

# Statistical Report

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**T**his 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.

Enquiries for information should be addressed to Laurie Morrison, Statistical Research Officer, Minerals and Mining Statistics Division, at tel. (613) 992-6767 or by e-mail at [lmorriso@nrca.gc.ca](mailto:lmorriso@nrca.gc.ca).

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](mailto:lmorriso@nrca.gc.ca) to provide your input.)*

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TABLE 1. MINERAL PRODUCTION OF CANADA, 1996-99P

	Unit	1996		1997		1998		1999P	
	(000)	(Quantity)	(\$000)	(Quantity)	(\$000)	(Quantity)	(\$000)	(Quantity)	(\$000)
<b>METALS</b>									
Antimony	kg	1 380	6 084	529	1 610	359	845	475	986
Bismuth	kg	150	1 598	196	1 956	186	2 078	264	2 941
Cadmium	kg	1 540	5 732	1 272	1 991	1 179	1 104	1 212	704
Calcium	kg	x	x	x	x	x	x	x	x
Cesium, pollucite	kg	x	x	x	x	x	x	x	x
Cobalt	kg	2 150	164 918	2 168	154 408	2 262	158 643	2 015	114 013
Columbium (niobium)	kg	x	x	2 253	x	2 194	x	2 250	x
Copper	kg	652 499	2 059 285	647 779	2 050 869	690 762	1 695 820	580 036	1 361 344
Gold	g	164 660	2 799 547	171 479	2 527 429	164 773	2 312 593	157 790	2 132 534
Ilmenite	t	x	x	x	x	x	x	x	x
Indium	g	x	x	x	x	x	x	x	x
Iron ore	t	34 400	1 321 727	38 928	1 571 741	36 586	1 646 419	33 004	1 419 693
Iron remelt	t	x	x	x	x	x	x	x	x
Lead	kg	241 751	254 564	170 847	147 612	150 019	117 615	156 102	117 389
Lithium	kg	x	x	x	x	x	x	x	x
Magnesium	kg	x	x	x	x	x	x	x	x
Molybdenum	kg	8 789	100 196	7 594	87 582	8 099	98 752	6 293	75 695
Nickel	kg	182 404	1 920 348	180 624	1 775 898	197 947	1 411 167	177 229	1 562 986
Platinum group	g	13 934	141 620	11 836	134 242	15 588	236 007	14 012	250 947
Selenium	kg	694	7 140	592	5 045	398	2 960	438	3 264
Silver	kg	1 243	282 510	1 194	260 024	1 140	301 089	1 173	296 547
Tantalum	kg	67	7 625	60	7 230	70	9 863	64	9 304
Tellurium	kg	59	1 744	59	831	62	742	67	795
Uranium	kg	11 348	620 880	11 127	553 900	9 992	508 038	9 892	502 482
Zinc	kg	1 162 720	1 625 482	1 026 864	1 870 946	991 584	1 507 208	960 099	1 533 278
Total metals			11 697 468		11 549 178		10 450 185		9 808 670
<b>NONMETALS</b>									
Asbestos	t	506	256 722	420	214 910	321	167 386	345	162 450
Barite	t	58	6 498	84	7 119	86	9 142	70	6 583
Diamonds	carats	-	-	-	-	203	40 755	2 400	581 721
Gemstones	kg	294	684	407	1 482	159	631	144	482
Graphite	t	x	x	x	x	x	x	x	x
Gypsum	t	8 202	85 415	8 628	95 263	8 307	94 349	8 935	101 207
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	606	46 690	648	51 319	636	53 405	693	57 979
Peat	t	901	141 019	1 054	146 404	1 125	166 542	1 216	168 767
Potash	t	8 120	1 277 860	9 235	1 528 341	8 884	1 747 985	8 345	1 775 834
Potassium sulphate	t	x	x	x	x	x	x	x	x
Pumice	t	x	x	x	x	x	x	x	x
Quartz	t	1 558	36 193	1 690	40 198	1 771	41 849	1 657	41 578
Salt	t	12 248	359 818	13 497	405 509	13 034	390 677	12 643	391 487
Serpentine	t	x	x	x	x	x	x	x	x
Soapstone, talc and pyrophyllite	t	77	15 151	72	14 908	72	15 545	77	19 068
Sodium sulphate	t	323	30 964	285	29 040	258	27 080	245	23 441
Sulphur, elemental	t	9 450	83 805	8 272	84 129	8 404	62 109	8 792	80 716
Sulphur in smelter gas	t	789	57 765	800	59 462	836	55 451	846	63 097
Titanium dioxide	t	x	x	x	x	x	x	x	x
Tremolite	t	x	x	x	x	x	x	x	x
Zeolite	t	x	x	x	x	x	x	x	x
Total nonmetals			2 765 775		3 026 971		3 425 474		4 007 836
<b>MINERAL FUELS</b>									
Coal	t	75 860	1 936 050	78 670	1 920 150	75 360	1 764 770	72 310	1 484 390
Natural gas	000 m <sup>3</sup>	153 578	8 734 860	156 171	10 719 153	160 515	10 893 493	163 384	13 696 400
Natural gas by-products	m <sup>3</sup>	26 657	2 838 702	26 427	2 599 598	26 666	1 763 072	26 075	2 347 254
Crude oil and equivalent	m <sup>3</sup>	117 620	19 071 725	123 827	17 837 834	128 401	12 940 149	122 448	18 894 009
Total fuels			32 581 337		33 076 735		27 361 484		36 422 053
<b>STRUCTURAL MATERIALS</b>									
Clay products	\$	x	110 218	x	136 324	x	135 814	x	165 713
Cement	t	11 587	964 380	11 736	1 062 708	12 124	1 147 757	12 604	1 232 058
Lime	t	2 402	202 579	2 477	213 038	2 461	214 966	2 538	235 621
Sand and gravel	t	213 831	772 590	225 494	829 190	225 338	875 226	218 458	861 659
Stone	t	92 331	592 547	99 265	644 162	108 924	727 947	104 026	732 369
Total structural materials			2 642 314		2 885 422		3 101 710		3 227 419
Total all minerals			49 686 894		50 538 306		44 338 853		53 465 978

Sources: Natural Resources Canada; Statistics Canada.

- Nil; 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, 1973-99**

Year	Value of Mineral Production					Per Capita Value of Mineral Production	Population of Canada
	Metals	Nonmetals	Structural Materials	Fuels	Total		
	(\$ millions)					(\$)	(000)
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	1 685.33	29 987
1998	10 450	3 425	3 102	27 361	44 339	1 465.90	30 247
1999 <sup>p</sup>	9 809	4 008	3 227	36 422	53 466	1 753.50	30 491

Sources: Natural Resources Canada; Statistics Canada.

<sup>p</sup> 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, 1999P**

Province/Territory	Metals		Nonmetals		Structural Materials		Mineral Fuels		Total	
	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)
Newfoundland	902 059	9.20	1 292	0.03	45 379	1.41	979 591	2.69	1 928 321	3.61
Prince Edward Island	—	—	3 541	0.09	1 358	0.04	—	—	4 899	0.01
Nova Scotia	—	—	126 135	3.15	93 701	2.90	165 584	0.45	385 420	0.72
New Brunswick	597 934	6.10	191 994	4.79	45 989	1.42	21 600	0.06	857 517	1.60
Quebec	2 187 717	22.30	770 458	19.22	568 150	17.60	—	—	3 526 325	6.60
Ontario	3 205 152	32.68	386 234	9.64	1 443 027	44.71	86 102	0.24	5 120 515	9.58
Manitoba	713 641	7.28	22 901	0.57	58 652	1.82	97 508	0.27	892 703	1.67
Saskatchewan	526 431	5.37	1 740 278	43.42	41 800	1.30	3 711 837	10.19	6 020 346	11.26
Alberta	145	. . .	133 594	3.33	509 752	15.79	28 356 207	77.85	28 999 698	54.24
British Columbia	1 222 318	12.46	49 688	1.24	410 742	12.73	2 745 159	7.54	4 427 908	8.28
Yukon	61 756	0.63	—	—	2 094	0.06	27 108	0.07	90 958	0.17
Northwest Territories	41 613	0.42	581 721	14.51	6 774	0.21	231 357	0.64	861 464	1.61
Nunavut	349 904	3.57	—	—	—	0.00	—	—	349 904	0.65
<b>Total</b>	<b>9 808 670</b>	<b>100.0</b>	<b>4 007 836</b>	<b>100.00</b>	<b>3 227 419</b>	<b>100.0</b>	<b>36 422 053</b>	<b>100.0</b>	<b>53 465 978</b>	<b>100.0</b>

Sources: Natural Resources Canada; Statistics Canada.

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

**TABLE 4. CANADA, VALUE OF MINERAL PRODUCTION BY PROVINCE, TERRITORY AND MINERAL CLASS, 1998**

Province/Territory	Metals		Nonmetals		Structural Materials		Mineral Fuels		Total	
	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)	(\$000)	(% of total)
Newfoundland	1 046 063	10.01	1 258	0.04	47 213	1.52	444 962	1.63	1 539 496	3.47
Prince Edward Island	—	—	5 601	0.16	898	0.03	—	—	6 499	0.01
Nova Scotia	—	—	116 883	3.41	88 459	2.85	247 685	0.91	453 027	1.02
New Brunswick	609 944	5.84	188 891	5.51	41 308	1.33	22 850	0.08	862 993	1.95
Quebec	2 200 802	21.06	789 627	23.05	569 536	18.35	—	—	3 559 965	8.03
Ontario	3 281 933	31.40	375 446	10.96	1 341 377	43.25	66 639	0.24	5 065 395	11.42
Manitoba	808 445	7.74	19 917	0.58	64 796	2.09	73 912	0.27	967 070	2.18
Saskatchewan	551 444	5.28	1 707 945	49.86	40 956	1.32	2 495 903	9.12	4 796 247	10.82
Alberta	118	. . .	129 783	3.79	494 051	15.93	21 262 403	77.71	21 886 355	49.36
British Columbia	1 483 721	14.20	49 349	1.44	404 224	13.03	2 528 943	9.24	4 366 237	10.07
Yukon	114 491	1.10	—	—	2 123	0.07	33 722	0.12	150 336	0.34
Northwest Territories	353 224	3.38	40 775	1.19	6 769	0.22	184 465	0.67	585 233	1.32
<b>Total</b>	<b>10 450 185</b>	<b>100.0</b>	<b>3 425 475</b>	<b>100.0</b>	<b>3 101 710</b>	<b>100.0</b>	<b>27 361 484</b>	<b>100.0</b>	<b>44 338 853</b>	<b>100.0</b>

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, 1992-99**

Province/Territory	1992	1993	1994	1995	1996	1997	1998	1999P
	(\$ millions)							
Alberta	17 056	18 925	21 119	20 676	26 218	26 671	21 886	29 000
Ontario	4 776	4 534	4 921	5 825	5 718	5 615	5 065	5 121
Saskatchewan	3 158	3 238	4 225	4 580	5 331	5 508	4 796	6 020
British Columbia	3 500	3 538	4 066	4 501	4 340	4 681	4 466	4 428
Quebec	2 694	2 692	2 956	3 338	3 415	3 437	3 560	3 526
Manitoba	1 082	862	820	1 022	1 002	1 126	967	893
Newfoundland	706	699	837	878	906	1 038	1 539	1 928
New Brunswick	910	772	862	1 021	955	953	863	858
Northwest Territories	681	585	680	766	780	799	585	861
Nova Scotia	523	554	608	560	593	481	453	385
Nunavut	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	350
Yukon	496	141	86	196	425	225	150	91
Prince Edward Island	2	4	3	4	4	3	6	5
<b>Total</b>	<b>35 584</b>	<b>36 545</b>	<b>41 185</b>	<b>43 367</b>	<b>49 687</b>	<b>50 538</b>	<b>44 339</b>	<b>53 466</b>

Sources: Natural Resources Canada; Statistics Canada.

n.a. Not applicable; P Preliminary.

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

TABLE 6. CANADA, PRODUCTION OF LEADING MINERALS, 1998 AND 1999P

		Volume		Percent Change 1999/1998	Value		Percent Change 1999/1998
		1998	1999P		1998	1999P	
		(000 tonnes except where noted)			(\$ millions)		
<b>METALS</b>							
Gold	kg	164 773	157 790	-4.2	2 312.6	2 132.5	-7.8
Nickel		198	177	-10.5	1 411.2	1 563.0	10.8
Zinc		992	960	-3.2	1 507.2	1 533.3	1.7
Iron ore		36 586	33 004	-9.8	1 646.4	1 419.7	-13.8
Copper		691	580	-16.0	1 695.8	1 361.3	-19.7
Uranium	tU	9 992	9 892	-1.0	508.0	502.5	-1.1
Silver	t	1 140	1 173	2.9	301.1	296.5	-1.5
Platinum group	kg	15 588	14 012	-10.1	236.0	250.9	6.3
Lead		150	156	4.1	117.6	117.4	-0.2
Cobalt	t	2 262	2 015	-10.9	158.6	114.0	-28.1
Molybdenum	t	8 099	6 293	-22.3	98.8	75.7	-23.3
<b>NONMETALS</b>							
Potash (K <sub>2</sub> O equivalent)		8 884	8 345	-6.1	1 748.0	1 775.8	1.6
Diamonds	000 carats	203	2 400	1 082.3	40.8	581.7	1 326.7
Salt		13 034	12 643	-3.0	390.7	391.5	0.2
Peat		1 125	1 216	8.1	166.5	168.8	1.3
Asbestos		321	345	7.5	167.4	162.5	-2.9
Gypsum		8 307	8 935	7.6	94.3	101.2	7.3
Sulphur, elemental		8 404	8 792	4.6	62.1	80.7	30.0
Sulphur in smelter gas		836	846	1.2	55.5	63.1	13.8
<b>STRUCTURAL MATERIALS</b>							
Cement		12 124	12 604	4.0	1 147.8	1 232.1	7.3
Sand and gravel		225 338	218 458	-3.1	875.2	861.7	-1.6
Stone		108 924	104 026	-4.5	727.9	732.4	0.6
Lime		2 461	2 538	3.1	215.0	235.6	9.6
Clay products		..	..	..	135.8	165.7	22.0
<b>MINERAL FUELS</b>							
Petroleum crude	000 m <sup>3</sup>	128 401	122 448	-4.6	12 940.1	18 894.0	46.0
Natural gas	million m <sup>3</sup>	160 515	163 384	1.8	10 893.5	13 696.4	25.7
Natural gas by-products	000 m <sup>3</sup>	26 666	26 075	-2.2	1 763.1	2 347.3	33.1
Coal		75 360	72 310	-4.0	1 764.8	1 484.4	-15.9

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

.. Not available; P Preliminary.

Note: Numbers have been rounded.

TABLE 7. PRODUCTION OF LEADING MINERALS, BY PROVINCE AND TERRITORY IN CANADA, 1999P

	Unit	Nfld.	P.E.I.	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Yukon	N.W.T.	Nunavut	Total Canada
	(000)														
Crude oil and equivalent	m <sup>3</sup>	5 762	—	394	—	—	247	590	21 465	89 494	2 854	—	1 643	—	122 448
	\$	979 591	—	64 524	—	—	42 113	97 508	3 032 083	14 004 867	453 682	—	219 641	—	18 894 009
Natural gas	000 m <sup>3</sup>	—	—	—	—	—	304	—	6 033	135 702	20 710	489	146	—	163 384
	\$	—	—	—	—	—	43 989	—	545 978	11 632 596	1 435 013	27 108	11 716	—	13 696 400
Natural gas by-products	m <sup>3</sup>	—	—	—	—	—	—	—	63	25 510	502	—	—	—	26 075
	\$	—	—	—	—	—	—	—	6 496	2 289 074	51 684	—	—	—	2 347 254
Gold	g	1 400	—	—	220	37 492	76 221	8 207	1 703	11	24 933	4 537	3 067	—	157 790
	\$	18 916	—	—	2 978	506 704	1 030 128	110 914	23 010	145	336 968	61 316	41 455	—	2 132 534
Potash (K <sub>2</sub> O equivalent)	t	—	—	—	x	—	—	—	x	—	—	—	—	—	8 345
	\$	—	—	—	x	—	—	—	x	—	—	—	—	—	1 775 834
Nickel	kg	—	—	—	—	19 943	126 514	30 773	—	—	—	—	—	—	177 229
	\$	—	—	—	—	175 877	1 115 726	271 383	—	—	—	—	—	—	1 562 986
Zinc	kg	—	—	—	285 698	176 380	87 708	88 256	308	—	125 490	—	—	196 258	960 099
	\$	—	—	—	456 260	281 679	140 070	140 944	493	—	200 407	—	—	313 425	1 533 278
Coal	t	—	—	1 560	260	—	—	—	11 590	33 970	24 930	—	—	—	72 310
	\$	—	—	101 060	21 600	—	—	—	127 280	429 670	804 780	—	—	—	1 484 390
Iron ore	t	18 540	—	—	—	14 375	—	—	—	—	89	—	—	—	33 004
	\$	882 991	—	—	—	x	—	—	—	—	x	—	—	—	1 419 693
Copper	kg	—	—	—	10 562	125 163	209 580	52 020	168	—	182 543	—	—	—	580 036
	\$	—	—	—	24 788	293 758	491 884	122 091	394	—	428 429	—	—	—	1 361 344
Cement	t	x	—	x	—	2 758	5 530	—	—	x	1 679	—	—	—	12 604
	\$	x	—	x	—	229 897	510 532	—	—	x	171 637	—	—	—	1 232 058
Sand and gravel	t	3 728	260	2 409	4 661	23 940	86 705	9 627	12 320	40 171	33 558	621	458	—	218 458
	\$	17 904	1 358	10 820	x	64 554	321 663	x	x	196 066	163 398	2 094	2 175	—	861 659
Stone	t	2 516	—	7 005	3 667	29 791	49 602	4 547	—	488	6 156	—	255	—	104 026
	\$	16 553	—	42 094	22 582	211 029	360 238	22 503	—	4 865	47 906	—	4 599	—	732 369
Diamonds	carats	—	—	—	—	—	—	—	—	—	—	—	2 400	—	2 400
	\$	—	—	—	—	—	—	—	—	—	—	—	581 721	—	581 721
Uranium	kg	—	—	—	—	—	—	—	9 892	—	—	—	—	—	9 892
	\$	—	—	—	—	—	—	—	502 482	—	—	—	—	—	502 482
Titanium dioxide	t	—	—	—	—	x	—	—	—	—	—	—	—	—	x
	\$	—	—	—	—	x	—	—	—	—	—	—	—	—	x
Salt	t	—	—	x	x	x	7 787	—	727	1 259	—	—	—	—	12 643
	\$	—	—	x	x	x	246 231	—	30 510	22 623	—	—	—	—	391 487
Silver	kg	1	—	—	220	186	216	35	0	—	497	2	1	16	1 173
	\$	152	—	—	55 733	47 048	54 552	8 801	53	—	125 570	440	158	4 040	296 547
Iron, remelt	t	—	—	—	—	x	—	—	—	—	—	—	—	—	x
	\$	—	—	—	—	x	—	—	—	—	—	—	—	—	x
Platinum group	g	—	—	—	—	—	x	x	—	—	—	—	—	—	14 012
	\$	—	—	—	—	—	x	x	—	—	—	—	—	—	250 947
Lime	t	—	—	—	x	x	1 384	x	—	x	x	—	—	—	2 538
	\$	—	—	—	x	x	121 913	x	—	x	x	—	—	—	235 621
Peat	t	2	43	x	444	372	—	x	x	178	—	—	—	—	1 216
	\$	417	3 541	x	57 558	49 864	—	x	x	26 511	—	—	—	—	168 767
Clay products	\$	x	—	x	—	x	128 682	—	x	x	x	—	—	—	165 713
Asbestos	t	—	—	—	—	345	—	—	—	—	—	—	—	—	345
	\$	—	—	—	—	162 450	—	—	—	—	—	—	—	—	162 450
Lead	kg	—	—	—	72 925	—	—	—	—	—	40 041	—	—	43 136	156 102
	\$	—	—	—	54 839	—	—	—	—	—	30 111	—	—	32 438	117 389
Total leading minerals	\$	1 927 446	4 899	302 761	845 872	3 384 807	4 840 957	848 611	5 982 233	28 915 237	4 279 430	90 958	861 464	349 904	52 634 580
Total all minerals	\$	1 928 321	4 899	385 420	857 517	3 526 325	5 120 515	892 703	6 020 346	28 999 698	4 427 908	90 958	861 464	349 904	53 465 978
Leading minerals as a percentage of all minerals		100.0	100.0	78.6	98.6	96.0	94.5	95.1	99.4	99.7	96.6	100.0	100.0	100.0	98.4

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, 1998<sup>P</sup>**

		World	Rank of Five Leading Countries				
			1	2	3	4	5
Potash (K <sub>2</sub> O equivalent) (mine production)	000 t % of world total	25 881	<b>Canada</b> 9 201 35.6	C.I.S. 6 915 26.7	Germany 3 585 13.9	Israel 1 670 6.5	United States 1 300 5.0
Uranium (U concentrates) (mine production)	t % of world total	33 969	<b>Canada</b> 11 041 <sup>a</sup> 32.5	Australia 4 901 14.4	Niger 3 713 10.9	Namibia 2 778 8.2	Russia 2 000 5.9
Nickel (mine production)	000 t % of world total	1 113	Russia 235 21.1	<b>Canada</b> 208 18.7	Australia 144 12.9	New Caledonia 125 11.3	Indonesia 74 6.7
Zinc (mine production)	000 t % of world total	7 644	China 1 273 16.7	<b>Canada</b> 1 065 13.9	Australia 1 059 13.9	Peru 869 11.4	United States 755 9.9
Cadmium (refined production)	t % of world total	19 636	Japan 2 336 11.9	<b>Canada</b> 2 067 10.5	China 2 000 10.2	United States 1 878 9.6	Belgium 1 318 6.7
Asbestos (mine production)	000 t % of world total	1 925	C.I.S. 630 32.7	China 440 22.9	<b>Canada</b> 302 15.7	Brazil 198 10.3	Zimbabwe 130 6.8
Titanium concentrates (ilmenite, rutile, slag)	000 t % of world total	7 126 <sup>e</sup>	Australia 2 644 37.1	South Africa 1 220 17.1	<b>Canada</b> 950 13.3	United States 601 11.8	Norway 590 8.3
Aluminum (primary metal)	000 t % of world total	22 579	United States 3 713 16.4	C.I.S. 3 005 13.3	<b>Canada</b> 2 374 10.5	China 2 285 10.1	Australia 1 626 7.2
Platinum group metals (mine production)	kg % of world total	289 107	South Africa 188 000 65.0	Russia 67 500 23.3	<b>Canada</b> 15 287 5.3	United States 13 840 4.8	Japan 2 550 0.9
Salt (mine production)	000 t % of world total	185 996	United States 41 200 22.2	China 30 800 16.6	Germany 15 700 8.4	<b>Canada</b> 13 296 7.1	India 9 500 5.1
Gold (mine production)	t % of world total	2 443	South Africa 464 19.0	United States 366 15.0	Australia 309 12.6	<b>Canada</b> 166 6.8	China 158 6.5
Molybdenum (Mo content) (mine production)	t % of world total	135 478	United States 53 300 39.3	China 30 000 22.1	Chile 25 298 18.7	<b>Canada</b> 8 469 6.3	Mexico 5 949 4.4
Copper (mine production)	000 t % of world total	12 183	Chile 3 687 30.3	United States 1 859 15.3	Indonesia 809 6.6	<b>Canada</b> 705 5.8	Australia 607 5.0
Gypsum (mine production)	000 t % of world total	107 867	United States 19 000 17.6	Thailand 9 000 8.3	China 9 000 8.3	Iran 9 000 8.3	<b>Canada</b> 8 967 8.3
Cobalt (shipments)	t % of world total	25 154	Zambia 7 000 27.8	Congo, D.R. 4 490 17.9	Russia 4 000 15.9	Cuba 2 200 8.7	<b>Canada</b> 2 015 8.0
Lead (mine production)	000 t % of world total	3 117	China 710 22.3	Australia 618 19.5	United States 491 15.5	Peru 257 8.1	<b>Canada</b> 189 5.9

Sources: Natural Resources Canada, from *World Nonferrous Metal Statistics* and the *Canadian Minerals Yearbook*; U.S. Geological Survey.

C.I.S.: Commonwealth of Independent States; <sup>e</sup> Estimated; <sup>P</sup> Preliminary.

<sup>a</sup> Includes uranium (tU) recovered by Elliot Lake producers from refinery/conversion facility wastes.

**TABLE 9. CANADA, GROSS DOMESTIC PRODUCT OF INDUSTRIAL PRODUCTION, MINING AND MINERAL MANUFACTURING AT FACTOR COST AT 1992 PRICES, 1992-99**

	1992	1993	1994	1995	1996	1997	1998	1999
	(\$ millions)							
Total industrial production <sup>1</sup>	141 603	148 010	157 555	164 705	167 496	176 658	180 797	188 910
Total mining	23 054	23 942	25 067	25 932	26 398	27 593	27 502	26 721
<b>METALS</b>								
Gold mines	1 203	1 162	1 061	1 048	1 154	1 221	1 165	1 099
Other metal mines	3 358	3 077	2 745	2 797	2 814	2 599	2 666	2 410
Iron mines	433	421	499	501	533	580	567	478
<b>MINERAL FUELS</b>								
Crude oil and natural gas	14 001	14 708	15 412	15 881	16 060	16 532	17 002	16 590
<b>NONMETALS</b>								
Asbestos	110	101	102	n.a.	n.a.	n.a.	n.a.	n.a.
Miscellaneous nonmetals	200	223	264	n.a.	n.a.	n.a.	n.a.	n.a.
Potash	706	655	792	845	743	835	851	778
Salt	147	142	167	142	162	180	174	164
Coal	797	929	966	1 017	1 043	1 066	1 002	960
Quarry and sand pits	562	609	679	757	772	787	901	940
<b>SERVICES RELATED TO MINING</b>	1 537	1 915	2 380	2 567	2 785	3 453	2 831	2 681
<b>MINERAL MANUFACTURING</b>								
Primary metals	5 293	5 617	5 646	5 809	6 019	6 272	6 339	6 458
Primary steel	2 035	2 292	2 347	2 388	2 414	2 498	2 425	2 529
Steel pipe and tube mills	333	422	457	425	504	582	575	579
Iron foundries	478	514	498	591	501	537	523	496
Nonferrous smelting and refining	1 775	1 633	1 600	1 641	1 722	1 728	1 790	1 739
Casting, rolling and extruding	672	756	744	764	878	927	1 026	1 116
Nonmetallic mineral products	2 547	2 589	2 656	2 704	2 871	3 117	3 405	3 684
Cement	319	339	375	370	393	421	435	451
Concrete products	408	358	384	433	419	477	515	582
Ready-mix concrete	407	453	461	423	460	476	519	548
Glass and glass products	582	609	626	634	677	766	928	1 033
Miscellaneous nonmetallic products	831	830	810	844	922	977	1 008	1 070
Petroleum and coal products	975	982	1 029	1 044	1 084	1 106	1 100	1 134

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

<sup>1</sup> Industrial production includes mining, quarrying and oil wells, mineral manufacturing and other utility industries.

**TABLE 10. CANADA, GROSS DOMESTIC PRODUCT BY INDUSTRY AT FACTOR COST AT 1992 PRICES, 1992-99**

	1992	1993	1994	1995	1996	1997	1998	1999
	(\$ millions)							
Gross domestic product, all industries	604 275	618 422	645 956	663 082	673 088	700 804	721 003	750 040
Agriculture	10 260	11 127	11 391	11 682	12 281	12 296	12 809	13 562
Fishing and trapping	1 026	1 059	865	704	727	788	780	768
Logging and forestry	4 031	4 243	4 442	4 645	4 348	4 326	4 234	4 554
Mines (including milling), quarries and oil wells	23 054	23 942	25 067	25 932	26 398	27 593	27 502	26 721
Manufacturing	96 181	101 101	108 859	114 239	116 186	124 064	128 850	136 867
Construction	37 112	35 774	36 880	35 661	36 909	40 213	40 242	41 754
Transportation and storage	26 078	27 109	29 380	30 368	31 132	32 948	33 576	35 074
Communications	19 541	19 096	19 886	20 641	21 084	21 885	23 392	26 523
Electric power, gas and water utilities	22 368	22 967	23 629	24 534	24 912	25 001	24 445	25 322
Trade, wholesale	30 892	31 435	34 194	34 696	35 732	38 489	41 286	45 943
Trade, retail	35 262	36 537	38 793	40 282	40 890	43 168	44 778	46 545
Finance, insurance and real estate	97 577	100 556	105 182	108 183	110 754	114 842	117 976	120 683
Community, business and personal services	27 782	29 227	30 874	33 385	34 622	37 250	40 291	43 442
Government services	45 409	45 401	45 725	45 646	44 618	44 088	44 610	45 500

Source: Statistics Canada.

**TABLE 11. CANADA, STAGE I TO STAGE IV, DOMESTIC EXPORTS OF MINERALS AND MINERAL PRODUCTS BY COMMODITY, 1997-99**

	Unit of Measure	1997		1998		1999p	
		(000)	(Quantity)	(\$000)	(Quantity)	(\$000)	(Quantity)
<b>METALS</b>							
Aluminum	..	..	7 127 364	..	7 116 487	..	7 210 216
Antimony	kg	244	875	769	1 403	58	491
Bismuth	kg	135	1 415	175	2 015	188	2 102
Cadmium	kg	2 622	5 612	2 097	3 205	2 231	3 789
Calcium metal	kg	5 687	4 298	5 621	3 743	1 970	2 571
Chromium	kg	7 902	33 642	7 074	31 939	6 436	30 111
Cobalt	kg	6 356	431 471	7 049	472 106	6 539	295 153
Copper	..	..	2 929 108	..	2 432 249	..	1 992 081
Gold	..	..	3 485 710	..	3 384 921	..	2 811 480
Iron and steel	..	..	8 500 141	..	9 612 605	..	9 808 711
Iron ore	t	32 340	1 262 406	30 293	1 289 784	26 477	1 052 194
Lead	..	..	334 083	..	275 946	..	280 462
Magnesium and magnesium compounds	kg	106 592	252 921	111 569	273 404	118 011	251 523
Molybdenum	kg	11 303	91 702	10 778	67 770	10 663	47 307
Nickel	..	..	2 119 922	..	1 927 514	..	1 696 442
Platinum group	..	..	182 857	..	207 882	..	204 219
Silver	..	..	350 772	..	508 457	..	488 162
Tin	..	..	17 343	..	13 791	..	11 782
Titanium metals	kg	44 346	16 678	30 178	17 134	34 127	39 620
Uranium and thorium	..	..	970 889	..	786 159	..	700 600
Zinc	kg	1 121 286	1 789 170	1 088 406	1 552 139	1 029 140	1 587 723
Other metals	..	..	4 095 422	60 386	4 774 704	64 286	4 980 602
Total metals			34 003 801		34 755 357		33 497 341
<b>NONMETALS</b>							
Asbestos	..	..	308 350	..	264 272	..	271 021
Barite and witherite	t	21	5 907	25	9 158	16	6 061
Diamonds	t	..	13 660	110	6 869	..	14 002
Graphite	..	..	132 581	..	134 099	..	105 866
Gypsum	..	..	288 927	..	341 551	..	461 598
Mica	t	16	9 240	18	11 289	24	14 145
Nepheline syenite	t	372	50 498	338	52 205	331	48 976
Peat	..	..	288 094	..	320 963	..	329 792
Potash and potassium compounds	kg	14 647 353	1 752 693	14 278 282	1 978 593	14 355 031	2 109 328
Salt and sodium compounds	t	4 727	503 537	5 228	543 058	4 862	492 708
Silica and silica compounds	t	..	18 370	..	16 923	..	22 179
Sulphur and sulphur compounds	t	8 185	468 190	6 900	359 787	5 844	307 911
Talc, soapstone and pyrophyllite	t	26	8 010	30	10 227	44	17 687
Titanium oxides	kg	79 185	172 758	83 939	211 332	82 285	212 441
Other nonmetals	..	..	2 842 064	3 835 200	2 804 192	4 181 219	2 948 079
Total nonmetals			6 862 879		7 064 518		7 361 794
<b>STRUCTURAL MATERIALS</b>							
Cement	..	..	573 844	..	627 716	..	734 531
Clay and clay products	..	..	44 475	..	39 821	..	45 138
Lime	kg	224 233	27 203	171 447	21 300	96 081	13 214
Sand and gravel	t	1 809	15 680	1 999	19 723	2 874	25 713
Stone	..	..	117 019	4 181	138 546	3 121	154 158
Other structural materials	..	..	69 655	1 000 277	113 425	2 442 607	137 641
Total structural materials			847 876		960 531		1 110 395
<b>FUELS</b>							
Coal and coke	t	36 158	2 734 570	33 491	2 522 542	34 085	2 032 647
Natural gas	000 m <sup>3</sup>	81 795	8 625 631	89 163	8 967 101	94 380	11 021 970
Natural gas by-products	000 m <sup>3</sup>	8	1 161 236	9	863 115	8	979 309
Petroleum	..	..	17 003 934	..	12 949 875	..	15 030 687
Other fuels	kg	163 634	257 592	163 828	269 669	169 830	249 421
Total fuels			29 782 963		25 572 302		29 314 034
Total mineral domestic exports (including fuels)			71 497 519		68 352 708		71 283 564
Total economy domestic exports			281 255 740		297 451 300		330 409 547

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, 1997-99**

	Unit of Measure	1997		1998		1999p	
		(000)	(Quantity)	(Quantity)	(000)	(Quantity)	(000)
<b>METALS</b>							
Aluminum	..	..	3 826 154	..	4 372 743	..	4 438 861
Antimony	kg	2 514	11 017	2 671	9 749	2 618	8 396
Bismuth	kg	237	3 043	220	2 426	182	1 564
Cadmium	kg	487	1 341	35	607	65	887
Calcium metal	kg	53 902	40 576	74 777	47 562	101 519	48 383
Chromium	kg	104 999	97 949	96 022	94 036	98 959	80 868
Cobalt	kg	1 213	63 955	1 522	62 975	1 187	37 432
Copper	..	..	1 810 273	..	1 626 759	..	1 659 267
Gold	..	..	1 438 458	..	1 577 846	..	1 059 555
Iron and steel	..	..	12 912 016	..	15 463 893	..	15 441 634
Iron ore	t	7 148	357 847	7 279	389 217	7 358	378 638
Lead	..	..	557 337	..	596 860	..	547 653
Magnesium and magnesium compounds	kg	326 106	203 457	277 286	186 692	199 939	211 265
Molybdenum	kg	3 677	40 489	4 216	41 009	5 027	39 316
Nickel	..	..	598 621	..	640 843	..	374 728
Platinum group	g	266 556	228 667	215 526	182 448	..	181 516
Silver	..	..	142 555	..	136 916	..	133 485
Tin	..	..	59 242	..	61 768	..	74 012
Titanium metals	kg	11 460	73 751	8 327	94 962	7 832	68 247
Uranium and thorium	..	..	221 025	..	223 768	..	295 287
Zinc	..	..	275 863	..	234 800	..	262 609
Other metals	..	86 950	8 291 411	97 698	9 957 426	90 290	10 829 715
Total metals			31 255 047		36 005 305		36 173 318
<b>NONMETALS</b>							
Asbestos	..	..	85 319	..	81 052	..	102 928
Barite and witherite	t	22	2 994	14	2 479	56	7 163
Diamonds	..	..	223 942	..	251 158	..	295 665
Graphite	..	..	368 882	..	447 326	..	505 651
Gypsum	..	..	30 702	..	36 145	..	46 356
Mica	t	4	12 369	5	11 465	5	13 265
Nepheline syenite	..	..	12	..	3	..	13
Peat	..	..	1 289	..	2 743	..	1 815
Potash and potassium compounds	kg	..	39 055	118 381	41 572	106 888	37 376
Salt and sodium compounds	t	2 306	318 161	1 928	308 362	2 450	326 733
Silica and silica compounds	..	..	125 731	..	143 386	..	195 782
Sulphur and sulphur compounds	kg	152	19 089	191	21 943	195	21 037
Talc, soapstone and pyrophyllite	kg	56	13 072	47	12 173	58	14 541
Titanium oxides	kg	110 846	230 258	116 794	269 981	111 959	276 401
Other nonmetals	..	602 913	3 483 442	827 965	3 966 302	820 400	4 328 399
Total nonmetals			4 954 317		5 596 090		6 173 125
<b>STRUCTURAL MATERIALS</b>							
Cement	..	..	188 157	..	210 285	..	210 829
Clay and clay products	..	..	762 927	..	883 009	..	940 573
Lime	kg	47 382	6 380	33 988	5 752	54 515	7 724
Sand and gravel	t	3 207	17 621	3 068	18 956	3 034	17 993
Stone	..	3 391	103 907	4 051	133 071	4 306	135 342
Other structural materials	..	9 191	68 560	5 834	80 035	7 342	84 504
Total structural materials			1 147 552		1 331 108		1 396 965
<b>FUELS</b>							
Coal and coke	t	15 939	879 164	20 881	1 141 527	20 948	1 117 026
Natural gas	000 m <sup>3</sup>	953	137 292	734	104 003	630	87 885
Natural gas by-products	000 m <sup>3</sup>	..	56 091	..	56 798	..	71 269
Petroleum	..	..	11 428 657	..	9 053 958	..	9 765 972
Other fuels	..	..	347 620	..	442 675	..	495 193
Total fuels			12 848 824		10 798 961		11 537 345
Total mineral imports (including fuels)			50 205 740		53 731 464		55 280 753
Total economy imports			272 855 758		298 381 900		319 909 560

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, 1999P**

	United States	EU	Japan	Mexico	Other	Total
	(\$000)					
<b>METALS</b>						
Aluminum	6 363 657	356 023	297 034	22 684	170 818	7 210 216
Antimony	491	—	—	—	—	491
Bismuth	1 236	461	405	—	—	2 102
Cadmium	1 957	1 333	412	—	87	3 789
Calcium metal	597	1 771	44	—	159	2 571
Chromium	29 769	30	—	—	312	30 111
Cobalt	41 131	67 857	56 722	10	129 433	295 153
Copper	1 631 100	99 385	148 835	47	112 714	1 992 081
Gold	2 691 453	2 918	39 688	4 625	72 796	2 811 480
Iron and steel	9 362 031	159 574	21 115	34 278	231 713	9 808 711
Iron ore	306 409	630 545	19 813	—	95 427	1 052 194
Lead	218 436	43 405	669	245	17 707	280 462
Magnesium and magnesium compounds	207 934	27 078	5 095	—	11 416	251 523
Molybdenum	12 729	17 481	15 455	—	1 642	47 307
Nickel	505 569	495 225	66 150	328	629 170	1 696 442
Platinum group	100 892	102 286	1 023	—	18	204 219
Silver	436 679	23 119	24 609	12	743	488 162
Tin	10 777	492	134	—	379	11 782
Titanium metals	38 065	1 111	67	—	377	39 620
Uranium and thorium	500 044	166 537	7 011	2 637	24 371	700 600
Zinc	1 064 458	342 897	19 951	52	160 365	1 587 723
Other metals	4 251 161	318 733	140 161	32 725	237 824	4 980 602
<b>Total metals</b>	<b>27 779 575</b>	<b>2 858 261</b>	<b>864 393</b>	<b>97 643</b>	<b>1 897 471</b>	<b>33 497 341</b>
<b>NONMETALS</b>						
Asbestos	76 084	11 585	39 687	10 898	132 767	271 021
Barite and witherite	5 485	—	—	—	576	6 061
Diamonds	13 870	132	—	—	—	14 002
Graphite	77 632	6 383	126	5 117	16 608	105 866
Gypsum	459 076	430	55	—	2 037	461 598
Mica	10 964	425	1 991	—	765	14 145
Nepheline syenite	42 453	1 541	717	182	4 083	48 976
Peat	296 536	10 651	14 286	17	8 302	329 792
Potash and potassium compounds	1 137 224	53 603	84 228	1 965	832 308	2 109 328
Salt and sodium compounds	447 590	1 474	7 268	426	35 950	492 708
Silica and silica compounds	17 999	57	—	24	4 099	22 179
Sulphur and sulphur compounds	70 766	—	574	22 121	214 450	307 911
Talc, soapstone and pyrophyllite	17 651	21	16	—	...	17 687
Titanium oxides	203 497	3 380	—	—	5 564	212 441
Other nonmetals	2 777 602	66 496	10 181	1 945	91 855	2 948 079
<b>Total nonmetals</b>	<b>5 654 429</b>	<b>156 178</b>	<b>159 129</b>	<b>42 695</b>	<b>1 349 364</b>	<b>7 361 794</b>
<b>STRUCTURAL MATERIALS</b>						
Cement	724 303	2 861	2 171	—	5 196	734 531
Clay and clay products	38 369	3 996	167	...	2 606	45 138
Lime	13 214	—	—	—	—	13 214
Sand and gravel	23 849	1	—	—	1 863	25 713
Stone	138 069	6 734	4 440	—	4 915	154 158
Other structural materials	127 740	1 163	788	2 380	5 570	137 641
<b>Total structural materials</b>	<b>1 065 544</b>	<b>14 755</b>	<b>7 566</b>	<b>2 380</b>	<b>20 150</b>	<b>1 110 395</b>
<b>FUELS</b>						
Coal and coke	180 060	308 002	895 450	17 795	631 340	2 032 647
Natural gas	11 021 954	—	—	—	16	11 021 970
Natural gas by-products	979 308	—	—	—	1	979 309
Petroleum	14 745 154	33 321	37 255	146	214 811	15 030 687
Other fuels	218 068	10 844	2 825	12	17 672	249 421
<b>Total fuels</b>	<b>27 144 544</b>	<b>352 167</b>	<b>935 530</b>	<b>17 953</b>	<b>863 840</b>	<b>29 314 034</b>
<b>Total domestic mineral exports</b>	<b>61 644 092</b>	<b>3 381 361</b>	<b>1 966 618</b>	<b>160 671</b>	<b>4 130 825</b>	<b>71 283 564</b>

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, 1999P**

	United States	EU	Japan	Mexico	Other	Total
	(\$000)					
<b>METALS</b>						
Aluminum	3 322 624	267 809	10 728	4 055	833 645	4 438 861
Antimony	5 295	2 205	15	—	881	8 396
Bismuth	1 289	102	—	—	173	1 564
Cadmium	508	369	1	7	2	887
Calcium metal	36 649	7 005	53	—	4 676	48 383
Chromium	23 714	5 188	1 794	2 566	47 606	80 868
Cobalt	13 018	6 287	2 358	—	15 769	37 432
Copper	1 169 109	128 383	9 531	20 988	331 256	1 659 267
Gold	659 257	20 242	197	3 330	376 529	1 059 555
Iron and steel	11 344 281	1 429 743	695 346	324 174	1 648 090	15 441 634
Iron ore	346 333	779	1	1	31 524	378 638
Lead	439 506	26 662	12 654	16 474	52 357	547 653
Magnesium and magnesium compounds	125 850	11 860	731	370	72 454	211 265
Molybdenum	31 421	2 088	23	938	4 846	39 316
Nickel	171 405	56 749	62 178	13 793	70 603	374 728
Platinum group	88 429	34 711	5	6	58 365	181 516
Silver	55 895	11 080	898	27 062	38 550	133 485
Tin	47 917	2 724	13	319	23 039	74 012
Titanium metals	48 620	11 484	4 059	—	4 084	68 247
Uranium and thorium	41 338	9 599	179	...	244 171	295 287
Zinc	196 769	10 526	268	10 920	44 126	262 609
Other metals	7 104 689	905 602	208 019	1 047 733	1 563 673	10 829 715
Total metals	25 273 916	2 951 197	1 009 051	1 472 736	5 466 419	36 173 318
<b>NONMETALS</b>						
Asbestos	90 056	1 915	3 465	2 186	5 306	102 928
Barite and witherite	2 593	409	—	—	4 161	7 163
Diamonds	48 160	94 595	117	—	152 793	295 665
Graphite	370 908	52 581	36 234	2 103	43 825	505 651
Gypsum	37 753	2 876	66	2 923	2 738	46 356
Mica	9 385	2 927	243	—	710	13 265
Nepheline syenite	...	—	—	—	13	13
Peat	413	605	—	...	797	1 815
Potash and potassium compounds	31 296	2 725	36	25	3 294	37 376
Salt and sodium compounds	279 372	23 735	755	5 345	17 526	326 733
Silica and silica compounds	173 110	14 361	5 266	127	2 918	195 782
Sulphur and sulphur compounds	20 078	830	2	1	126	21 037
Talc, soapstone and pyrophyllite	14 196	55	181	—	109	14 541
Titanium oxides	189 542	71 082	1 529	1	14 247	276 401
Other nonmetals	3 391 837	390 752	91 589	97 234	356 989	4 328 399
Total nonmetals	4 658 699	659 448	139 483	109 945	605 552	6 173 125
<b>STRUCTURAL MATERIALS</b>						
Cement	178 002	9 143	1 753	4 798	17 133	210 829
Clay and clay products	366 327	287 053	26 760	45 513	214 920	940 573
Lime	7 672	7	—	—	45	7 724
Sand and gravel	17 784	74	3	5	127	17 993
Stone	55 780	42 659	6	1 943	34 954	135 342
Other structural materials	64 722	10 930	569	1 862	6 421	84 504
Total structural materials	690 287	349 866	29 091	54 121	273 600	1 396 965
<b>FUELS</b>						
Coal and coke	1 039 795	3 013	4 895	19	69 304	1 117 026
Natural gas	87 725	5	1	—	154	87 885
Natural gas by-products	70 443	109	22	—	695	71 269
Petroleum	2 301 456	1 993 080	4 907	267 138	5 199 391	9 765 972
Other fuels	438 525	47 385	4 115	2 060	3 108	495 193
Total fuels	3 937 944	2 043 592	13 940	269 217	5 272 652	11 537 345
Total mineral imports	34 560 846	6 004 103	1 191 565	1 906 019	11 618 223	55 280 753

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 CONSUMPTION<sup>1</sup> OF SOME MINERALS AND RELATION TO PRODUCTION,<sup>2</sup> 1996-98

	1996			1997			1998		
	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	1 925 544 <sup>r</sup>	1 668 462	115.4	1 812 233 <sup>r</sup>	1 792 778	101.1 <sup>r</sup>	2 112 667	1 885 926	112.0
Lime <sup>3</sup>	2 221 823	2 402 032	92.5	2 299 721	2 476 571	92.9	2 323 585	2 461 043	94.4
Salt	9 569 294	12 248 477	78.1	11 125 685 <sup>r</sup>	13 496 856	82.4	9 834 738	13 034 295	75.5
Cement <sup>4</sup>	6 864 706	11 587 365	59.2	7 155 518	11 736 272	61.0	6 952 314	12 124 058	57.3
Iron ore	13 353 341	34 399 968	38.8	13 695 396 <sup>r</sup>	38 927 855	35.2	13 517 652	36 585 595	36.9
Gypsum	2 922 971	8 201 774	35.6	2 866 713	8 627 772	33.2	2 850 981	8 306 534	34.3
Potash (K <sub>2</sub> O equivalent)	257 042	8 120 389	3.2	374 711	9 234 742	4.1	202 130	8 883 616	2.3
Asbestos	2 622	506 276	0.5	-	420 278	..	1 900	321 330	0.6

Sources: Natural Resources Canada; Statistics Canada.

- Nil; . . Not available; K<sub>2</sub>O potassium oxide; <sup>r</sup> Revised.<sup>1</sup> "Apparent consumption" is production plus imports, less exports. <sup>2</sup> "Production" refers to producers' shipments. <sup>3</sup> Apparent consumption contains slaked lime in the trade data. <sup>4</sup> Apparent consumption contains clinker cement in the trade data.

TABLE 16. CANADA, REPORTED CONSUMPTION OF MINERALS AND RELATION TO PRODUCTION, 1996-98

	Unit of Measure	1996			1997			1998		
		Consumption	Production	Consumption as a Percentage of Production	Consumption	Production	Consumption as a Percentage of Production	Consumption	Production	Consumption as a Percentage of Production
				(%)			(%)			(%)
<b>METALS</b>										
Aluminum <sup>1</sup>	t	686 969	2 283 212	30.1	781 268	2 327 188	33.6	902 514	2 374 118	38.0
Antimony	kg	688 800	1 380 169	49.9	1 158 210	529 198	218.9	791 255	359 347	220.2
Bismuth	kg	13 118 <sup>r</sup>	149 839	8.8 <sup>r</sup>	10 846 <sup>r</sup>	195 720	5.5 <sup>r</sup>	14 641	186 400	7.9
Cadmium	kg	99 323	1 540 072	6.4	123 192	1 272 172	9.7	117 122	1 179 427	9.9
Chromium (chromite)	t	17 466	-	..	15 380	-	..	16 964	-	..
Cobalt	kg	147 350	2 150 339	6.9	136 382	2 167 554	6.3	145 983	2 262 477	6.5
Copper <sup>2</sup>	t	218 280	652 499	33.5	224 777	647 779	34.7	246 212	690 762	35.6
Lead <sup>3</sup>	t	93 373	241 751	38.6	92 997 <sup>r</sup>	170 847	54.4	87 466	150 019	58.3
Magnesium	t	27 576	x	x	34 026	x	x	32 563	x	x
Manganese ore	t	9 747	-	..	9 868	-	..	7 339	-	..
Mercury	kg	6 327	-	..	x	-	..	2 803	-	x
Molybdenum (Mo content)	t	2 305	8 789	26.2	2 545	7 594	33.5	2 573	8 099	31.8
Nickel	t	24 504	182 404	13.4	19 447	180 624	10.8	19 243	197 947	9.7
Selenium	kg	15 815	693 666	2.3	9 175	592 135	1.5	9 782	397 876	2.5
Silver	kg	410 730	1 242 846	33.0	333 402	1 193 970	27.9	334 857	1 140 238	29.4
Tellurium	kg	x	58 700	x	x	59 322	x	x	62 274	x
Tin	t	2 796	-	..	2 850	-	..	2 753	-	..
Tungsten (W content)	kg	397 770	-	..	289 934	-	..	212 415	-	..
Zinc <sup>3</sup>	t	134 787 <sup>r</sup>	1 162 720	11.6 <sup>r</sup>	133 553 <sup>r</sup>	1 026 864	13.0 <sup>r</sup>	138 424	991 584	14.0
<b>NONMETALS</b>										
Barite	t	14 399	57 967	24.8	11 765	84 091	14.0	16 209	86 159	18.8
Feldspar	t	1 504	-	..	1 578	-	..	1 588	-	..
Fluorspar	t	23 814	-	..	75 791	-	..	92 822	-	..
Mica	t	3 211	x	x	3 334	x	x	3 606	x	x
Nepheline syenite	t	76 577	606 439	12.6	73 264	648 280	11.3	69 634	636 406	10.9
Phosphate rock	t	x	-	..	x	-	..	x	-	..
Potash (K <sub>2</sub> O equivalent)	t	216 349	8 120 389	2.7	217 841	9 234 742	2.4	271 078	8 883 616	3.1
Sodium sulphate	t	113 985	323 326	35.3	112 906	285 196	39.6	117 131	258 249	45.4
Sulphur	t	757 705	9 116 366	8.3	758 886	9 072 374	8.4	765 093	9 240 245	8.3
Talc, etc.	t	91 498	77 016	118.8	84 991	72 444	117.3	82 696	72 095	114.7
<b>MINERAL FUELS</b>										
Coal	000 t	53 511	75 860	70.5	55 734 <sup>r</sup>	78 670	70.8	58 846	75 360	78.1
Crude oil <sup>4</sup>	000 m <sup>3</sup>	92 687	117 621	78.8	96 431	123 827	77.9	95 435	128 401	74.3
Natural gas <sup>5</sup>	million m <sup>3</sup>	54 674	153 578	35.6	52 541	156 171	33.6	45 608	160 515	28.4

Sources: Natural Resources Canada; Statistics Canada.

- Nil; . . Not available; <sup>r</sup> Revised; x Confidential.<sup>1</sup> Consumption of primary aluminum ingot and alloys, and secondary ingot and scrap, reported by consumers. <sup>2</sup> Consumption is defined as domestic shipments of refined copper plus imports of refined copper. <sup>3</sup> Consumption of primary and secondary refined metal. <sup>4</sup> Consumption is defined as refinery receipts. <sup>5</sup> 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,<sup>1</sup> 1992-98**

	Unit of Measure	1992	1993	1994	1995	1996	1997	1998
<b>ALUMINUM</b>								
Domestic consumption <sup>2</sup>	t	481 089	568 854	635 024	635 402	686 969	781 268	902 514
Production	t	1 971 843	2 308 867	2 254 683	2 171 992	2 283 212	2 327 188	2 374 118
Consumption as a percentage of production	%	24.4	24.6	28.2	29.3	30.1	33.6	38.0
<b>COPPER</b>								
Domestic consumption <sup>3</sup>	t	156 132	185 565	199 350	189 550	218 280	224 777	246 212
Production	t	539 302	561 580	549 869	572 616	559 200	560 582	562 261
Consumption as a percentage of production	%	29.0	33.0	36.3	33.1	39.0	40.1	43.8
<b>LEAD</b>								
Domestic consumption <sup>4</sup>	t	92 420	91 915	95 764	91 171	93 373	92 997r	87 466
Production <sup>5</sup>	t	252 885	217 014	251 640	281 391	310 791	271 395	265 487
Consumption as a percentage of production	%	36.5	42.4	38.1	32.4	30.0	34.3r	32.9
<b>ZINC</b>								
Domestic consumption <sup>4</sup>	t	114 725	110 570r	122 118r	130 735r	134 787r	133 553r	138 424
Production	t	671 702	659 881	690 965	720 346	716 467	703 798	745 131
Consumption as a percentage of production	%	17.1	16.8r	17.7r	18.1r	18.8r	19.0r	18.6

Source: Natural Resources Canada.

r Revised.

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

**TABLE 18. AVERAGE ANNUAL PRICES<sup>1</sup> OF SELECTED METALS, 1992-99**

	Unit	1992	1993	1994	1995	1996	1997	1998	1999
Aluminum, London Metal Exchange	¢/lb	56.893	51.639	66.986	81.903	68.296	72.544	61.574	61.738
Antimony, New York dealer	\$/lb	0.791	0.769	1.777	2.278	1.466	0.996	0.718	0.627
Bismuth, New York dealer	\$/lb	2.506	2.350	3.070	3.781	3.546	3.275	3.408	3.378
Cadmium, New York dealer	\$/lb	0.907	0.451	1.144	1.839	1.238	0.513	0.286	0.177
Cobalt, metal, shot/cathode/250 kg	\$/lb	24.300	18.000	19.900	27.069	27.500	27.500	27.500	27.500
Copper, electrolytic cathode, COMEX	¢/lb	102.721	85.283	107.052	134.717	105.872	103.580	75.077	72.111
Gold, London <sup>2</sup>	\$/troy oz	343.731	359.769	384.009	384.162	387.696	331.096	294.160	278.825
Iridium, New York dealer	\$/troy oz	155.167	45.667	30.000	30.000	46.188	171.125	392.032	379.938
Lead, London Metal Exchange cash	¢/lb	24.534	18.417	24.829	28.600r	35.019	28.292	23.960	22.778
Magnesium, U.S. primary ingot (Producer Price List)	¢/lb	1.439	1.530	1.538	1.805	1.930	1.800	1.800	1.800
Manganese, U.S. metal, regular	¢/lb	104.000	104.000	104.000	109.250	115.000	115.000	115.000r	115.000
Molybdenum, dealer, oxide	\$/lb	2.197	2.279	4.501	7.412	3.606	4.175	3.313	2.591
Nickel, New York dealer, cathode	\$/lb	3.177	2.428	2.919	3.901	3.501	3.221	2.179	2.750
Osmium, New York dealer	\$/troy oz	400.000	400.000	400.000	399.375	392.458	391.000	366.867	350.000
Palladium, London PM fix	\$/troy oz	88.228	122.348	142.631	151.229	128.079	177.951	284.678	357.902
Platinum, London PM fix	\$/troy oz	359.799	374.027	404.998	424.346	397.171	395.210	372.019	376.880
Rhodium, New York dealer	\$/troy oz	2 365.102	1 066.111	712.678	424.145	280.721	268.458	574.771	863.063
Ruthenium, New York dealer	\$/troy oz	28.538	12.996	13.604	21.827	34.921	32.896	39.208	34.721
Selenium, New York dealer	\$/lb	4.947	4.900	4.900	4.897	3.423	2.791	2.274	2.278
Silver, Handy & Harman, Toronto	\$/troy oz	3.936	4.300	5.284	5.192	5.183	4.892	5.534	5.250
Tantalum, tantalite ore, spot	\$/lb	27.365	25.850	25.500	26.260	27.000	27.000	32.783	33.000
Tin, New York dealer	\$/lb	2.822	2.392	2.549	2.945	2.890	2.644	2.613	2.545
Tungsten, U.S. spot ore	\$/stu	49.325	34.800	36.750	56.402	55.000	53.333	44.021r	40.000
Uranium, U <sub>3</sub> O <sub>8</sub>	\$/lb	19.000	15.000	14.000	13.000	15.100r	14.200	13.300	12.700
Zinc, special high grade	¢/lb	56.235	43.635	45.255	53.235	51.109	59.697	46.453	48.805

Sources: Natural Resources Canada; *Metals Week*.

COMEX: Commodities Exchange, Inc.

r Revised; stu Short ton unit.

<sup>1</sup> Prices, except where noted, are in U.S. currency. <sup>2</sup> Average afternoon fixings of London bullion dealers.

TABLE 19. CANADIAN AVERAGE ANNUAL PRICES OF SELECTED METALS, 1992-99

	Unit	1992	1993	1994	1995	1996	1997	1998	1999
Aluminum, London Metal Exchange	\$/kg	1.516	1.469	2.017	2.478	2.054	2.215	1.952	2.021
Antimony, New York dealer	\$/kg	2.107	2.187	5.350	6.893	4.408	3.042	2.276	2.053
Bismuth, New York dealer	\$/kg	6.676	6.684	9.243	11.441	10.663	10.000	10.805	11.059
Cadmium, New York dealer	\$/kg	2.416	1.283	3.444	5.565	3.723	1.566	0.907	0.579
Cobalt, metal, shot/cathode/250 kg	\$/kg	64.731	51.195	59.916	81.906	82.695	83.968	87.188	90.029
Copper, electrolytic cathode, COMEX	\$/kg	2.736	2.426	3.223	4.076	3.184	3.163	2.380	2.361
Gold, London <sup>1</sup>	\$/g	13.353	14.922	16.861	16.952	17.002	14.743	13.601	13.312
Iridium, New York dealer	\$/g	6.028	1.894	1.317	1.324	2.026	7.620	18.126	18.139
Lead, London Metal Exchange, cash	¢/kg	54.088	40.602	54.739	63.052	77.204	62.373	52.823	50.217
Magnesium, U.S. primary ingot (Producer Price List)	\$/kg	3.831	4.352	4.631	5.462	5.804	5.496	5.707	5.893
Manganese, U.S. metal, regular	\$/kg	2.770	2.958	3.131	3.306	3.458	3.511	3.646 <sup>r</sup>	3.765
Molybdenum, dealer, oxide	\$/kg	5.852	6.482	13.552	22.428	10.844	12.748	10.504	8.482
Nickel, New York dealer, cathode	\$/kg	8.463	6.906	8.789	11.804	10.528	9.835	6.908	9.003
Osmium, New York dealer	\$/g	15.539	16.591	17.563	17.623	17.211	17.411	16.962	16.710
Palladium, London PM fix	\$/g	3.427	5.075	6.263	6.673	5.617	7.924	13.162	17.087
Platinum, London PM fix	\$/g	13.977	15.514	17.783	18.725	17.417	17.598	17.201	17.993
Rhodium, New York dealer	\$/g	91.879	44.220	31.292	18.716	12.311	11.954	26.575	41.205
Ruthenium, New York dealer	\$/g	1.109	0.539	0.597	0.963	1.531	1.465	1.813	1.658
Selenium, New York dealer	\$/kg	13.178	13.936	14.753	14.818	10.293	8.522	7.210	7.458
Silver, Handy & Harman, Toronto	\$/kg	152.905	178.354	232.011	229.107	227.293	217.835	255.870	250.653
Tantalum, tantalite ore, spot	\$/kg	72.896	73.522	76.777	79.459	81.192	82.442	103.937	108.034
Tin, New York dealer	\$/kg	7.517	6.803	7.675	8.911	8.690	8.075	8.284	8.333
Tungsten, U.S. spot ore	\$/mtu	58.658	44.186	49.397	76.189	73.835	72.700	62.307 <sup>r</sup>	58.460
Uranium	\$/kg	59.000	50.000	51.000	47.000	53.600 <sup>r</sup>	51.300	51.100	49.100
Zinc, special high grade	\$/kg	1.498	1.241	1.363	1.611	1.537	1.823	1.473	1.598

Sources: Natural Resources Canada; *Metals Week*.  
 COMEX: Commodities Exchange, Inc.  
 mtu Metric tonne unit; <sup>r</sup> Revised.  
<sup>1</sup> Average afternoon fixings of London bullion dealers.

TABLE 20. CANADA, PRINCIPAL STATISTICS OF THE MINERAL INDUSTRY, 1 1997

	Mining Activity										
	Production and Related Workers				Costs				Total Activity <sup>2</sup>		
	Establish- ments	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)	
<b>METALS</b>											
Gold	56	7 207	16 245	479 347	166 931	744 569	2 484 619	1 573 119	9 621	639 745	1 563 001
Silver-lead-zinc	7	2 113	4 656	113 999	48 685	648 491	1 190 873	493 698	3 058	180 851	493 293
Uranium	3	783	1 555	49 490	44 541	117 959	580 044	417 544	1 024	68 373	415 835
Iron	5	3 757	8 587	289 083	184 111	507 194	1 650 944	959 639	4 839	370 779	955 152
Nickel-copper-zinc	21	10 451	21 864	605 011	203 908	1 968 474	5 079 827	2 907 445	13 478	816 130	2 943 979
Miscellaneous metal mines <sup>3</sup>	5	810	1 694	41 443	18 208	58 238	209 992	133 547	992	51 349	132 470
Total	97	25 121	54 602	1 578 374	666 384	4 044 925	11 196 301	6 484 992	33 012	2 127 228	6 503 731
<b>INDUSTRIAL MINERALS</b>											
Asbestos	2	x	x	x	x	x	x	x	x	x	x
Peat	72	1 323	2 926	34 923	8 105	38 647	187 199	140 447	1 536	43 094	142 476
Gypsum	9	546	1 218	22 623	8 632	24 445	100 952	67 874	651	28 157	67 593
Potash	11	2 509	5 708	154 127	116 280	165 511	1 553 023	1 271 232	3 444	226 187	1 266 774
Stone	153	2 276	5 061	88 845	45 247	117 646	536 715	373 823	2 965	119 298	380 231
Sand and gravel	310	2 809	6 481	103 971	49 875	100 874	544 722	393 973	3 652	136 514	403 742
Salt	10	1 019	2 382	54 474	16 269	43 159	386 710	327 283	1 466	78 404	328 484
Miscellaneous nonmetals	20	x	x	x	x	x	x	x	x	x	x
Total	587	12 541	28 148	546 282	287 283	569 425	3 698 557	2 841 849	16 368	751 085	2 856 275
<b>MINERAL FUELS</b>											
Coal	32	7 369	15 623	426 500	159 940	504 457	2 002 191	1 337 794	8 930	518 038	1 376 440
Total mineral industry	716	45 031	98 372	2 551 155	1 113 607	5 118 807	16 897 049	10 664 634	58 310	3 396 351	10 736 446

Sources: Natural Resources Canada; Statistics Canada.  
 x Confidential.

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

<sup>3</sup> Includes molybdenum.

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 INDUSTRY<sup>1</sup> BY REGION, 1997**

Region	Mines, Quarries and Oil Wells Activity								Total Activity <sup>2</sup>		
	Production and Related Workers				Costs				Employees	Salaries and Wages	Value Added
	Establishments	Employees	Person-Hours Paid	Wages	Fuel and Electricity	Materials and Supplies	Value of Production	Value Added			
(number)	(number)	(000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(number)	(\$000)	(\$000)	
Atlantic provinces <sup>3</sup>	84	6 295	13 666	337 821	142 282	723 874	2 044 327	1 178 171	7 838	419 182	1 172 022
Quebec	214	8 962	19 646	484 768	243 442	961 382	2 855 758	1 650 933	12 097	675 321	1 681 342
Ontario	204	11 516	25 505	647 525	228 332	1 388 070	4 695 459	3 079 057	15 050	875 993	3 084 276
Prairie provinces	141	9 986	21 413	552 646	263 294	841 054	3 954 498	2 850 150	12 707	739 164	2 873 998
British Columbia <sup>4</sup>	62	6 850	14 615	421 211	190 857	950 645	2 659 741	1 518 238	8 480	527 494	1 536 613
Yukon and Northwest Territories <sup>5</sup>	11	1 422	3 529	107 183	45 399	253 782	687 264	388 084	2 138	159 196	388 196
Total Canada	716	45 031	98 374	2 551 154	1 113 606	5 118 807	16 897 047	10 664 633	58 310	3 396 350	10 736 447

Sources: Natural Resources Canada; Statistics Canada.

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

<sup>3</sup> Includes eastern Canada offshore. <sup>4</sup> Includes western Canada offshore. <sup>5</sup> 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 MANUFACTURING INDUSTRIES, 1997**

	Mineral Manufacturing Activity								Total Activity <sup>1</sup>		
	Production and Related Workers				Costs				Employees	Salaries and Wages	Value Added
	Establishments	Employees	Person-Hours Paid	Wages	Fuel and Electricity	Materials and Supplies	Value of Shipments	Value Added			
(number)	(number)	(000)	(\$ millions)	(\$ millions)	(\$ millions)	(\$ millions)	(\$ millions)	(number)	(\$ millions)	(\$ millions)	
<b>PRIMARY METAL INDUSTRIES</b>											
Smelting and refining	41	20 385	39 001	1 041.9	947.6	3 178.2	7 990.9	3 892.4	26 669	1 415.3	3 809.7
Primary steel	57	25 113	58 678	1 373.1	679.2	6 175.6	11 097.1	4 307.9	32 080	1 817.4	4 270.0
Steel pipe and tube	67	5 403	11 328	236.2	28.6	1 720.1	2 687.4	1 025.4	6 589	313.5	1 046.1
Iron foundries	74	6 353	12 696	255.0	62.7	401.5	1 125.8	681.6	7 375	313.9	691.3
Aluminum rolling, casting and extruding	78	4 966	10 605	223.9	45.8	2 121.7	2 724.9	574.7	6 240	303.4	547.9
Metal rolling, casting and extruding n.e.s.	99	6 732	14 558	262.3	40.8	854.1	1 540.6	646.4	7 819	324.5	645.5
Copper and alloy rolling, casting and extruding	37	2 219	4 312	83.7	16.1	545.7	752.3	185.3	2 533	99.5	185.6
Total	453	71 171	151 177	3 476.1	1 820.8	14 997.1	27 918.9	11 313.7	89 305	4 587.5	11 196.0
<b>NONMETALLIC MINERAL PRODUCTS INDUSTRIES</b>											
Ready-mix concrete	688	8 940	18 583	317.5	67.5	1 075.1	1 879.6	737.4	10 963	404.6	767.4
Cement	20	1 802	3 935	99.9	178.5	198.0	1 173.0	789.1	2 664	159.5	792.4
Glass products	166	5 536	11 599	192.6	28.8	531.3	1 035.9	477.0	6 575	242.2	493.4
Primary glass and glass containers	24	2 703	5 836	122.7	50.8	174.4	626.0	391.1	3 260	158.1	389.7
Mineral insulating products	33	1 464	3 035	61.8	30.6	154.9	415.7	230.0	1 910	86.2	302.6
Other concrete products	262	3 466	7 073	103.5	16.6	214.0	540.8	308.3	4 348	142.2	320.2
Structural concrete products	64	2 172	4 432	71.9	8.4	122.7	335.6	203.7	2 720	97.5	203.1
Other nonmetallic mineral products	163	1 920	3 948	62.4	10.9	133.7	326.6	182.7	2 532	86.7	195.9
Refractory products	30	1 819	3 736	74.0	9.4	145.3	305.5	145.4	2 428	99.6	163.8
Gypsum products	35	1 835	4 052	79.7	40.4	305.0	674.8	326.8	2 414	112.2	326.7
Concrete pipe	39	1 106	2 300	39.0	5.6	82.2	233.7	144.7	1 482	55.7	148.4
Lime	13	632	1 391	31.5	51.9	42.1	240.6	147.5	812	40.5	148.1
Abrasives	29	1 089	2 308	41.7	31.6	125.2	305.4	145.1	1 299	52.9	167.7
Clay products (domestic)	16	650	1 356	21.9	15.4	24.2	135.7	91.0	870	39.4	91.3
Clay products (imported)	43	866	1 926	27.0	5.1	24.8	122.7	93.7	1 041	35.8	90.7
Asbestos products industry	6	208	412	4.3	0.6	14.4	34.9	20.1	317	8.3	23.8
Total	1 631	36 208	75 924	1 351.5	552.0	3 367.1	8 386.3	4 433.6	45 635	1 821.4	4 625.4
<b>FABRICATED METAL PRODUCTS INDUSTRIES</b>											
Wire and wire products	279	10 835	22 363	360.8	47.7	1 169.6	2 206.5	999.6	13 322	483.7	1 005.6
Stamped and pressed metal products industries	961	30 692	63 599	946.4	112.1	3 452.5	5 995.2	2 448.1	35 622	1 199.1	2 465.2
Fabricated structural metal products industries	536	17 492	36 370	600.2	38.7	1 690.7	3 186.1	1 452.2	21 381	798.2	1 487.5
Hardware, tool and cutlery industry	874	23 461	51 136	860.5	54.5	1 017.6	3 027.0	1 941.6	27 082	1 093.2	1 980.5
Other metal fabricating industries	582	16 080	33 825	525.2	51.7	1 462.9	2 903.9	1 408.0	20 195	741.1	1 548.3
Machine shop industry	1 700	26 184	53 791	818.5	45.6	995.3	2 933.6	1 904.6	30 500	1 038.1	1 913.1
Ornamental and architectural metal products industries	698	12 320	25 300	345.5	23.3	1 230.9	2 213.2	966.6	16 172	522.0	994.9
Power boiler and heat exchanger industry	43	2 475	5 221	88.1	5.8	286.2	637.1	337.0	3 735	159.4	334.7
Heating equipment industry	114	4 093	8 468	108.9	6.8	328.7	680.8	357.7	5 413	168.8	404.6
Total	5 787	143 632	300 073	4 654.1	386.3	11 634.4	23 783.2	11 815.4	173 422	6 203.5	12 134.4
<b>PETROLEUM AND COAL PRODUCTS INDUSTRIES</b>											
Petroleum refining products	32	4 035	9 277	280.0	323.7	17 683.6	19 863.6	1 883.1	10 050	714.5	1 895.9
Lubricating oils and greases	30	730	1 543	31.8	8.2	437.0	667.6	218.8	1 272	62.6	237.7
Other petroleum and coal products	124	1 101	2 169	36.8	19.1	321.2	505.0	165.2	1 468	58.2	175.2
Total	186	5 866	12 989	348.6	351.0	18 441.8	21 036.1	2 267.1	12 790	835.3	2 308.7
Total mineral manufacturing industries	8 057	256 877	540 163	9 830.2	3 110.1	48 440.4	31 124.6	29 829.8	321 152	13 447.7	30 264.5

Source: Statistics Canada, catalogue no. 31-203. n.e.s. Not elsewhere specified.

<sup>1</sup> Total activity includes sales and head offices.

TABLE 23. CANADA, PRINCIPAL STATISTICS OF THE MINERAL MANUFACTURING INDUSTRIES, 1996

	Mineral Manufacturing Activity								Total Activity <sup>1</sup>		
	Establish- ments	Production and Related Workers			Costs			Value Added	Employees	Salaries and Wages	Value Added
		Employees	Person- Hours Paid	Wages	Fuel and Electricity	Materials and Supplies	Value of Shipments				
(number)	(number)	(000)	(\$ millions)	(\$ millions)	(\$ millions)	(\$ millions)	(\$ millions)	(number)	(\$ millions)	(\$ millions)	
<b>PRIMARY METAL INDUSTRIES</b>											
Smelting and refining	41	20 671	41 127	1 024.9	911.0	3 088.4	7 387.9	3 400.7	26 529	1 355.8	3 389.8
Primary steel	59	25 321	59 756	1 340.8	627.7	5 930.4	10 658.8	3 986.5	32 190	1 767.0	3 949.6
Steel pipe and tube	64	4 816	10 038	213.1	27.4	1 438.8	2 246.9	775.9	6 014	285.4	780.3
Iron foundries	78	6 090	12 448	243.1	62.6	364.2	1 050.7	612.6	7 002	297.4	627.9
Aluminum rolling, casting and extruding	75	4 781	10 557	217.4	42.6	1 749.8	2 376.9	581.0	6 036	292.7	581.2
Metal rolling, casting and extruding n.e.s.	101	5 465	12 355	214.2	34.6	757.6	1 404.9	616.6	6 370	263.2	618.3
Copper and alloy rolling, casting and extruding	34	1 818	3 655	69.1	15.1	636.4	823.5	172.8	2 100	84.3	173.1
<b>Total</b>	<b>452</b>	<b>68 962</b>	<b>149 936</b>	<b>3 322.7</b>	<b>1 721.0</b>	<b>13 965.7</b>	<b>25 949.7</b>	<b>10 146.2</b>	<b>86 241</b>	<b>4 345.8</b>	<b>10 120.3</b>
<b>NONMETALLIC MINERAL PRODUCTS INDUSTRIES</b>											
Ready-mix concrete	700	8 342	17 627	284.4	63.9	971.4	1 776.5	740.5	10 488	381.6	756.4
Cement	18	1 779	4 000	94.6	166.9	196.4	1 083.5	704.1	2 659	149.7	697.9
Glass products	169	4 455	9 181	146.5	20.7	391.5	888.6	474.4	5 363	187.6	480.2
Primary glass and glass containers	27	3 602	8 235	146.0	63.8	200.6	718.0	451.2	4 473	189.0	463.3
Mineral insulating products	32	1 445	3 013	58.5	31.4	144.6	439.9	261.9	1 943	85.6	332.9
Other concrete products	264	2 989	6 230	88.0	13.5	172.5	458.1	270.0	3 868	125.7	276.6
Structural concrete products	70	1 856	3 866	61.1	7.3	110.1	300.6	184.2	2 406	85.2	182.5
Other nonmetallic mineral products	169	1 902	4 092	61.7	9.6	119.0	313.7	187.6	2 580	89.2	241.9
Refractory products	31	1 602	3 263	61.0	8.7	132.4	280.7	139.9	2 178	87.2	153.1
Gypsum products	32	1 512	3 179	62.6	32.7	243.8	559.4	283.3	2 058	92.8	287.2
Concrete pipe	39	1 013	2 052	33.2	5.3	71.3	202.5	129.1	1 278	45.5	131.4
Lime	13	606	1 388	28.8	44.6	33.9	207.7	129.1	741	35.8	128.4
Abrasives	31	1 025	2 148	35.3	32.0	109.7	298.2	165.5	1 247	46.8	171.0
Clay products (domestic)	16	585	956	14.8	13.1	18.4	101.9	68.6	888	30.8	68.3
Clay products (imported)	44	699	1 481	21.7	4.5	20.3	103.3	79.6	826	27.1	75.8
Asbestos products industry	6	192	375	3.9	0.6	12.6	31.5	18.9	300	8.8	23.1
<b>Total</b>	<b>1 661</b>	<b>33 604</b>	<b>71 086</b>	<b>1 202.1</b>	<b>518.6</b>	<b>2 948.5</b>	<b>7 764.1</b>	<b>4 287.9</b>	<b>43 296</b>	<b>1 668.3</b>	<b>4 469.9</b>
<b>FABRICATED METAL PRODUCTS INDUSTRIES</b>											
Wire and wire products	293	9 939	20 662	329.1	45.2	1 088.9	2 137.9	991.7	12 548	452.0	1 027.6
Stamped and pressed metal products industries	988	25 657	54 721	810.1	103.7	2 970.5	5 442.7	2 349.3	30 615	1 053.1	2 371.8
Fabricated structural metal products industries	522	14 783	31 223	514.9	32.9	1 428.1	2 897.2	1 415.0	18 461	687.2	1 437.2
Hardware, tool and cutlery industry	910	19 508	42 677	709.9	34.9	917.5	2 805.4	1 895.5	23 088	912.4	1 936.5
Other metal fabricating industries	592	12 666	26 506	401.8	43.0	1 263.9	2 521.7	1 235.5	16 386	583.8	1 301.1
Machine shop industry	1 787	21 773	46 180	693.8	38.6	854.9	2 691.4	1 813.5	26 180	896.1	1 822.1
Ornamental and architectural metal products industries	752	11 526	23 657	317.3	21.7	1 048.2	2 106.7	1 036.2	15 037	463.6	1 053.3
Power boiler and heat exchanger industry	42	1 932	4 325	71.7	5.3	257.8	765.4	438.2	3 278	164.6	436.5
Heating equipment industry	123	3 695	7 763	97.2	6.7	299.3	677.5	361.4	4 836	145.0	370.6
<b>Total</b>	<b>6 009</b>	<b>121 479</b>	<b>257 713</b>	<b>3 945.8</b>	<b>331.9</b>	<b>10 129.1</b>	<b>22 045.9</b>	<b>11 536.3</b>	<b>150 429</b>	<b>5 358.0</b>	<b>11 756.6</b>
<b>PETROLEUM AND COAL PRODUCTS INDUSTRIES</b>											
Petroleum refining products	32	4 192	9 015	254.0	300.6	18 056.6	19 854.1	1 575.5	9 303	579.8	1 573.8
Lubricating oils and greases	33	968	2 109	40.8	9.6	392.6	690.0	290.6	1 567	70.8	306.4
Other petroleum and coal products	113	1 103	2 215	35.1	17.7	242.8	432.8	174.0	1 521	55.0	197.0
<b>Total</b>	<b>178</b>	<b>6 263</b>	<b>13 338</b>	<b>329.9</b>	<b>327.9</b>	<b>18 692.0</b>	<b>20 976.9</b>	<b>2 040.0</b>	<b>12 391</b>	<b>705.6</b>	<b>2 077.2</b>
<b>Total mineral manu- facturing industries</b>	<b>8 300</b>	<b>230 308</b>	<b>492 074</b>	<b>8 800.5</b>	<b>2 899.4</b>	<b>45 735.3</b>	<b>76 736.6</b>	<b>28 010.4</b>	<b>292 357</b>	<b>12 077.7</b>	<b>23 424.0</b>

Source: Statistics Canada, catalogue no. 31-203.  
n.e.s. Not elsewhere specified.

<sup>1</sup> Total activity includes sales and head offices.

**TABLE 24. CANADA, PRINCIPAL STATISTICS OF THE MINERAL MANUFACTURING INDUSTRIES BY REGION, 1997**

	Mineral Manufacturing Activity								Total Activity <sup>1</sup>		
	Production and Related Workers				Costs			Value Added	Employees	Salaries and Wages	Value Added
	Establishments	Employees	Person-Hours Paid	Wages	Fuel and Electricity	Materials and Supplies	Value of Shipments				
(number)	(number)	(000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(number)	(\$000)	(\$000)	
<b>PRIMARY METAL INDUSTRIES<sup>2</sup></b>											
Atlantic provinces	11	x	x	x	x	x	x	x	x	x	x
Quebec	121	20 843	41 192	982.9	941.9	4 881.6	9 562.2	3 771.3	26 634	1312.9	3 728.0
Ontario	224	39 689	89 386	1 989.0	705.6	8 075.0	14 465.0	5 814.3	49 311	2 603.7	5 759.1
Prairie provinces	51	x	x	x	x	x	x	x	x	x	x
British Columbia	46	4 271	7 797	209.9	21.7	376.2	1 070.8	651.7	5 609	285.5	631.2
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-
Total Canada	453	71 171	151 177	3 476.1	1 820.8	14 997.1	27 918.9	11 313.8	89 305	4 587.5	11 195.9
<b>NONMETALLIC MINERAL PRODUCTS INDUSTRIES</b>											
Atlantic provinces	121	1 906	3 861	53.1	26.9	137.3	330.5	165.8	2 442	74.8	166.2
Quebec	407	8 692	17 642	280.6	117.6	678.2	1 789.2	988.1	11 531	408.6	1 012.7
Ontario	579	16 331	35 060	679.3	282.8	1 626.6	4 003.9	2 069.7	20 242	890.8	2 194.8
Prairie provinces	299	5 079	10 683	181.4	71.3	490.5	1 270.1	705.8	6 283	240.7	733.5
British Columbia	225	4 200	8 678	157.0	53.5	434.4	992.6	504.2	5 137	206.5	518.1
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-
Total Canada	1 631	36 208	75 924	1 351.5	552.0	3 367.1	8 386.3	4 433.6	45 635	1 821.4	4 625.4
<b>FABRICATED METAL PRODUCTS INDUSTRIES<sup>2</sup></b>											
Atlantic provinces	171	3 321	6 835	100.1	6.8	231.0	473.8	239.5	4 182	132.9	247.1
Quebec	1 372	27 348	55 326	811.6	80.3	2 440.5	4 882.2	2 368.3	36 322	1 187.5	2 416.3
Ontario	2 842	83 534	176 990	2 786.4	235.7	6 565.1	13 632.5	6 850.7	97 375	3 611.8	7 025.2
Prairie provinces	768	19 520	39 955	590.5	40.6	1 426.7	2 980.2	1 528.9	23 370	793.8	1 581.4
British Columbia	634	9 909	20 968	365.5	22.8	971.1	1 814.6	828.1	12 173	477.5	864.4
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-
Total Canada	5 787	143 632	300 073	4 654.1	386.3	11 634.4	23 783.2	11 815.4	173 422	6 203.5	12 134.4
<b>PETROLEUM AND COAL PRODUCTS INDUSTRIES</b>											
Atlantic provinces	11	x	x	x	x	x	x	x	x	x	x
Quebec	52	1 153	2 681	75.6	66.9	3 367.9	3 976.4	532.3	2 315	146.3	534.4
Ontario	72	2 198	4 828	122.8	125.6	6 070.5	6 763.7	560.5	5 133	336.5	569.3
Prairie provinces	39	x	x	x	x	x	x	x	x	x	x
British Columbia	12	350	729	18.8	11.8	1 148.8	1 373.5	207.3	579	35.9	202.6
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-
Total Canada	186	5 866	12 989	348.6	351.0	18 441.8	21 036.1	2 267.1	12 790	835.3	2 308.7
<b>TOTAL MINERAL MANUFACTURING INDUSTRIES</b>											
Atlantic provinces	314	x	x	x	x	x	x	x	x	x	x
Quebec	1 952	58 036	116 841	2 150.7	1 206.7	11 368.2	20 210.0	7 660.0	76 802	3 055.4	7 691.4
Ontario	3 717	141 752	306 264	5 577.5	1 349.8	22 337.2	38 865.2	15 295.2	172 061	7 442.8	15 548.4
Prairie provinces	1 157	x	x	x	x	x	x	x	x	x	x
British Columbia	917	18 730	38 173	751.2	109.7	2 930.6	5 251.5	2 191.3	23 498	1 005.3	2 216.4
Yukon and Northwest Territories	-	-	-	-	-	-	-	-	-	-	-
Total Canada	8 057	256 877	540 163	9 830.2	3 110.1	48 440.4	81 124.6	29 829.8	321 152	13 447.7	30 264.5

Source: Statistics Canada, catalogue no.31-203.

- Nil; x Confidential.

<sup>1</sup> Total activity includes sales and head offices. <sup>2</sup> Wire and wire products have been included in the primary metal industries group.

TABLE 25. CANADA, PRINCIPAL STATISTICS OF THE MINERAL MANUFACTURING INDUSTRIES BY REGION, 1996

	Mineral Manufacturing Activity								Total Activity <sup>1</sup>		
	Establish- ments	Production and Related Workers			Costs			Value Added	Employees	Salaries and Wages	Value Added
		Employees	Person- Hours Paid	Wages	Fuel and Electricity	Materials and Supplies	Value of Shipments				
(number)	(number)	(000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(number)	(\$000)	(\$000)	
<b>PRIMARY METAL INDUSTRIES<sup>2</sup></b>											
Atlantic provinces	12	x	x	x	x	x	x	x	x	x	x
Quebec	118	20 427	42 132	965.3	890.7	4 444.7	8 649.9	3 350.1	25 800	1 255.9	3 329.0
Ontario	222	38 511	87 605	1 908.9	653.8	7 616.1	13 733.9	5 307.4	47 893	2 496.2	5 306.5
Prairie provinces	53	4 702	10 173	210.7	118.9	1 187.9	2 088.7	799.8	5 727	280.3	804.5
British Columbia	47	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—
Total Canada	452	68 962	149 936	3 322.7	1 721.0	13 965.7	25 949.7	10 146.2	86 241	4 345.8	10 120.3
<b>NONMETALLIC MINERAL PRODUCTS INDUSTRIES</b>											
Atlantic provinces	126	1 933	3 991	55.8	26.1	152.6	344.0	164.6	2 528	78.5	168.0
Quebec	418	8 453	17 828	269.3	120.1	648.5	1 702.6	935.5	11 253	400.4	955.4
Ontario	581	15 050	32 066	586.6	261.1	1 341.6	3 653.0	2 041.8	19 204	793.6	2 133.3
Prairie provinces	304	4 442	9 440	152.3	62.6	416.1	1 150.3	671.4	5 676	212.9	733.6
British Columbia	232	3 726	7 760	138.0	48.7	389.8	914.3	474.5	4 635	182.9	479.7
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—
Total Canada	1 661	33 604	71 086	1 202.1	518.6	2 948.5	7 764.1	4 287.9	43 296	1 663.3	4 469.9
<b>FABRICATED METAL PRODUCTS INDUSTRIES<sup>2</sup></b>											
Atlantic provinces	191	2 994	6 088	86.3	6.0	212.1	424.7	208.7	3 796	115.4	216.1
Quebec	1 453	26 711	54 871	788.2	77.3	2 346.0	4 762.8	2 335.8	35 604	1 132.5	2 388.2
Ontario	2 931	68 765	148 680	2 313.2	195.2	5 570.5	12 651.7	6 832.8	82 009	3 069.6	6 905.7
Prairie provinces	784	14 252	29 815	436.0	32.5	1 140.7	2 479.2	1 303.2	17 986	611.1	1 342.6
British Columbia	650	8 757	18 259	322.0	20.9	859.9	1 727.5	855.9	11 034	429.4	904.0
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—
Total Canada	6 009	121 479	257 713	3 945.8	331.9	10 129.1	22 045.9	11 536.3	150 429	5 358.0	11 756.6
<b>PETROLEUM AND COAL PRODUCTS INDUSTRIES</b>											
Atlantic provinces	11	x	x	x	x	x	x	x	x	x	x
Quebec	39	1 234	2 559	65.7	73.1	3 553.2	4 090.9	481.1	2 314	126.8	491.2
Ontario	75	2 609	5 527	135.6	115.0	6 060.3	6 661.7	517.1	5 609	333.8	528.8
Prairie provinces	40	1 432	3 053	78.3	96.3	4 827.3	5 474.0	577.0	2 713	146.2	583.9
British Columbia	12	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	1	x	x	x	x	x	x	x	x	x	x
Total Canada	178	6 263	13 338	329.9	327.9	18 692.0	20 976.9	2 040.0	12 391	705.6	2 077.2
<b>TOTAL MINERAL MANUFACTURING INDUSTRIES</b>											
Atlantic provinces	340	x	x	x	x	x	x	x	x	x	x
Quebec	2 028	56 825	117 391	2 088.5	1 161.1	10 992.3	19 206.1	7 102.5	74 971	2 915.7	7 163.9
Ontario	3 809	124 935	273 880	4 944.3	1 225.1	20 588.5	36 700.3	14 699.9	154 715	6 593.2	14 874.4
Prairie provinces	1 181	x	x	x	x	x	x	x	x	x	x
British Columbia	941	x	x	x	x	x	x	x	x	x	x
Yukon and Northwest Territories	—	—	—	—	—	—	—	—	—	—	—
Total Canada	8 300	230 308	492 074	8 800.5	2 899.4	45 735.3	76 736.6	28 010.4	292 357	12 077.7	28 424.0

Source: Statistics Canada, catalogue no.31-203.

— Nil; x Confidential.

<sup>1</sup> Total activity includes sales and head offices. <sup>2</sup> Wire and wire products have been included in the primary metal industries group.

**TABLE 26. CANADA, PRINCIPAL STATISTICS OF THE MINERAL INDUSTRY,<sup>1</sup> 1983-97**

Year	Establish- ments (number)	Mining Activity							Total Activity <sup>2</sup>		
		Production and Related Workers			Costs				Employees (number)	Salaries and Wages (\$000)	Value Added (\$000)
		Employees (number)	Person- Hours Paid (000)	Wages (\$000)	Fuel and Electricity (\$000)	Materials and Supplies (\$000)	Value of Production (\$000)	Value Added (\$000)			
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 <sup>r</sup>	555	44 083	95 756	2 227 755	970 304	3 938 223	13 872 653	8 964 126	58 195	3 019 806	9 059 983
1995 <sup>r</sup>	730	46 728	101 852	2 421 274	1 065 118	4 652 556	16 771 037	11 053 363	61 193	3 262 475	11 133 393
1996 <sup>r</sup>	727	45 552	99 534	2 466 512	1 126 756	4 939 053	16 560 844	10 495 035	59 555	3 306 371	10 570 423
1997	716	45 031	98 372	2 551 155	1 113 607	5 118 807	16 897 049	10 664 634	58 310	3 396 351	10 736 446

Source: Natural Resources Canada.

<sup>r</sup> Revised.

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

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

**TABLE 27. CANADA, PRINCIPAL STATISTICS OF THE MINERAL MANUFACTURING INDUSTRIES,<sup>1</sup> 1984-97**

	Establish- ments (number)	Mineral Manufacturing Activity							Total Activity <sup>2</sup>		
		Production and Related Workers			Costs				Employees (number)	Salaries and Wages (\$000)	Value Added (\$000)
		Employees (number)	Person- Hours Paid (000)	Wages (\$000)	Fuel and Electricity (\$000)	Materials and Supplies (\$000)	Value of Shipments (\$000)	Value Added (\$000)			
1984	472	61 150	123 628	1 987 009	971 932	3 569 182	12 053 168	7 512 055	81 846	2 767 611	7 537 288
1985	472	58 347	121 710	2 009 484	1 005 556	3 605 812	11 664 217	7 052 845	77 663	2 771 242	7 066 446
1986	505	55 542	117 172	2 004 975	951 855	3 655 624	11 734 947	7 127 468	74 497	2 784 084	7 172 484
1987	538	55 776	120 946	2 079 716	938 764	3 896 427	13 729 648	8 894 456	73 821	2 850 389	8 960 120
1988	539	58 251	126 215	2 348 493	970 964	4 463 880	17 060 362	11 625 517	76 995	3 197 809	11 694 931
1989	537	59 593	129 946	2 562 804	1 013 010	4 712 422	17 445 454	11 720 020	78 279	3 460 650	11 826 346
1990	521	55 558	121 446	2 510 817	1 061 768	4 619 245	16 158 687	10 477 673	73 156	3 391 151	10 571 447
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	9 094 573
1992	469	46 819	101 065	2 278 504	960 413	4 249 869	13 705 149	8 494 869	62 257	3 136 793	8 566 224
1993	459	44 053	94 732	2 139 904	933 551	3 931 953	12 598 992	7 733 487	58 325	2 928 792	7 793 019
1994	555	44 208	96 299	2 228 567	970 305	3 938 222	13 872 653	8 964 125	58 320	3 020 619	9 059 983
1995	730	46 718	101 989	2 420 778	1 059 772	4 741 869	16 770 594	10 968 953	61 140	3 259 174	11 048 503
1996	481	58 469	114 701	1 684 906	826 427	3 158 440	9 841 153	5 856 285	80 413	2 446 855	5 840 910
1997	472	61 150	123 628	1 987 009	971 932	3 569 182	12 053 168	7 512 055	81 846	2 767 611	7 537 288

Source: Statistics Canada.

<sup>1</sup> Includes the following industries: primary metals, nonmetallic mineral products, fabricated metal products, and petroleum and coal products. <sup>2</sup> Total activity includes sales and head offices.

**TABLE 28. CANADA, CONSUMPTION OF FUEL AND ELECTRICITY IN THE MINERAL INDUSTRY,<sup>1</sup> 1997**

	Unit	Metals	Nonmetals	Structural Materials	Total
Coal	000 t \$000	. . . 11	— —	— —	. . . 11
Gasoline	000 litres \$000	18 189 8 597	3 799 1 878	15 592 7 628	37 580 18 103
Fuel oil, kerosene, diesel oil	000 litres \$000	742 533 190 471	131 909 34 916	133 672 54 026	1 008 114 279 413
Liquefied petroleum gas	000 litres \$000	136 016 30 167	10 886 2 650	3 962 808	150 864 33 625
Natural gas	000 m <sup>3</sup> \$000	112 636 13 997	782 624 55 423	23 316 3 177	918 576 72 597
Other fuels <sup>2</sup>	\$000	40 131	377	131	40 639
Total value of fuels	\$000	283 374	95 245	65 770	444 389
Electricity purchased	million kWh \$000	11 186 383 009	2 369 96 917	426 29 351	13 981 509 277
Total value of fuels and electricity purchased, all reporting companies	\$000	666 384	192 162	95 121	953 667

Sources: Natural Resources Canada; Statistics Canada.

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

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

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

**TABLE 29. CANADA, COST OF FUEL AND ELECTRICITY USED IN THE NON-FUEL MINERAL INDUSTRY,<sup>1</sup> 1993-97**

	Unit	1993	1994	1995	1996	1997
<b>METALS</b>						
Fuel	\$000	194 325	207 602	237 376	289 723	283 375
Electricity purchased	million kWh \$000	10 743 379 974	10 705 368 124	11 527 408 270	11 248 396 358	11 186 383 009
Total cost of fuel and electricity	\$000	574 299	575 726	645 646	686 082	666 384
<b>NONMETALS</b>						
Fuel	\$000	80 224	96 445	91 148	87 173	95 245
Electricity purchased	million kWh \$000	2 102 98 528	2 301 108 050	2 363 109 676	2 333 107 876	2 369 96 917
Total cost of fuel and electricity	\$000	178 752	204 496	200 824	195 049	192 162
<b>STRUCTURAL MATERIALS</b>						
Fuel	\$000	33 610	42 830	58 609	64 772	65 770
Electricity purchased	million kWh \$000	357 23 082	361 24 077	380 25 273	435 29 273	426 29 351
Total cost of fuel and electricity	\$000	56 692	66 907	83 882	94 045	95 121
<b>TOTAL NON-FUEL MINERAL INDUSTRY</b>						
Fuel	\$000	308 159	346 877	387 133	441 668	444 390
Electricity purchased	million kWh \$000	13 202 501 584	13 367 500 252	14 270 543 219	14 016 533 507	13 981 509 277
Total cost of fuel and electricity	\$000	809 743	847 129	930 353	975 176	953 667

Sources: Natural Resources Canada; Statistics Canada.

<sup>1</sup> 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 30. CANADA, EMPLOYMENT IN THE MINERAL INDUSTRY,  
STAGE I – MINERAL EXTRACTION AND CONCENTRATING (TOTAL  
ACTIVITY),<sup>1</sup> 1961-99**

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 <sup>r</sup>	27 693	85 888 <sup>r</sup>
1995	35 182	10 288	6 660	52 130	9 063 <sup>r</sup>	26 491	87 684 <sup>r</sup>
1996	34 257	9 620	6 501	50 378	9 177	34 939	94 494
1997	33 012	9 751	6 617	49 380	8 930	36 289	94 599
1998 <sup>p</sup>	30 400	9 448	7 461	47 309	7 594	37 863	92 766
1999 <sup>f</sup>	27 539	9 769	7 845	45 153	7 145	38 177	90 474

Sources: Natural Resources Canada; Statistics Canada.

SIC: Standard Industrial Classification, 1980.

f Forecast; p Preliminary; r Revised.

<sup>1</sup> Total activity includes sales and head offices.

**TABLE 31. CANADA, EMPLOYMENT IN THE NON-FUEL MINERAL INDUSTRY, STAGE I – MINERAL EXTRACTION AND CONCENTRATING (TOTAL ACTIVITY),<sup>1</sup> 1961-99**

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	9 621	1 024	4 839	13 478	3 058	992	x	1 536	651	3 444	1 466	x	x	2 965	3 652	49 380
1998 <sup>p</sup>	8 188	985	4 903	12 600	2 734	990	x	1 665	660	3 396	1 498	x	x	3 121	4 340	47 309
1999 <sup>f</sup>	7 417 <sup>pr</sup>	892 <sup>pr</sup>	4 442 <sup>pr</sup>	11 414 <sup>pr</sup>	2 477 <sup>pr</sup>	897 <sup>pr</sup>	x	1 722 <sup>pr</sup>	682 <sup>pr</sup>	3 511 <sup>pr</sup>	1 549 <sup>pr</sup>	x	x	3 531	4 314	45 153

Sources: Natural Resources Canada; Statistics Canada.

SIC: Standard Industrial Classification, 1980.

<sup>f</sup> Forecast; <sup>p</sup> Preliminary; <sup>pr</sup> Pro-rated; x Confidential.<sup>1</sup> 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 32. CANADA, EMPLOYMENT IN THE MINERAL INDUSTRY,  
STAGE II – SMELTING AND REFINING (TOTAL ACTIVITY),<sup>1</sup>  
1961-99**

Year	Smelting/ Refining	Iron and Steel Mills	Total Primary Metals	Petroleum Refineries	Total Smelting and Refining
SIC no.	295	291	291, 295	3611	
			(number)		
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 <sup>a</sup>	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	26 669	32 080	58 749	10 050	68 799
1998 <sup>e</sup>	26 648	33 079	59 727	10 644 <sup>pr</sup>	70 371
1999 <sup>f</sup>	26 894	33 154	60 048	12 076 <sup>pr</sup>	72 124

Sources: Natural Resources Canada; Statistics Canada.

SIC: Standard Industrial Classification, 1980.

<sup>e</sup> Estimated; <sup>f</sup> Forecast; <sup>pr</sup> Pro-rated.

<sup>a</sup> Change is partially due to the reclassification of a unit from SIC 295 to SIC 296 effective May 1991.

<sup>1</sup> Total activity includes sales and head offices.

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

**TABLE 33. CANADA, EMPLOYMENT IN THE MINERAL INDUSTRY, STAGE III – SEMI-FABRICATION (TOTAL ACTIVITY),<sup>1</sup> 1961-99**

Year	Total Non-Fuel Semi-Fabrication	Miscellaneous Petroleum and Coal Products	Lubricating Oil and Greases	Total Semi-Fabrication
SIC no. <sup>2</sup>		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	89 513	1 468	1 272	92 253
1998 <sup>e</sup>	95 571	1 903	1 347 <sup>pr</sup>	98 820
1999 <sup>f</sup>	96 950	2 038	1 528 <sup>pr</sup>	100 516

Sources: Natural Resources Canada; Statistics Canada.

SIC: Standard Industrial Classification, 1980.

<sup>e</sup> Estimated; <sup>f</sup> Forecast; <sup>pr</sup> Pro-rated.

<sup>1</sup> Includes sales and head offices. <sup>2</sup> 1970 SIC for years 1961-82.

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

**TABLE 34. CANADA, EMPLOYMENT IN THE MINERAL INDUSTRY, STAGE III – NON-FUEL SEMI-FABRICATION (TOTAL ACTIVITY),<sup>1</sup> 1961-99**

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 <sup>2</sup>	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	8 927	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	6 589	7 375	6 240	2 533	7 819	13 322	1 911	2 664	8 550	10 963	9 835	1 299	812	9 601	89 513
1998 <sup>e</sup>	6 852	7 839	6 469	2 796	7 933	14 610	2 063	2 956	8 766	12 082	10 560	1 402	877	10 365	95 571
1999 <sup>f</sup>	7 289	7 392	6 417	2 721	8 218	14 677	2 112	2 971	9 019	12 687	10 502	1 436	897	10 611	96 950

Sources: Natural Resources Canada; Statistics Canada.

SIC: Standard Industrial Classification, 1980.

<sup>e</sup> Estimated; <sup>f</sup> Forecast.

<sup>1</sup> Includes sales and head offices. <sup>2</sup> 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 35. CANADA, EMPLOYMENT IN THE MINERAL INDUSTRY, STAGE IV – METALLIC MINERAL MANUFACTURING (TOTAL ACTIVITY),<sup>1</sup> 1961-99**

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	3 735	21 381	16 172	35 622	27 082	5 413	30 500	20 195	160 100
1998 <sup>e</sup>	3 514	24 054	17 242	36 026	30 083	5 774	30 812	21 571	169 076
1999 <sup>f</sup>	3 907	25 379	18 595	37 207	30 315	6 395	31 575	23 367	176 740

Sources: Natural Resources Canada; Statistics Canada.

SIC: Standard Industrial Classification, 1980.

<sup>e</sup> Estimated; <sup>f</sup> Forecast.<sup>1</sup> Total activity includes sales and head offices.

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

**TABLE 36. CANADA, EMPLOYMENT FOR SERVICES INCIDENTAL TO MINES, QUARRIES AND OIL WELLS, 1961-99<sup>a</sup>**

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	32 150	2 124	8 738	43 012
1998 <sup>p</sup>	35 000	1 569	7 750	44 318
1999 <sup>f</sup>	31 951	1 569	7 064	40 584

Sources: Natural Resources Canada; Statistics Canada.

SIC: Standard Industrial Classification, 1980.

<sup>f</sup> Forecast; <sup>p</sup> Preliminary.

<sup>a</sup> 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, Quarries and Oil Wells includes SIC Code 0929 only.

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

**TABLE 37. CANADA, EMPLOYMENT, SALARIES AND WAGES IN THE MINERAL INDUSTRY,<sup>1</sup> 1990-97**

	Unit	1990	1991	1992	1993	1994	1995	1996	1997
<b>METALS</b>									
Production and related workers	Number	33 895	31 168	27 908	25 762	24 809	26 344	25 830	25 121
Salaries and wages	\$000	1 674 050	1 627 254	1 532 118	1 374 090	1 376 286	1 500 141	1 533 204	1 578 374
Average annual salary and wage	\$	49 389	52 209	54 899	53 338	55 475	56 944	59 357	62 830
Administrative and office workers	Number	11 353	10 924	9 866	8 984	8 571	8 838	8 427	7 891
Salaries and wages	\$000	603 486	626 302	587 210	532 735	526 076	558 984	554 226	548 854
Average annual salary and wage	\$	53 157	57 333	59 519	59 298	61 379	63 248	65 767	69 554
Total metals									
Employees	Number	45 248	42 092	37 774	34 746 <sup>r</sup>	33 380	35 182	34 257	33 012
Salaries and wages	\$000	2 277 536	2 253 556	2 119 328	1 906 825	1 902 362	2 059 125	2 087 430	2 127 228
Average annual salary and wage	\$	50 335	53 539	56 105	54 879	56 991	58 528	60 934	64 438
<b>NONMETALS<sup>2</sup></b>									
Production and related workers	Number	8 736	8 055	7 938	7 974	8 094	7 855	7 232	7 456
Salaries and wages	\$000	300 325	301 481	313 175	316 207	336 277	346 297	331 027	353 466
Average annual salary and wage	\$	34 378	37 428	39 453	39 655	41 546	44 086	45 772	47 406
Administrative and office workers	Number	2 779	2 757	2 481	2 526	2 533	2 433	2 388	2 295
Salaries and wages	\$000	125 740	133 255	122 356	125 008	124 704	127 452	129 484	141 808
Average annual salary and wage	\$	45 246	48 333	49 317	49 489	49 232	52 385	54 223	61 789
Total nonmetals									
Employees	Number	11 515	10 812	10 419	10 500	10 627	10 288	9 620	9 751
Salaries and wages	\$000	426 064	434 736	435 531	441 215	460 981	473 749	460 511	495 274
Average annual salary and wage	\$	37 001	40 209	41 802	42 020	43 378	46 049	47 870	50 792
<b>MINERAL FUELS (COAL)</b>									
Production and related workers	Number	8 961	8 775	7 804	7 204	7 272	7 423	7 534 <sup>r</sup>	7 369
Salaries and wages	\$000	398 043	391 289	319 110	334 274	371 786	384 630	418 016	426 500
Average annual salary and wage	\$	44 419	44 591	40 891	46 401	51 126	51 816	55 483 <sup>r</sup>	57 877
Administrative and office workers	Number	2 056	2 042	1 922	1 656	1 616	1 640	1 643 <sup>r</sup>	1 561
Salaries and wages	\$000	95 426	103 853	98 604	85 078	87 713	93 402	93 808 <sup>r</sup>	91 538
Average annual salary and wage	\$	46 413	50 858	51 303	51 376	54 278	56 952	57 095 <sup>r</sup>	58 640
Total mineral fuels									
Employees	Number	11 017	10 817	9 726	8 860	8 888 <sup>r</sup>	9 063 <sup>r</sup>	9 177	8 930
Salaries and wages	\$000	493 469	495 142	417 714	419 352	459 499 <sup>r</sup>	478 032 <sup>r</sup>	511 824	518 038
Average annual salary and wage	\$	44 792	45 774	42 948	47 331	51 699 <sup>r</sup>	52 745 <sup>r</sup>	55 772	58 010
<b>STRUCTURAL MATERIALS</b>									
Production and related workers	Number	3 966	3 644	3 169	3 113	3 908	5 106	4 956	5 085
Salaries and wages	\$000	138 400	126 030	114 101	115 333	143 405	190 206	184 265	192 815
Average annual salary and wage	\$	34 897	34 586	36 005	37 049	36 695	37 251	37 180	37 918
Administrative and office workers	Number	1 413	1 382	1 169	1 106	1 392	1 554	1 545	1 532
Salaries and wages	\$000	55 682	53 655	50 121	46 068	53 559	61 363	62 342	62 996
Average annual salary and wage	\$	39 407	38 824	42 875	41 653	38 476	39 487	40 350	41 120
Total structural materials									
Employees	Number	5 376	5 026	4 338	4 219	5 300	6 660	6 501	6 617
Salaries and wages	\$000	194 081	179 685	164 222	161 401	196 964	251 569	246 607	255 811
Average annual salary and wage	\$	36 101	35 751	37 857	38 256	37 163	37 773	37 933	38 659
<b>TOTAL MINERAL INDUSTRY</b>									
Production and related workers	Number	55 558	51 642	46 819	44 053	44 083	46 728	45 552 <sup>r</sup>	45 013
Salaries and wages	\$000	2 510 817	2 446 055	2 278 504	2 139 903	2 227 755	2 421 274	2 466 512	2 551 155
Average annual salary and wage	\$	45 193	47 366	48 666	48 576	50 535	51 816	54 147 <sup>r</sup>	56 653
Administrative and office workers	Number	17 601	17 105	15 438	14 272	14 112	14 465	14 003 <sup>r</sup>	13 279
Salaries and wages	\$000	880 333	917 064	858 290	788 890	792 052	841 201	839 860 <sup>r</sup>	845 196
Average annual salary and wage	\$	50 016	53 614	55 596	55 275	56 126	58 154	59 977 <sup>r</sup>	63 649
Total mineral industry									
Employees	Number	73 156	68 747	62 247	58 325	58 195 <sup>r</sup>	61 193 <sup>r</sup>	59 555	58 310
Salaries and wages	\$000	3 391 151	3 363 119	3 136 794	2 928 793	3 019 806 <sup>r</sup>	3 262 475 <sup>r</sup>	3 306 372	3 396 351
Average annual salary and wage	\$	46 355	48 920	50 385	50 215	51 890 <sup>r</sup>	53 315 <sup>r</sup>	55 517	58 246

Sources: Natural Resources Canada; Statistics Canada.

r Revised.

<sup>1</sup> Cement manufacturing, lime manufacturing, clay and clay products (domestic clays) are included in the mineral manufacturing industry. <sup>2</sup> 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 38. CANADA, NUMBER OF WAGE EARNERS EMPLOYED IN THE NON-FUEL MINERAL INDUSTRY (SURFACE, UNDERGROUND AND MILL), 1990-97**

	1990	1991	1992	1993	1994	1995	1996	1997
	(number)							
<b>METALS</b>								
Surface	8 608	7 545	6 550	5 973	4 526	4 467	6 358	4 762
Underground	14 454	13 614	12 205	11 281	11 396	12 305	10 610	11 556
Mill	10 833	10 009	9 153	8 508	8 888	9 572	8 862	8 803
Total	33 895	31 168	27 908	25 762	24 810	26 344	25 830	25 121
<b>NONMETALS</b>								
Surface	2 039	1 719	1 785	1 912	1 945	1 796	1 702	1 794
Underground	2 309	2 214	2 125	2 098	2 093	1 967	1 926	1 964
Mill	4 388	4 122	4 028	3 964	4 056	4 092	3 604	3 698
Total	8 736	8 055	7 938	7 974	8 094	7 855	7 232	7 456
<b>STRUCTURAL MATERIALS</b>								
Surface	3 348	3 181	2 768	2 708	3 373	4 573	4 349	4 391
Underground	—	—	—	—	—	—	—	—
Mill	618	463	401	405	535	533	607	694
Total	3 966	3 644	3 169	3 113	3 908	5 106	4 956	5 085
<b>TOTAL NON-FUEL MINERAL INDUSTRY</b>								
Surface	13 995	12 445	11 103	10 593	9 844	10 836	12 409	10 947
Underground	16 763	15 828	14 330	13 379	13 489	14 272	12 536	13 520
Mill	15 839	14 594	13 582	12 877	13 479	14 197	13 073	13 195
Total	46 597	42 867	39 015	36 849	36 812	39 305	38 018	37 662

Source: Natural Resources Canada.

— Nil.

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

**TABLE 39. CANADA, MINE AND MILL WORKERS, BY SEX, EMPLOYED IN THE NON-FUEL MINERAL INDUSTRY, 1997**

	Mine Workers							
	Underground		Surface		Mill Workers		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
	(number)							
<b>METALS</b>								
Gold	4 000	35	1 078	29	1 996	69	7 074	133
Silver-lead-zinc	1 077	6	426	22	547	35	2 050	63
Uranium	135	18	196	6	390	38	721	62
Iron ore	25	—	966	19	2 642	105	3 633	124
Nickel-copper-zinc <sup>1</sup>	6 126	37	1 513	62	2 609	104	10 248	203
Miscellaneous metal mines <sup>2</sup>	97	—	437	8	256	12	790	20
Total	11 460	96	4 616	146	8 440	363	24 516	605
<b>NONMETALS</b>								
Asbestos	150	—	687	—	671	9	1 508	9
Peat	—	—	426	23	837	37	1 263	60
Gypsum	119	—	294	—	130	3	543	3
Potash	1 208	18	19	1	1 223	40	2 450	59
Miscellaneous nonmetal mines <sup>3</sup>	468	1	336	8	730	18	1 534	27
Total	1 945	19	1 762	32	3 591	107	7 298	158
<b>STRUCTURAL MATERIALS</b>								
Stone	—	—	1 773	17	470	16	2 243	33
Sand and gravel	—	—	2 513	88	205	3	2 718	91
Total	—	—	4 286	105	675	19	4 961	124
Total non-fuel mineral industry <sup>4</sup>	13 405	115	10 664	283	12 706	489	36 775	887

Source: Natural Resources Canada.

— Nil.

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

**TABLE 40. CANADA, LABOUR COSTS FOR METAL MINES IN RELATION TO TONNES MINED, 1995-97**

	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)	(\$)
<b>1995</b>						
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 <sup>1</sup>	8 131	462 806	56 919	113 260	13 929	4.09
Miscellaneous metals <sup>2</sup>	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
<b>Total</b>	<b>16 772</b>	<b>968 441</b>	<b>57 742</b>	<b>260 475</b>	<b>15 530</b>	<b>3.72</b>
<b>1996</b>						
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 <sup>1</sup>	8 182	463 280	56 622	98 671	12 059	4.70
Miscellaneous metals <sup>2</sup>	382	20 020	52 407	14 659	38 374	1.37
Iron ore	974	76 455	78 496	95 783	98 339	0.80
<b>Total</b>	<b>16 968</b>	<b>1 001 699</b>	<b>59 035</b>	<b>253 003</b>	<b>14 910</b>	<b>3.96</b>
<b>1997</b>						
Uranium	355	23 408	65 937	979	2 757	23.91
Gold	5 142	353 561	68 759	33 924	6 597	10.42
Silver-lead-zinc	1 531	71 962	47 003	9 608	6 275	7.49
Nickel-copper-zinc <sup>1</sup>	7 738	465 700	60 183	94 892	12 263	4.91
Miscellaneous metals <sup>2</sup>	542	28 061	51 772	14 166	26 136	1.98
Iron ore	1 010	80 658	79 859	94 430	93 495	0.85
<b>Total</b>	<b>16 318</b>	<b>1 023 349</b>	<b>62 712</b>	<b>247 999</b>	<b>15 197</b>	<b>4.13</b>

Source: Natural Resources Canada.

<sup>1</sup> Includes copper-zinc and nickel-copper mines. <sup>2</sup> Includes molybdenum mines.**TABLE 41. CANADA, PERSON-HOURS PAID FOR PRODUCTION AND RELATED WORKERS, AND TONNES OF ORE MINED AND ROCK QUARRIED IN METAL MINES AND OTHER MINERAL OPERATIONS, 1992-97**

	Unit	1992	1993	1994	1995	1996	1997
<b>METAL MINES<sup>1</sup></b>							
Ore mined	Mt	248.2	236.5	233.7	260.5	253.0	248.0
Person-hours paid <sup>2</sup>	million	61.1	55.5	53.7	57.1	56.1	54.6
Person-hours paid per tonne mined	number	0.25	0.23	0.23	0.22	0.22	0.22
Tonnes mined per person-hour paid	t	4.06	4.26	4.35	4.56	4.50	4.54
<b>OTHER MINERAL OPERATIONS<sup>3</sup></b>							
Ore mined and rock quarried	Mt	147.8	151.7 <sup>r</sup>	170.5	173.0	167.9	178.4
Person-hours paid <sup>2</sup>	million	30.1	32.2 <sup>r</sup>	32.2	33.3	32.1	32.2
Person-hours paid per tonne mined	number	0.20	0.21 <sup>r</sup>	0.19	0.19	0.19	0.18
Tonnes mined per person-hour paid	t	4.91	4.71 <sup>r</sup>	5.29	5.20	5.23	5.54

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

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

**TABLE 42. CANADA, AVERAGE WEEKLY WAGES (INCLUDING OVERTIME) FOR HOURLY RATED EMPLOYEES IN THE MINING, MINERAL MANUFACTURING, AND LOGGING AND FORESTRY INDUSTRIES, 1991-99**

	1991	1992	1993	1994	1995	1996	1997	1998	1999
	(\$)								
Mines, quarries and oil wells	902.75	929.47	953.46	960.83	991.43	1 039.08	1 057.61	1 111.82 <sup>r</sup>	1 112.94
Mining	893.99	934.52	946.41	972.67	1 013.75	1 051.24	1 036.86	1 101.80	1 086.39
Metal mines	928.68	972.31	988.59	1 016.75	1 068.15	1 109.27	1 084.60	1 165.36	1 160.28
Nonmetal mines	760.42	795.46	802.00	830.51	845.53	871.52	910.50	920.56	907.39
Quarries and sand pits	650.78	672.02	640.86	669.64	724.13	746.72	781.99	845.45	813.94
Coal mines	897.50	933.84	946.45	956.98	990.84	1 015.54	994.15	1 071.30	1 041.82
Crude petroleum and natural gas	1 110.13	1 098.68	1 148.77	1 165.58	1 202.52	1 243.35	1 252.89	1 297.23	1 327.51
Logging and forestry	682.45	700.07	712.49	733.88	735.30	768.63	793.12	767.91	774.65
Manufacturing	624.70	652.92	669.44	685.84	694.58	716.62	736.69	755.92	755.86

Source: Statistics Canada.

<sup>r</sup> Revised.**TABLE 43. CANADA, NUMBER OF STRIKES AND LOCKOUTS BY INDUSTRY, 1997-99**

	1997			1998			1999 <sup>p</sup>		
	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	11	60
Logging and forestry	1	9	710	4	4 897	476 680	7	2 002	118 290
Fishing and trapping	—	—	—	—	—	—	—	—	—
Mining	7	6 175	164 100	7	771	92 060	8	2 676	150 580
Manufacturing	112	23 003	778 280	113	22 997	597 268	129	25 887	514 252
Construction	—	—	—	15	11 242	325 840	8	1 014	6 420
Transportation and utilities	39	48 728	594 660	29	5 771	108 180	43	36 215	685 540
Trade	30	11 160	461 190	41	1 767	43 140	43	2 421	78 755
Finance, insurance and real estate	4	73	2 070	14	1 364	38 798	13	499	39 650
Service	78	140 177	1 537 166	134	182 697	670 400	125	81 859	641 984
Public administration	12	3 337	46 600	21	3 884	82 150	36	6 028	210 190
Other industries	1	25 000	25 000	3	9 012	9 360	—	—	—
Total, all industries	284	257 662	3 609 776	381	244 402	2 443 876	413	158 612	2 445 721

Source: Human Resources Development Canada, Workplace Information Directorate.

— Nil; <sup>p</sup> Preliminary.**TABLE 44. CANADA, NUMBER OF STRIKES AND LOCKOUTS BY MINING AND MINERAL MANUFACTURING INDUSTRY, 1997-99**

	1997			1998			1999 <sup>p</sup>		
	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)								
<b>MINING</b>	7	6 175	164 100	7	771	92 060	8	2 676	150 580
Metals	3	6 087	154 840	3	488	76 440	4	2 174	137 280
Mineral fuels	—	—	—	1	100	100	—	—	—
Nonmetals	2	34	2 410	2	156	8 630	3	475	8 580
Quarries	2	54	6 850	1	27	6 890	1	27	4 720
<b>MINERAL MANUFACTURING</b>	11	2 383	86 420	14	1 400	21 130	15	2 515	27 470
Primary metals	6	1 588	64 190	6	1 081	4 160	6	1 926	17 370
Nonmetallic mineral products	5	795	22 230	8	319	16 970	9	589	10 100
Petroleum and coal products	—	—	—	—	—	—	—	—	—

Source: Human Resources Development Canada, Workplace Information Directorate.

— Nil; <sup>p</sup> Preliminary.

**TABLE 45. CANADA, MINING WAGES AND SALARIES BY PROVINCE, TERRITORY AND MINERAL CLASS, 1996 AND 1997**

Province/Territory	1996					1997				
	Metals	Nonmetals	Coal	Quarries and Sand Pits	Total	Metals	Nonmetals	Coal	Quarries and Sand Pits	Total
	(\$000)									
Newfoundland	168 242	x	—	x	170 078	175 643	x	—	x	178 382
Prince Edward Island	—	649	—	—	649	—	1 194	—	—	1 194
Nova Scotia	—	29 606	69 956	6 075	105 637	—	32 110	68 749	7 014	107 873
New Brunswick	x	x	4 245	4 548	135 672	x	x	3 300	4 219	131 733
Quebec	516 416	110 051	—	56 473	682 940	498 398	119 972	—	56 950	675 321
Ontario	665 665	63 678	—	104 341	833 684	704 014	66 731	—	105 248	875 993
Manitoba	199 222	4 561	—	7 149	210 933	204 266	4 571	—	7 383	216 221
Saskatchewan	x	178 364	x	4 244	274 792	x	205 619	x	4 312	313 675
Alberta	—	x	x	x	205 425	—	x	x	x	209 269
British Columbia	232 346	4 566	245 419	34 158	516 488	233 252	5 252	255 694	33 296	527 494
Yukon	x	—	—	x	38 176	x	—	—	x	24 852
Northwest Territories	x	—	—	—	x	x	—	—	x	134 345
<b>Total</b>	<b>2 087 429</b>	<b>460 511</b>	<b>511 824</b>	<b>246 607</b>	<b>3 306 371</b>	<b>2 127 228</b>	<b>495 274</b>	<b>518 038</b>	<b>255 811</b>	<b>3 396 351</b>

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 46. CANADA, SOURCE OF ORES HOISTED OR REMOVED FROM SELECTED TYPES OF MINES, 1995-97**

Mines	1995			1996			1997		
	Underground	Open-Pit	Total	Underground	Open-Pit	Total	Underground	Open-Pit	Total
	(000 tonnes)								
<b>METALS</b>									
Gold	16 740	8 381	25 120	18 684	12 217	30 901	18 060	15 864	33 924
Silver-lead-zinc	8 133	2 162	10 295	7 617	4 039	11 656	7 835	1 773	9 608
Uranium	1 283	81	1 364	922	411	1 333	535	444	979
Iron	845	94 693	95 538	731	95 052	95 783	663	93 767	94 430
Nickel-copper-zinc	26 839	86 421	113 260	28 851	69 820	98 671	26 504	68 388	94 892
Miscellaneous metals	924	13 975	14 899	1 073	13 586	14 659	1 059	13 107	14 166
Subtotal metals	54 762	205 713	260 475	57 879	195 124	253 003	54 656	193 343	247 999
<b>NONMETALS</b>									
Asbestos	x	x	x	x	x	x	x	x	x
Gypsum	916	7 708	8 623	933	7 651	8 584	1 114	8 027	9 141
Potash	40 196	—	40 196	34 103	—	34 103	38 932	—	38 932
Rock salt	9 854	—	9 854	11 226	—	11 226	12 690	—	12 690
Miscellaneous nonmetals	x	x	x	x	x	x	x	x	x
Subtotal nonmetals	52 722	19 874	72 596	48 025	19 466	67 491	54 671	21 982	76 653
<b>MINERAL FUELS</b>									
Coal	5 318	92 389	97 707	4 593	95 766	100 359	4 730	97 005	101 735
Total metals, nonmetals and mineral fuels	112 802	317 976	430 778	110 497	310 357	420 853	114 057	312 330	426 386
Percentage	26.2	73.8	100.0	26.3	73.7	100.0	26.7	73.3	100.0

Sources: Natural Resources Canada; Statistics Canada.

— Nil; x Confidential.

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

**TABLE 47. CANADA, SOURCE OF MATERIAL HOISTED OR REMOVED FROM SELECTED TYPES OF MINES, 1997**

	Underground		Open-Pit			Tailings
	Ore	Waste	Ore	Waste	Overburden	
(000 tonnes)						
<b>METALS</b>						
Gold	18 060	5 638	15 864	42 816	3 786	31 049
Silver-lead-zinc	7 834	746	1 773	2 966	—	7 982
Uranium	535	143	444	1 002	17	1 008
Iron	663	—	93 767	11 123	9 036	54 253
Nickel-copper-zinc	26 504	1 147	68 388	68 974	2 210	88 520
Miscellaneous metals	1 059	46	13 107	103 563	—	11 115
Subtotal metals	54 656	7 721	193 343	230 444	15 050	193 927
<b>NONMETALS</b>						
Asbestos	x	x	x	x	x	x
Gypsum	1 114	120	8 027	2 838	2 110	268
Potash	38 932	2 865	—	—	—	21 521
Rock salt	12 690	372	—	—	—	556
Miscellaneous nonmetals	x	x	x	x	x	x
Subtotal nonmetals	54 671	3 396	21 982	19 869	2 309	29 036
<b>MINERAL FUELS</b>						
Coal	4 730	..	97 005	..	..	..
Total metals, nonmetals and mineral fuels	114 057	11 117	312 330	250 313	17 359	222 963

Sources: Natural Resources Canada; Statistics Canada.  
 — Nil; .. Not available; x Confidential.

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

**TABLE 48. CANADA, ORE MINED AND ROCK QUARRIED IN THE MINING INDUSTRY, 1993-97**

	1993	1994	1995	1996	1997
(000 tonnes)					
<b>METALS</b>					
Gold	19 285	21 288	25 120	30 901	33 924
Silver-lead-zinc	8 001	7 444	10 295	11 656	9 608
Uranium	1 663	1 756	1 364	1 333	979
Iron	78 741	95 723	95 538	95 783	94 430
Nickel-copper-zinc	116 277	92 651	113 259	98 671	94 892
Miscellaneous metals	12 496	14 887	14 899	14 659	14 166
Subtotal metals	236 464	233 748	260 475	253 003	247 999
<b>NONMETALS</b>					
Asbestos	x	x	x	x	x
Gypsum	8 472	8 944	8 623	8 584	9 141
Potash	30 811	38 846	40 196	34 103	38 932
Rock salt	10 350	11 758	9 854	11 226	12 690
Miscellaneous nonmetals	x	x	x	x	x
Subtotal nonmetals	64 143	73 864	72 596	67 491	76 653
<b>STRUCTURAL MATERIALS</b>					
Stone, all kinds quarried	105 998	110 411	120 660	112 420	120 953
Sand and gravel	237 205	247 148	230 098	217 361	227 315
<b>MINERAL FUELS</b>					
Coal	87 603	96 616	97 707	100 359	101 735
Total ore mined and rock quarried	731 413	761 787	781 536	750 634	774 655

Sources: Natural Resources Canada; Statistics Canada.  
 x Confidential.

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

**TABLE 49. CANADA, ORE MINED AND ROCK QUARRIED  
IN THE MINING INDUSTRY, 1961-97**

Year	Metals	Industrial Minerals <sup>1</sup>	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
1997	248.0	197.6	101.7	547.3

Sources: Natural Resources Canada; Statistics Canada.

.. Not available.

<sup>1</sup> 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 50. CANADA, CRUDE MINERALS TRANSPORTED BY CANADIAN RAILWAYS, 1996-98**

	1996	1997	1998
	(000 tonnes)		
<b>METALLIC MINERALS</b>			
Iron ores and concentrates	37 381	38 790	39 032
Alumina and bauxite	3 661	5 301	5 091
Nickel and nickel-copper ores and concentrates	3 499	3 221	3 182
Zinc ores and concentrates	1 265	1 154	601
Copper ores and concentrates	1 057	991	1 160
Lead ores and concentrates	148	105	46
Metallic ores and concentrates, n.e.s.	338	360	492
Subtotal	47 349	49 922	49 604
<b>NONMETALLIC MINERALS</b>			
Potash (KCl)	12 246	14 205	13 869
Gypsum	5 297	5 384	5 003
Sulphur, n.e.s.	5 210	5 704	5 120
Sulphur, liquid	1 623	1 654	1 787
Salt, rock	1 847	1 889	1 848
Limestone, n.e.s.	1 302	1 446	1 584
Phosphate rock	1 023	1 046	1 088
Sodium carbonate	311	402	386
Nepheline syenite	312	317	328
Sodium sulphate	264	218	200
Limestone, industrial	144	164	98
Sand, industrial	151	147	128
Clay	102	116	133
Nonmetallic minerals, n.e.s.	117	112	97
Salt, n.e.s.	81	50	50
Limestone, agricultural	134	145	241
Stone, n.e.s.	76	82	173
Abrasives, natural	6	6	5
Barite	2	1	1
Silica	3	4	2
Asbestos	1	2	1
Sand, n.e.s.	4	1	1
Peat and other mosses	—	5	4
Subtotal	30 255	33 100	32 147
<b>MINERAL FUELS</b>			
Coal, bituminous	39 470	32 123	37 253
Coal, lignite	989	1 562	1 925
Natural gas and other crude bituminous substances	72	63	98
Oil, crude	3	3	1
Coal, n.e.s.	—	1	—
Subtotal	40 533	33 754	39 277
Total crude minerals	118 137	116 777	121 029
Total revenue freight <sup>1</sup> moved by Canadian railways	252 081	268 088	259 277
Crude minerals as a percentage of total revenue freight	46.9	43.6	46.7

Source: Statistics Canada.

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

<sup>1</sup> 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 51. CANADA, FABRICATED MINERAL PRODUCTS TRANSPORTED BY CANADIAN RAILWAYS, 1996-98**

	1996	1997	1998
	(000 tonnes)		
<b>METALLIC MINERAL PRODUCTS</b>			
Ferrous mineral products			
Iron and steel scrap	1 554	3 593	1 494
Sheets and strips, steel	1 091	1 297	975
Bars and rods, steel	858	819	771
Ingots, blooms, billets, slabs, iron and steel	691	682	752
Pipes and tubes, iron and steel	377	402	719
Structural shapes and sheet piling, iron and steel	191	307	375
Plates, steel	378	282	264
Rails and railway track material	197	70	63
Castings and forgings, iron and steel	61	78	74
Pig iron	21	20	32
Ferroalloys	19	19	16
Other primary iron and steel	3	8	24
Wire, iron or steel	2	...	...
Subtotal ferrous mineral products	5 444	7 576	5 559
Nonferrous mineral products			
Aluminum and aluminum alloy fabricated material, n.e.s.	881	947	988
Zinc and alloys	539	533	566
Aluminum paste, powder, pigs, ingots, shot	294	426	416
Copper and alloys, n.e.s.	402	361	417
Other nonferrous base metals and alloys	401	458	473
Lead and alloys	144	112	91
Slag, dross, etc.	46	140	75
Nonferrous metal scrap	35	5 637	38
Copper matte and precipitates	19	9	7
Subtotal nonferrous mineral products	2 761	8 624	3 071
Total metallic mineral products	8 205	16 200	8 630
<b>NONMETALLIC MINERAL PRODUCTS</b>			
Fertilizers and fertilizer materials, n.e.s.	2 772	2 976	2 949
Sulphuric acid	2 339	2 358	2 514
Portland cement, standard	1 840	1 973	1 885
Lime, hydrated and quick	203	175	146
Cement and concrete basic products, n.e.s.	261	274	413
Nonmetallic mineral basic products, n.e.s.	132	187	141
Natural stone basic products, chiefly structural	126	124	196
Asbestos and asbestos-cement basic products	20	17	14
Gypsum basic products, n.e.s.	146	167	235
Dolomite and magnesite, calcined	25	27	23
Refractories, n.e.s.	—	1	7
Fire brick and similar shapes	7	5	2
Plaster	—	—	—
Glass basic products	—	1	—
Bricks and tiles, clay	3	1	3
Total nonmetallic mineral products	7 873	8 287	8 528
<b>MINERAL FUEL PRODUCTS</b>			
Refined and manufactured gases, fuel type	1 381	1 132	4 262
Fuel oil, n.e.s.	492	404	549
Diesel fuel	763	745	1 033
Gasoline	975	1 421	1 486
Other petroleum and coal products	639	769	1 148
Coke, n.e.s.	373	381	1 322
Petroleum coke	318	429	360
Lubricating oils and greases	258	364	384
Asphalts and road oils	370	406	448
Total mineral fuel products	5 569	6 052	10 993
Total fabricated mineral products	21 647	30 539	28 151
Total revenue freight <sup>1</sup> moved by Canadian railways	252 081	268 088	259 277
Fabricated mineral products as a percentage of total revenue freight	8.6	11.4	10.9

Source: Statistics Canada.

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

<sup>1</sup> 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 52. CANADA, CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS TRANSPORTED BY CANADIAN RAILWAYS, 1961-98**

Year	Total Revenue Freight <sup>1</sup>	Total Crude Minerals	Total Fabricated Mineral Products	Total Crude and Fabricated Minerals	Crude and Fabricated Minerals as a Percentage of Revenue Freight
	(million tonnes)				(%)
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
1998	259.3	121.0	28.2	149.2	57.5

Source: Statistics Canada.

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

TABLE 53. CANADA, CRUDE MINERALS LOADED AND UNLOADED IN COASTWISE SHIPPING, 1998

	Loaded					Unloaded				
	Atlantic	St. Lawrence	Great Lakes	Pacific	Total	Atlantic	St. Lawrence	Great Lakes	Pacific	Total
	(tonnes)									
<b>METALLIC MINERALS</b>										
Copper and nickel ores and concentrates	25 819	—	—	—	25 819	—	25 819	—	—	25 819
Iron ore and concentrates	—	6 982 071	—	—	6 982 071	—	1 241 208	5 740 863	—	6 982 071
Aluminum ores and concentrates	—	33 818	—	—	33 818	—	—	33 818	—	33 818
Other ores and concentrates	—	2 910 184	331 994	—	3 242 178	—	2 931 653	310 525	—	3 242 178
Total metallic minerals	25 819	9 926 073	331 994	—	10 283 886	—	4 172 861	6 085 206	—	10 283 886
<b>NONMETALLIC MINERALS</b>										
Salt	1 429 451	—	1 742 832	48 500	3 220 783	404 935	1 540 154	1 227 194	48 500	3 220 783
Limestone	324 036	66 692	1 622 345	748 894	2 761 967	66 692	324 036	1 622 345	748 894	2 761 967
Sand and gravel	90 755	—	142 476	1 118 997	1 352 228	90 755	24 235	118 241	1 118 997	1 352 228
Gypsum	815 260	—	—	78 199	893 459	175 977	428 302	210 981	78 199	893 459
Potash	—	—	53 982	—	53 982	—	20 076	33 906	—	53 982
Sulphur	—	—	—	6 552	6 552	—	—	—	6 552	6 552
Other mineral products (including clays, coal briquettes, greases and asphalt)	382 824	109 801	2 573 581	201 903	3 268 109	202 905	521 247	2 342 054	201 903	3 268 109
Total nonmetallic minerals	3 042 326	176 493	6 135 216	2 203 045	11 557 080	941 264	2 858 050	5 554 721	2 203 045	11 557 080
<b>MINERAL FUELS</b>										
Coal and coke	16 792	—	788 506	—	805 298	16 792	163 673	624 833	—	805 298
Crude petroleum	711 365	—	—	—	711 365	218 999	492 366	—	—	711 365
Total mineral fuels	728 157	—	788 506	—	1 516 663	235 791	656 039	624 833	—	1 516 663
Total crude minerals	3 796 302	10 102 566	7 255 716	2 203 045	23 357 629	1 177 055	7 712 769	12 264 760	2 203 045	23 357 629
Total all commodities <sup>1</sup>	7 281 981	13 896 477	14 423 664	12 325 377	47 927 503	5 317 004	14 727 942	15 530 469	12 352 089	47 927 503
Crude minerals as a percentage of all products	52.1	72.7	50.3	17.9	48.7	22.1	52.4	79.0	17.8	48.7

Source: Statistics Canada.

— Nil.

<sup>1</sup> 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 54. CANADA, FABRICATED MINERAL PRODUCTS LOADED AND UNLOADED IN COASTWISE SHIPPING, 1998**

	Loaded					Unloaded				
	Atlantic	St. Lawrence	Great Lakes	Pacific	Total	Atlantic	St. Lawrence	Great Lakes	Pacific	Total
(tonnes)										
<b>METALLIC MINERAL PRODUCTS</b>										
Iron, steel and alloys	6 261	61 713	–	10 500	78 474	6 718	615	60 641	10 500	78 474
Aluminum and aluminum products	–	176 677	–	–	176 677	–	176 677	–	–	176 677
Other base-metal products	285	40 029	–	–	40 314	1 721	38 593	–	–	40 314
Total metallic mineral products	6 546	278 419	–	10 500	295 465	8 439	215 885	60 641	10 500	295 465
<b>NONMETALLIC MINERAL PRODUCTS</b>										
Cement and related products	7 711	99 009	425 448	29 987	562 155	7 711	4 708	519 749	29 987	562 155
Other fabricated nonmetallic minerals, n.e.s.	145 408	19 007	39 292	137 849	341 556	49 792	126 825	27 091	137 849	341 557
Total nonmetallic mineral products	153 119	118 016	464 740	167 836	903 711	57 503	131 533	546 840	167 836	903 712
<b>MINERAL FUEL PRODUCTS</b>										
Gasoline	1 010 928	552 516	248 676	258 802	2 070 922	1 133 587	352 298	323 746	261 292	2 070 923
Other fabricated mineral fuels, n.e.s.	1 794 170	1 802 715	1 077 341	197 694	4 871 920	1 890 766	1 906 009	852 263	222 884	4 871 922
Total mineral fuel products	2 805 098	2 355 231	1 326 017	456 496	6 942 842	3 024 353	2 258 307	1 176 009	484 176	6 942 845
Total fabricated mineral products	2 964 763	2 751 666	1 790 757	634 832	8 142 018	3 090 295	2 605 725	1 783 490	662 512	8 142 022
Total all commodities <sup>1</sup>	7 281 981	13 896 477	14 423 664	12 325 377	47 927 503	5 317 004	14 727 942	15 530 469	12 352 089	47 927 503
Fabricated mineral products as a percentage of all commodities	40.7	19.8	12.4	5.2	17.0	58.1	17.7	11.5	5.4	17.0

Source: Statistics Canada.

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

<sup>1</sup> 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 55. CANADA, CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS LOADED AT CANADIAN PORTS IN COASTWISE SHIPPING, 1961-98**

Year	Total All Commodities <sup>1</sup>	Total Crude Minerals	Total Fabricated Minerals	Crude and Fabricated Minerals as a Percentage of All Products
				(%)
		(000 tonnes)		
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
1998	47 928	23 358	8 142	65.7

Source: Statistics Canada.

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

**TABLE 56. CANADA, CRUDE MINERALS LOADED AND UNLOADED AT CANADIAN PORTS IN INTERNATIONAL SHIPPING TRADE,<sup>1</sup> 1996-98**

	1996		1997		1998	
	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded
	(tonnes)					
<b>METALLIC MINERALS</b>						
Iron ore and concentrates	29 536 169	7 788 860	32 875 255	8 033 932	30 793 211	7 631 659
Aluminum ores and concentrates	28 567	2 601 690	81 200	2 771 756	84 099	2 912 687
Lead and zinc ores and concentrates	849 908	519 920	924 026	452 714	990 191	560 450
Copper and nickel ores and concentrates	812 201	248 098	751 545	218 313	712 123	383 969
Other ores and base-metal products	1 594 910	364 193	1 329 312	332 979	2 065 168	250 453
Total metallic minerals	32 821 755	11 522 761	35 961 338	11 809 694	34 644 792	11 739 218
<b>NONMETALLIC MINERALS</b>						
Limestone	2 396 173	3 474 739	2 654 250	3 096 455	2 843 399	2 979 514
Sand and gravel	1 073 325	1 203 973	1 537 271	793 206	857 713	782 724
Gypsum	5 577 586	314 928	6 157 811	457 371	6 301 586	509 495
Salt	3 504 958	1 082 158	3 493 441	1 094 266	4 187 659	989 121
Sulphur	5 191 846	19 824	5 512 305	534	5 231 603	86
Potash	5 786 119	22 101	6 117 530	28	4 764 411	18
Other mineral products (including clays, coal briquettes, greases and asphalt)	1 981 952	3 005 900	4 925 802	2 805 177	5 895 738	3 112 470
Total nonmetallic minerals	25 511 959	9 123 623	30 398 410	8 247 037	30 082 109	8 373 428
<b>MINERAL FUELS</b>						
Coal and coke	34 176 597	12 633 941	36 549 641	15 081 228	33 682 218	19 443 252
Crude petroleum	4 441 733	26 174 392	8 073 655	30 364 239	9 310 254	27 903 439
Other mineral fuels	-	-	-	-	-	-
Total mineral fuels	38 618 330	38 808 333	44 623 296	45 445 467	42 992 472	47 346 691
Total crude mineral products	96 952 044	59 454 717	110 983 044	65 502 198	107 719 373	67 459 337
Total all commodities <sup>1</sup>	174 306 180	85 791 564	187 716 502	94 535 096	178 893 100	100 457 100
Crude minerals as a percentage of all commodities	55.6	69.3	59.1	69.3	60.2	67.2

Source: Statistics Canada.

- Nil.

<sup>1</sup> 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 57. CANADA, FABRICATED MINERAL PRODUCTS LOADED AND UNLOADED AT CANADIAN PORTS IN INTERNATIONAL SHIPPING TRADE,<sup>1</sup> 1996-98**

	1996		1997		1998	
	Loaded	Unloaded	Loaded	Unloaded	Loaded	Unloaded
	(tonnes)					
<b>METALLIC MINERAL PRODUCTS</b>						
Iron, steel and alloys	1 357 807	2 719 410	1 451 001	3 638 383	1 249 954	5 065 878
Nonferrous metals, n.e.s.	1 063 039	3 891 720	1 047 466	3 914 078	1 030 974	4 253 307
Total metallic mineral products	2 420 846	6 611 130	2 498 467	7 552 461	2 280 928	9 319 185
<b>NONMETALLIC MINERAL PRODUCTS</b>						
Cement and related products	3 154 880	196 940	2 739 896	375 340	3 453 497	675 398
Other nonmetallic minerals, n.e.s.	2 250 694	1 469 196	2 142 140	1 747 880	2 272 853	1 801 768
Total nonmetallic mineral products	5 405 574	1 666 136	4 882 036	2 123 220	5 726 350	2 477 166
<b>MINERAL FUEL PRODUCTS</b>						
Gasoline	4 124 542	1 740 355	4 114 237	1 958 796	3 963 390	1 788 736
Fuel oil	3 626 419	2 066 515	3 955 310	2 635 535	3 808 619	3 340 323
Coke, petroleum and coal products	321 018	1 087 596	573 595	1 009 136	518 117	1 071 176
Other mineral fuels, n.e.s.	2 681 191	818 069	2 443 171	1 363 522	121 098	676 223
Total mineral fuel products	10 753 170	5 712 535	11 086 313	6 966 989	8 411 224	6 876 458
Total fabricated mineral products	18 579 590	13 989 801	18 466 816	16 642 670	16 418 502	18 672 809
Total all commodities <sup>1</sup>	174 306 180	85 791 564	187 716 502	94 535 096	178 893 100	100 457 100
Fabricated mineral products as a percentage of all commodities	10.7	16.3	9.8	17.6	9.2	18.6

Source: Statistics Canada.

n.e.s. Not elsewhere specified.

<sup>1</sup> 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 58. CANADA, CRUDE MINERALS AND FABRICATED MINERAL PRODUCTS LOADED AT CANADIAN PORTS IN INTERNATIONAL SHIPPING TRADE, 1961-98**

Year	Total All Commodities <sup>1</sup>	Total Crude Minerals	Total Fabricated Minerals	Crude and Fabricated Minerals as a Percentage of All Products
				(%)
		(000 tonnes)		
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
1998	178 893	107 719	16 419	69.4

Source: Statistics Canada.

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

**TABLE 59. CANADA, CAPITAL AND REPAIR EXPENDITURES BY SELECTED INDUSTRIAL SECTOR, 1998-2000**

		Capital Expenditures			Repair Expenditures <sup>1</sup>		
		Construction	Machinery and Equipment	Total	Construction	Machinery and Equipment	Total
(\$ millions)							
Agriculture forestry, fishing and hunting	1998	1 600.2	3 108.8	4 709.0	709.8	2 439.1	3 148.9
	1999 <sup>p</sup>	1 611.4	3 032.1	4 643.4	..	..	..
	2000 <sup>i</sup>	1 697.5	3 011.8	4 709.3	..	..	..
Mining <sup>2</sup>	1998	17 489.2	2 657.5	20 146.7	669.0	2 324.5	2 993.4
	1999 <sup>p</sup>	15 707.5	2 510.2	18 217.7	..	..	..
	2000 <sup>i</sup>	18 322.8	2 615.3	20 938.1	..	..	..
Manufacturing	1998	3 263.8	17 149.8	20 413.6	1 227.1	8 700.9	9 928.0
	1999 <sup>p</sup>	3 177.1	17 075.2	20 252.3	..	..	..
	2000 <sup>i</sup>	3 142.3	16 925.9	20 068.2	..	..	..
Construction	1998	303.8	2 773.5	3 077.3	64.5	1 060.2	1 124.7
	1999 <sup>p</sup>	319.0	2 949.0	3 268.0	..	..	..
	2000 <sup>i</sup>	335.1	3 089.9	3 425.0	..	..	..
Transportation and warehousing	1998	6 224.6	6 452.0	12 676.7	1 497.9	4 038.0	5 535.9
	1999 <sup>p</sup>	6 867.9	6 894.8	13 762.7	..	..	..
	2000 <sup>i</sup>	6 059.1	5 615.2	11 674.3	..	..	..
Utilities	1998	4 803.4	3 099.9	7 903.3	875.5	1 306.8	2 182.2
	1999 <sup>p</sup>	4 797.6	3 324.7	8 122.4	..	..	..
	2000 <sup>i</sup>	5 002.3	2 971.6	7 973.9	..	..	..
Wholesale and retail trade	1998	2 108.0	4 707.1	6 815.2	486.1	1 081.0	1 567.1
	1999 <sup>p</sup>	2 329.8	4 381.5	6 711.3	..	..	..
	2000 <sup>i</sup>	2 364.0	4 334.0	6 697.8	..	..	..
Housing	1998	37 414.6	–	37 414.6	5 083.2	–	5 083.2
	1999 <sup>p</sup>	40 909.5	–	40 909.5	..	..	..
	2000 <sup>i</sup>	42 986.2	–	42 986.2	..	..	..
Total <sup>3</sup>	1998	95 445.7	71 931.2	167 376.9	16 125.6	25 097.8	41 223.4
	1999 <sup>p</sup>	99 773.7	74 559.4	174 332.8	..	..	..
	2000 <sup>i</sup>	104 775.4	71 776.7	176 552.1	..	..	..
Mining as a percentage of total	1998	18.3	3.7	12.0	4.1	9.3	7.3
	1999 <sup>p</sup>	15.7	3.4	10.4	..	..	..
	2000 <sup>i</sup>	17.5	3.6	11.9	..	..	..

Source: Statistics Canada.

– Nil; .. Not available; <sup>i</sup> Intentions; <sup>p</sup> Preliminary actual.<sup>1</sup> Repair data are not available for 1999 and 2000. <sup>2</sup> Includes mines, quarries and oil wells. <sup>3</sup> 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 60. CANADA, CAPITAL AND REPAIR EXPENDITURES IN THE MINERAL INDUSTRY<sup>1</sup> BY PROVINCE AND TERRITORY, 1998-2000**

Province/ Territory		Capital Expenditures			Repair Expenditures <sup>2</sup>		
		Construction	Machinery and Equipment	Total	Construction	Machinery and Equipment	Total
(\$ millions)							
Newfoundland	1998	1 045.8	54.1	1 099.9	x	x	x
	1999 <sup>p</sup>	1 448.4	53.5	1 501.9	..	..	..
	2000 <sup>i</sup>	1 251.2	27.1	1 278.3	..	..	..
Nova Scotia	1998	1 040.0	52.9	1 092.9	x	x	19.4
	1999 <sup>p</sup>	1 277.3	51.1	1 328.5	..	..	..
	2000 <sup>i</sup>	495.7	31.4	527.1	..	..	..
New Brunswick	1998	x	x	110.3	x	x	94.9
	1999 <sup>p</sup>	46.7	26.2	72.9	..	..	..
	2000 <sup>i</sup>	64.9	41.6	106.5	..	..	..
Quebec	1998	546.6	118.0	664.6	32.3	337.0	369.3
	1999 <sup>p</sup>	479.2	111.9	591.2	..	..	..
	2000 <sup>i</sup>	402.8	104.7	507.5	..	..	..
Ontario	1998	509.6	228.8	738.4	42.6	325.9	368.5
	1999 <sup>p</sup>	408.7	137.0	545.6	..	..	..
	2000 <sup>i</sup>	508.2	238.2	746.5	..	..	..
Manitoba	1998	132.7	19.6	152.4	12.8	42.1	54.9
	1999 <sup>p</sup>	110.7	13.7	124.4	..	..	..
	2000 <sup>i</sup>	160.0	29.0	189.0	..	..	..
Saskatchewan	1998	1 389.3	224.5	1 613.8	60.4	150.5	210.9
	1999 <sup>p</sup>	1 099.4	260.3	1 359.8	..	..	..
	2000 <sup>i</sup>	1 252.3	206.2	1 458.5	..	..	..
Alberta	1998	10 634.6	1 716.6	12 351.1	450.5	848.5	1 299.0
	1999 <sup>p</sup>	9 295.2	1 684.7	10 979.9	..	..	..
	2000 <sup>i</sup>	12 306.8	1 762.7	14 069.4	..	..	..
British Columbia	1998	1 541.9	172.5	1 714.4	51.5	359.3	410.8
	1999 <sup>p</sup>	1 236.6	139.2	1 375.8	..	..	..
	2000 <sup>i</sup>	1 516.9	141.4	1 658.3	..	..	..
Yukon	1998	x	x		x	x	x
	1999 <sup>p</sup>	20.7	1.9	22.6	..	..	..
	2000 <sup>i</sup>	26.5	4.4	30.9	..	..	..
Northwest Territories	1998	549.0	31.3	580.3	2.2	44.4	46.5
	1999 <sup>p</sup>	–	–	–	..	..	..
	2000 <sup>i</sup>	–	–	–	..	..	..
Nunavut	1998	–	–	–	–	–	–
	1999 <sup>p</sup>	x	x	x	..	..	..
	2000 <sup>i</sup>	x	x	x	..	..	..
Total Canada	1998	17 489.2	2 657.5	20 146.7	669.0	2 324.5	2 993.4
	1999 <sup>p</sup>	15 707.5	2 510.2	18 217.7	..	..	..
	2000 <sup>i</sup>	18 322.8	2 615.3	20 938.1	..	..	..

Source: Statistics Canada.

.. Not available; <sup>p</sup> Preliminary actual; <sup>i</sup> Intentions; x Confidential.<sup>1</sup> Includes mines, quarries and oil wells. <sup>2</sup> Repair data are not available for 1999 and 2000.

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

**TABLE 61. CANADA, CAPITAL AND REPAIR<sup>1</sup> EXPENDITURES IN THE MINING AND OIL AND GAS EXTRACTION INDUSTRIES, 1998-2000**

	1998		Total	1999 <sup>p</sup>	2000 <sup>i</sup>
	Capital	Repair		Capital	Capital
(\$ millions)					
<b>MINERAL EXTRACTION</b>					
Metal ore mining					
Gold and silver	523.3	290.2	813.5	447.8	397.1
Copper and copper-zinc	142.6	73.0	215.6	161.2	226.6
Nickel-copper	291.2	121.2	412.4	x	277.4
Lead-zinc	104.0	83.4	187.4	60.3	93.6
Uranium	x	x	x	x	x
Iron	146.1	214.7	360.8	177.3	175.7
Other metal mines	x	x	x	x	x
<b>Total</b>	<b>1 527.2</b>	<b>936.9</b>	<b>2 464.1</b>	<b>1 300.3</b>	<b>1 465.8</b>
Nonmetallic mineral mining					
Asbestos	x	x	x	x	x
Peat	44.0	14.0	57.9	28.8	18.5
Gypsum	x	x	x	x	x
Potash	109.5	104.4	213.9	93.2	98.5
Other nonmetal mines	482.4	53.5	535.9	123.5	87.0
Coal	238.6	325.2	563.9	187.0	156.3
Stone	89.0	67.2	156.2	58.1	43.7
Sand and gravel, clay, and ceramic and refractory	70.8	69.4	140.3	47.1	44.4
<b>Total</b>	<b>1 120.80</b>	<b>697.3</b>	<b>1 818.1</b>	<b>605.1</b>	<b>509.2</b>
Oil and gas extraction	16 194.5	860.6	17 055.1	15 203.5	17 840.6
Service industries incidental to mineral extraction	1 304.2	498.7	1 802.9	1 108.8	1 122.5
<b>Total mineral industry</b>	<b>20 146.7</b>	<b>2 993.5</b>	<b>23 140.2</b>	<b>18 217.7</b>	<b>20 938.1</b>

Source: Statistics Canada.

<sup>i</sup> Intentions; <sup>p</sup> Preliminary actual; x Confidential.<sup>1</sup> Repair data are not available for 1999 and 2000.

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