1 054	146 404	1 127	169 747
Potash	t		8 855	1 424 344	8 120	1 277 860	9 235	1 528 341	8 969	1 666 978
Potassium sulphate	t		x	x	x	x	x	x	x	x
Pumice	t		x	x	x	x	x	x	x	x
Quartz	t		1 689	38 409	1 558	36 193	1 690	40 198	1 700	40 527
Salt	t		10 957	270 369	12 248	359 818	13 497	405 509	13 192	399 520
Serpentine	t		x	x	x	x	x	x	x	x
Soapstone, talc and pyrophyllite	t		108	16 243	77	15 151	72	14 908	74	15 471
Sodium sulphate	t		315	25 377	323	30 964	285	29 040	277	28 473
Sulphur, elemental	t		7 846	187 685	8 327	83 805	8 272	84 129	8 410	54 321
Sulphur in smelter gas	t		886	62 577	789	57 765	800	59 462	838	58 315
Titanium dioxide	t		x	x	x	x	x	x	x	x
Tremolite	t		x	x	x	x	x	x	-	-
Zeolite	t		x	x	x	x	x	x	x	x
Total nonmetals				2 906 085		2 765 775		3 026 971		3 277 231
MINERAL FUELS										
Coal	t		74 920	1 834 630	75 860	1 936 050	78 670	1 920 150	74 370	1 793 230
Natural gas	000 m ³		148 202	6 830 779	153 578	8 734 860	156 171	10 719 153	161 015	11 195 954
Natural gas by-products	m ³		25 040	1 772 424	26 657	2 838 702	26 427	2 599 598	26 612	1 790 640
Crude oil and equivalent	m ³		114 372	15 321 005	117 621	19 071 725	123 827	17 837 834	128 769	12 990 337
Total fuels				25 758 838		32 581 337		33 076 735		27 770 161
STRUCTURAL MATERIALS										
Clay products	\$		..	95 634	..	110 218	..	136 324	..	135 319
Cement	t		10 440	842 492	11 587	964 380	11 736	1 062 708	12 064	1 126 875
Lime	t		2 462	206 933	2 402	202 579	2 477	213 038	2 514	220 509
Sand and gravel	t		225 991	793 489	213 831	772 590	225 495	829 190	217 650	819 893
Stone	t		98 578	591 255	92 331	592 547	99 265	644 162	95 998	646 198
Total structural materials				2 529 804		2 642 314		2 885 421		2 948 794
Total all minerals				43 367 470		49 686 893		50 538 306		44 315 096

Sources: Natural Resources Canada; Statistics Canada.

- Nil; .. Not available; P Preliminary; x Confidential.

Notes: Numbers may not add to totals due to rounding. Confidential values are included in totals.

TABLE 2. CANADA, VALUE OF MINERAL PRODUCTION, PER CAPITA VALUE OF MINERAL PRODUCTION, AND POPULATION, 1972-98

Year	Value of Mineral Production					Per Capita Value of Mineral Production	Population of Canada
	Metals	Nonmetals	Structural Materials	Fuels	Total		
	(\$ millions)					(\$)	(000)
1972	3 037	514	571	2 368	6 490	291.23	22 285
1973	3 947	615	678	3 227	8 467	375.31	22 560
1974	4 934	896	835	5 202	11 867	518.78	22 875
1975	5 022	939	959	6 653	13 574	584.86	23 209
1976	5 344	1 166	1 107	8 109	15 726	668.68	23 518
1977	6 031	1 363	1 249	9 873	18 516	778.11	23 796
1978	5 746	1 481	1 508	11 578	20 313	845.11	24 036
1979	8 006	1 870	1 646	15 117	26 638	1 097.25	24 277
1980	9 777	2 531	1 624	17 944	31 875	1 296.10	24 593
1981	8 841	2 714	1 777	19 046	32 378	1 300.32	24 900
1982	6 953	2 105	1 736	23 038	33 831	1 342.39	25 202
1983	7 528	2 021	1 836	27 154	38 539	1 513.95	25 456
1984	8 897	2 538	1 955	30 399	43 789	1 703.72	25 702
1985	8 745	2 736	2 128	31 120	44 730	1 724.23	25 942
1986	8 819	2 523	2 341	18 763	32 446	1 238.21	26 204
1987	10 962	2 381	2 744	20 274	36 361	1 369.53	26 550
1988	13 608	2 757	2 817	17 773	36 955	1 374.05	26 895
1989	13 982	2 706	2 860	19 785	39 333	1 436.61	27 379
1990	12 500	2 529	2 760	22 990	40 778	1 467.31	27 791
1991	10 462	2 407	2 376	19 945	35 190	1 251.42	28 120
1992	10 210	2 239	2 234	20 901	35 584	1 246.72	28 542
1993	8 871	2 147	2 312	23 214	36 545	1 262.48	28 947
1994	9 750	2 648	2 544	26 243	41 185	1 418.41	29 036
1995	12 173	2 906	2 530	25 759	43 367	1 477.38	29 354
1996	11 697	2 766	2 642	32 581	49 687	1 674.54	29 672
1997	11 549	3 027	2 885	33 077	50 538	1 683.98	30 011
1998 ^p	10 319	3 277	2 949	27 770	44 315	1 462.49	30 301

Sources: Natural Resources Canada; Statistics Canada.

^p Preliminary.

Notes: Beginning in 1986, bentonite, diatomite and sodium antimonate are reported in industrial minerals. Numbers may not add to totals due to rounding.

TABLE 3. CANADA, VALUE OF MINERAL PRODUCTION BY PROVINCE, TERRITORY AND MINERAL CLASS, 1998P

Province/Territory	Metals		Nonmetals		Structural Materials		Mineral Fuels		Total	
	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)
Alberta	—	—	115 046	3.5	400 975	13.6	21 677 757	78.1	22 193 778	50.1
Ontario	3 272 001	31.7	383 839	11.7	1 337 897	45.4	65 729	0.2	5 059 466	11.4
Saskatchewan	538 566	5.2	1 634 173	49.9	36 022	1.2	2 448 965	8.8	4 657 727	10.5
British Columbia	1 463 590	14.2	49 675	1.5	404 257	13.7	2 568 958	9.3	4 486 481	10.1
Quebec	2 192 194	21.2	711 092	21.7	539 240	18.3	—	—	3 442 526	7.8
Manitoba	825 630	8.0	21 921	0.7	61 481	2.1	76 822	0.3	985 855	2.2
Newfoundland	962 414	9.3	432	...	38 735	1.3	454 876	1.6	1 456 456	3.3
New Brunswick	602 521	5.8	186 457	5.7	40 150	1.4	23 090	0.1	852 218	1.9
Northwest Territories	348 531	3.4	53 425	1.6	4 948	0.2	172 433	0.6	579 338	1.3
Nova Scotia	—	—	119 924	3.7	81 152	2.8	263 836	1.0	464 912	1.0
Yukon	113 463	1.1	—	—	2 932	0.1	17 695	0.1	134 090	0.3
Prince Edward Island	—	—	1 245	...	1 006	...	—	—	2 251	...
Total	10 318 910	100.0	3 277 231	100.0	2 948 794	100.0	27 770 161	100.0	44 315 096	100.0

Sources: Natural Resources Canada; Statistics Canada.

— Nil; ... Amount too small to be expressed; P Preliminary.

Note: Numbers may not add to totals due to rounding.

TABLE 4. CANADA, VALUE OF MINERAL PRODUCTION BY PROVINCE, TERRITORY AND MINERAL CLASS, 1997

Province/Territory	Metals		Nonmetals		Structural Materials		Mineral Fuels		Total	
	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)
Alberta	176	...	133 090	4.4	382 939	13.3	26 155 080	79.1	26 671 286	52.8
Ontario	3 841 788	33.3	399 329	13.2	1 295 023	44.9	78 822	0.2	5 614 963	11.1
Saskatchewan	614 847	5.3	1 440 389	47.6	36 862	1.3	3 416 324	10.3	5 508 422	10.9
British Columbia	1 495 315	12.9	46 888	1.5	397 854	13.8	2 741 265	8.3	4 681 322	9.3
Quebec	2 288 106	19.8	616 272	20.4	532 669	18.5	—	—	3 437 046	6.8
Manitoba	940 926	8.1	18 926	0.6	60 722	2.1	105 137	0.3	1 125 710	2.2
Newfoundland	966 218	8.4	386	...	41 668	1.4	29 900	0.1	1 038 173	2.1
New Brunswick	657 533	5.7	238 937	7.9	38 412	1.3	18 190	0.1	953 071	1.9
Northwest Territories	543 682	4.7	—	—	5 086	0.2	250 025	0.8	798 793	1.6
Nova Scotia	—	—	130 350	4.3	90 135	3.1	260 232	0.8	480 717	1.0
Yukon	200 587	1.7	—	—	3 045	0.1	21 760	0.1	225 392	0.4
Prince Edward Island	—	—	2 404	0.1	1 006	...	—	—	3 410	...
Total	11 549 178	100.0	3 026 971	100.0	2 885 421	100.0	33 076 735	100.0	50 538 306	100.0

Sources: Natural Resources Canada; Statistics Canada.

— Nil; ... Amount too small to be expressed.

Note: Numbers may not add to totals due to rounding.

TABLE 5. CANADA, VALUE OF MINERAL PRODUCTION BY PROVINCE AND TERRITORY, 1991-98

Province/Territory	1991	1992	1993	1994	1995	1996	1997	1998P
	(\$ millions)							
Alberta	16 373	17 056	18 925	21 119	20 676	26 218	26 671	22 194
Ontario	5 101	4 776	4 534	4 921	5 825	5 718	5 615	5 059
Saskatchewan	2 863	3 158	3 238	4 225	4 580	5 331	5 508	4 658
British Columbia	3 840	3 500	3 538	4 066	4 501	4 340	4 681	4 486
Quebec	2 930	2 694	2 692	2 956	3 338	3 415	3 437	3 443
Manitoba	1 125	1 082	862	820	1 022	1 002	1 126	986
Newfoundland	671	706	699	837	878	906	1 038	1 456
New Brunswick	772	910	772	862	1 021	955	953	852
Northwest Territories	703	681	585	680	766	780	799	579
Nova Scotia	460	523	554	608	560	593	481	465
Yukon	349	496	141	86	196	425	225	134
Prince Edward Island	3	2	4	3	4	4	3	2
Total	35 190	35 584	36 545	41 185	43 367	49 687	50 538	44 315

Sources: Natural Resources Canada; Statistics Canada.

P Preliminary.

Note: Numbers may not add to totals due to rounding.

TABLE 6. CANADA, PRODUCTION OF LEADING MINERALS, 1997 AND 1998P

		Volume		Percent Change 1998/1997	Value		Percent Change 1998/1997
		1997	1998P		1997	1998P	
		(000 tonnes except where noted)			(\$ millions)		
METALS							
Gold	kg	171 479	166 089	-3.1	2 527.4	2 322.4	-8.1
Copper		648	689	6.3	2 050.9	1 693.2	-17.4
Iron ore		38 928	38 908	-0.1	1 571.7	1 584.1	0.8
Zinc		1 027	987	-3.8	1 870.9	1 487.0	-20.5
Nickel		181	201	11.2	1 775.9	1 419.4	-20.1
Uranium	tU	11 127	9 984	-10.3	553.9	x	x
Silver	t	1 194	1 115	-6.6	260.0	293.5	12.9
Platinum group	kg	11 836	14 522	22.7	134.2	222.9	66.0
Cobalt	t	2 168	2 324	7.2	154.4	167.7	8.6
Lead		171	152	-11.2	147.6	118.0	-20.0
Molybdenum	t	7 594	7 563	-0.4	87.6	82.4	-5.9
NONMETALS							
Potash (K ₂ O equivalent)		9 235	8 969	-2.9	1 528.3	1 667.0	9.1
Salt		13 497	13 192	-2.3	405.5	399.5	-1.5
Peat		1 054	1 127	6.9	146.4	169.7	15.9
Asbestos		420	320	-23.8	214.9	167.2	-22.2
Gypsum		9 628	8 095	-6.2	95.3	88.0	-7.7
Sulphur in smelter gas		800	838	4.8	59.5	58.3	-1.9
Sulphur, elemental		8 272	8 410	1.7	84.1	54.3	-35.4
Diamonds	000 carats	-	278	n.a.	-	53.4	n.a.
Nepheline syenite		648	617	-4.8	51.3	50.2	-2.2
STRUCTURAL MATERIALS							
Cement		11 736	12 064	2.8	1 062.7	1 126.9	6.0
Sand and gravel		225 495	217 650	-3.5	829.2	819.9	-1.1
Stone		99 265	95 998	-3.3	644.2	646.2	0.3
Lime		2 477	2 514	1.5	213.0	220.5	3.5
Clay products		..	..	..	136.3	135.3	-0.7
MINERAL FUELS							
Crude oil and equivalent	000 m ³	123 827	128 769	4.0	17 837.8	12 990.3	-27.2
Natural gas	million m ³	156 171	161 015	3.1	10 719.2	11 196.0	4.4
Coal		78 670	74 370	-5.5	1 920.2	1 793.2	-6.6
Natural gas by-products	000 m ³	26 527	26 612	0.7	2 599.2	1 790.6	-31.1

Sources: Natural Resources Canada; Statistics Canada, *Canada's Mineral Production, Preliminary Estimates*, cat. no. 26-202-XIB.

- Nil; . . Not available; n.a. Not applicable; P Preliminary; x Confidential.

Note: Numbers have been rounded.

TABLE 7. PRODUCTION OF LEADING MINERALS, BY PROVINCE AND TERRITORY IN CANADA, 1998P

	Unit	Nfld.	P.E.I.	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	N.W.T.	Total Canada
	(000)													
Petroleum, crude	m ³	3 883	-	1 015	-	-	217	645	23 199	94 857	3 303	-	1 651	128 770
	\$	454 876	-	125 866	-	-	26 720	76 822	1 937 894	9 830 362	377 555	-	160 242	12 990 337
Natural gas	000 m ³	-	-	-	-	-	277	-	5 689	133 862	20 727	303	158	161 016
	\$	-	-	-	-	-	39 009	-	377 224	9 616 941	1 132 894	17 695	12 191	11 195 954
Gold	g	1 392	-	-	266	37 966	84 028	x	x	-	21 734	5 705	3 846	166 085
	\$	19 468	-	-	3 724	530 879	1 174 966	x	x	-	303 935	79 767	53 772	2 322 414
Coal	t	-	-	2 200	280	-	-	-	12 040	34 880	24 970	-	-	74 370
	\$	-	-	137 970	23 090	-	-	-	126 430	519 000	986 740	-	-	1 793 230
Natural gas by-products	m ³	-	-	-	-	-	-	-	101	25 619	893	-	-	26 613
	\$	-	-	-	-	-	-	-	7 417	1 711 454	71 769	-	-	1 790 640
Copper	kg	-	-	-	14 553	121 860	224 882	50 203	-	-	277 078	-	-	688 576
	\$	-	-	-	35 786	299 653	552 987	123 449	-	-	681 333	-	-	1 693 208
Potash (K ₂ O equivalent)	t	-	-	-	x	-	-	-	x	-	-	-	-	8 968
	\$	-	-	-	x	-	-	-	x	-	-	-	-	1 666 978
Iron ore	t	23 266	-	-	-	15 152	389	-	-	-	102	-	-	38 909
	\$	942 794	-	-	-	x	x	-	-	-	2 177	-	-	1 584 146
Zinc	kg	-	-	285 234	165 059	95 891	94 757	-	-	-	153 613	14 984	177 825	987 363
	\$	-	-	429 561	248 579	144 410	142 704	-	-	-	231 339	22 566	267 805	1 486 964
Nickel	kg	-	-	-	16 035	134 730	50 143	-	-	-	-	-	-	200 908
	\$	-	-	-	113 287	951 870	354 259	-	-	-	-	-	-	1 419 416
Cement	t	x	-	x	2 629	5 427	-	-	-	x	1 883	-	-	12 065
	\$	x	-	x	214 551	477 265	-	-	-	x	187 458	-	-	1 126 875
Sand and gravel	t	2 430	240	3 263	4 076	24 439	91 310	10 497	10 933	36 778	31 346	868	1 475	217 655
	\$	11 762	1 006	13 926	x	67 881	342 556	x	x	154 459	146 223	2 932	3 816	819 894
Stone	t	2 056	-	5 768	3 175	28 609	45 307	4 183	-	537	6 124	-	244	96 003
	\$	17 363	-	34 556	19 256	192 871	307 683	19 986	-	6 275	47 087	-	1 132	646 208
Uranium	kg	-	-	-	-	-	-	-	9 983	-	-	-	-	9 983
	\$	-	-	-	-	-	-	-	x	-	-	-	-	x
Titanium dioxide	t	-	-	-	-	x	-	-	-	-	-	-	-	x
	\$	-	-	-	-	x	-	-	-	-	-	-	-	x
Salt	t	-	-	x	x	-	8 315	-	702	1 053	-	-	-	13 192
	\$	-	-	x	x	-	257 856	-	30 728	16 398	-	-	-	399 519
Silver	kg	1	-	254	161	178	39	0	-	-	451	15	15	1 114
	\$	152	-	66 914	42 390	46 713	10 352	116	-	-	118 793	3 807	4 230	293 467
Iron, remelt	t	-	-	-	x	-	-	-	-	-	-	-	-	x
	\$	-	-	-	x	-	-	-	-	-	-	-	-	x
Platinum group	g	-	-	-	-	-	x	x	-	-	-	-	-	14 523
	\$	-	-	-	-	-	x	x	-	-	-	-	-	222 883
Lime	t	-	-	x	x	-	1 333	-	-	x	x	-	-	2 516
	\$	-	-	x	x	-	108 792	-	-	x	x	-	-	220 508
Peat	t	2	11	x	394	310	-	x	x	222	-	-	-	1 128
	\$	254	1 245	x	53 816	43 656	-	x	x	39 109	-	-	-	169 746
Cobalt	kg	-	-	-	-	113	1 714	497	-	-	-	-	-	2 324
	\$	-	-	-	-	8 152	123 661	35 883	-	-	-	-	-	167 696
Asbestos	t	-	-	-	-	320	-	-	-	-	-	-	-	320
	\$	-	-	-	-	167 200	-	-	-	-	-	-	-	167 200
Clay products	t	-	-	-	-	-	-	-	10	-	10	-	-	20
	\$	x	-	x	-	x	101 602	-	x	x	x	-	-	135 319
Lead	kg	-	-	-	81 752	-	-	-	-	-	31 334	9 413	29 210	151 709
	\$	-	-	-	63 603	-	-	-	-	-	24 377	7 323	22 725	118 028
Total leading minerals	\$	1 456 280	2 251	393 326	842 358	3 318 336	4 876 776	961 266	4 617 801	22 134 241	4 335 171	134 090	525 913	43 597 808
Total all minerals	\$	1 456 458	2 251	464 912	852 216	3 442 525	5 059 468	985 855	4 657 727	22 193 780	4 486 480	134 090	579 338	44 315 100
Leading minerals as a percentage of all minerals		100.0	100.0	84.60	98.80	96.40	96.40	97.50	99.10	99.70	96.60	100.0	90.80	98.40

Sources: Natural Resources Canada; Statistics Canada.

- Nil; P Preliminary; x Confidential.

Notes: Certain minerals are not included in leading minerals due to confidentiality constraints. Confidential values are included in "Total all minerals." Numbers may not add to totals due to rounding.

TABLE 8. CANADA'S WORLD ROLE AS A PRODUCER OF CERTAIN IMPORTANT MINERALS, 1997^P

		World	Rank of Five Leading Countries				
			1	2	3	4	5
Potash (K ₂ O equivalent) (mine production)	000 t % of world total	25 427	Canada 8 989 35.4	C.I.S. 6 650 26.2	Germany 3 423 13.5	Israel 1 488 5.9	United States 1 465 5.8
Uranium (U concentrates) (mine production)	t % of world total	36 101	Canada 12 020 33.3	Australia 5 489 15.2	Niger 3 450 9.6	Namibia 2 905 8.0	United States 2 170 6.0
Asbestos (mine production)	000 t % of world total	1 928	C.I.S. 685 35.5	Canada 455 23.6	China 250 13.0	Brazil 208 10.8	Zimbabwe 142 7.4
Sulphur, elemental (mine production)	000 t % of world total	39 587	United States 10 510 26.5	Canada 8 272 20.9	C.I.S. 4 483 11.3	Japan 2 013 5.1	Poland 1 710 4.3
Nickel (mine production)	000 t % of world total	1 087	C.I.S. 235 21.6	Canada 191 17.5	New Caledonia 137 12.6	Australia 123 11.4	Indonesia 72 6.6
Zinc (mine production)	000 t % of world total	7 426	China 1 210 16.3	Canada 1 076 14.5	Australia 1 036 14.0	Peru 865 11.7	United States 632 8.5
Gypsum (mine production)	000 t % of world total	104 617	United States 18 600 17.8	Canada 9 117 8.7	China 7 800 7.5	Thailand 8 600 8.2	Iran 8 500 8.1
Titanium concentrates (ilmenite, rutile, slag)	000 t % of world total	6 275 ^e	Australia 2 500 39.8	South Africa 1 100 17.5	Canada 850 13.5	Norway 750 11.8	India 316 5.0
Aluminum (primary metal)	000 t % of world total	21 796	United States 3 603 16.5	C.I.S. 2 906 13.3	Canada 2 327 10.7	China 2 046 9.4	Australia 1 490 6.8
Copper (mine production)	000 t % of world total	11 450	Chile 3 392 29.6	United States 1 940 16.9	Canada 660 5.8	Australia 560 4.9	Indonesia 548 4.8
Platinum group metals (mine production)	kg % of world total	287 389	South Africa 192 400 66.9	C.I.S. 67 500 23.5	Canada 12 459 4.3	United States 11 010 3.8	Japan 2 580 0.9
Cobalt (shipments)	t % of world total	23 569	Zambia 6 100 25.9	Russia 4 100 17.4	Congo, D.R. 3 500 14.9	Canada 2 168 9.2	Cuba 2 100 8.9
Cadmium (refined production)	t % of world total	18 923	Japan 2 472 13.1	United States 2 059 10.9	China 1 600 8.5	Canada 1 471 7.8	Belgium 1 420 7.5
Gold (mine production)	t % of world total	2 402	South Africa 492 20.5	United States 357 14.9	Australia 312 13.0	Canada 171 7.1	China 157 6.5
Salt (mine production)	000 t % of world total	201 270	United States 41 400 20.6	China 29 300 14.6	Germany 15 700 7.8	Canada 13 534 6.7	India 9 500 4.7
Lead (mine production)	000 t % of world total	3 053	China 700 22.9	Australia 531 17.4	United States 459 15.0	Peru 258 8.5	Canada 186 6.1
Molybdenum (Mo content) (mine production)	t % of world total	141 050	United States 60 900 43.2	China 32 000 22.7	Chile 17 900 12.7	Russia 8 500 6.0	Canada 8 223 5.8

Sources: Natural Resources Canada; U.S. Geological Survey.
^e Estimated; ^P Preliminary.
C.I.S.: Commonwealth of Independent States.

TABLE 9. CANADA, GROSS DOMESTIC PRODUCT OF INDUSTRIAL PRODUCTION, MINING AND MINERAL MANUFACTURING AT FACTOR COST AT 1992 PRICES, 1992-98

	1992	1993	1994	1995	1996	1997	1998
	(\$ millions)						
Total industrial production	141 603	148 010	157 555	164 931	167 140	175 818	180 033
Total mining	23 054	23 942	25 067	26 321	26 837	27 935	27 799
METALS							
Gold mines	1 203	1 162	1 061	1 065	1 150	1 194	1 163
Iron mines	433	421	499	503	481	520	504
Other metal mines	3 358	3 077	2 745	2 846	2 975	2 750	2 821
MINERAL FUELS							
Crude oil and natural gas	14 001	14 708	15 412	16 265	16 530	16 853	17 422
NONMETALS							
Asbestos	110	101	102	n.a.	n.a.	n.a.	n.a.
Potash	706	655	792	845	727	808	805
Salt	147	142	167	142	161	177	173
Coal	797	929	966	1 014	1 048	1 068	1 008
Quarry and sand pits	562	609	679	758	693	713	815
Miscellaneous nonmetals	200	223	264	n.a.	n.a.	n.a.	n.a.
SERVICES RELATED TO MINING	1 537	1 915	2 380	2 506	2 702	3 471	2 722
MINERAL MANUFACTURING							
Primary metals	5 293	5 617	5 646	5 817	5 977	6 180	6 214
Primary steel	2 035	2 292	2 347	2 381	2 466	2 551	2 480
Steel pipe and tube mills	333	422	457	426	473	545	538
Iron foundries	478	514	498	592	527	528	492
Nonferrous smelting and refining	1 775	1 633	1 600	1 641	1 699	1 704	1 766
Casting, rolling and extruding	672	756	744	777	812	852	938
Nonmetallic mineral products	2 547	2 589	2 656	2 708	2 754	2 947	3 196
Cement	319	339	375	374	377	395	395
Concrete products	408	358	384	428	406	438	480
Ready-mix concrete	407	453	461	424	437	440	476
Glass and glass products	582	609	626	634	664	757	897
Miscellaneous nonmetallic products	831	830	810	848	870	917	948
Petroleum and coal products	975	982	1 029	1 105	1 166	1 191	1 188

Sources: Natural Resources Canada; Statistics Canada.
n.a. Not applicable.

TABLE 10. CANADA, GROSS DOMESTIC PRODUCT BY INDUSTRY AT FACTOR COST AT 1992 PRICES, 1992-98

	1992	1993	1994	1995	1996	1997	1998
	(\$ millions)						
Gross domestic product, all industries	604 275	618 422	645 956	662 122	671 391	698 259	717 548
Agriculture	10 260	11 127	11 391	11 340	11 810	11 754	11 880
Fishing and trapping	1 026	1 059	865	692	730	753	693
Logging and forestry	4 031	4 243	4 442	4 766	4 818	4 800	4 673
Mines (including milling), quarries and oil wells	23 054	23 942	25 067	26 321	26 837	27 935	27 799
Manufacturing	96 181	101 101	108 859	114 281	115 658	123 155	128 018
Construction	37 112	35 774	36 880	35 396	36 060	38 270	38 745
Transportation and storage	26 078	27 109	29 380	29 915	30 255	31 834	32 325
Communications	19 541	19 096	19 886	20 362	21 045	22 312	23 964
Electric power, gas and water utilities	22 368	22 967	23 629	24 329	24 645	24 728	24 216
Trade, wholesale	30 892	31 435	34 194	35 202	36 109	39 357	42 219
Trade, retail	35 262	36 537	38 793	40 239	40 556	42 825	44 724
Finance, insurance and real estate	97 577	100 556	105 182	108 258	111 522	115 728	118 641
Community, business and personal services	27 782	29 227	30 874	33 392	35 315	38 050	41 046
Government services	45 409	45 401	45 725	44 941	43 482	42 797	42 706

Source: Statistics Canada.

TABLE 11. CANADA, STAGE I TO STAGE IV, DOMESTIC EXPORTS OF MINERALS AND MINERAL PRODUCTS BY COMMODITY, 1996-98

	Unit of Measure	1996		1997		1998P	
		(000)	(Quantity)	(Quantity)	(000)	(Quantity)	(000)
METALS							
Aluminum	..	..	6 328 775	..	7 127 264	..	7 137 180
Antimony	kg	1 434	2 332	244	875	769	1 403
Bismuth	kg	141	1 517	135	1 415	175	2 015
Cadmium	kg	1 722	8 198	2 622	5 612	2 097	3 205
Calcium metal	kg	4 570	3 655	5 685	4 281	5 616	3 661
Chromium	kg	8 749	29 370	7 902	33 642	7 085	31 948
Cobalt	kg	5 120	385 335	6 356	431 471	6 911	463 890
Copper	..	..	3 028 916	..	2 929 108	..	2 385 148
Gold	..	..	3 547 590	..	3 485 710	..	3 384 271
Iron and steel	..	..	8 238 652	..	8 495 816	..	9 606 446
Iron ore	t	27 920	1 032 860	32 340	1 262 406	30 180	1 286 304
Lead	..	..	430 810	..	334 083	..	284 009
Magnesium and magnesium compounds	kg	101 974	221 788	106 592	252 921	111 542	273 808
Molybdenum	kg	8 771	71 562	11 303	91 702	10 759	67 691
Nickel	..	..	2 339 044	..	2 119 890	..	1 903 017
Platinum group	..	..	158 116	..	182 857	..	207 789
Silver	..	..	433 218	..	350 772	..	507 443
Tin	..	..	20 261	..	17 343	..	13 793
Uranium and thorium	..	..	960 516	..	970 889	..	785 718
Zinc	kg	1 331 509	1 486 297	1 121 286	1 789 170	1 054 247	1 526 058
Other metals	..	..	3 510 826	..	4 112 100	..	4 780 624
Total metals	..	..	32 239 638	..	33 999 327	..	34 655 421
NONMETALS							
Asbestos	..	..	353 188	..	308 350	..	264 060
Barite and witherite	t	15	5 285	21	5 907	25	9 158
Diamonds	kg	..	16 794	..	13 660	110	6 869
Graphite	..	..	132 208	..	132 581	..	126 945
Gypsum	..	..	230 768	..	288 927	..	341 734
Mica	t	17	9 516	16	9 240	18	11 308
Nepheline syenite	t	269	43 919	372	50 498	338	52 205
Peat	..	..	289 132	..	288 094	..	320 061
Potash and potassium compounds	kg	12 961 046	1 546 155	14 647 353	1 752 693	14 278 275	1 978 593
Salt and sodium compounds	t	4 959	543 287	4 727	503 537	5 227	542 661
Sulphur and sulphur compounds	kg	7 697	495 545	8 185	468 190	6 803	356 041
Talc, soapstone and pyrophyllite	kg	26	7 607	26	8 010	30	10 227
Titanium oxides	kg	69 781	152 332	79 185	172 758	83 861	211 129
Other nonmetals	..	..	2 549 744	..	2 842 054	..	2 798 073
Total nonmetals	..	..	6 375 480	..	6 844 499	..	7 029 064
STRUCTURAL MATERIALS							
Cement	..	..	506 880	..	573 844	..	628 957
Clay and clay products	..	..	41 809	..	44 475	..	39 427
Lime	kg	216 849	24 701	224 233	27 203	171 447	21 304
Sand and gravel	t	1 428	11 844	1 809	15 680	1 999	19 737
Silica and silica compounds	..	..	13 995	..	18 370	..	16 426
Stone	..	..	104 479	..	128 992	..	153 370
Other structural materials	..	..	49 807	..	57 682	..	96 407
Total structural materials	..	..	753 515	..	866 246	..	975 628
FUELS							
Coal and coke	t	34 979	2 620 374	36 158	2 734 570	33 258	2 504 909
Natural gas	000 m ³	80 117	7 432 768	81 795	8 625 631	87 326	8 858 923
Natural gas by-products	000 m ³	8	1 154 199	8	1 161 236	9	860 303
Petroleum	..	..	17 040 149	..	17 003 934	..	12 978 294
Other fuels	kg	193 888	251 406	163 634	257 592	163 696	269 320
Total fuels	..	..	28 498 896	..	29 782 963	..	25 471 749
Total mineral domestic exports (including fuels)	..	..	67 867 529	..	71 493 035	..	68 131 862
Total economy domestic exports	..	..	259 265 000	..	281 255 740	..	296 699 975

Sources: Natural Resources Canada; Statistics Canada.

.. Not available or not applicable; P Preliminary.

Note: Numbers may not add to totals due to rounding.

TABLE 12. CANADA, STAGE I TO STAGE IV, IMPORTS OF MINERALS AND MINERAL PRODUCTS BY COMMODITY, 1996-98

	Unit of Measure	1996		1997		1998 ^p	
		(000)	(Quantity)	(\$000)	(Quantity)	(\$000)	(Quantity)	($000)
METALS							
Aluminum	..	..	3 373 306	..	3 827 343	..	4 359 671
Antimony	kg	2 515	11 917	2 514	11 017	2 670	9 747
Bismuth	kg	98	2 102	237	3 043	220	2 426
Cadmium	kg	736	1 502	487	1 341	35	607
Calcium metal	kg	44 889	35 803	53 902	40 576	74 768	47 542
Chromium	kg	112 877	94 366	104 999	97 948	96 008	93 994
Cobalt	kg	1 123	70 232	1 213	63 955	1 522	62 975
Copper	..	..	1 648 903	..	1 810 201	..	1 624 140
Gold	..	..	1 077 642	..	1 438 458	..	1 577 937
Iron and steel	..	..	10 245 590	..	12 912 369	..	15 379 922
Iron ore	t	6 911	334 255	7 148	357 847	7 255	387 944
Lead	..	..	498 422	..	551 199	..	589 792
Magnesium and magnesium compounds	kg	390 826	157 023	326 106	203 457	277 286	186 701
Molybdenum	kg	3 686	38 652	3 677	40 489	4 216	41 009
Nickel	..	..	757 023	..	599 185	..	639 258
Platinum group	g	243 738	207 343	266 556	228 667	195 251	182 448
Silver	..	..	125 790	..	142 383	..	136 801
Tin	..	..	56 634	..	59 240	..	61 700
Uranium and thorium	..	..	248 005	..	219 999	..	223 827
Zinc	..	..	153 816	..	275 855	..	234 856
Other metals	..	..	6 887 494	..	8 348 454	..	10 003 004
Total metals			26 025 820		31 233 026		35 846 301
NONMETALS							
Asbestos	..	..	75 281	..	85 281	..	81 023
Barite and witherite	t	16	1 868	22	2 994	14	2 479
Diamonds	..	..	191 132	..	223 942	..	251 119
Graphite	..	..	335 829	..	369 379	..	447 787
Gypsum	..	..	24 787	..	30 779	..	36 164
Mica	t	4	10 460	4	12 369	5	11 469
Nepheline syenite	..	...	52	...	12	...	3
Peat	..	..	750	..	1 289	..	2 743
Potash and potassium compounds	kg	..	35 430	..	39 055	118 389	41 588
Salt and sodium compounds	t	2 155	325 159	2 306	318 140	1 930	308 783
Sulphur and sulphur compounds	kg	110	15 975	152	19 096	189	21 688
Talc, soapstone and pyrophyllite	kg	58	15 283	56	13 072	47	12 173
Titanium oxides	kg	84 713	180 046	111 291	231 247	117 814	272 653
Other nonmetals	..	..	3 122 830	..	3 480 783	..	3 959 731
Total nonmetals			4 334 882		4 827 438		5 449 403
STRUCTURAL MATERIALS							
Cement	..	..	157 885	..	188 201	..	210 343
Clay and clay products	..	..	671 334	..	762 951	..	862 270
Lime	kg	36 640	5 054	47 382	6 380	33 988	5 752
Sand and gravel	t	3 241	16 300	3 207	17 619	3 068	18 955
Silica and silica compounds	..	..	109 098	..	125 737	..	143 146
Stone	..	..	93 950	..	105 411	..	134 142
Other structural materials	..	4	57 623	4	67 242	..	78 031
Total structural materials			1 111 244		1 273 541		1 452 639
FUELS							
Coal and coke	t	12 860	757 557	15 939	879 158	20 880	1 141 455
Natural gas	000 m ³	1 923	111 361	953	137 292	734	103 999
Natural gas by-products	000 m ³	...	70 227	...	56 091	...	56 626
Petroleum	..	..	9 592 959	..	11 428 616	..	9 143 758
Other fuels	..	..	306 498	..	347 478	..	449 774
Total fuels			10 838 602		12 848 635		10 895 612
Total mineral imports (including fuels)			42 310 548		50 182 640		53 643 955
Total economy imports			232 648 033		272 855 758		298 316 804

Sources: Natural Resources Canada; Statistics Canada.

.. Not available or not applicable; ... Amount too small to be expressed; P Preliminary.

Note: Numbers may not add to totals due to rounding.

TABLE 13. CANADA, STAGE I TO STAGE IV, VALUE OF MINERALS AND MINERAL PRODUCTS, EXPORTS BY COMMODITY, BY DESTINATION, 1998P

	United States	EU	Japan	Mexico	Other	Total
	(\$000)					
METALS						
Aluminum	6 078 786	516 915	342 885	6 864	191 730	7 137 180
Antimony	870	508	—	—	25	1 403
Bismuth	1 810	205	—	—	—	2 015
Cadmium	1 402	1 059	683	—	61	3 205
Calcium metal	1 602	1 667	104	—	288	3 661
Chromium	31 381	568	—	—	. . .	31 948
Cobalt	77 143	120 821	67 337	9	198 580	463 890
Copper	1 750 675	190 662	204 471	10 250	229 090	2 385 148
Gold	2 782 025	33 104	53 278	—	515 864	3 384 271
Iron and steel	9 088 890	145 805	35 172	44 084	292 495	9 606 446
Iron ore	426 269	686 264	22 710	—	151 061	1 286 304
Lead	218 172	43 098	778	603	21 358	284 009
Magnesium and magnesium compounds	207 871	36 597	12 204	—	17 136	273 808
Molybdenum	5 393	17 479	35 384	—	9 435	67 691
Nickel	548 041	592 004	64 630	5 398	692 944	1 903 017
Platinum group	90 793	115 731	1 111	—	154	207 789
Silver	416 090	58 876	30 104	26	2 347	507 443
Tin	13 099	272	90	—	332	13 793
Uranium and thorium	573 030	57 517	22 242	460	132 469	785 718
Zinc	995 528	336 299	52 557	19	141 655	1 526 058
Other metals	4 057 781	316 218	148 054	11 849	246 722	4 780 624
Total metals	27 366 651	3 271 669	1 093 794	79 562	2 843 746	34 655 421
NONMETALS						
Asbestos	66 673	13 470	38 340	13 026	132 551	264 060
Barite and witherite	8 906	—	—	—	252	9 158
Diamonds	5 779	632	23	—	435	6 869
Graphite	105 868	8 337	66	—	12 674	126 945
Gypsum	338 935	974	60	—	1 765	341 734
Mica	9 294	475	1 229	—	310	11 308
Nepheline syenite	46 753	1 339	672	100	3 341	52 205
Peat	273 375	19 898	15 087	—	11 701	320 061
Potash and potassium compounds	1 133 663	50 874	69 604	2 143	722 309	1 978 593
Salt and sodium compounds	494 926	1 133	9 048	185	37 369	542 661
Sulphur and sulphur compounds	130 438	8	—	17 667	207 928	356 041
Talc, soapstone and pyrophyllite	10 227	—	—	—	—	10 227
Titanium oxides	191 779	13 868	—	—	5 482	211 129
Other nonmetals	2 609 706	81 877	18 943	320	87 227	2 798 073
Total nonmetals	5 426 322	192 885	153 072	33 441	1 223 344	7 029 064
STRUCTURAL MATERIALS						
Cement	620 827	2 520	2 738	—	2 872	628 957
Clay and clay products	32 564	2 797	332	15	3 719	39 427
Lime	21 288	10	—	—	6	21 304
Sand and gravel	17 791	25	—	—	1 921	19 737
Silica and silica compounds	15 526	158	—	47	695	16 426
Stone	138 156	4 581	5 096	—	5 537	153 370
Other structural materials	91 315	529	528	293	3 742	96 407
Total structural materials	937 467	10 620	8 694	355	18 492	975 628
FUELS						
Coal and coke	205 463	387 126	1 193 975	15 157	703 188	2 504 909
Natural gas	8 858 923	—	—	—	—	8 858 923
Natural gas by-products	860 265	16	—	—	22	860 303
Petroleum	12 597 143	86 375	10 457	132	284 187	12 978 294
Other fuels	232 819	11 005	3 130	214	22 152	269 320
Total fuels	22 754 613	484 522	1 207 562	15 503	1 009 549	25 471 749
Total domestic mineral exports	56 485 053	3 959 696	2 463 122	128 861	5 095 131	68 131 862

Sources: Natural Resources Canada; Statistics Canada.
 — Nil; . . . Amount too small to be expressed; P Preliminary.
 Note: Numbers may not add to totals due to rounding.

TABLE 14. CANADA, STAGE I TO STAGE IV, VALUE OF MINERALS AND MINERAL PRODUCTS, IMPORTS BY COMMODITY, BY ORIGIN, 1998P

	United States	EU	Japan	Mexico	Other	Total
	(\$000)					
METALS						
Aluminum	3 223 441	219 960	10 037	2 932	903 301	4 359 671
Antimony	6 336	2 555	–	–	856	9 747
Bismuth	1 860	90	–	–	476	2 426
Cadmium	270	337	–	–	–	607
Calcium metal	36 271	5 485	17	...	5 769	47 542
Chromium	31 018	6 398	1 898	2 469	52 211	93 994
Cobalt	17 799	4 724	793	–	39 659	62 975
Copper	1 182 746	115 528	10 884	9 263	305 719	1 624 140
Gold	1 118 035	56 180	305	82	403 335	1 577 937
Iron and steel	10 762 881	1 528 013	850 963	272 408	1 965 657	15 379 922
Iron ore	358 824	101	3	2 536	26 480	387 944
Lead	473 652	23 851	13 525	17 329	61 435	589 792
Magnesium and magnesium compounds	102 512	13 969	884	1 412	67 924	186 701
Molybdenum	27 582	3 532	9	2 436	7 450	41 009
Nickel	207 750	58 889	76 780	19 401	276 438	639 258
Platinum group	66 564	30 662	9	518	84 695	182 448
Silver	65 978	12 497	737	3 151	54 438	136 801
Tin	33 345	2 942	21	265	25 127	61 700
Uranium and thorium	48 243	13 779	88	–	161 717	223 827
Zinc	179 008	7 324	182	13 071	35 271	234 856
Other metals	6 608 867	873 214	271 502	930 899	1 318 522	10 003 004
Total metals	24 552 982	2 980 030	1 238 637	1 278 172	5 796 480	35 846 301
NONMETALS						
Asbestos	69 840	1 695	3 629	1 283	4 576	81 023
Barite and witherite	2 123	256	–	–	100	2 479
Diamonds	41 507	76 744	134	...	132 734	251 119
Graphite	342 585	47 992	16 053	3 475	37 682	447 787
Gypsum	31 518	1 064	47	2 520	1 015	36 164
Mica	8 667	1 800	279	15	708	11 469
Nepheline syenite	2	–	–	–	1	3
Peat	923	990	–	–	830	2 743
Potash and potassium compounds	34 742	2 444	53	15	4 334	41 588
Salt and sodium compounds	267 199	24 497	526	5 352	11 209	308 783
Sulphur and sulphur compounds	20 749	818	8	–	113	21 688
Talc, soapstone and pyrophyllite	11 803	161	100	–	109	12 173
Titanium oxides	163 594	87 689	1 254	...	20 116	272 653
Other nonmetals	3 064 493	374 569	76 388	92 197	352 084	3 959 731
Total nonmetals	4 059 745	620 719	98 471	104 857	565 611	5 449 403
STRUCTURAL MATERIALS						
Cement	183 260	9 169	707	4 655	12 552	210 343
Clay and clay products	367 026	219 586	31 955	39 341	204 362	862 270
Lime	5 700	51	–	–	1	5 752
Sand and gravel	18 651	110	...	13	181	18 955
Silica and silica compounds	124 178	14 134	2 328	97	2 409	143 146
Stone	57 464	44 339	13	1 702	30 624	134 142
Other structural materials	62 432	8 384	247	1 527	5 441	78 031
Total structural materials	818 711	295 773	35 250	47 335	255 570	1 452 639
FUELS						
Coal and coke	1 077 901	14 371	4 567	37	44 579	1 141 455
Natural gas	103 992	1	1	–	5	103 999
Natural gas by-products	56 120	78	26	...	402	56 626
Petroleum	2 919 707	1 160 560	12 639	206 720	4 844 132	9 143 758
Other fuels	386 123	56 529	2 771	1 444	2 907	449 774
Total fuels	4 543 843	1 231 539	20 004	208 201	4 892 025	10 895 612
Total mineral imports	33 975 281	5 128 061	1 392 363	1 638 566	11 509 686	53 643 955

Sources: Natural Resources Canada; Statistics Canada.

– Nil; ... Amount too small to be expressed; P Preliminary.

Note: Numbers may not add to totals due to rounding.

TABLE 15. CANADA, APPARENT CONSUMPTION¹ OF SOME MINERALS AND RELATION TO PRODUCTION,² 1995-97

	1995			1996			1997		
	Apparent Consumption	Production	Consumption as a Percentage of Production	Apparent Consumption	Production	Consumption as a Percentage of Production	Apparent Consumption	Production	Consumption as a Percentage of Production
	(tonnes)	(tonnes)	(%)	(tonnes)	(tonnes)	(%)	(tonnes)	(tonnes)	(%)
Quartz silica	3 013 201	1 872 731	160.9	1 925 575 ^r	1 668 462 ^r	115.4	1 812 229	1 792 778	101.1
Lime ³	2 248 125	2 461 716	91.3	2 221 823	2 402 032	92.5	2 299 721	2 476 571	92.9
Salt	9 265 578 ^r	10 957 384	84.6	9 569 294 ^r	12 248 477	78.1	11 125 670	13 496 856	82.4
Cement ⁴	6 183 562	10 440 329	59.2	6 864 706	11 587 365	59.2	7 155 518	11 736 272	61.0
Iron ore	13 890 447	36 627 937	37.9	13 353 341	34 399 968	38.8	13 695 398	38 927 855	35.2
Gypsum	2 666 640	8 054 741	33.1	2 922 971	8 201 774	35.6	2 866 713	8 627 772	33.2
Potash (K ₂ O equivalent)	452 561	8 854 690	5.1	257 042	8 120 389	3.2	374 711	9 234 742	4.1
Asbestos	6 275	515 553	1.2	2 622	506 276	0.5	–	420 278	..

Sources: Natural Resources Canada; Statistics Canada.

– Nil; .. Not available; K₂O potassium oxide; ^r Revised.¹ "Apparent consumption" is production plus imports, less exports. ² "Production" refers to producers' shipments. ³ Apparent consumption contains slaked lime in the trade data. ⁴ Apparent consumption contains clinker cement in the trade data.

TABLE 16. CANADA, REPORTED CONSUMPTION OF MINERALS AND RELATION TO PRODUCTION, 1995-97

	Unit of Measure	1995			1996			1997		
		Consumption	Production	Consumption as a Percentage of Production	Consumption	Production	Consumption as a Percentage of Production	Consumption	Production	Consumption as a Percentage of Production
				(%)			(%)			(%)
METALS										
Aluminum ¹	t	635 402	2 171 992	29.3	686 969	2 283 212	30.1	781 268	2 327 188	33.6
Antimony	kg	988 338	574 448	172.1	688 800	1 380 169	49.9	1 158 210	529 109	218.9
Bismuth	kg	205 813	158 641	129.7	116 111	149 839	77.5	65 378	195 720	33.4
Cadmium	kg	93 440	1 686 439	5.5	99 323	1 540 072	6.4	123 192	1 272 172	9.7
Chromium (chromite)	t	21 951	–	..	17 466	–	..	15 380	–	..
Cobalt	kg	148 331	2 016 484	7.4	147 350	2 150 339	6.9	136 382	2 167 554	6.3
Copper ²	t	189 550 ^r	700 843	27.0 ^r	218 280	652 499	33.5	224 777	647 779	34.7
Lead ³	t	91 171	204 227	44.6	93 373	241 751	38.6	92 999	170 847	54.4
Magnesium	t	27 140	x	x	27 576	x	x	34 026	x	x
Manganese ore	t	9 061	–	..	9 747	–	..	9 868	–	..
Mercury	kg	2 985	–	..	6 327	–	..	x	–	x
Molybdenum (Mo content)	t	2 066 ^r	9 113	22.7 ^r	2 305 ^r	8 789	26.2 ^r	2 545	7 594	33.5
Nickel	t	20 973	172 107	12.2	24 504	182 404	13.4	19 447	180 624	10.8
Selenium	kg	15 046	561 307	2.7	15 815	693 666	2.3	9 175	592 135	1.5
Silver	kg	432 015 ^r	1 244 606	34.7 ^r	410 730 ^r	1 242 846	33.0 ^r	333 402	1 193 970	27.9
Tellurium	kg	x	102 268	x	x	58 700	x	x	59 322	x
Tin	t	3 044	–	..	2 796	–	..	2 850	–	..
Tungsten (W content)	kg	376 840	–	..	397 770	–	..	289 934	–	..
Zinc ³	t	132 915 ^r	1 094 703	12.1 ^r	136 967 ^r	1 162 720	11.8	135 730	1 026 864	13.2
NONMETALS										
Barite	t	17 118	60 662	28.2	14 399	57 967	24.8	11 765	84 091	14.0
Feldspar	t	1 492	–	..	1 504	–	..	1 578	–	..
Fluorspar	t	16 570	–	..	23 814	–	..	75 791	–	..
Mica	t	2 828	x	x	3 211	x	x	3 334	x	x
Nepheline syenite	t	68 704	616 693	11.1	76 577	606 439	12.6	73 264	648 280	11.3
Phosphate rock	t	1 202 533	–	..	x	–	..	x	–	..
Potash (K ₂ O equivalent)	t	210 332	8 854 690	2.4	216 349	8 120 389	2.7	217 841	9 234 742	2.4
Sodium sulphate	t	121 717	314 770	38.7	113 985	323 326	35.3	112 906	285 196	39.6
Sulphur	t	905 021	8 732 737	10.4	757 705	9 116 366	8.3	758 886	9 072 374	8.4
Talc, etc.	t	98 877	108 327	91.3	91 498	77 016	118.8	84 991	72 444	117.3
MINERAL FUELS										
Coal	000 t	52 771	74 920	70.4	53 509	75 860	70.5	55 098	78 670	70.0
Crude oil ⁴	000 m ³	87 663	114 372	76.6	92 687	117 621	78.8	96 431	123 827	77.9
Natural gas ⁵	million m ³	52 078	148 203	35.1	54 674	153 578	35.6	52 541	156 171	33.6

Sources: Natural Resources Canada; Statistics Canada.

– Nil; .. Not available; ^r Revised; x Confidential.¹ Consumption of primary aluminium ingot and alloys, and secondary ingot and scrap, reported by consumers. ² Consumption is defined as domestic shipments of refined copper plus imports of refined copper. ³ Consumption of primary and secondary refined metal. ⁴ Consumption is defined as refinery receipts. ⁵ Consumption is defined as domestic sales.

Notes: Unless otherwise stated, consumption refers to reported consumption of refined metals or nonmetallic minerals by consumers. Production of metals, in most cases, refers to production in all forms, and includes the recoverable content of ores, concentrates, matte, etc., and the metal content of primary products recoverable at domestic smelters and refineries. Production of nonmetals refers to producers' shipments. For fuels, production is equivalent to actual output less waste.

TABLE 17. CANADA, DOMESTIC CONSUMPTION OF PRINCIPAL REFINED METALS IN RELATION TO REFINERY PRODUCTION,¹ 1991-97

	Unit of Measure	1991	1992	1993	1994	1995	1996	1997
ALUMINUM								
Domestic consumption ²	t	446 239	481 089	568 854	635 024	635 402	686 969	781 268
Production	t	1 821 642	1 971 843	2 308 867	2 254 683	2 171 992	2 283 212	2 327 188
Consumption as a percentage of production	%	24.5	24.4	24.6	28.2	29.3	30.1	33.6
COPPER								
Domestic consumption ³	t	159 170	156 132	185 565	199 350	189 550 ^r	218 280	224 777
Production	t	538 339	539 302	561 580	549 869	572 616	560 582	560 582
Consumption as a percentage of production	%	29.6	29.0	33.0	36.3	33.1	38.9	40.1
LEAD								
Domestic consumption ⁴	t	80 253	92 420	91 915	95 764	91 171	93 373	92 999
Production ⁵	t	212 366	252 885	217 014	251 640	281 391	310 791	271 395
Consumption as a percentage of production	%	37.8	36.5	42.4	38.1	32.4	30.0	34.3
ZINC								
Domestic consumption ⁴	t	104 902	114 725	111 876 ^r	124 296 ^r	132 915 ^r	136 967 ^r	135 730
Production	t	660 552	671 702	659 881	690 965	720 346	716 467	703 798
Consumption as a percentage of production	%	15.9	17.1	17.0	18.0 ^r	18.5	19.1 ^r	19.3

Source: Natural Resources Canada.

^r Revised.

¹ Production of refined metal from all sources, including metal derived from secondary materials at primary refineries. ² Consumption of primary aluminum ingot and alloys, and secondary ingot and scrap, reported by consumers. ³ Consumption is defined as domestic shipments of refined copper plus imports of refined copper. ⁴ Consumption of primary and secondary refined metal, reported by consumers. ⁵ Production of primary and secondary refined lead.

TABLE 18. AVERAGE ANNUAL PRICES¹ OF SELECTED METALS, 1991-98

	Unit	1991	1992	1993	1994	1995	1996	1997	1998
Aluminum, London Metal Exchange	¢/lb	59.066	56.893	51.639	66.986	81.903	68.296	72.544	61.574
Antimony, New York dealer	\$/lb	0.828	0.791	0.769	1.777	2.278	1.466	0.996	0.718
Bismuth, New York dealer	\$/lb	2.969	2.506	2.350	3.070	3.781	3.546	3.275	3.408
Cadmium, New York dealer	\$/lb	1.974	0.907	0.451	1.144	1.839	1.238	0.513	0.286
Cobalt, metal, shot/cathode/250 kg	\$/lb	11.000	24.300	18.000	19.900	27.069	27.500	27.500	27.500
Copper, electrolytic cathode, COMEX	¢/lb	108.211	102.721	85.283	107.052	134.717	105.872	103.580	75.077
Gold, London ²	\$/troy oz	362.183	343.731	359.769	384.009	384.162	387.696	331.096	294.160
Iridium, New York dealer	\$/troy oz	281.354	155.167	45.667	30.000	30.000	46.188	171.125	392.032
Lead, London Metal Exchange cash	¢/lb	25.269	24.534	18.417	24.829	28.600 ^r	35.019	28.292	23.960
Magnesium, U.S. primary ingot (Producer Price List)	\$/lb	1.430	1.438	1.530	1.538	1.805	1.930	1.800	1.800
Manganese, U.S. metal, regular	¢/lb	104.000	104.000	104.000	104.000	109.250	115.000	115.000	105.417
Molybdenum, dealer, oxide	\$/lb	2.349	2.197	2.279	4.501	7.412	3.606	4.175	3.313
Nickel, New York dealer, cathode	\$/lb	3.796	3.177	2.428	2.919	3.901	3.501	3.221	2.179
Osmium, New York dealer	\$/troy oz	400.000	400.000	400.000	400.000	399.375	392.458	391.000	366.867
Palladium, London PM fix	\$/troy oz	88.290	88.228	122.348	142.631	151.229	128.079	177.951	284.678
Platinum, London PM fix	\$/troy oz	376.083	359.799	374.027	404.998	424.346	397.171	395.210	372.019
Rhodium, New York dealer	\$/troy oz	3 739.126	2 365.102	1 066.111	712.678	424.145	280.721	268.458	574.771
Ruthenium, New York dealer	\$/troy oz	55.233	28.538	12.996	13.604	21.827	34.921	32.896	39.208
Selenium, New York dealer	\$/lb	5.241	4.947	4.900	4.900	4.897	3.423	2.791	2.274
Silver, Handy & Harman, Toronto	\$/troy oz	4.039	3.936	4.300	5.284	5.192	5.183	4.892	5.534
Tantalum, tantalite ore, spot	\$/lb	28.538	27.365	25.850	25.500	26.260	27.000	27.000	32.783
Tin, New York dealer	\$/lb	2.588	2.822	2.392	2.549	2.945	2.890	2.644	2.613
Tungsten, U.S. spot ore	\$/stu	53.417	49.325	34.800	36.750	56.402	55.000	53.333	48.525
Uranium, U ₃ O ₈	\$/lb	21.000	19.000	15.000	14.000	13.000	15.100 ^r	14.200	13.300
Zinc, special high grade	¢/lb	50.647	56.235	43.635	45.255	53.235	51.109	59.697	46.453

Sources: Natural Resources Canada; *Metals Week*.

COMEX: Commodities Exchange, Inc.

^r Revised; stu short ton unit.¹ Prices, except where noted, are in U.S. currency. ² Average afternoon fixings of London bullion dealers.

TABLE 19. CANADIAN AVERAGE ANNUAL PRICES OF SELECTED METALS, 1991-98

	Unit	1991	1992	1993	1994	1995	1996	1997	1998
Aluminum, London Metal Exchange	\$/kg	1.492	1.516	1.469	2.017	2.478	2.054	2.215	1.952
Antimony, New York dealer	\$/kg	2.092	2.107	2.187	5.350	6.893	4.408	3.042	2.276
Bismuth, New York dealer	\$/kg	7.500	6.676	6.684	9.243	11.441	10.663	10.000	10.805
Cadmium, New York dealer	\$/kg	4.986	2.416	1.283	3.444	5.565	3.723	1.566	0.907
Cobalt, metal, shot/cathode/250 kg	\$/kg	27.787	64.731	51.195	59.916	81.906	82.695	83.968	87.188
Copper, electrolytic cathode, COMEX	\$/kg	2.733	2.736	2.426	3.223	4.076	3.184	3.163	2.380
Gold, London ¹	\$/g	13.342	13.353	14.922	16.861	16.952	17.002	14.743	13.601
Iridium, New York dealer	\$/g	10.365	6.028	1.894	1.317	1.324	2.026	7.620	18.126
Lead, London Metal Exchange, cash	¢/kg	55.709	54.088	40.602	54.739	63.052	77.204	62.373	52.823
Magnesium, U.S. primary ingot (Producer Price List)	\$/kg	3.612	3.831	4.352	4.631	5.462	5.804	5.496	5.707
Manganese, U.S. metal, regular	\$/kg	2.627	2.770	2.958	3.131	3.306	3.458	3.511	3.342
Molybdenum, dealer, oxide	\$/kg	5.934	5.852	6.482	13.552	22.428	10.844	12.748	10.504
Nickel, New York dealer, cathode	\$/kg	9.589	8.463	6.906	8.789	11.804	10.528	9.835	6.908
Osmium, New York dealer	\$/g	14.735	15.539	16.591	17.563	17.623	17.211	17.411	16.962
Palladium, London PM fix	\$/g	3.252	3.427	5.075	6.263	6.673	5.617	7.924	13.162
Platinum, London PM fix	\$/g	13.854	13.977	15.514	17.783	18.725	17.417	17.598	17.201
Rhodium, New York dealer	\$/g	137.743	91.879	44.220	31.292	18.716	12.311	11.954	26.575
Ruthenium, New York dealer	\$/g	2.035	1.109	0.539	0.597	0.963	1.531	1.465	1.813
Selenium, New York dealer	\$/kg	13.239	13.178	13.936	14.753	14.818	10.293	8.522	7.210
Silver, Handy & Harman, Toronto	\$/kg	148.790	152.905	178.354	232.011	229.107	227.293	217.835	255.870
Tantalum, tantalite ore, spot	\$/kg	72.089	72.896	73.522	76.777	79.459	81.192	82.442	103.937
Tin, New York dealer	\$/kg	6.537	7.517	6.803	7.675	8.911	8.690	8.075	8.284
Tungsten, U.S. spot ore	\$/mtu	60.239	58.658	44.186	49.397	76.189	73.835	72.700	68.681
Uranium	\$/kg	61.000	59.000	50.000	51.000	47.000	53.600 ^r	51.300	51.100
Zinc, special high grade	\$/kg	1.279	1.498	1.241	1.363	1.611	1.537	1.823	1.473

Sources: Natural Resources Canada; *Metals Week*.
COMEX: Commodities Exchange, Inc.
mtu metric tonne unit; ^r Revised.

¹ Average afternoon fixings of London bullion dealers.

TABLE 20. CANADA, PRINCIPAL STATISTICS OF THE MINERAL INDUSTRY, 1 1996

	Mining Activity										
	Establish- ments	Production and Related Workers			Costs				Total Activity ²		
		Employees	Person- Hours Paid	Wages	Fuel and Electricity	Materials and Supplies	Value of Production	Value Added	Employees	Salaries and Wages	Value Added
(number)	(number)	(000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(number)	(\$000)	(\$000)	
METALS											
Gold	55	7 595	16 846	457 762	171 609	683 757	2 705 706	1 850 341	10 099	600 824	1 843 392
Silver-lead-zinc	6	2 129	4 751	120 683	60 476	674 794	1 237 809	502 539	3 061	181 758	500 667
Uranium	4	1 031	2 067	53 809	47 118	119 440	636 276	469 718	1 299	72 604	469 672
Iron	5	3 511	7 692	265 421	176 945	446 318	1 458 768	835 505	4 736	356 541	836 170
Nickel-copper-zinc	21	10 923	23 379	601 823	211 204	1 934 936	5 063 000	2 916 860	14 074	822 995	2 946 128
Miscellaneous metal mines ³	6	641	1 349	33 706	18 730	56 486	213 632	138 415	988	52 707	143 297
Total	97	25 830	56 083	1 533 204	686 082	3 915 731	11 315 190	6 713 377	34 257	2 087 429	6 739 326
INDUSTRIAL MINERALS											
Asbestos	2	x	x	x	x	x	x	x	x	x	x
Peat	70	1 188	2 628	29 921	7 785	36 001	173 304	129 519	1 485	39 045	130 474
Gypsum	9	590	1 259	21 785	7 191	19 386	88 547	61 970	691	27 128	61 884
Potash	11	2 551	5 732	149 498	124 232	162 088	1 304 482	1 018 163	3 506	212 052	1 017 696
Stone	154	2 196	4 935	84 121	43 782	113 506	486 360	329 072	2 914	114 803	335 940
Sand and gravel	322	2 760	6 358	100 144	50 263	99 243	502 439	352 932	3 587	131 804	365 848
Miscellaneous nonmetals ⁴	28	1 468	3 304	68 200	29 576	69 307	488 016	389 133	2 021	96 308	389 806
Total	596	12 188	27 369	515 292	289 094	546 860	3 304 520	2 468 565	16 121	707 118	2 490 713
MINERAL FUELS											
Coal	34	7 458	16 071	418 016	151 580	476 461	1 950 089	1 322 048	9 177	511 824	1 349 340
Total mineral industry	727	45 476	99 523	2 466 512	1 126 756	4 939 053	16 569 800	10 503 991	59 555	3 306 371	10 579 379

Sources: Natural Resources Canada; Statistics Canada.

x Confidential.

¹ Cement manufacturing, lime manufacturing, clay and clay products (domestic clays) are included in the mineral manufacturing industry. ² Total activity includes sales and head offices.

³ Includes molybdenum. ⁴ Includes salt.

Notes: This table no longer includes data for the petroleum and natural gas industries. Numbers may not add to totals due to rounding.

TABLE 21. CANADA, PRINCIPAL STATISTICS OF THE MINERAL INDUSTRY¹ BY REGION, 1996

Region	Mines, Quarries and Oil Wells Activity								Total Activity ²			
	Establish- ments	Production and Related Workers			Costs			Value of Production	Value Added	Employees	Salaries and Wages	Value Added
		Employees	Person- Hours Paid	Wages	Fuel and Electricity	Materials and Supplies						
(number)	(number)	(000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(number)	(\$000)	(\$000)	
Atlantic provinces ³	85	6 408	13 677	324 961	143 149	640 066	1 934 598	1 151 383	8 047	412 035	1 145 620	
Quebec	217	8 864	19 580	468 771	233 950	922 218	2 790 605	1 634 437	12 547	682 940	1 682 379	
Ontario	208	11 975	26 468	635 113	226 194	1 321 795	4 918 263	3 370 274	15 408	833 684	3 366 158	
Prairie provinces	144	9 771	21 146	515 579	260 442	818 832	3 541 938	2 462 664	12 403	691 150	2 492 056	
British Columbia ⁴	63	6 949	14 901	408 137	195 908	877 289	2 548 954	1 475 756	8 779	516 488	1 488 169	
Yukon and Northwest Territories ⁵	10	1 509	3 751	113 950	67 112	358 853	835 441	409 477	2 372	170 073	404 997	
Total Canada	727	45 476	99 523	2 466 511	1 126 755	4 939 053	16 569 799	10 503 991	59 555	3 306 370	10 579 379	

Sources: Natural Resources Canada; Statistics Canada.

¹ Cement manufacturing, lime manufacturing, clay and clay products (domestic clays) are included in the mineral manufacturing industry. ² Total activity includes sales and head offices.

³ Includes eastern Canada offshore. ⁴ Includes western Canada offshore. ⁵ Includes Arctic Islands.

Notes: This table no longer includes data for the petroleum and natural gas industries. Numbers may not add to totals due to rounding.

TABLE 22. CANADA, PRINCIPAL STATISTICS OF THE MINERAL INDUSTRY,¹ 1982-96

Year	Mines, Quarries and Oil Wells Activity								Total Activity ²			
	Establish- ments	Production and Related Workers			Costs			Value of Production	Value Added	Employees	Salaries and Wages	Value Added
		Employees	Person- Hours Paid	Wages	Fuel and Electricity	Materials and Supplies						
(number)	(number)	(000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(number)	(\$000)	(\$000)	
1982	490	66 610	125 432	1 765 743	803 031	3 250 826	9 580 998	5 527 141	91 787	2 598 170	5 527 700	
1983	481	58 469	114 700	1 684 907	826 427	3 158 440	9 841 152	5 856 285	80 413	2 446 855	5 840 910	
1984	472	61 150	123 628	1 987 010	971 932	3 569 181	12 053 167	7 512 054	81 846	2 767 611	7 537 288	
1985	472	58 347	121 709	2 009 484	1 005 557	3 605 813	11 664 215	7 052 845	77 663	2 771 242	7 066 445	
1986	505	55 542	117 173	2 004 975	951 854	3 655 623	11 734 946	7 127 469	74 497	2 784 083	7 172 484	
1987	538	55 776	120 946	2 079 717	938 764	3 896 427	13 729 648	8 894 456	73 821	2 850 388	8 960 120	
1988	539	58 251	126 216	2 348 492	970 964	4 463 879	17 060 361	11 625 518	76 995	3 197 809	11 694 930	
1989	537	59 593	129 946	2 562 805	1 013 010	4 712 423	17 445 454	11 720 021	78 279	3 460 651	11 826 346	
1990	521	55 558	121 448	2 510 817	1 061 769	4 619 245	16 158 688	10 477 673	73 156	3 391 151	10 571 448	
1991	498	51 642	112 344	2 446 055	1 043 554	4 318 454	14 359 030	8 997 022	68 747	3 363 119	9 094 572	
1992	469	46 819	101 065	2 278 504	960 413	4 249 868	13 705 148	8 494 868	62 257	3 136 794	8 566 223	
1993	459	44 053	94 733	2 139 903	933 552	3 931 954	12 598 992	7 733 486	58 325	2 928 793	7 793 020	
1994	555	44 208	96 300	2 228 567	970 304	3 938 223	13 872 653	8 964 126	58 320	3 020 618	9 059 983	
1995	730	46 718	101 989	2 420 776	1 059 773	4 741 868	16 770 592	10 968 951	61 140	3 259 174	11 048 501	
1996	727	45 476	99 523	2 466 511	1 126 755	4 939 053	16 569 799	10 503 991	59 555	3 306 370	10 579 379	

Source: Natural Resources Canada.

¹ Cement manufacturing, lime manufacturing, clay and clay products (domestic clay) are included in the mineral manufacturing industry. ² Total activity includes sales and head offices.

Note: This table no longer includes data for the petroleum and natural gas industries.

TABLE 23. CANADA, CONSUMPTION OF FUEL AND ELECTRICITY IN THE MINERAL INDUSTRY,¹ 1996

	Unit	Metals	Nonmetals	Structural Materials	Total
Coal	000 t	1	–	–	1
	\$000	40	–	–	40
Gasoline	000 litres	18 097	3 663	13 569	35 329
	\$000	8 613	1 786	6 783	17 182
Fuel oil, kerosene, diesel oil	000 litres	759 336	129 607	130 087	1 019 030
	\$000	198 185	34 786	53 671	286 642
Liquefied petroleum gas	000 litres	155 058	12 607	5 674	173 339
	\$000	32 292	2 612	1 000	35 904
Natural gas	000 m ³	119 150	734 835	22 796	876 781
	\$000	12 997	47 550	3 056	63 603
Other fuels ²	\$000	37 596	440	262	38 298
Total value of fuels	\$000	289 723	87 173	64 772	441 668
Electricity purchased	million kWh	11 248	2 333	435	14 016
	\$000	396 358	107 876	29 273	533 507
Total value of fuels and electricity purchased, all reporting companies	\$000	686 082	195 049	94 045	975 176

Sources: Natural Resources Canada; Statistics Canada.

– Nil.

¹ Cement manufacturing, lime manufacturing, clay and clay products (domestic clays) are included in the mineral manufacturing industry. ² Includes wood, manufactured gas, steam purchased, and other miscellaneous fuels.

Note: Numbers may not add to totals due to rounding.

TABLE 24. CANADA, COST OF FUEL AND ELECTRICITY USED IN THE NON-FUEL MINERAL INDUSTRY,¹ 1992-96

	Unit	1992	1993	1994	1995	1996
METALS						
Fuel	\$000	212 634	194 325	207 602	237 376	289 723
Electricity purchased	million kWh	11 347	10 743	10 705	11 527	11 248
	\$000	399 545	379 974	368 124	408 270	396 358
Total cost of fuel and electricity	\$000	612 179	574 299	575 726	645 646	686 082
NONMETALS						
Fuel	\$000	77 712	80 224	96 445	91 148	87 173
Electricity purchased	million kWh	2 138	2 102	2 301	2 363	2 333
	\$000	96 564	98 528	108 050	109 676	107 876
Total cost of fuel and electricity	\$000	174 276	178 752	204 496	200 824	195 049
STRUCTURAL MATERIALS						
Fuel	\$000	34 380	33 610	42 830	58 609	64 772
Electricity purchased	million kWh	347	357	361	380	435
	\$000	21 440	23 082	24 077	25 273	29 273
Total cost of fuel and electricity	\$000	55 820	56 692	66 907	83 882	94 045
TOTAL NON-FUEL MINERAL INDUSTRY						
Fuel	\$000	324 726	308 159	346 877	387 133	441 668
Electricity purchased	million kWh	13 832	13 202	13 367	14 270	14 016
	\$000	517 549	501 584	500 252	543 219	533 507
Total cost of fuel and electricity	\$000	842 275	809 743	847 129	930 353	975 176

Sources: Natural Resources Canada; Statistics Canada.

¹ Cement manufacturing, lime manufacturing, clay and clay products (domestic clays) are included in the mineral manufacturing industry.

Note: Numbers may not add to totals due to rounding.

**TABLE 25. CANADA, EMPLOYMENT IN THE MINERAL INDUSTRY,
STAGE I – MINERAL EXTRACTION AND CONCENTRATING (TOTAL
ACTIVITY),¹ 1961-98**

Year	Metal Mines	Nonmetal Mines	Structural Materials	Non-Fuel Minerals	Coal	Crude Oil and Natural Gas	Total Non-Fuel and Fuel Mineral Industries
SIC no.	061	062	081, 082	061, 062 081, 082	063	071	
(number)							
1961	58 591	11 003	5 235	74 829	10 302	11 184	96 315
1962	58 243	11 408	5 514	75 165	9 897	11 232	96 294
1963	57 119	11 661	5 686	74 466	9 828	11 237	95 531
1964	57 648	11 727	6 044	75 419	9 796	11 242	96 457
1965	60 942	12 116	6 248	79 306	9 697	11 817	100 820
1966	61 670	12 422	6 312	80 404	9 281	12 378	102 063
1967	61 728	13 077	5 779	80 584	8 981	13 113	102 678
1968	63 369	13 673	5 836	82 878	8 427	13 611	104 916
1969	60 550	14 322	5 692	80 564	7 371	14 153	102 088
1970	66 590	15 150	5 510	87 250	7 874	14 970	110 094
1971	66 012	15 105	5 328	86 445	8 069	15 896	110 410
1972	61 994	14 866	5 154	82 014	8 704	16 604	107 322
1973	66 134	15 391	5 276	86 801	7 856	16 786	111 443
1974	70 038	16 198	6 197	92 433	8 142	18 155	118 730
1975	69 161	13 703	6 382	89 246	8 416	18 053	115 715
1976	68 269	15 649	5 685	89 603	8 995	19 096	117 694
1977	67 242	16 608	5 190	89 040	9 781	20 240	119 061
1978	56 447	16 035	4 847	77 329	10 574	22 045	109 948
1979	58 960	16 770	4 692	80 422	10 269	24 554	115 245
1980	66 118	16 979	4 461	87 558	11 416	27 448	126 422
1981	68 712	16 391	4 183	89 286	11 182	28 783	129 251
1982	61 503	13 680	3 491	78 674	13 113	31 699	123 486
1983	52 194	13 170	3 403	68 767	11 646	33 418	113 831
1984	52 683	13 698	3 560	69 941	11 905	33 944	115 790
1985	48 672	12 974	3 941	65 587	12 076	38 720	116 383
1986	46 487	12 376	4 887	63 750	10 747	34 936	109 433
1987	45 496	12 181	5 738	63 415	10 406	33 855	107 676
1988	48 277	11 679	5 917	65 873	11 122	33 762	110 757
1989	49 405	11 714	5 881	67 000	11 279	32 696	110 975
1990	45 248	11 515	5 376	62 139	11 017	31 926	105 082
1991	42 092	10 812	5 026	57 930	10 817	31 450	100 197
1992	37 774	10 419	4 338	52 531	9 726	27 678	89 935
1993	34 746	10 500	4 219	49 465	8 860	26 598	84 923
1994	33 380	10 627	5 300	49 307	8 888 ^r	27 693	85 888 ^r
1995	35 182	10 288	6 660	52 130	9 063 ^r	26 491	87 684 ^r
1996	34 257	9 620	6 501	50 378	9 177	34 939	94 494
1997 ^p	33 047	9 751	6 617	49 415	8 995	36 288	94 698
1998 ^f	30 680	9 581	7 763	48 024	7 722	37 869	93 615

Sources: Natural Resources Canada; Statistics Canada.

SIC: Standard Industrial Classification, 1980.

^f Forecast; ^p Preliminary; ^r Revised.

¹ Total activity includes sales and head offices.

TABLE 26. CANADA, EMPLOYMENT IN THE NON-FUEL MINERAL INDUSTRY, STAGE I - MINERAL EXTRACTION AND CONCENTRATING (TOTAL ACTIVITY),¹ 1961-98

Year	Gold	Uranium	Iron	Nickel, Copper, Zinc	Silver, Lead, Zinc	Other Nonferrous	Asbestos	Peat	Gypsum	Potash	Salt	Misc. Nonmetals	Other Nonmetals	Stone Quarries	Sand and Gravel	Total Non-Fuel Mineral Industry
SIC no.	0611	0616	0617	0612, 0613	0614	0615, 0619	0621	0622	0623	0624	0625	0629	0625, 0629	081	082	
	(number)															
1961	15 994	(2)	8 446	23 351	4 524	6 276	6 773	1 207	599	(3)	(3)	(3)	2 424	3 173	2 062	74 829
1962	15 425	(2)	9 181	23 383	4 669	5 585	6 936	1 220	594	(3)	(3)	(3)	2 658	3 221	2 293	75 165
1963	14 639	(2)	9 608	22 703	5 163	5 006	6 828	1 303	677	(3)	(3)	(3)	2 853	3 477	2 209	74 466
1964	14 012	(2)	9 544	23 848	5 898	4 346	6 544	1 290	710	(3)	(3)	(3)	3 183	3 718	2 326	75 419
1965	13 155	(2)	11 739	25 892	6 121	4 035	6 536	1 201	646	1 050	(3)	(3)	2 683	3 511	2 737	79 306
1966	11 656	(2)	11 464	27 651	6 356	4 543	6 736	1 254	585	1 195	(3)	(3)	2 652	3 701	2 611	80 404
1967	10 355	(2)	10 899	29 288	6 030	5 156	6 931	1 261	505	1 724	(3)	(3)	2 656	3 381	2 398	80 584
1968	9 001	(2)	11 342	30 557	6 320	6 149	7 213	1 306	489	2 086	(3)	(3)	2 579	3 340	2 496	82 878
1969	8 221	(2)	10 490	28 679	6 467	6 693	7 242	1 156	657	2 713	(3)	(3)	2 554	3 252	2 440	80 564
1970	7 185	(2)	11 336	36 253	7 103	4 713	7 664	1 195	671	2 837	(3)	(3)	2 783	3 023	2 487	87 250
1971	6 148	(2)	11 524	37 713	6 506	4 121	8 101	1 269	603	2 519	(3)	(3)	2 613	2 832	2 496	86 445
1972	5 579	(2)	10 842	36 012	6 057	3 504	7 843	1 114	670	2 440	(3)	(3)	2 799	2 803	2 351	82 014
1973	5 603	(2)	13 395	37 602	6 112	3 422	8 027	1 236	676	2 684	(3)	(3)	2 768	3 097	2 179	86 801
1974	5 665	(2)	15 019	38 876	6 722	3 756	8 131	1 288	671	3 224	(3)	(3)	2 884	3 458	2 739	92 433
1975	5 798	(2)	16 155	35 538	7 362	4 308	6 042	1 303	576	3 351	(3)	(3)	2 431	3 544	2 838	89 246
1976	5 051	3 430	16 765	34 049	7 351	1 623	7 900	1 168	591	3 270	(3)	(3)	2 720	3 217	2 468	89 603
1977	4 643	4 140	15 550	33 703	7 512	1 694	8 302	1 244	652	3 628	(3)	(3)	2 782	3 004	2 186	89 040
1978	4 943	4 965	12 103	25 610	7 073	1 753	7 752	1 295	683	3 708	(3)	(3)	2 597	2 876	1 971	77 329
1979	5 013	5 858	14 563	25 116	7 081	1 329	8 067	1 372	738	3 905	(3)	(3)	2 688	2 860	1 832	80 422
1980	5 839	6 304	13 753	31 063	7 349	1 810	8 055	1 308	715	4 160	(3)	(3)	2 741	2 660	1 801	87 558
1981	6 809	6 869	12 397	33 246	7 740	1 651	6 829	1 441	711	4 661	(3)	(3)	2 749	2 418	1 765	89 286
1982	7 350	6 035	10 676	28 851	6 837	1 754	4 973	1 323	614	4 076	(3)	(3)	2 694	2 028	1 463	78 674
1983	7 956	5 390	8 236	24 953	5 073	586	4 617	1 301	682	3 696	(3)	(3)	2 874	1 980	1 423	68 767
1984	8 450	6 249	7 843	24 000	5 165	976	4 177	1 369	770	4 508	(3)	(3)	2 874	2 256	1 304	69 941
1985	7 862	5 989	7 077	22 073	4 724	947	3 569	1 363	753	4 488	(3)	(3)	2 801	2 340	1 601	65 587
1986	8 562	5 608	6 379	20 616	4 162	1 160	2 766	1 468	990	4 315	(3)	(3)	2 837	2 627	2 260	63 750
1987	9 757	5 289	6 039	18 979	4 372	1 060	2 858	1 510	929	4 094	(3)	(3)	2 790	2 911	2 827	63 415
1988	12 594	5 103	6 095	18 881	4 443	1 161	2 720	1 581	956	3 970	(3)	(3)	2 452	2 981	2 936	65 873
1989	12 631	4 839	6 303	19 837	4 487	1 308	2 800	1 713	965	3 893	(3)	(3)	2 343	3 145	2 736	67 000
1990	11 807	3 702	5 820	19 104	3 727	1 088	2 699	1 740	786	3 822	(3)	(3)	2 468	2 951	2 425	62 139
1991	10 869	2 391	5 683	18 634	3 459	1 056	2 423	1 519	636	3 825	1 575	834	2 409	2 774	2 252	57 930
1992	9 403	1 702	5 090	17 128	3 664	787	2 289	1 448	672	3 779	1 520	711	2 231	2 496	1 842	52 531
1993	8 810	1 467	4 648	15 892	3 134	795	2 253	1 624	698	3 657	1 547	721	2 268	2 448	1 771	49 465
1994	9 192	1 503	4 700	14 463	2 645	877	2 159	1 928	693	3 644	1 518	685	2 203	2 681	2 619	49 307
1995	9 849	1 530	4 852	15 059	2 898	994	x	1 951	689	3 573	1 433	x	x	2 981	3 679	52 130
1996	10 099	1 299	4 736	14 074	3 061	988	x	1 485	691	3 506	1 308	x	x	2 914	3 587	50 378
1997 ^p	9 656	1 024	4 839	13 478	3 058	992	x	1 536	651	3 444	1 466	x	x	2 965	3 652	49 415
1998 ^f	8 964 ^{pr}	951 ^{pr}	4 492 ^{pr}	12 513 ^{pr}	2 839 ^{pr}	921 ^{pr}	x	1 509 ^{pr}	640 ^{pr}	3 384 ^{pr}	1 440 ^{pr}	x	x	3 848	3 915	48 024

Sources: Natural Resources Canada; Statistics Canada.

SIC: Standard Industrial Classification, 1980.

^f Forecast; ^p Preliminary; ^{pr} Pro-rated; x Confidential.¹ Total activity includes sales and head offices. (2) Included in "Other Nonferrous." (3) Included in "Other Nonmetals."

Note: Numbers may not add to totals due to rounding.

**TABLE 27. CANADA, EMPLOYMENT IN THE MINERAL INDUSTRY,
STAGE II – SMELTING AND REFINING (TOTAL ACTIVITY),¹
1961-98**

Year	Smelting/ Refining	Iron and Steel Mills	Total Primary Metals	Petroleum Refineries	Total Smelting and Refining
SIC no.	295	291	291, 295 (number)	3611	
1961	29 938	34 749	64 687	10 660	75 347
1962	29 693	36 593	66 286	10 184	76 470
1963	28 516	38 196	66 712	9 734	76 446
1964	30 153	41 505	71 658	9 547	81 205
1965	31 835	44 274	76 109	8 976	85 085
1966	34 237	45 999	80 236	8 996	89 232
1967	34 764	44 203	78 967	9 147	88 114
1968	34 710	44 634	79 344	9 091	88 435
1969	33 376	42 954	76 330	8 765	85 095
1970	37 298	49 169	86 467	14 725	101 192
1971	36 445	49 601	86 046	14 506	100 552
1972	33 829	49 758	83 587	14 376	97 963
1973	32 396	53 008	85 404	14 843	100 247
1974	35 249	54 253	89 502	15 967	105 469
1975	35 577	54 003	89 580	15 624	105 204
1976	34 246	51 978	86 224	15 105	101 329
1977	35 647	52 709	88 356	16 464	104 820
1978	32 652	56 669	89 321	18 958	108 279
1979	32 869	59 167	92 036	18 037	110 073
1980	36 137	61 238	97 375	18 743	116 118
1981	38 011	56 543	94 554	21 325	115 879
1982	33 215	52 330	85 545	20 155	105 700
1983	31 788	47 693	79 481	17 557	97 038
1984	31 752	48 899	80 651	15 847	96 498
1985	30 567	47 685	78 252	15 326	93 578
1986	29 058	46 461	75 519	13 287	88 806
1987	29 397	46 493	75 890	13 252	89 142
1988	30 099	48 259	78 358	13 358	91 716
1989	30 651	46 738	77 389	13 881	91 270
1990	30 573	39 120	69 693	13 820	83 513
1991	28 817	38 126	66 943 ^a	12 459	79 402
1992	27 837	35 268	63 105	11 032	74 137
1993	26 175	33 327	59 502	10 819	70 321
1994	24 231	33 097	57 328	10 262	67 590
1995	25 763	32 844	58 607	9 329	67 936
1996	26 529	32 190	58 719	9 303	68 022
1997 ^e	26 489	32 112	58 601	8 772 ^{pr}	67 372
1998 ^f	26 541	33 047	59 588	9 143 ^{pr}	68 731

Sources: Natural Resources Canada; Statistics Canada.

SIC: Standard Industrial Classification, 1980.

^e Estimated; ^f Forecast; ^{pr} Pro-rated.

^a Change is partially due to the reclassification of a unit from SIC 295 to SIC 296 effective May 1991.

¹ Total activity includes sales and head offices.

Note: Numbers may not add to totals due to rounding.

TABLE 28. CANADA, EMPLOYMENT IN THE MINERAL INDUSTRY, STAGE III – SEMI-FABRICATION (TOTAL ACTIVITY),¹ 1961-98

Year	Total Non-Fuel Semi-Fabrication	Miscellaneous Petroleum and Coal Products	Lubricating Oil and Greases	Total Semi-Fabrication
SIC no. ²		369	3612	
		(number)		
1961	77 063	581	331	77 975
1962	80 606	608	352	81 566
1963	82 420	635	354	83 409
1964	87 843	726	373	88 942
1965	93 912	531	408	94 851
1966	98 602	585	424	99 611
1967	96 033	546	407	96 986
1968	96 375	518	397	97 290
1969	99 438	532	438	100 408
1970	96 144	499	423	97 066
1971	95 831	561	450	96 842
1972	101 109	555	478	102 142
1973	105 884	757	487	107 128
1974	109 818	954	514	111 286
1975	104 296	984	656	105 936
1976	103 411	982	602	104 995
1977	101 257	716	669	102 642
1978	107 234	683	712	108 629
1979	111 231	461	695	112 387
1980	105 902	532	798	107 232
1981	103 192	584	729	104 505
1982	90 194	571	792	91 557
1983	86 814	503	857	88 174
1984	91 405	521	896	92 822
1985	94 515	513	900	95 928
1986	96 744	778	1 001	98 523
1987	99 963	894	1 002	101 859
1988	103 307	1 161	1 091	105 559
1989	101 419	1 135	1 029	103 583
1990	94 544	1 000	1 048	96 592
1991	87 091	1 138	1 046	89 275
1992	81 001	1 390	993	83 384
1993	79 389	1 401	1 864	82 654
1994	80 886	1 415	1 877	84 178
1995	83 931	1 444	1 569	86 944
1996	83 366	1 521	1 567	86 454
1997 ^e	87 247	1 665	1 477 ^{pr}	90 389
1998 ^f	94 134	2 222	1 540 ^{pr}	97 896

Sources: Natural Resources Canada; Statistics Canada.

SIC: Standard Industrial Classification, 1980.

^e Estimated; ^f Forecast; ^{pr} Pro-rated.¹ Includes sales and head offices. ² 1970 SIC for years 1961-82.

Note: Numbers may not add to totals due to rounding.

TABLE 29. CANADA, EMPLOYMENT IN THE MINERAL INDUSTRY, STAGE III – NON-FUEL SEMI-FABRICATION (TOTAL ACTIVITY),¹ 1961-98

Year	Steel Pipe and Tube	Iron Foundries	Aluminum Rolling, Casting, Extruding	Copper Rolling, Casting, Extruding	Other Rolling, Casting, Extruding	Wire and Wire Products	Clay and Clay Products	Cement	Concrete Products	Ready-Mix Concrete	Glass and Glass Products ²	Abrasives	Lime	Other Non-metallic Products	Total Non-Fuel Semi-Fabrication
SIC no.	292	294	296	297	299	305	351	352	354	355	356	357	358	359	
(number)															
1961	3 407	8 178	5 095	3 482	2 731	12 227	5 327	3 590	8 503	4 232	9 802	2 481	847	7 161	77 063
1962	3 676	8 546	5 118	3 492	2 770	13 045	5 468	3 679	9 156	4 886	10 042	2 577	949	7 202	80 606
1963	3 840	8 216	5 164	3 651	3 038	13 743	5 376	3 566	9 317	5 411	10 346	2 464	886	7 402	82 420
1964	4 437	9 620	4 834	3 849	3 382	14 850	5 582	3 592	10 225	6 171	10 362	2 580	815	7 544	87 843
1965	4 799	11 714	4 654	3 620	3 736	16 099	5 675	3 837	10 988	6 559	10 873	2 821	800	7 737	93 912
1966	4 795	13 027	4 943	4 199	4 103	16 391	5 876	4 053	11 090	7 349	11 248	3 044	785	7 699	98 602
1967	5 012	11 970	5 468	4 027	4 287	16 060	5 559	3 972	10 321	7 137	11 388	2 734	724	7 374	96 033
1968	5 441	11 131	5 491	3 947	4 585	16 082	5 515	3 747	10 166	7 440	11 992	2 617	662	7 559	96 375
1969	5 146	11 582	6 028	3 922	4 856	17 014	5 383	3 778	11 011	7 509	12 031	2 697	707	7 774	99 438
1970	5 314	10 663	6 297	3 744	4 060	16 598	4 938	3 887	9 562	7 340	11 654	2 559	660	8 868	96 144
1971	5 306	9 897	5 612	3 608	3 845	16 272	4 682	3 954	10 719	7 997	11 672	2 310	670	9 287	95 831
1972	6 268	9 948	6 200	3 740	4 215	17 651	4 695	4 732	10 817	8 240	12 045	2 367	651	9 540	101 109
1973	5 288	10 965	6 206	3 736	4 863	18 877	5 001	4 871	10 790	9 233	12 840	2 555	724	9 935	105 884
1974	5 845	12 054	6 162	3 779	4 877	19 535	5 289	4 666	11 602	9 219	12 915	2 676	840	10 359	109 818
1975	5 785	11 480	5 672	3 240	4 573	17 614	5 042	4 577	11 201	9 541	11 779	2 318	790	10 684	104 296
1976	5 546	10 365	6 255	3 297	5 354	17 573	4 791	4 517	10 773	9 128	11 836	2 535	804	10 637	103 411
1977	5 634	10 459	6 884	3 183	4 703	17 886	4 553	4 265	10 001	8 521	11 204	2 557	828	10 579	101 257
1978	6 289	10 472	7 060	3 586	5 268	18 823	4 366	4 520	10 486	9 520	11 595	2 678	784	11 787	107 234
1979	6 480	10 520	7 698	3 728	6 292	19 765	4 947	4 828	9 766	9 332	11 835	2 660	925	12 455	111 231
1980	6 514	9 245	6 627	3 230	5 749	18 529	4 875	4 791	9 280	9 348	11 967	2 628	1 003	12 116	105 902
1981	7 531	8 358	6 512	3 031	5 182	17 309	4 145	4 726	9 121	10 053	12 003	2 571	968	11 682	103 192
1982	6 017	8 163	6 255	2 541	4 694	14 575	3 004	4 317	8 245	8 034	11 016	2 170	895	10 268	90 194
1983	4 521	7 364	6 415	2 744	4 827	13 493	3 008	4 057	7 286	8 390	11 896	1 852	862	10 099	86 814
1984	5 482	7 911	6 661	2 971	5 274	14 212	3 070	3 771	7 657	8 802	12 754	1 949	876	10 015	91 405
1985	5 978	7 750	6 196	3 012	5 620	15 354	2 727	3 533	8 336	9 210	12 872	1 895	783	11 249	94 515
1986	4 829	7 547	6 200	3 059	6 357	15 262	3 770	3 514	9 174	10 422	13 448	1 827	778	10 557	96 744
1987	4 964	7 860	6 143	2 828	6 403	14 943	3 930	3 646	10 309	11 910	13 605	1 693	784	10 945	99 963
1988	6 008	8 095	6 124	3 040	7 049	15 154	3 261	3 388	11 386	12 461	13 336	1 917	873	11 215	103 307
1989	5 438	7 538	6 285	3 119	6 645	15 077	3 044	3 350	11 505	12 377	12 664	2 039	871	11 467	101 419
1990	5 319	8 397	5 463	2 316	5 479	12 965	2 563	3 259	10 627	12 798	11 733	1 837	836	10 952	94 544
1991	5 618	7 680	5 169	2 211	4 710	12 369	2 254	3 111	9 442	11 633	10 855	1 408	861	9 770	87 091
1992	4 808	7 394	4 998	2 066	5 100	11 580	2 204	2 962	7 741	10 982	10 053	1 523	771	8 819	81 001
1993	5 555	7 174	5 128	2 111	4 946	11 814	1 686	2 786	7 387	10 438	9 676	1 395	731	8 562	79 389
1994	5 889	7 412	5 763	2 092	5 431	12 386	1 647	2 762	7 195	10 389	9 359	1 335	763	8 463	80 886
1995	5 675	7 736	5 713	2 023	6 043	13 249	1 762	2 784	8 000	10 233	9 542	1 451	793	9 927	83 931
1996	6 014	7 002	6 036	2 100	6 370	12 548	1 714	2 659	7 552	10 488	9 836	1 247	741	9 059	83 366
1997 ^e	5 433	5 708	7 461	2 421	6 746	13 449	1 766	2 860	9 205	11 245	9 570	1 285	763	9 334	87 247
1998 ^f	5 732	6 368	8 168	2 711	6 771	14 656	1 925	3 117	9 808	12 176	10 294	1 401	832	10 175	94 134

Sources: Natural Resources Canada; Statistics Canada.

SIC: Standard Industrial Classification, 1980.

^e Estimated; ^f Forecast.

¹ Includes sales and head offices. ² Includes sealed window manufacturers until 1969; thereafter, these are included in Stage IV – Ornamental Metal Products.

Note: Numbers may not add to totals due to rounding.

TABLE 30. CANADA, EMPLOYMENT IN THE MINERAL INDUSTRY, STAGE IV – METALLIC MINERAL MANUFACTURING (TOTAL ACTIVITY),¹ 1961-98

Year	Boilers	Structural Metal Products	Ornamental Metal Products	Stamped, Pressed and Coated Products	Hardware Tools and Cutlery	Heating Equipment	Machine Parts	Other Metal Fabricating	Total Mineral Manufacturing
SIC no.	301	302	303	304	306	307	308	309	
(number)									
1961	4 709	14 231	10 641	21 156	9 135	5 137	7 756	15 249	88 014
1962	4 886	14 802	11 640	23 606	10 223	5 349	8 603	16 283	95 392
1963	5 350	14 212	12 459	24 024	11 112	5 586	9 179	16 627	98 549
1964	5 429	14 602	12 808	25 192	13 110	5 673	10 137	18 088	105 039
1965	6 496	18 072	13 439	27 925	13 570	5 711	11 618	20 017	116 848
1966	7 239	21 038	13 488	29 577	14 326	5 464	13 235	21 431	125 798
1967	6 622	18 547	12 994	29 830	14 056	5 461	13 810	21 007	122 327
1968	7 962	17 150	12 664	29 560	14 166	4 930	13 501	20 825	120 758
1969	7 494	18 203	12 784	30 463	14 401	5 059	14 517	20 895	123 816
1970	7 661	19 104	12 417	29 709	15 241	4 670	14 221	20 543	123 566
1971	7 847	17 556	12 614	28 710	14 920	4 749	13 097	20 755	120 248
1972	8 136	17 113	13 611	27 939	16 386	4 238	11 731	21 504	120 658
1973	8 013	18 164	13 937	30 026	18 819	4 453	10 138	22 494	126 044
1974	8 681	20 020	14 470	31 276	20 234	4 930	10 936	23 663	134 210
1975	10 211	19 101	15 241	30 273	18 990	4 717	10 922	23 810	133 265
1976	10 704	18 056	15 541	31 487	19 316	4 977	10 764	23 704	134 549
1977	9 660	17 209	14 800	30 888	17 867	4 538	10 762	23 298	129 022
1978	9 124	16 759	16 753	34 181	18 856	5 086	12 029	24 904	137 692
1979	9 477	18 676	18 018	33 548	21 090	5 818	13 081	23 705	143 413
1980	10 374	17 700	17 890	32 266	20 830	5 993	13 449	24 217	142 719
1981	11 215	18 445	17 603	32 459	19 575	5 806	14 297	22 123	141 523
1982	10 965	17 021	15 228	29 865	17 342	5 317	13 083	18 167	126 988
1983	5 413	18 437	13 537	27 947	16 609	5 032	12 881	16 044	115 900
1984	4 548	17 162	13 538	27 758	17 308	4 220	14 200	16 256	114 990
1985	4 455	18 083	15 598	31 021	19 297	5 607	15 356	14 927	124 344
1986	4 990	19 213	17 462	31 584	21 164	5 779	17 259	15 170	132 621
1987	4 816	18 615	19 770	35 329	22 129	6 252	18 398	16 358	141 667
1988	6 182	19 689	20 795	36 976	23 042	6 390	22 681	17 887	153 642
1989	5 407	23 006	22 591	36 707	25 626	7 076	24 639	20 099	165 151
1990	5 234	21 277	21 075	33 665	22 475	6 112	24 271	19 298	153 407
1991	5 081	18 667	19 885	30 348	21 912	5 246	23 092	16 770	141 001
1992	5 557	15 236	16 523	28 512	19 084	4 187	18 374	15 312	122 785
1993	5 277	14 769	14 554	28 396	20 051	4 463	18 840	14 442	120 792
1994	5 167	15 342	14 484	29 518	21 716	4 919	21 290	15 630	128 066
1995	5 012	17 706	14 501	31 562	22 704	5 280	24 691	17 258	138 714
1996	3 278	18 461	15 037	30 615	23 088	4 836	26 180	16 386	137 881
1997 ^e	2 756	20 957	14 081	33 601	25 460	4 079	28 099	19 595	148 627
1998 ^f	2 542	23 714	15 045	34 213	28 556	4 462	28 315	20 917	157 764

Sources: Natural Resources Canada; Statistics Canada.

SIC: Standard Industrial Classification, 1980.

^e Estimated; ^f Forecast.¹ Total activity includes sales and head offices.

Note: Numbers may not add to totals due to rounding.

TABLE 31. CANADA, EMPLOYMENT FOR SERVICES INCIDENTAL TO MINES, QUARRIES AND OIL WELLS, 1961-98^a

Year	Petroleum and Natural Gas Contract Drilling	Mining Diamond Drilling	Other Services Incidental to Mines, Quarries and Oil Wells	Total
(number)				
1961	4 144	2 025	1 409	7 578
1962	3 800	1 926	1 720	7 446
1963	4 179	2 201	1 491	7 871
1964	4 158	2 401	2 077	8 636
1965	4 648	2 776	3 137	10 561
1966	4 428	2 887	4 317	11 632
1967	4 249	2 669	5 425	12 343
1968	4 434	2 985	6 350	13 769
1969	4 821	3 109	6 967	14 897
1970	4 267	3 207	7 894	15 368
1971	4 093	2 514	7 710	14 317
1972	4 817	2 083	6 139	13 039
1973	5 680	2 123	5 193	12 996
1974	5 054	2 317	5 017	12 388
1975	5 096	1 899	4 139	11 134
1976	5 486	1 548	5 043	12 077
1977	6 054	1 682	5 723	13 459
1978	7 419	1 681	7 492	16 592
1979	9 076	2 420	8 436	19 932
1980	11 097	2 959	9 327	23 383
1981	8 448	2 721	9 856	21 025
1982	6 882	1 880	7 752	16 514
1983	12 032	1 575	12 254	25 861
1984	33 577	1 684	10 602	45 863
1985	37 516	1 625	12 191	51 332
1986	31 480	2 198	11 582	45 260
1987	30 400	3 353	11 174	44 928
1988	32 376	3 201	12 384	47 961
1989	29 017	2 072	11 052	42 141
1990	28 138	1 848	9 540	39 525
1991	29 909	1 395	8 606	39 910
1992	23 074	1 143	6 957	31 174
1993	25 426	1 515	6 284	33 225
1994	32 909	1 744	7 810	42 463
1995	28 177	1 832	8 041	38 050
1996	26 354	2 155	8 488	36 998
1997 ^p	32 150	2 124	8 738	43 012
1998 ^f	34 964	2 124	7 585	44 672

Sources: Natural Resources Canada; Statistics Canada.

SIC: Standard Industrial Classification, 1980.

^f Forecast; ^p Preliminary.

^a From 1961 to 1983, Petroleum and Natural Gas Contract Drilling included SIC Code 0911, Mining Diamond Drilling included SIC Code 0921, and Other Services Incidental to Mines, Quarries and Oil Wells included both SIC Codes 0919 and 0929. For data beginning in the year 1984, these series changed. Petroleum and Natural Gas Contract Drilling includes both SIC Codes 0911 and 0919, Mining Diamond Drilling includes SIC Code 0921, and Other Services Incidental to Mines and Quarries (excluding Oil Wells) includes SIC Code 0929 only.

Note: Numbers may not add to totals due to rounding.

TABLE 32. CANADA, EMPLOYMENT, SALARIES AND WAGES IN THE MINERAL INDUSTRY,¹ 1989-96

	Unit	1989	1990	1991	1992	1993	1994	1995	1996
METALS									
Production and related workers	Number	37 451	33 895	31 168	27 908	25 762	24 809	26 344	25 830
Salaries and wages	\$000	1 707 653	1 674 050	1 627 254	1 532 118	1 374 090	1 376 286	1 500 141	1 533 204
Average annual salary and wage	\$	45 597	49 389	52 209	54 899	53 338	55 475	56 944	59 357
Administrative and office workers	Number	11 835	11 353	10 924	9 866	8 984	8 571	8 838	8 427
Salaries and wages	\$000	592 921	603 486	626 302	587 210	532 735	526 076	558 984	554 226
Average annual salary and wage	\$	50 099	53 157	57 333	59 519	59 298	61 379	63 248	65 768
Total metals									
Employees	Number	49 405	45 248	42 092	37 774	34 746 ^r	33 380	35 182	34 257
Salaries and wages	\$000	2 307 891	2 277 536	2 253 556	2 119 328	1 906 825	1 902 362	2 059 125	2 087 429
Average annual salary and wage	\$	46 714	50 335	53 539	56 105	54 879	56 991	58 528	60 934
NONMETALS²									
Production and related workers	Number	8 730	8 736	8 055	7 938	7 974	8 094	7 855	7 232
Salaries and wages	\$000	298 008	300 325	301 481	313 175	316 207	336 277	346 297	331 027
Average annual salary and wage	\$	34 136	34 378	37 428	39 453	39 655	41 546	44 086	45 772
Administrative and office workers	Number	2 984	2 779	2 757	2 481	2 526	2 533	2 433	2 388
Salaries and wages	\$000	127 774	125 740	133 255	122 356	125 008	124 704	127 452	129 484
Average annual salary and wage	\$	42 820	45 246	48 333	49 317	49 489	49 232	52 385	54 223
Total nonmetals									
Employees	Number	11 714	11 515	10 812	10 419	10 500	10 627	10 288	9 620
Salaries and wages	\$000	425 783	426 064	434 736	435 531	441 215	460 981	473 749	460 511
Average annual salary and wage	\$	36 348	37 001	40 209	41 802	42 020	43 378	46 049	47 870
MINERAL FUELS (COAL)									
Production and related workers	Number	9 166	8 961	8 775	7 804	7 204	7 272	7 423	7 458
Salaries and wages	\$000	414 402	398 043	391 289	319 110	334 274	371 786	384 630	418 016
Average annual salary and wage	\$	45 211	44 419	44 591	40 891	46 401	51 126	51 816	56 049
Administrative and office workers	Number	2 113	2 056	2 042	1 922	1 656	1 616	1 640	1 719
Salaries and wages	\$000	106 050	95 426	103 853	98 604	85 078	87 713	93 402	93 808
Average annual salary and wage	\$	50 189	46 413	50 858	51 303	51 376	54 278	56 952	54 471
Total mineral fuels									
Employees	Number	11 279	11 017	10 817	9 726	8 860	8 888 ^r	9 063 ^r	9 177
Salaries and wages	\$000	520 452	493 469	495 142	417 714	419 352	459 499 ^r	478 032 ^r	511 824
Average annual salary and wage	\$	46 143	44 792	45 774	42 948	47 331	51 699 ^r	52 745 ^r	55 772
STRUCTURAL MATERIALS									
Production and related workers	Number	4 246	3 966	3 644	3 169	3 113	3 908	5 106	4 956
Salaries and wages	\$000	142 742	138 400	126 030	114 101	115 333	143 405	190 206	184 265
Average annual salary and wage	\$	33 618	34 897	34 586	36 005	37 049	36 695	37 251	37 180
Administrative and office workers	Number	1 635	1 413	1 382	1 169	1 106	1 392	1 554	1 545
Salaries and wages	\$000	63 783	55 682	53 655	50 121	46 068	53 559	61 363	62 342
Average annual salary and wage	\$	39 011	39 407	38 824	42 875	41 653	38 476	39 487	40 363
Total structural materials									
Employees	Number	5 881	5 376	5 026	4 338	4 219	5 300	6 660	6 501
Salaries and wages	\$000	206 525	194 081	179 685	164 222	161 401	196 964	251 569	246 607
Average annual salary and wage	\$	35 117	36 101	35 751	37 857	38 256	37 163	37 773	37 931
TOTAL MINERAL INDUSTRY									
Production and related workers	Number	59 593	55 558	51 642	46 819	44 053	44 083	46 728	45 476
Salaries and wages	\$000	2 562 805	2 510 817	2 446 055	2 278 504	2 139 903	2 227 755	2 421 274	2 466 512
Average annual salary and wage	\$	43 005	45 193	47 366	48 666	48 576	50 535	51 816	54 238
Administrative and office workers	Number	18 567	17 601	17 105	15 438	14 272	14 112	14 465	14 079
Salaries and wages	\$000	890 528	880 333	917 064	858 290	788 890	792 052	841 201	839 860
Average annual salary and wage	\$	47 963	50 016	53 614	55 596	55 275	56 126	58 154	59 655
Total mineral industry									
Employees	Number	78 279	73 156	68 747	62 247	58 325	58 195 ^r	61 193 ^r	59 555
Salaries and wages	\$000	3 460 651	3 391 151	3 363 119	3 136 794	2 928 793	3 019 806 ^r	3 262 475 ^r	3 306 371
Average annual salary and wage	\$	44 209	46 355	48 920	50 385	50 215	51 890 ^r	53 315 ^r	55 518

Sources: Natural Resources Canada; Statistics Canada.

^r Revised.¹ Cement manufacturing, lime manufacturing, clay and clay products (domestic clays) are included in the mineral manufacturing industry. ² Includes structural materials.

Notes: This table no longer includes data for the petroleum and natural gas industries. Numbers may not add to totals due to rounding.

TABLE 33. CANADA, NUMBER OF WAGE EARNERS EMPLOYED IN THE NON-FUEL MINERAL INDUSTRY (SURFACE, UNDERGROUND AND MILL), 1989-96

	1989	1990	1991	1992	1993	1994	1995	1996
	(number)							
METALS								
Surface	9 358	8 608	7 545	6 550	5 973	4 526	4 467	6 358
Underground	16 116	14 454	13 614	12 205	11 281	11 396	12 305	10 610
Mill	11 977	10 833	10 009	9 153	8 508	8 888	9 572	8 862
Total	37 451	33 895	31 168	27 908	25 762	24 810	26 344	25 830
NONMETALS								
Surface	2 101	2 039	1 719	1 785	1 912	1 945	1 796	1 702
Underground	2 251	2 309	2 214	2 125	2 098	2 093	1 967	1 926
Mill	4 378	4 388	4 122	4 028	3 964	4 056	4 092	3 604
Total	8 730	8 736	8 055	7 938	7 974	8 094	7 855	7 232
STRUCTURAL MATERIALS								
Surface	3 643	3 348	3 181	2 768	2 708	3 373	4 573	4 349
Underground	—	—	—	—	—	—	—	—
Mill	603	618	463	401	405	535	533	607
Total	4 246	3 966	3 644	3 169	3 113	3 908	5 106	4 956
TOTAL NON-FUEL MINERAL INDUSTRY								
Surface	15 102	13 995	12 445	11 103	10 593	9 844	10 836	12 409
Underground	18 367	16 763	15 828	14 330	13 379	13 489	14 272	12 536
Mill	16 958	15 839	14 594	13 582	12 877	13 479	14 197	13 073
Total	50 427	46 597	42 867	39 015	36 849	36 812	39 305	38 018

Source: Natural Resources Canada.

— Nil.

Note: Numbers may not add to totals due to rounding.

TABLE 34. CANADA, MINE AND MILL WORKERS, BY SEX, EMPLOYED IN THE NON-FUEL MINERAL INDUSTRY, 1996

	Mine Workers				Mill Workers		Total	
	Underground		Surface		Male	Female	Male	Female
	Male	Female	Male	Female				
	(number)							
METALS								
Gold	2 828	48	2 448	26	2 163	82	7 439	156
Silver-lead-zinc	949	6	562	36	536	40	2 047	82
Uranium	216	17	280	14	476	28	972	59
Iron ore	29	—	927	18	2 433	104	3 389	122
Nickel-copper-zinc ¹	6 375	45	1 700	62	2 619	122	10 694	229
Miscellaneous metal mines ²	97	—	278	7	249	10	624	17
Total	10 494	116	6 195	163	8 476	386	25 165	665
NONMETALS								
Asbestos	x	x	x	x	x	x	x	x
Peat	—	—	369	31	757	31	1 126	62
Gypsum	115	—	395	—	77	3	587	3
Potash	1 264	12	15	—	1 223	37	2 502	49
Miscellaneous nonmetal mines ³	x	x	x	x	x	x	x	x
Total	1 914	12	1 663	39	3 508	96	7 085	147
STRUCTURAL MATERIALS								
Stone	—	—	1 764	23	395	14	2 159	37
Sand and gravel	—	—	2 487	75	196	2	2 683	77
Total	—	—	4 251	98	591	16	4 842	114
Total non-fuel mineral industry ⁴	12 408	128	12 109	300	12 575	498	37 092	926

Source: Natural Resources Canada.

— Nil; x Confidential.

¹ Includes copper-zinc and nickel-copper mines. ² Includes molybdenum mines. ³ Includes salt mines. ⁴ Coal data are not available.

TABLE 35. CANADA, LABOUR COSTS FOR METAL MINES IN RELATION TO TONNES MINED, 1994-96

	Number of Wage Earners	Total Wages	Average Annual Wage	Tonnage of Ore Mined	Average Annual Tonnes Mined Per Wage Earner	Wage Cost Per Tonne Mined
	(no.)	(\$000)	(\$)	(000 tonnes)	(tonnes)	(\$)
1994						
Uranium	642	33 359	51 961	1 756	2 734	19.00
Gold	4 913	276 067	56 191	21 288	4 333	12.97
Silver-lead-zinc	1 276	47 230	37 014	7 444	5 834	6.34
Nickel-copper-zinc ¹	7 713	432 839	56 118	92 651	12 012	4.67
Miscellaneous metals ²	392	18 546	47 310	14 887	37 977	1.25
Iron ore	986	74 443	75 500	95 723	97 082	0.78
Total	15 922	882 484	55 425	233 748	14 681	3.78
1995						
Uranium	639	33 163	51 898	1 364	2 135	24.31
Gold	5 265	305 233	57 974	25 120	4 771	12.15
Silver-lead-zinc	1 350	70 554	52 263	10 295	7 626	6.85
Nickel-copper-zinc ¹	8 131	462 806	56 919	113 260	13 929	4.09
Miscellaneous metals ²	382	18 005	47 132	14 899	39 002	1.21
Iron ore	1 005	78 680	78 289	95 538	95 063	0.82
Total	16 772	968 441	57 742	260 475	15 530	3.72
1996						
Uranium	527	28 245	53 595	1 333	2 530	21.18
Gold	5 350	330 486	61 773	30 901	5 775	10.70
Silver-lead-zinc	1 553	83 214	53 583	11 656	7 505	7.14
Nickel-copper-zinc ¹	8 182	463 280	56 622	98 671	12 059	4.70
Miscellaneous metals ²	382	20 020	52 407	14 659	38 374	1.37
Iron ore	974	76 455	78 496	95 783	98 339	0.80
Total	16 968	1 001 699	59 035	253 003	14 910	3.96

Source: Natural Resources Canada.

¹ Includes copper-zinc and nickel-copper mines. ² Includes molybdenum mines.**TABLE 36. CANADA, PERSON-HOURS PAID FOR PRODUCTION AND RELATED WORKERS, AND TONNES OF ORE MINED AND ROCK QUARRIED IN METAL MINES AND OTHER MINERAL OPERATIONS, 1991-96**

	Unit	1991	1992	1993	1994	1995	1996
METAL MINES¹							
Ore mined	Mt	271.4	248.2	236.5	233.7	260.5	253.0
Person-hours paid ²	million	68.7	61.1	55.5	53.7	57.1	56.1
Person-hours paid per tonne mined	number	0.25	0.25	0.23	0.23	0.22	0.22
Tonnes mined per person-hour paid	t	3.95	4.06	4.26	4.35	4.56	4.50
OTHER MINERAL OPERATIONS³							
Ore mined and rock quarried	Mt	156.8	147.8	151.7 ^r	170.5	173.0	167.9
Person-hours paid ²	million	32.5	30.1	32.2 ^r	32.2	33.3	32.1
Person-hours paid per tonne mined	number	0.21	0.20	0.21 ^r	0.19	0.19	0.19
Tonnes mined per person-hour paid	t	4.82	4.91	4.71 ^r	5.29	5.20	5.23

Sources: Natural Resources Canada; Statistics Canada, catalogue nos. 26-223, 26-224 and 26-206.

^r Revised.¹ Excludes placer mining. ² Person-hours paid for production and related workers only. ³ Includes asbestos, potash, gypsum, salt, miscellaneous nonmetals, and coal.

TABLE 37. CANADA, AVERAGE WEEKLY WAGES (INCLUDING OVERTIME) FOR HOURLY RATED EMPLOYEES IN THE MINING, MINERAL MANUFACTURING, AND LOGGING AND FORESTRY INDUSTRIES, 1990-98

	1990	1991	1992	1993	1994	1995	1996	1997	1998
	(\$)								
Mines, quarries and oil wells	858.18	902.75	929.47	953.46	960.83	991.43	1 039.08	1 057.61	1 053.70
Mining	849.63	893.99	934.52	946.41	972.67	1 013.75	1 051.24	1 036.86	1 101.80
Metal mines	876.74	928.68	972.31	988.59	1 016.75	1 068.15	1 109.27	1 084.60	1 165.36
Nonmetal mines	723.67	760.42	795.46	802.00	830.51	845.53	871.52	910.50	920.56
Quarries and sand pits	621.74	650.78	672.02	640.86	669.64	724.13	746.72	781.99	845.45
Coal mines	867.60	897.50	933.84	946.45	956.98	990.84	1 015.54	994.15	1 071.30
Crude petroleum and natural gas	1 043.34	1 110.13	1 098.68	1 148.77	1 165.58	1 202.52	1 243.35	1 252.89	1 297.23
Logging and forestry	645.91	682.45	700.07	712.49	733.88	735.30	768.63	793.12	767.91
Manufacturing	599.37	624.70	652.92	669.44	685.84	694.58	716.62	736.69	755.92

Source: Statistics Canada.

TABLE 38. CANADA, NUMBER OF STRIKES AND LOCKOUTS BY INDUSTRY, 1996-98

	1996			1997			1998 ^p		
	Strikes and Lockouts	Workers Involved	Duration in Person-Days	Strikes and Lockouts	Workers Involved	Duration in Person-Days	Strikes and Lockouts	Workers Involved	Duration in Person-Days
	(number)								
Agriculture	1	5	450	-	-	-	-	-	-
Logging and forestry	2	465	4 310	1	9	710	4	4 870	476 650
Fishing and trapping	2	25	235	-	-	-	-	-	-
Mining	8	3 984	133 960	7	6 175	164 100	7	768	92 050
Manufacturing	102	38 021	763 719	112	23 003	778 280	111	22 968	601 483
Construction	11	3 825	92 389	-	-	-	15	11 242	325 840
Transportation and utilities	33	10 030	245 290	39	48 728	594 660	29	5 791	108 180
Trade	41	19 355	424 335	30	11 160	461 190	40	1 763	43 900
Finance, insurance and real estate	3	49	2 975	4	73	2 070	14	1 364	41 700
Service	106	28 134	418 947	78	140 177	1 537 166	133	171 285	682 190
Public administration	15	49 851	1 122 950	12	3 337	46 600	21	3 890	82 370
Other industries	4	130 000	130 000	1	25 000	25 000	3	9 012	9 360
Total, all industries	328	283 744	3 339 560	284	257 662	3 609 776	377	232 953	2 463 723

Source: Human Resources Development Canada, Workplace Information Directorate.
- Nil; P Preliminary.**TABLE 39. CANADA, NUMBER OF STRIKES AND LOCKOUTS BY MINING AND MINERAL MANUFACTURING INDUSTRY, 1996-98**

	1996			1997			1998 ^p		
	Strikes and Lockouts	Workers Involved	Duration in Person-Days	Strikes and Lockouts	Workers Involved	Duration in Person-Days	Strikes and Lockouts	Workers Involved	Duration in Person-Days
	(number)								
MINING	8	3 984	133 960	7	6 175	164 100	7	768	92 050
Metals	5	3 654	100 880	3	6 087	154 840	3	486	76 430
Mineral fuels	-	-	-	-	-	-	1	100	100
Nonmetals	2	303	29 520	2	34	2 410	2	155	8 630
Quarries	1	27	3 560	2	54	6 850	1	27	6 890
MINERAL MANUFACTURING	15	2 300	75 510	11	2 383	86 420	13	1 356	23 210
Primary metals	5	977	27 260	6	1 588	64 190	6	1 072	3 940
Nonmetallic mineral products	9	1 158	22 670	5	795	22 230	7	284	19 270
Petroleum and coal products	1	165	25 580	-	-	-	-	-	-

Source: Human Resources Development Canada, Workplace Information Directorate.
- Nil; P Preliminary.

TABLE 40. CANADA, MINING WAGES AND SALARIES BY PROVINCE, TERRITORY AND MINERAL CLASS, 1995 AND 1996

Province/Territory	1995					1996				
	Metals	Nonmetals	Coal	Quarries and Sand Pits	Total	Metals	Nonmetals	Coal	Quarries and Sand Pits	Total
	(\$000)									
Newfoundland	166 110	x	-	x	168 223	168 242	x	-	x	170 078
Prince Edward Island	-	695	-	-	695	-	649	-	-	649
Nova Scotia	400	27 570	70 352	6 062	104 383	-	29 606	69 956	6 075	105 637
New Brunswick	x	x	4 280	4 309	134 003	x	x	4 245	4 548	135 672
Quebec	496 836	123 136	-	61 282	681 254	516 416	110 051	-	56 473	682 940
Ontario	690 667	60 999	-	105 600	857 266	665 665	63 678	-	104 341	833 684
Manitoba	191 010	4 607	-	7 070	202 687	199 222	4 561	-	7 149	210 933
Saskatchewan	x	180 306	x	4 173	260 909	x	178 364	x	4 244	274 792
Alberta	-	x	x	x	197 665	-	x	x	x	205 425
British Columbia	255 693	4 449	225 477	32 617	518 236	232 346	4 566	245 419	34 158	516 488
Yukon	x	-	-	x	11 574	x	-	-	x	38 176
Northwest Territories	x	-	-	-	125 580	x	-	-	-	x
Total	2 059 125	473 749	478 032	251 569	3 262 475	2 087 429	460 511	511 824	246 607	3 306 371

Sources: Natural Resources Canada; Statistics Canada.

- Nil; x Confidential.

1 Includes establishments primarily engaged in providing contract drilling and other services to petroleum and natural gas industries.

Note: This table no longer includes data for the petroleum and natural gas industries.

TABLE 41. CANADA, SOURCE OF ORES HOISTED OR REMOVED FROM SELECTED TYPES OF MINES, 1994-96

Mines	1994			1995			1996		
	Underground	Open-Pit	Total	Underground	Open-Pit	Total	Underground	Open-Pit	Total
	(000 tonnes)								
METALS									
Gold	17 124	4 164	21 288	16 740	8 381	25 120	18 684	12 217	30 901
Silver-lead-zinc	7 444	-	7 444	8 133	2 162	10 295	7 617	4 039	11 656
Uranium	1 220	536	1 756	1 283	81	1 364	922	411	1 333
Iron	636	95 088	95 723	845	94 693	95 538	731	95 052	95 783
Nickel-copper-zinc	22 453	70 198	92 651	26 839	86 421	113 260	28 851	69 820	98 671
Miscellaneous metals	899	13 988	14 887	924	13 975	14 899	1 073	13 586	14 659
Subtotal metals	49 775	183 973	233 748	54 762	205 713	260 475	57 879	195 124	253 003
NONMETALS									
Asbestos	1 320	10 597	11 916	1 525	10 185	11 710	1 544	9 793	11 337
Gypsum	1 137	7 807	8 944	916	7 708	8 623	933	7 651	8 584
Potash	38 846	-	38 846	40 196	-	40 196	34 103	-	34 103
Rock salt	11 758	-	11 758	9 854	-	9 854	11 226	-	11 226
Miscellaneous nonmetals	267	2 134	2 401	231	1 981	2 212	219	2 023	2 241
Subtotal nonmetals	53 327	20 537	73 864	52 722	19 874	72 596	48 025	19 466	67 491
MINERAL FUELS									
Coal	5 329	91 287	96 616	5 318	92 389	97 707	4 593	95 766	100 359
Total metals, nonmetals and mineral fuels	108 433	295 797	404 229	112 802	317 976	430 778	110 497	310 357	420 853
Percentage	27	73	100	32	68	100	26	74	100

Sources: Natural Resources Canada; Statistics Canada.

- Nil.

Note: Numbers may not add to totals due to rounding.

TABLE 42. CANADA, SOURCE OF MATERIAL HOISTED OR REMOVED FROM SELECTED TYPES OF MINES, 1996

	Underground		Open-Pit			Tailings
	Ore	Waste	Ore	Waste	Overburden	
	(000 tonnes)					
METALS						
Gold	18 684	3 723	12 217	36 979	3 711	29 540
Silver-lead-zinc	7 617	316	4 039	21 175	3 449	10 021
Uranium	922	355	411	3 529	—	1 363
Iron	731	—	95 052	6 672	9 303	54 893
Nickel-copper-zinc	28 851	1 874	69 820	72 141	3 414	93 248
Miscellaneous metals	1 073	2	13 586	13 389	—	11 789
Subtotal metals	57 879	6 269	195 124	153 885	19 877	200 854
NONMETALS						
Asbestos	1 544	—	9 793	13 255	—	5 589
Gypsum	933	97	7 651	2 813	2 278	324
Potash	34 103	365	—	—	—	19 256
Rock salt	11 226	434	—	—	—	371
Miscellaneous nonmetals	218	35	2 023	1 999	255	937
Subtotal nonmetals	48 025	932	19 466	18 068	2 534	26 478
MINERAL FUELS						
Coal	4 593	..	95 766	..	..	..
Total metals, nonmetals and mineral fuels	110 497	7 201	310 356	171 953	22 411	227 332

Sources: Natural Resources Canada; Statistics Canada.

— Nil; .. Not available.

Note: Numbers may not add to totals due to rounding.

TABLE 43. CANADA, ORE MINED AND ROCK QUARRIED IN THE MINING INDUSTRY, 1991-96

	1991	1992	1993	1994	1995	1996
	(000 tonnes)					
METALS						
Gold	22 851	20 842	19 285	21 288	25 120	30 901
Silver-lead-zinc	12 572	13 306	8 001	7 444	10 295	11 656
Uranium	2 308	1 562	1 663	1 756	1 364	1 333
Iron	98 179	81 524	78 741	95 723	95 538	95 783
Nickel-copper-zinc	118 554	117 601	116 277	92 651	113 259	98 671
Miscellaneous metals	16 890	13 325	12 496	14 887	14 899	14 659
Subtotal metals	271 354	248 160	236 464	233 748	260 475	253 003
NONMETALS						
Asbestos	13 698	13 837	12 140	11 916	11 710	11 337
Gypsum	7 203	7 957	8 472	8 944	8 623	8 584
Potash	32 578	32 152	30 811	38 846	40 196	34 103
Rock salt	11 035	9 966	10 350	11 758	9 854	11 226
Miscellaneous nonmetals	2 010	—	2 371	2 401	2 212	2 241
Subtotal nonmetals	66 524	63 912	64 143	73 864	72 596	67 491
STRUCTURAL MATERIALS						
Stone, all kinds quarried	102 986	104 549	105 998	110 411	120 660	112 420
MINERAL FUELS						
Coal	90 290	81 415	87 603	96 616	97 707	100 359
Total ore mined and rock quarried	531 154	498 036	494 208	514 639	551 438	533 273

Sources: Natural Resources Canada; Statistics Canada.

— Nil.

Note: Numbers may not add to totals due to rounding.

**TABLE 44. CANADA, ORE MINED AND ROCK QUARRIED
IN THE MINING INDUSTRY, 1961-96**

Year	Metals	Industrial Minerals ¹	Coal	Total
(million tonnes)				
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
1984	246.4	167.8	71.2	485.4
1985	245.0	171.9	76.7	493.6
1986	256.3	179.1	72.7	508.2
1987	266.2	197.5	77.5	541.1
1988	282.1	210.3	89.3	581.6
1989	283.8	209.4	87.7	580.9
1990	280.6	195.4	89.5	565.4
1991	271.4	166.4	90.3	528.0
1992	248.2	169.2	81.4	498.8
1993	236.5	167.9	87.6	458.4
1994	233.7	184.3	96.6	514.6
1995	260.5	193.3	97.7	551.4
1996	253.0	179.9	100.4	533.3

Sources: Natural Resources Canada; Statistics Canada.

.. Not available.

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.

Note: Numbers may not add to totals due to rounding.

TABLE 45. CANADA, CRUDE MINERALS TRANSPORTED BY CANADIAN RAILWAYS, 1995-97

	1995	1996	1997
	(000 tonnes)		
METALLIC MINERALS			
Iron ores and concentrates	38 660	37 381	38 790
Alumina and bauxite	4 683	3 661	5 301
Nickel and nickel-copper ores and concentrates	2 955	3 499	3 221
Zinc ores and concentrates	1 435	1 265	1 154
Copper ores and concentrates	1 007	1 057	991
Lead ores and concentrates	186	148	105
Metallic ores and concentrates, n.e.s.	219	338	360
Subtotal	49 144	47 349	49 922
NONMETALLIC MINERALS			
Potash (KCl)	13 025	12 246	14 205
Gypsum	3 351	5 297	5 384
Sulphur, n.e.s.	4 657	5 210	5 704
Sulphur, liquid	1 742	1 623	1 654
Salt, rock	1 721	1 847	1 889
Limestone, n.e.s.	1 273	1 302	1 446
Phosphate rock	987	1 023	1 046
Sodium carbonate	376	311	402
Nepheline syenite	310	312	317
Sodium sulphate	252	264	218
Limestone, industrial	190	144	164
Sand, industrial	175	151	147
Clay	102	102	116
Nonmetallic minerals, n.e.s.	118	117	112
Salt, n.e.s.	86	81	50
Limestone, agricultural	114	134	145
Stone, n.e.s.	45	76	82
Abrasives, natural	4	6	6
Barite	3	2	1
Silica	2	3	4
Asbestos	1	1	2
Sand, n.e.s.	. . .	4	1
Peat and other mosses	—	—	5
Subtotal	28 535	30 255	33 100
MINERAL FUELS			
Coal, bituminous	38 516	39 470	32 123
Coal, lignite	917	989	1 562
Natural gas and other crude bituminous substances	43	72	63
Oil, crude	1	3	3
Coal, n.e.s.	1 288	—	1
Subtotal	40 765	40 533	33 754
Total crude minerals	118 444	118 137	116 777
Total revenue freight ¹ moved by Canadian railways	253 685	252 081	268 088
Crude minerals as a percentage of total revenue freight	46.7	46.9	43.6

Source: Statistics Canada.

— Nil; . . . Amount too small to be expressed; n.e.s. Not elsewhere specified.

¹ Revenue freight refers to a local or interline shipment from which earnings accrue to a carrier.

Note: Numbers may not add to totals due to rounding.

TABLE 46. CANADA, FABRICATED MINERAL PRODUCTS TRANSPORTED BY CANADIAN RAILWAYS, 1995-97

	1995	1996	1997
	(000 tonnes)		
METALLIC MINERAL PRODUCTS			
Ferrous mineral products			
Iron and steel scrap	1 405	1 554	3 593
Sheets and strips, steel	1 243	1 091	1 297
Bars and rods, steel	741	858	819
Ingots, blooms, billets, slabs, iron and steel	715	691	682
Pipes and tubes, iron and steel	321	377	402
Structural shapes and sheet piling, iron and steel	241	191	307
Plates, steel	361	378	282
Rails and railway track material	169	197	70
Castings and forgings, iron and steel	58	61	78
Pig iron	28	21	20
Ferroalloys	15	19	19
Other primary iron and steel	1	3	8
Wire, iron or steel	...	2	...
Subtotal ferrous mineral products	5 299	5 444	7 576
Nonferrous mineral products			
Aluminum and aluminum alloy fabricated material, n.e.s.	955	881	947
Zinc and alloys	498	539	533
Aluminum paste, powder, pigs, ingots, shot	340	294	426
Copper and alloys, n.e.s.	396	402	361
Other nonferrous base metals and alloys	412	401	458
Lead and alloys	137	144	112
Slag, dross, etc.	120	46	140
Nonferrous metal scrap	50	35	5 637
Copper matte and precipitates	85	19	9
Subtotal nonferrous mineral products	2 994	2 761	8 624
Total metallic mineral products	8 293	8 205	16 200
NONMETALLIC MINERAL PRODUCTS			
Fertilizers and fertilizer materials, n.e.s.	2 754	2 772	2 976
Sulphuric acid	2 571	2 339	2 358
Portland cement, standard	2 025	1 840	1 973
Lime, hydrated and quick	167	203	175
Cement and concrete basic products, n.e.s.	170	261	274
Nonmetallic mineral basic products, n.e.s.	121	132	187
Natural stone basic products, chiefly structural	93	126	124
Asbestos and asbestos-cement basic products	15	20	17
Gypsum basic products, n.e.s.	116	146	167
Dolomite and magnesite, calcined	35	25	27
Refractories, n.e.s.	4	-	1
Fire brick and similar shapes	4	7	5
Plaster	2	-	-
Glass basic products	4	-	1
Bricks and tiles, clay	2	3	1
Total nonmetallic mineral products	8 082	7 873	8 287
MINERAL FUEL PRODUCTS			
Refined and manufactured gases, fuel type	2 129	1 381	1 132
Fuel oil, n.e.s.	487	492	404
Diesel fuel	600	763	745
Gasoline	660	975	1 421
Other petroleum and coal products	626	639	769
Coke, n.e.s.	360	373	381
Petroleum coke	288	318	429
Lubricating oils and greases	223	258	364
Asphalts and road oils	300	370	406
Total mineral fuel products	5 674	5 569	6 052
Total fabricated mineral products	22 049	21 647	30 539
Total revenue freight ¹ moved by Canadian railways	253 685	252 081	252 081
Fabricated mineral products as a percentage of total revenue freight	8.7	8.6	12.1

Source: Statistics Canada.

- Nil; . . . Amount too small to be expressed; n.e.s. Not elsewhere specified.

¹ Revenue freight refers to a local or interline shipment from which earnings accrue to a carrier.

Note: Numbers may not add to totals due to rounding.

TABLE 47. CANADA, CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS TRANSPORTED BY CANADIAN RAILWAYS, 1960-97

Year	Total Revenue Freight ¹	Total Crude Minerals	Total Fabricated Mineral Products	Total Crude and Fabricated Minerals	Crude and Fabricated Minerals as a Percentage of Revenue Freight
		(million tonnes)			(%)
1960	142.8	57.1	14.5	71.6	50.1
1961	138.9	54.1	13.6	67.7	48.7
1962	146.0	60.3	13.8	74.1	50.8
1963	154.6	62.9	15.5	78.4	50.6
1964	180.0	74.6	15.9	90.5	50.3
1965	186.2	80.9	17.3	98.2	52.7
1966	194.5	80.6	17.8	94.8	50.6
1967	190.0	81.2	17.7	98.9	52.1
1968	195.4	86.7	18.8	105.5	54.0
1969	189.0	81.9	27.6	109.5	57.9
1970	211.6	97.5	28.4	125.9	59.5
1971	214.5	95.6	27.4	123.0	57.3
1972	215.8	89.4	27.6	117.0	54.2
1973	241.2	113.1	29.1	142.2	59.0
1974	246.3	115.3	30.9	146.2	59.4
1975	226.0	110.6	26.6	137.2	60.7
1976	238.5	116.6	25.5	142.1	59.6
1977	247.2	121.1	25.7	146.8	59.4
1978	238.8	107.7	26.2	133.9	56.1
1979	257.9	127.2	26.6	153.8	59.6
1980	254.4	124.8	24.6	149.4	58.7
1981	246.6	120.7	26.4	147.1	59.7
1982	212.5	95.7	21.0	116.7	54.9
1983	222.8	95.3	22.7	118.0	53.0
1984	254.6	121.1	25.1	146.2	57.4
1985	250.6	125.2	24.3	149.5	59.7
1986	249.8	121.2	23.0	144.2	57.7
1987	261.4	122.2	22.7	144.9	55.4
1988	269.4	134.9	23.2	158.1	58.7
1989	247.0	122.3	23.1	145.4	58.9
1990	226.3	112.1	20.1	132.2	58.4
1991	233.3	114.4	19.1	133.5	57.2
1992	226.2	102.8	20.9	123.7	54.7
1993	224.0	100.8	21.4	122.3	54.6
1994	253.6	112.6	21.4	134.0	52.8
1995	253.7	118.4	22.0	140.5	55.4
1996	252.1	118.1	21.6	139.8	55.5
1997	268.1	116.8	30.5	147.3	55.0

Source: Statistics Canada.

¹ Revenue freight refers to a local or interline shipment from which earnings accrue to a carrier.

TABLE 48. CANADA, CRUDE MINERALS LOADED AND UNLOADED IN COASTWISE SHIPPING, 1997

	Loaded					Unloaded				
	Atlantic	St. Lawrence	Great Lakes	Pacific	Total	Atlantic	St. Lawrence	Great Lakes	Pacific	Total
	(tonnes)									
METALLIC MINERALS										
Iron ore and concentrates	—	5 711 824	—	—	5 711 824	—	1 410 142	4 301 682	—	5 711 824
Aluminum ores and concentrates	—	20 741	—	—	20 741	—	—	20 741	—	20 741
Lead and zinc ores and concentrates	—	—	—	—	—	—	—	—	—	—
Other ores and concentrates	—	2 655 110	271 082	—	2 926 192	—	2 583 989	342 203	—	2 926 192
Total metallic minerals	—	8 387 675	271 082	—	8 658 757	—	3 994 131	4 664 626	—	8 658 757
NONMETALLIC MINERALS										
Salt	1 026 749	—	2 021 442	—	3 048 191	266 166	1 451 810	1 330 215	—	3 048 191
Limestone	395 391	23 454	1 770 417	647 215	2 836 477	23 454	395 391	1 770 417	647 215	2 836 477
Sand and gravel	76 775	—	296 424	1 019 921	1 393 120	76 775	44 073	252 351	1 019 921	1 393 120
Gypsum	778 538	—	—	73 135	851 673	162 420	348 364	267 754	73 135	851 673
Potash	—	—	67 299	—	67 299	—	28 972	38 327	—	67 299
Sulphur	—	—	—	8 294	8 294	—	—	—	8 294	8 294
Other mineral products (including clays, coal briquettes, greases and asphalt)	255 855	184 205	2 347 905	104 212	2 892 177	211 489	522 244	2 054 232	104 212	2 892 177
Total nonmetallic minerals	2 533 308	207 659	6 503 487	1 852 777	11 097 231	740 304	2 790 854	5 713 296	1 852 777	11 097 231
MINERAL FUELS										
Coal and coke	—	—	517 720	—	517 720	—	58 894	458 826	—	517 720
Crude petroleum	24 137	—	—	—	24 137	11 122	13 015	—	—	24 137
Total mineral fuels	24 137	—	517 720	—	541 857	11 122	71 909	458 826	—	541 857
Total crude minerals	2 557 445	8 595 334	7 292 289	1 852 777	20 297 845	751 426	6 856 894	10 836 748	1 852 777	20 297 845
Total all commodities ¹	6 033 382	11 570 816	16 998 131	12 037 507	46 639 836	4 886 480	15 597 541	14 118 309	12 037 507	46 639 837
Crude minerals as a percentage of all products	42.4	74.3	42.9	15.4	43.5	15.4	44.0	76.8	15.4	43.5

Source: Statistics Canada.

— Nil.

¹ Includes metallic minerals, nonmetallic minerals and mineral fuels, along with all other cargo loaded and unloaded in coastwise shipping.

Note: Numbers may not add to totals due to rounding.

TABLE 49. CANADA, FABRICATED MINERAL PRODUCTS LOADED AND UNLOADED IN COASTWISE SHIPPING, 1997

	Loaded					Unloaded				
	Atlantic	St. Lawrence	Great Lakes	Pacific	Total	Atlantic	St. Lawrence	Great Lakes	Pacific	Total
(tonnes)										
METALLIC MINERAL PRODUCTS										
Iron, steel and alloys	327	3 007	–	–	3 334	513	2 820	–	–	3 333
Aluminum and aluminum products	–	236 403	–	–	236 403	–	236 403	–	–	236 403
Other base-metal products	1 650	3 485	–	–	5 135	3 358	1 778	–	–	5 136
Total metallic mineral products	1 977	242 895	–	–	244 872	3 871	241 001	–	–	244 872
NONMETALLIC MINERAL PRODUCTS										
Cement and related products	4 110	77 517	469 898	53 846	605 371	4 110	–	547 415	53 846	605 371
Other fabricated nonmetallic minerals, n.e.s.	122 939	50 636	47 149	130 958	351 682	36 326	127 606	56 793	130 958	351 683
Total nonmetallic mineral products	127 049	128 153	517 047	184 804	957 053	40 436	127 606	604 208	184 804	957 054
MINERAL FUEL PRODUCTS										
Gasoline	950 392	488 587	217 214	212 033	1 868 226	1 094 891	297 823	263 478	212 033	1 868 225
Petroleum coke	–	–	6 055	–	6 055	–	–	6 055	–	6 055
Other fabricated mineral fuels, n.e.s.	1 882 725	1 252 483	1 090 831	158 981	4 385 020	1 931 860	1 349 008	945 170	158 981	4 385 019
Total mineral fuel products	2 833 117	1 741 070	1 314 100	371 014	6 259 301	3 026 751	1 646 831	1 214 703	371 014	6 259 299
Total fabricated mineral products	2 962 143	2 112 118	1 831 147	555 818	7 461 226	3 071 058	2 015 438	1 818 911	555 818	7 461 225
Total all commodities ¹	6 033 382	11 570 816	16 998 131	12 037 507	46 639 836	4 886 480	15 597 541	14 118 309	12 037 507	46 639 837
Fabricated mineral products as a percentage of all commodities	49.1	18.3	10.8	4.6	16.0	62.8	12.9	12.9	4.6	16.0

Source: Statistics Canada.

– Nil; n.e.s. Not elsewhere specified.

¹ Includes metallic mineral products, nonmetallic mineral products and mineral fuel products, along with all other cargo loaded and unloaded in coastwise shipping.

Note: Numbers may not add to totals due to rounding.

TABLE 50. CANADA, CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS LOADED AT CANADIAN PORTS IN COASTWISE SHIPPING, 1960-97

Year	Total All Commodities ¹	Total Crude Minerals	Total Fabricated Minerals	Crude and Fabricated Minerals as a Percentage of All Products
				(%)
		(000 tonnes)		
1960	37 058	8 786	8 229	45.9
1961	41 861	9 527	8 857	43.9
1962	39 763	8 361	9 768	45.6
1963	40 328	7 998	9 942	44.5
1964	47 171	8 522	11 194	41.8
1965	48 200	9 183	11 766	43.5
1966	55 122	10 155	12 653	41.4
1967	49 799	11 509	12 207	47.6
1968	50 921	13 698	13 245	52.9
1969	51 890	12 746	14 181	51.9
1970	57 301	14 415	14 818	51.0
1971	55 128	14 783	15 374	54.7
1972	55 326	14 197	15 290	53.3
1973	55 314	16 573	15 615	58.2
1974	53 633	11 723	16 575	52.8
1975	54 373	15 687	17 510	61.1
1976	53 882	15 924	16 208	59.6
1977	58 309	18 131	17 435	61.0
1978	60 668	18 318	16 619	57.6
1979	79 950	22 130	17 486	49.6
1980	82 761	22 947	17 134	48.4
1981	71 271	17 849	16 669	48.4
1982	65 881	16 473	13 214	45.1
1983	67 598	21 248	12 025	49.2
1984	68 698	22 798	11 909	50.5
1985	61 717	19 867	10 291	48.9
1986	60 506	19 901	10 264	49.9
1987	67 572	20 969	11 118	47.5
1988	69 974	23 325	11 676	50.0
1989	62 016	22 963	11 825	56.1
1990	60 360	22 430	16 096	63.8
1991	58 430	19 624	10 370	51.3
1992	52 262	22 125	9 325	60.2
1993	49 976	21 088	8 168	58.5
1994	51 534	21 221	9 510	59.6
1995	50 370	20 626	8 825	58.5
1996	48 829	22 393	7 634	61.5
1997	46 639	20 298	7 461	59.5

Source: Statistics Canada.

¹ Includes metallic mineral products, nonmetallic mineral products and mineral fuel products, along with all other cargo loaded and unloaded in coastwise shipping.

TABLE 51. CANADA, CRUDE MINERALS LOADED AND UNLOADED AT CANADIAN PORTS IN INTERNATIONAL SHIPPING TRADE,¹ 1995-97

	1995		1996		1997	
	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded
	(tonnes)					
METALLIC MINERALS						
Iron ore and concentrates	30 691 324	6 699 449	29 536 169	7 788 860	32 875 255	8 033 932
Aluminum ores and concentrates	31 220	2 446 881	28 567	2 601 690	81 200	2 771 756
Lead and zinc ores and concentrates	783 640	415 720	849 908	519 920	924 026	452 714
Copper and nickel ores and concentrates	939 185	168 953	812 201	248 098	751 545	218 313
Other ores and base-metal products	1 555 330	400 049	1 594 910	364 193	1 329 312	332 979
Total metallic minerals	34 000 699	10 131 052	32 821 755	11 522 761	35 961 338	11 809 694
NONMETALLIC MINERALS						
Limestone	2 815 335	3 602 497	2 396 173	3 474 739	2 654 250	3 096 455
Sand and gravel	787 134	1 419 895	1 073 325	1 203 973	1 537 271	793 206
Gypsum	5 857 472	271 811	5 577 586	314 928	6 157 811	457 371
Salt	2 412 967	1 127 848	3 504 958	1 082 158	3 493 441	1 094 266
Sulphur	4 879 719	176	5 191 846	19 824	5 512 305	534
Potash	6 508 978	20	5 786 119	22 101	6 117 530	28
Other mineral products (including clays, coal briquettes, greases and asphalt)	3 225 573	2 830 985	1 981 952	3 005 900	4 925 802	2 805 177
Total nonmetallic minerals	26 487 178	9 253 232	25 511 959	9 123 623	30 398 410	8 247 037
MINERAL FUELS						
Coal and coke	33 984 947	10 396 728	34 176 597	12 633 941	36 549 641	15 081 228
Crude petroleum	5 630 238	25 653 074	4 441 733	26 174 392	8 073 655	30 364 239
Other mineral fuels	-	-	-	-	-	-
Total mineral fuels	39 615 185	36 049 802	38 618 330	38 808 333	44 623 296	45 445 467
Total crude mineral products	100 103 062	55 434 086	96 952 044	59 454 717	110 983 044	65 502 198
Total all commodities ¹	176 539 763	83 175 680	174 306 180	85 791 564	187 716 502	94 535 096
Crude minerals as a percentage of all commodities	56.7	66.6	55.6	69.3	59.1	69.3

Source: Statistics Canada.

- Nil.

¹ Includes metallic minerals, nonmetallic minerals and mineral fuels, along with all other cargo loaded and unloaded at Canadian ports.

Note: Numbers may not add to totals due to rounding.

TABLE 52. CANADA, FABRICATED MINERAL PRODUCTS LOADED AND UNLOADED AT CANADIAN PORTS IN INTERNATIONAL SHIPPING TRADE,¹ 1995-97

	1995		1996		1997	
	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded
	(tonnes)					
METALLIC MINERAL PRODUCTS						
Iron, steel and alloys	1 648 013	2 739 600	1 357 807	2 719 410	1 451 001	3 638 383
Nonferrous metals, n.e.s.	1 020 791	3 598 281	1 063 039	3 891 720	1 047 466	3 914 078
Total metallic mineral products	2 688 804	6 337 881	2 420 846	6 611 130	2 498 467	7 552 461
NONMETALLIC MINERAL PRODUCTS						
Cement and related products	2 859 091	202 185	3 154 880	196 940	2 739 896	375 340
Other nonmetallic minerals, n.e.s.	1 548 101	1 527 491	2 250 694	1 469 196	2 142 140	1 747 880
Total nonmetallic mineral products	4 407 192	1 729 676	5 405 574	1 666 136	4 882 036	2 123 220
MINERAL FUEL PRODUCTS						
Gasoline	3 340 924	1 537 104	4 124 542	1 740 355	4 114 237	1 958 796
Fuel oil	3 424 489	2 246 242	3 626 419	2 066 515	3 955 310	2 635 535
Coke, petroleum and coal products	434 171	1 033 607	321 018	1 087 596	573 595	1 009 136
Other mineral fuels, n.e.s.	2 070 255	1 253 666	2 681 191	818 069	2 443 171	1 363 522
Total mineral fuel products	9 269 839	6 070 619	10 753 170	5 712 535	11 086 313	6 966 989
Total fabricated mineral products	16 345 835	14 138 176	18 579 590	13 989 801	18 466 816	16 642 670
Total all commodities ¹	176 539 763	83 175 680	174 306 180	85 791 564	187 716 502	94 535 096
Fabricated mineral products as a percentage of all commodities	9.3	17.0	10.7	16.3	9.8	17.6

Source: Statistics Canada.

n.e.s. Not elsewhere specified.

¹ Includes metallic mineral products, nonmetallic mineral products and mineral fuel products, along with all other cargo loaded and unloaded at Canadian ports.

Note: Numbers may not add to totals due to rounding.

TABLE 53. CANADA, CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS LOADED AT CANADIAN PORTS IN INTERNATIONAL SHIPPING TRADE, 1960-97

Year	Total All Commodities ¹	Total Crude Minerals	Total Fabricated Minerals	Crude and Fabricated Minerals as a Percentage of All Products
				(%)
		(000 tonnes)		
1960	45 872	24 671	2 039	58.2
1961	48 771	23 241	2 133	52.0
1962	54 676	30 446	2 296	59.9
1963	62 031	32 214	2 503	56.0
1964	75 760	42 087	2 602	59.0
1965	74 521	41 338	2 746	59.2
1966	76 192	41 374	3 350	58.7
1967	72 598	42 704	3 701	63.9
1968	78 663	48 680	2 960	65.6
1969	70 432	42 442	3 456	65.2
1970	95 807	55 849	4 965	63.5
1971	95 887	53 245	5 022	60.8
1972	98 988	51 912	9 091	61.6
1973	112 434	64 195	10 103	66.1
1974	106 110	64 093	9 041	68.9
1975	102 444	61 970	7 495	67.8
1976	114 815	71 527	6 108	67.6
1977	119 770	70 257	5 979	63.7
1978	116 522	62 291	7 556	59.9
1979	134 639	79 685	8 901	65.8
1980	138 161	67 898	11 770	57.7
1981	145 445	83 007	9 022	63.3
1982	125 282	65 594	7 115	58.0
1983	129 490	67 152	6 197	56.6
1984	145 322	82 752	7 986	62.4
1985	143 421	83 878	10 814	66.0
1986	144 561	84 720	8 303	64.3
1987	158 994	86 085	10 488	60.7
1988	171 064	98 934	12 227	65.0
1989	159 069	90 807	13 624	65.7
1990	159 039	88 504	15 107	65.1
1991	168 030	90 165	16 138	63.3
1992	153 786	78 600	14 643	60.6
1993	152 162	81 418	16 723	64.5
1994	169 463	94 423	15 725	65.0
1995	176 540	100 103	16 346	66.0
1996	174 306	96 952	18 580	66.3
1997	187 717	110 983	18 467	69.0

Source: Statistics Canada.

¹ Includes metallic mineral products, nonmetallic mineral products and mineral fuel products, along with all other cargo loaded and unloaded at Canadian ports.

TABLE 54. CANADA, CAPITAL AND REPAIR EXPENDITURES BY SELECTED INDUSTRIAL SECTOR, 1997-99

		Capital Expenditures			Repair Expenditures ¹		
		Construction	Machinery and Equipment	Total	Construction	Machinery and Equipment	Total
(\$ millions)							
Agriculture and related service industries	1997	1 463.2	2 849.1	4 312.3	595.8	1 966.5	2 562.3
	1998 ^p	1 462.0	2 747.5	4 209.4	..	..	..
	1999 ⁱ	1 468.7	2 786.9	4 255.5	..	..	..
Fishing and trapping	1997	43.4	57.1	100.5	33.4	126.8	160.2
	1998 ^p	44.4	57.3	101.7	..	..	..
	1999 ⁱ	45.2	57.9	103.1	..	..	..
Logging and forestry	1997	121.4	184.5	305.8	36.9	291.8	328.7
	1998 ^p	122.2	164.4	286.7	..	..	..
	1999 ⁱ	159.1	140.3	299.4	..	..	..
Mining ²	1997	17 367.2	3 001.1	20 368.4	569.6	2 388.8	2 958.4
	1998 ^p	14 213.0	3 013.0	17 226.0	..	..	..
	1999 ⁱ	13 358.5	2 457.7	15 816.2	..	..	..
Manufacturing	1997	3 587.3	15 753.9	19 341.2	1 017.5	7 630.9	8 648.4
	1998 ^p	2 578.0	16 886.5	19 464.5	..	..	..
	1999 ⁱ	2 550.9	16 937.5	19 488.4	..	..	..
Construction	1997	301.3	1 870.6	2 171.9	63.8	1 050.8	1 114.6
	1998 ^p	318.8	1 984.1	2 302.9	..	..	..
	1999 ⁱ	335.2	2 084.0	2 419.2	..	..	..
Transportation and storage	1997	3 138.7	3 978.7	7 117.4	1 346.4	3 503.0	4 849.4
	1998 ^p	5 007.3	4 592.3	9 599.6	..	..	..
	1999 ⁱ	5 191.8	4 611.6	9 803.4	..	..	..
Communications and other utilities	1997	6 434.8	7 657.5	14 092.3	1 329.0	2 659.7	3 988.7
	1998 ^p	7 427.7	7 858.7	15 286.5	..	..	..
	1999 ⁱ	8 070.8	8 354.9	16 425.7	..	..	..
Wholesale and retail trade	1997	1 652.7	4 250.3	5 903.0	362.5	1 048.8	1 411.3
	1998 ^p	2 072.3	4 369.5	6 441.8	..	..	..
	1999 ⁱ	2 208.5	4 079.3	6 287.8	..	..	..
Housing	1997	37 406.6	–	37 406.6	5 100.0	–	5 100.0
	1998 ^p	38 319.7	–	38 319.7	..	..	..
	1999 ⁱ	39 252.4	–	39 252.4	..	..	..
Total ³	1997	89 679.8	67 769.7	157 449.5	15 170.4	22 849.8	38 020.3
	1998 ^p	89 952.2	71 374.8	161 327.1	..	..	..
	1999 ⁱ	91 953.6	69 623.9	161 577.5	..	..	..
Mining as a percentage of total	1997	19.3	4.4	12.9	3.8	10.5	7.8
	1998 ^p	15.8	4.2	10.7	..	..	..
	1999 ⁱ	14.5	3.5	9.8	..	..	..

Source: Statistics Canada.

– Nil; .. Not available; ⁱ Intentions; ^p Preliminary actual.¹ Repair data are not available for 1998 and 1999. ² Includes mines, quarries and oil wells. ³ Includes finance, real estate, insurance, commercial services, institutions and government departments.

Notes: Numbers may not add to totals due to rounding. Capital and repair expenditures are based on the 1980 Standard Industrial Classification.

TABLE 55. CANADA, CAPITAL AND REPAIR EXPENDITURES IN THE MINERAL INDUSTRY¹ BY PROVINCE AND TERRITORY, 1997-99

Province/ Territory		Capital Expenditures			Repair Expenditures ²		
		Construction	Machinery and Equipment	Total	Construction	Machinery and Equipment	Total
(\$ millions)							
Newfoundland	1997	952.3	85.9	1 038.2	6.3	162.6	168.9
	1998 ^p	895.2	92.8	988.0	..	..	..
	1999 ⁱ	1 460.5	65.9	1 526.4	..	..	..
Nova Scotia	1997	100.9	30.2	131.0	0.4	22.5	22.9
	1998 ^p	975.8	40.1	1 016.0	..	..	..
	1999 ⁱ	994.0	37.8	1 031.8	..	..	..
New Brunswick	1997	x	x	94.8	x	x	x
	1998 ^p	x	x	101.7	..	..	..
	1999 ⁱ	x	x	x	..	..	..
Quebec	1997	506.7	160.1	666.8	32.1	314.5	346.6
	1998 ^p	454.3	96.5	550.9	..	..	..
	1999 ⁱ	391.6	89.3	480.9	..	..	..
Ontario	1997	397.6	213.7	611.3	68.0	401.0	469.0
	1998 ^p	355.6	171.5	527.2	..	..	..
	1999 ⁱ	367.5	187.4	554.8	..	..	..
Manitoba	1997	149.7	40.4	190.1	28.9	38.1	67.1
	1998 ^p	125.8	26.5	152.4	..	..	..
	1999 ⁱ	123.2	27.7	150.9	..	..	..
Saskatchewan	1997	2 393.8	266.7	2 660.5	63.6	229.9	293.6
	1998 ^p	1 164.8	297.1	1 462.0	..	..	..
	1999 ⁱ	765.2	317.9	1 083.0	..	..	..
Alberta	1997	10 659.1	1 857.0	12 516.0	309.7	704.6	1 014.2
	1998 ^p	8 478.0	1 975.5	10 453.5	..	..	..
	1999 ⁱ	7 757.9	1 550.1	9 308.0	..	..	..
British Columbia	1997	1 774.7	302.9	2 077.6	46.8	381.9	428.7
	1998 ^p	1 328.0	206.7	1 534.7	..	..	..
	1999 ⁱ	1 251.5	142.2	1 393.7	..	..	..
Yukon	1997	x	x	19.8	x	x	x
	1998 ^p	x	x	14.6	..	..	..
	1999 ⁱ	x	x	x	..	..	..
Northwest Territories	1997	354.9	7.3	362.2	2.6	49.9	52.5
	1998 ^p	355.6	69.6	425.2	..	..	..
	1999 ⁱ	189.4	11.8	201.2	..	..	..
Total Canada	1997	17 367.2	3 001.1	20 368.4	569.6	2 388.8	2 958.4
	1998 ^p	14 213.0	3 013.0	17 226.0	..	..	..
	1999 ⁱ	13 358.5	2 457.7	15 816.2	..	..	..

Source: Statistics Canada.

.. Not available; ^p Preliminary actual; ⁱ Intentions; ^x Confidential.¹ Includes mines, quarries and oil wells. ² Repair data are not available for 1998 and 1999.

Notes: Numbers may not add to totals due to rounding. Capital and repair expenditures are based on the 1980 Standard Industrial Classification.

TABLE 56. CANADA, CAPITAL AND REPAIR¹ EXPENDITURES IN THE MINERAL EXTRACTION AND MINERAL MANUFACTURING INDUSTRIES, 1997-99

	1997			1998P	1999i
	Capital	Repair	Total	Capital	Capital
	(\$ millions)				
MINERAL EXTRACTION					
Metal mines					
Gold	1 017.9	308.3	1 326.2	512.3	516.7
Copper and copper-zinc	335.3	183.7	518.9	178.7	185.9
Nickel-copper	446.6	x	x	298.5	273.7
Silver-lead-zinc	140.4	98.1	238.5	141.9	89.8
Uranium	205.6	x	x	x	x
Iron	x	271.1	x	197.6	170.5
Other metal mines	29.3	x	x	23.6	22.6
Total	2 377.6	1 166.4	3 544.0	1 555.0	1 464.7
Nonmetal mines					
Asbestos	x	x	x	x	x
Peat	15.0	8.5	23.5	15.9	15.6
Gypsum	14.1	x	x	38.6	34.7
Potash	108.6	104.6	213.2	104.1	136.4
Salt	x	35.8	x	x	x
Other nonmetal mines	315.5	9.1	324.6	370.4	151.0
Coal	224.0	340.0	564.0	216.1	175.6
Total	782.6	560.8	1 343.3	827.2	607.8
Quarries and sand pits	118.5	87.3	205.8	128.6	87.7
Crude petroleum and natural gas	16 152.7	824.1	16 976.8	13 893.7	13 174.3
Service industries incidental to mineral extraction	936.9	319.8	1 256.7	821.5	481.7
Total mineral industry	20 368.4	2 958.4	23 326.8	17 226.0	15 816.2
MINERAL MANUFACTURING					
Primary metal industries					
Primary steel	711.5	935.0	1 646.5	592.1	528.0
Steel pipe and tube mills	138.8	72.9	211.7	86.8	50.8
Iron foundries	52.4	86.0	138.4	64.7	133.3
Smelting and refining	970.9	614.7	1 585.6	809.4	1 469.4
Aluminum rolling, casting and extruding	103.8	94.4	198.2	112.4	152.1
Copper and copper alloy, rolling, casting and extruding	11.7	16.6	28.2	20.6	20.9
Metal rolling, casting and extruding	191.4	45.8	237.2	173.5	130.6
Total	2 180.5	1 865.4	4 045.8	1 859.5	2 485.2
Nonmetallic mineral products					
Clay products	20.6	12.0	32.6	30.1	45.5
Cement	95.0	88.4	183.4	244.4	184.4
Concrete products	25.4	13.8	39.2	25.0	31.9
Ready-mix concrete	104.1	84.8	188.9	162.6	278.7
Glass and glass products	98.4	26.1	124.4	120.6	79.7
Abrasives	6.8	6.8	13.6	5.4	6.5
Lime	8.0	8.3	16.3	18.4	11.8
Other nonmetallic mineral products	46.7	42.5	89.2	77.3	103.5
Total	405.2	282.5	687.6	683.9	742.1

TABLE 56 (cont'd)

	1997		Total	1998 ^P	1999 ⁱ
	Capital	Repair		Capital	Capital
(\$ millions)					
MINERAL MANUFACTURING (cont'd)					
Metal-fabricating industries					
Power boiler and heat exchanger	15.7	6.2	21.9	12.9	11.7
Fabricated structural metal	36.2	36.4	72.7	35.6	53.3
Ornamental and architectural metal	33.1	13.5	46.7	38.5	23.1
Metal stamping, pressing and coating	212.1	101.3	313.4	161.5	212.4
Wire and wire products	91.4	41.1	132.5	91.3	97.2
Hardware, tool and cutlery	141.3	41.8	183.1	154.3	98.2
Heating equipment	31.5	18.0	49.5	36.7	40.1
Machine shops	94.5	24.7	119.2	81.0	50.0
Miscellaneous metal fabricating	132.8	29.6	162.4	134.6	98.0
Total	788.7	312.7	1 101.4	746.5	684.0
Petroleum and coal products					
Refined petroleum products	368.0	237.6	605.6	503.6	777.4
Other petroleum products	57.5	10.5	68.0	42.9	28.5
Total	425.5	248.0	673.5	546.5	805.9
Total mineral manufacturing industries	3 799.9	2 708.6	6 508.3	3 836.4	4 717.2
Total mineral and mineral manufacturing industries	24 168.3	5 667.0	29 835.1	21 062.4	20 533.4

Source: Statistics Canada.

ⁱ Intentions; ^P Preliminary actual; x Confidential.¹ Repair data are not available for 1998 and 1999.

Notes: Numbers may not add to totals due to rounding. Capital and repair expenditures are based on the 1980 Standard Industrial Classification.