

# Stone

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## INTRODUCTION

This report deals mainly with the dimensional stone industry in Canada, comprising operating dimension stone quarries and stone-processing facilities. Dimensional stone, or architectural stone, includes many different rock types and refers to any stone that is capable of being quarried in large blocks and being processed into slabs, small blocks, flagstones, etc. The commercial term "granite" is defined as any igneous rock that is suitable for cutting and polishing and includes such rock types as gabbro, gneiss, anorthosite and diabase. Commercial "marble" is a crystalline rock composed primarily of calcite or dolomite that is capable of taking a high polish. Some stone marketed as marble, such as the Adair marble of Ontario, is actually fine-grained sedimentary limestone or dolostone. Other common dimensional stone includes limestone, sandstone and slate. For dimension stone to be accepted by architects for use in building construction projects, it must pass standard ASTM (American Society for Testing and Materials) tests, including specifications for absorption, bulk specific gravity, modulus of rupture, compressive strength, and abrasion resistance. The stone industry determines the value of different stone products based on colour, grain texture, surface finish and durability.

## CANADIAN INDUSTRY

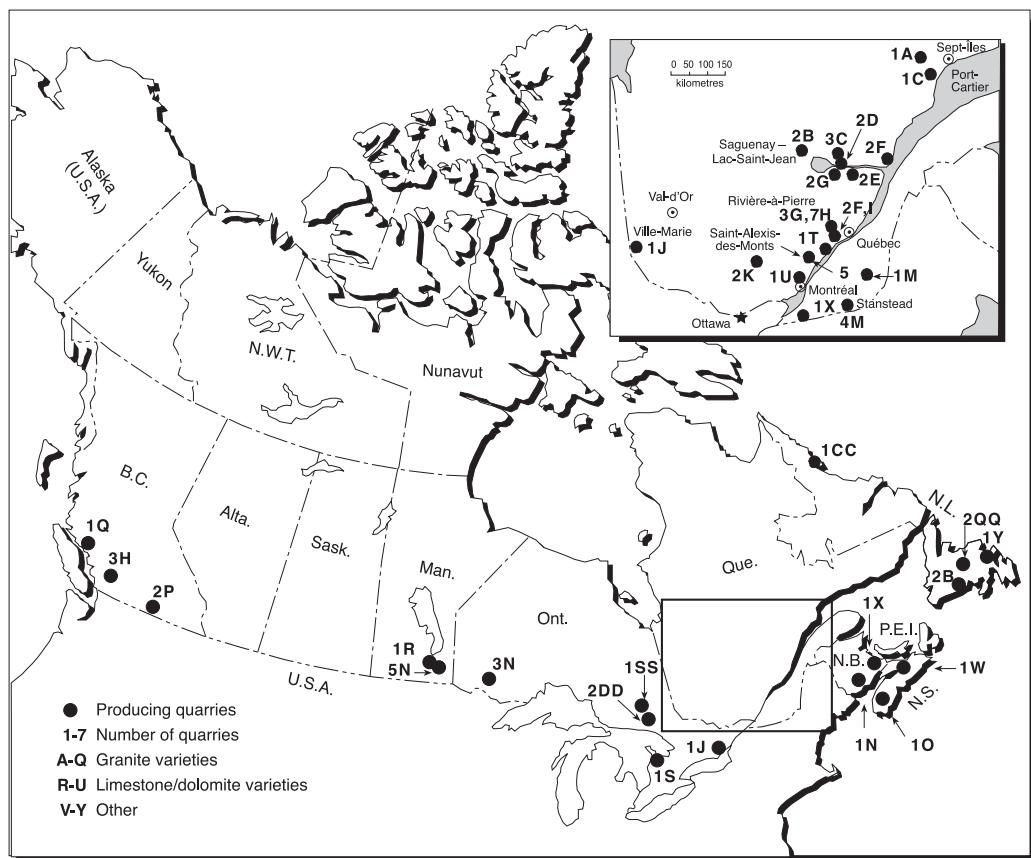
Total stone produced in Canada in 2004 (includes dimension stone and crushed stone) was 127.5 Mt valued at \$1.070 billion, based on preliminary figures. This represents an increase in volume of 2.4% over the previous year. Virtually all of this production is crushed stone for the construction and chemical industries. Table 2 shows stone production broken down by rock type for 1990 and 2000-2004. Crushed stone is used for a variety of construction, chemical, metallurgical and miscellaneous uses.

Pulverized stone is used as a mineral filler and for agricultural and environmental applications. The reader is referred to the chapter entitled "Mineral Aggregates" for more detailed information on crushed stone and sand and gravel, along with information on lightweight aggregates comprising perlite, vermiculite, pumice and expanded clays.

Architectural and monumental stone-producing centres are shown in Figure 1. The majority of stone quarries are located in southern and central Quebec and in central Ontario, with lesser production coming from other regions. In Quebec, stone quarries are primarily located northwest of Québec City (Rivière-à-Pierre), in the Lac-Saint-Jean area, and in the Sherbrooke-Stanstead area near the U.S. border. In central Ontario, limestone/marble quarrying is carried out in the Owen Sound and Wiarton areas of the Bruce Peninsula. Granite quarries are found in central Ontario, near Sudbury, and in the Vermilion Bay-Kenora district. For more information on the dimension stone industry in Ontario, the reader is referred to the Ministry of Northern Development and Mines dimension stone directory ([www.mndm.gov.on.ca/mndm/mines/mg/dimstone/intro\\_e.asp](http://www.mndm.gov.on.ca/mndm/mines/mg/dimstone/intro_e.asp)). The Quebec Ministère des Ressources naturelles et de la Faune maintains a comprehensive web site of dimension stone producers at [www.mrnfp.gouv.qc.ca/mines/industrie/architecturale/index.jsp](http://www.mrnfp.gouv.qc.ca/mines/industrie/architecturale/index.jsp). For producers in British Columbia, refer to the B.C. Ministry of Energy, Mines and Petroleum Resources MINFILE Mineral Inventory at [www.em.gov.bc.ca/mining/geolsurv/minfile/](http://www.em.gov.bc.ca/mining/geolsurv/minfile/).

In 2003, 770 000 t of dimensional stone were quarried in Canada, an increase of 10% from 2002. Production can be broken down by stone type as follows: limestone, 330 000 t (43%); marble, 27 000 t (3.5%); granite, 265 000 t (34.4%); sandstone, 99 000 t (12.8%); and shale (including slate), 49 000 t (6.3%). Production figures for individual stone types are given in Tables 4 to 8 and include a summary by province or territory and a breakdown by use into dimension stone and crushed stone applications. Table 9 gives a breakdown of rough granite production and trade for the period 1988-2004. Figures 2a and 2b illustrate the trends in crushed and dimension stone production during the period 1992-2004, broken down by stone type. For the two main commercial types of stone produced in Canada, granite and limestone, there has been a general increase in tonnes produced in the last 10 years.

**Figure 1**  
**Canada, Architectural and Monumental/Ornamental Stone-Producing Centres, 2004**

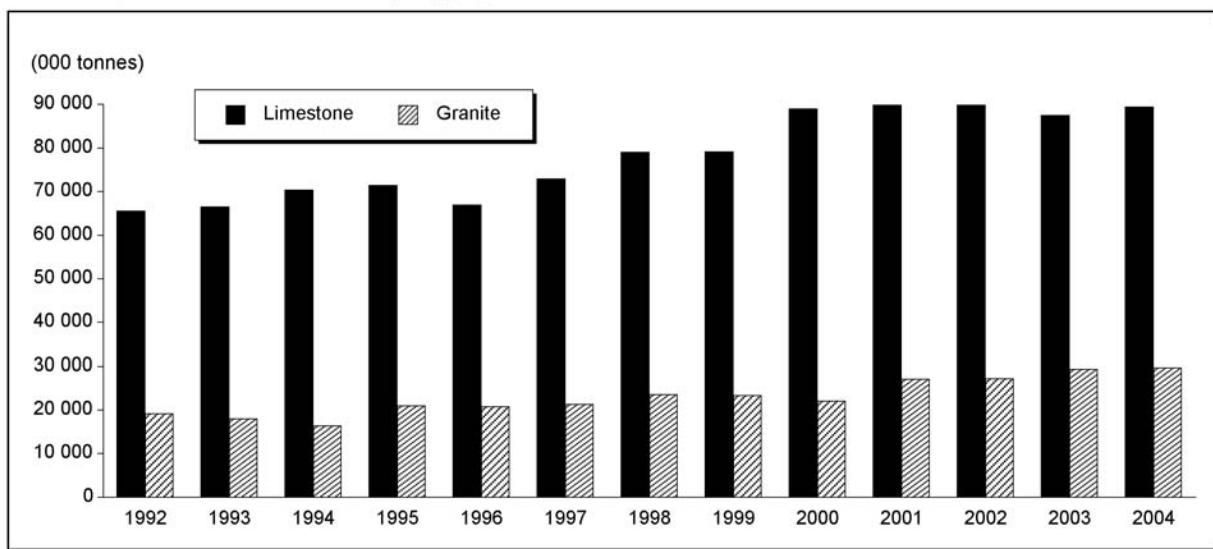


- A Fine-grained pinkish-grey banded gneiss
- B Medium-grained pink granite
- C Coarse-grained black anorthosite
- CC Medium-grained "Reflect blue" anorthosite
- D Medium-grained black gabbroic anorthosite
- DD Blue-grey, and black and white anorthosite
- E Medium-grained pinkish-grey quartz monzonite
- F Fine-grained pink granitic gneiss
- G Coarse-grained green charnockite
- H Coarse-grained pink-grey or brown-grey granite
- I Medium-grained grey dioritic gneiss
- J Medium-grained red granite
- K Fine-grained pink aplite
- L Coarse-grained brown or red quartz monzonite
- M Medium-grained grey granite
- N Medium-grained pink, brown or gold granites
- O Fine-grained blue-grey granite
- P Coarse coral pink granite

- Q Medium-grained blue-grey granite
- QQ Medium-grained gabbro
- R Light-coloured mottled dolomitic limestone (Tyndall)
- S Fine-medium crystalline blue-grey to buff marble/dolostone (Adair)
- SS Fine-grained, multicoloured pre-Cambrian marble
- T Medium-grained light brownish-grey limestone (Deschambault)
- U Medium-grained blue-grey limestone (Chazy)
- V Medium-grained olive sandstone
- W Fine-medium-grained olive-brown and blue-grey sandstone
- X Fine-medium-grained white to buff sandstone (Potsdam)
- Y Very fine-grained varicoloured slate

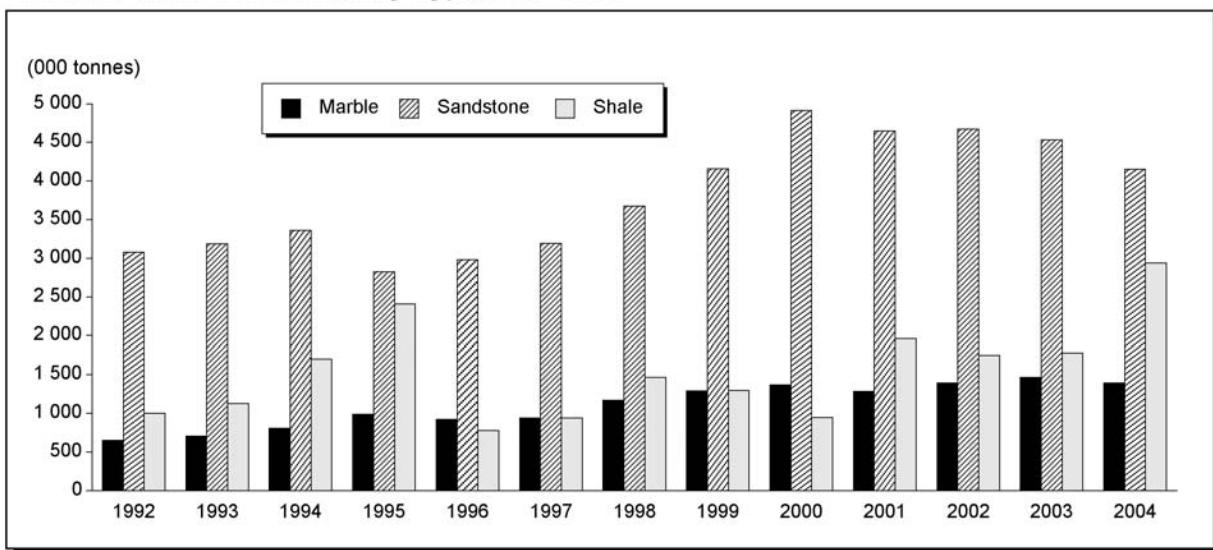
Source: Mainly provincial departments of Mines and Energy.

**Figure 2a**  
**Canada, Stone Production by Type, 1992-2004**



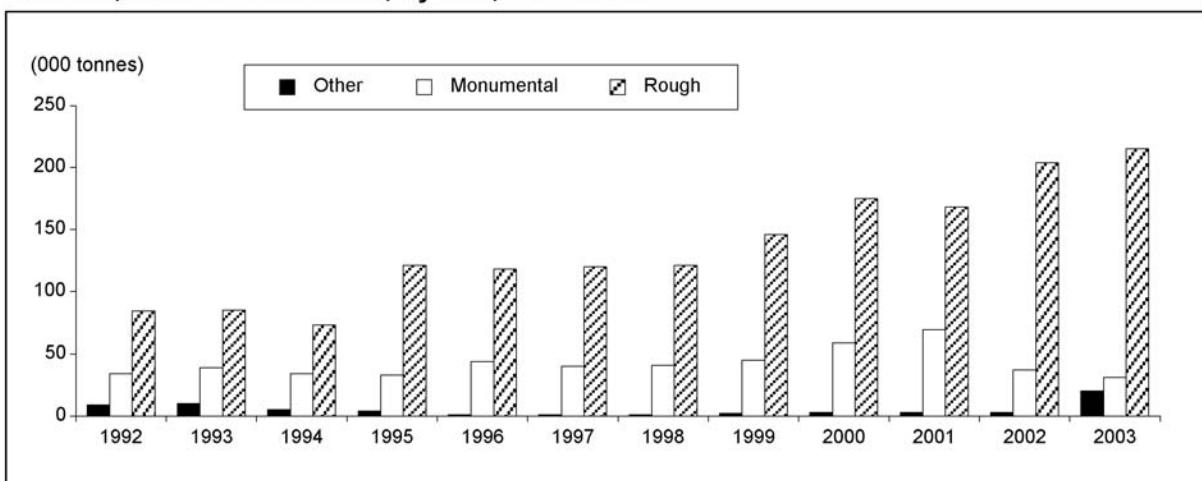
Source: Natural Resources Canada.

**Figure 2b**  
**Canada, Stone Production by Type, 1992-2004**



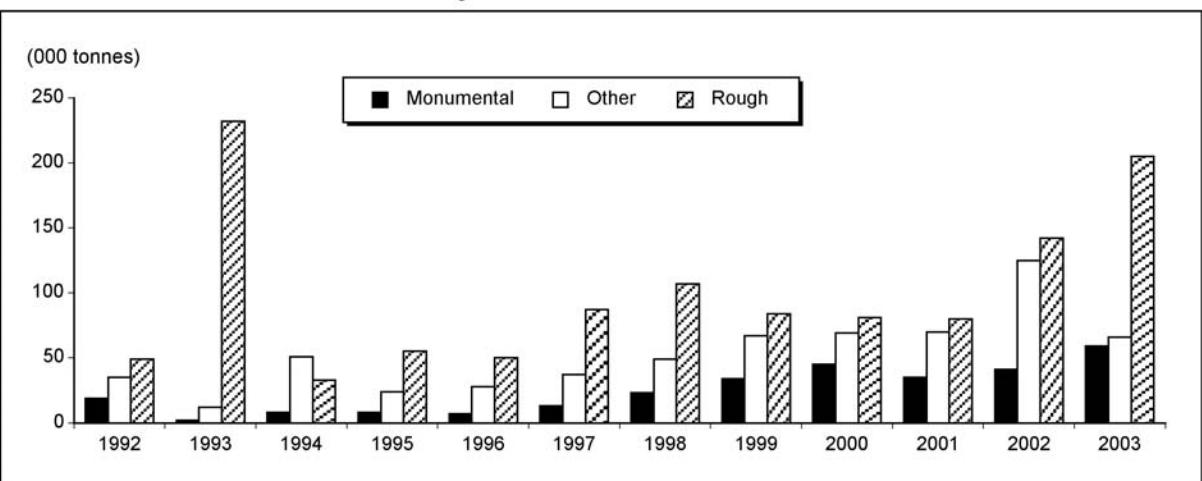
Source: Natural Resources Canada.

**Figure 3**  
**Canada, Granite Production, by Use, 1992-2003**



Source: Natural Resources Canada.

**Figure 4**  
**Canada, Limestone Production, by Use, 1992-2003**



Source: Natural Resources Canada.

Figure 3 illustrates granite dimensional stone production for the period 1992-2003, with a distinct upward trend for rough trimmed product and a decline in monumental stone. Stone for other uses, such as flagstones and paving blocks, has increased in volume. Figure 4 shows limestone dimensional stone production for the same period. Production of rough limestone blocks increased 44% in 2003.

Most of the dimension stone fabrication facilities in Canada are located in British Columbia, Ontario and Quebec. Stone-producing companies ship rough stone blocks, usually weighing 20-40 t, to their own or to third-party fabrication plants in Canada and elsewhere where the stone is cut into a wide range of sizes for use as exterior cladding on buildings (cut-to-size), interior walls, floors and counter tops, monuments and memorials, and other miscellaneous uses such as landscaping and curbing. Fabricators also source numerous stone types from other countries around the world.

A Statistics Canada publication entitled *Non-Metallic Mineral Mining and Quarrying* (Table 10) provides additional information on shipments of stone by province and type. This publication is available on the Internet at [www.statcan.ca/english/freepub/26-226-XIB/free.htm](http://www.statcan.ca/english/freepub/26-226-XIB/free.htm).

## TRADE

Imports and exports of rough trimmed stone and other stone products are shown in Table 1. In 2004, Canada exported a total of 40 926 m<sup>3</sup> of crude or rough trimmed granite, a decrease of 63% over exports in 2003. Stone was exported primarily to the United States with lesser quantities to China and Japan. Using a specific gravity of 2.7 for granite, total exports were equivalent to 110 500 t. Canada also exported 23 024 t of slabbed granite products, a 40% increase over the previous year. Canada imported 64 122 t of rough granite, a decrease of 18% from 2003 levels, primarily from the United States, South Africa and Brazil. Minor imports from Norway, Zimbabwe, India and China were also noted. The reader should note that the quantity of granite slab imports (HS 2516.12) for 2004 appears to be in error. Based upon the average unit value for the period 1999-2003 of \$872/t, the estimated quantity of sawn granite slabs imported in 2004 is 7395 t, compared to 5585 t in 2003.

## WORLD OVERVIEW

According to the *Natural Stone in the World 2005 Directory*, total stone production for 2003 is estimated at 80 Mt. The top five producing countries, with estimated production in parentheses, are: China (16.9 Mt), India (10.2 Mt), Italy (9.1 Mt), Iran (9.1 Mt) and Spain (7.1 Mt).

The United States produced 1 073 000 t of dimensional stone in 2003, according to the USGS. The following is a

comparison of Canadian and U.S. production by dimension stone types for 2003 (in 000 t): limestone (330 vs. 373), granite (265 vs. 463), marble (27 vs. 61), and sandstone (99 vs. 176).

According to *Stone World* magazine, the United States imported 1.765 Mt of granite dimensional stone in 2004, primarily from Brazil (33.7% of total), India (20.7%), Italy (20.5%) and China (12.7%). The United States imported 1.315 Mt of marble in 2004 from Turkey (37.4%), Italy (15.6%), Spain (10.4%) and Mexico (8.3%).

## PRICES

Realized prices for dimensional stone are quite variable and depend on factors that include colour, texture, finish and consistency. Average prices, in US\$/t, as reported by the U.S. Geological Survey, for 2003 were \$242 for granite, \$198 for limestone, \$130 for sandstone, \$304 for marble, and \$605 for slate.

## OUTLOOK

Demand for finished dimension stone products should increase slightly in 2005 due to continued growth in the residential stone market and a generally strong economy in North America. There will continue to be competition for Canadian stone due to strong imports from countries such as China, India and Brazil. This will be counterbalanced by strong sales by Canadian quarriers and fabricators, who have a solid reputation in the international market.

More detailed information on the Canadian stone industry at the provincial/territorial level can be found at the natural resources ministry web sites for each province or territory (links are provided on the Minerals and Metals Sector site at [www.nrcan.gc.ca/mms/lien/ptd\\_e.htm](http://www.nrcan.gc.ca/mms/lien/ptd_e.htm)).

*Notes:* (1) For definitions and valuation of mineral production, shipments and trade, please refer to Chapter 64. (2) Information in this review was current as of June 30, 2005. (3) This and other reviews, including previous editions, are available on the Internet at [www.nrcan.gc.ca/mms/cmy/com\\_e.html](http://www.nrcan.gc.ca/mms/cmy/com_e.html).

## NOTE TO READERS

The intent of this document is to provide general information and to elicit discussion. It is not intended as a reference, guide or suggestion to be used in trading, investment, or other commercial activities. The author and Natural Resources Canada make no warranty of any kind with respect to the content and accept no liability, either incidental, consequential, financial or otherwise, arising from the use of this document.

**TARIFFS**

Item No.	Description	Canada			United States Canada	EU Conventional Rate (1)	Japan WTO (2)
		MFN	GPT	USA			
2514.00	Slate, whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape						
2514.00.10	Merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape	3.5%	Free	Free	Free	Free	Free
2514.00.90	Other	Free	Free	Free	Free	Free	Free
25.15	Marble, travertine, ecaussine and other calcareous monumental or building stone of an apparent specific gravity of 2.5 or more, and alabaster, whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape						
	Marble and travertine:						
2515.11.00	Crude or roughly trimmed	Free	Free	Free	Free	Free	Free
2515.12.00	Merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape	Free	Free	Free	Free	Free	Free
2515.20	Ecaussine and other calcareous monumental or building stone; alabaster						
2515.20.10	Crude or roughly trimmed	Free	Free	Free	Free	Free	Free
2515.20.20	Merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape	3.5%	Free	Free	Free	Free	Free
25.16	Granite, porphyry, basalt, sandstone and other monumental or building stone, whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape						
	Granite:						
2516.11.00	Crude or roughly trimmed	Free	Free	Free	Free	Free	Free
2516.12	Merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape	Free-3.5%	Free	Free	Free	Free	Free
	Sandstone:						
2516.21.00	Crude or roughly trimmed	Free	Free	Free	Free	Free	Free
2516.22.00	Merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape	3.5%	Free	Free	Free	Free	Free
2516.90	Other monumental or building stone						
2516.90.10	Crude or roughly trimmed	Free	Free	Free	Free	Free	Free
2516.90.20	Merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape	3.5%	Free	Free	Free	Free	Free
25.17	Pebbles, gravel or crushed stone, of a kind commonly used for concrete aggregates, for road metalling or for railway or other ballast, shingle and flint, whether or not heat-treated; macadam of slag, dross or similar industrial waste, whether or not incorporating the materials cited in the first part of the heading; tarred macadam, granules, chippings and powder, of stones of heading nos. 25.15 or 25.16, whether or not heat-treated						
2517.10.00	Pebbles, gravel, broken or crushed stone, of a kind commonly used for concrete aggregates, for road metalling or for railway or other ballast, shingle and flint, whether or not heat-treated	Free	Free	Free	Free	Free	Free
2517.20.00	Macadam of slag, dross or similar industrial waste, whether or not incorporating the materials cited in subheading no. 2517.10	Free	Free	Free	Free	Free	Free
2517.30.00	Tarred macadam	6.5%	Free	Free	Free	Free	Free
	Granules, chippings and powder, of stones of heading nos. 25.15 or 25.16, whether or not heat-treated:						
2517.41.00	Of marble	Free	Free	Free	Free	Free	Free
2517.49	Other						
2517.49.10	Limestone, roofing granules	Free	Free	Free	Free	Free	Free
2517.49.90	Other	Free	Free	Free	Free	Free	Free
6801.00	Setts, curbstones and flagstones of natural stone (except slate)	3.5%	Free	Free	Free	Free	Free
68.02	Worked monumental or building stone (except slate) and articles thereof, other than goods of heading no. 68.01; mosaic cubes and the like, of natural stone (including slate), whether or not on a backing; artificially coloured granules, chippings and powder, of natural stone (including slate)						
6802.10	Tiles, cubes and similar articles, whether or not rectangular (including square), the largest surface area of which is capable of being enclosed in a square the side of which is less than 7 cm; artificially coloured granules, chippings and powder						
6802.10.10	Artificially coloured roofing granules	Free	Free	Free	Free	Free	Free

**TARIFFS (cont'd)**

Item No.	Description	MFN	Canada	United States	EU Conventional Rate (1)	Japan WTO (2)
			GPT	USA		
6802.10.90	Other Other monumental or building stone and articles thereof, simply cut or sawn, with a flat or even surface:	8%	5%	Free	Free	Free
6802.21.00	Marble, travertine and alabaster	3.5%	Free	Free	Free	1.7%
6802.22.00	Other calcareous stone	5%	Free	Free	Free	1.7%
6802.23.00	Granite	3.5%	Free	Free	Free	1.7%
6802.29.00	Other stone	5%	Free	Free	Free	1.7%
	Other:					
6802.91.00	Marble, travertine and alabaster	6%	Free	Free	Free	1.7%
6802.92.00	Other calcareous stone	6.5%	3%	Free	Free	1.7%
6802.93.00	Granite	6.5%	6.5%	Free	Free	Free
6802.99.00	Other stone	6.5%	6.5%	Free	Free	Free
6803.00	Worked slate and articles of slate or of agglomerated slate					
6803.00.10	Roofing slate; slate for use in the manufacture of billiard tables	Free	Free	Free	Free	1.7%
6803.00.90	Other	6.5%	6.5%	Free	Free	1.7%
68.04	Millstones, grindstones, grinding wheels and the like, without frameworks, for grinding, sharpening, polishing, trueing or cutting, hand sharpening or polishing stones, and parts thereof, of natural stone, of agglomerated natural or artificial abrasives, or of ceramics, with or without parts of other materials					
6804.10.00	Millstones and grindstones for milling, grinding or pulping	6.5%	Free	Free	Free	Free
6804.23.00	Of natural stone	6.5%	Free	Free	Free	1.5%

Sources: Canadian Customs Tariff, effective January 2005, Canada Border Services Agency; Harmonized Tariff Schedule of the United States, 2005; Official Journal of the European Union (October 30, 2004 Edition); Customs Tariff Schedules of Japan, 2004.

(1) The customs duties applicable to imported goods originating in countries that are Contracting Parties to the General Agreement on Tariffs and Trade or with which the European Community has concluded agreements containing the most-favoured-nation tariff clause shall be the conventional duties shown in column 3 of the Schedule of Duties. (2) WTO rate is shown; lower tariff rates may apply circumstantially.

**TABLE 1. CANADA, STONE TRADE, 2002-04**

		2002		2003		2004 (p)	
		(tonnes)	(\$000)	(tonnes)	(\$000)	(tonnes)	(\$000)
<b>EXPORTS</b>							
2514.00	Slate: Whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape						
	United States	286	131	347	232	435	287
	Other countries	13	7	—	—	7	3
	Total	299	138	347	232	442	290
2515.11	Marble and travertine: Crude or roughly trimmed						
	Bermuda	—	—	45	13	18	7
	United States	8	18	21	25	6	6
	Other countries	22	42	10	3	—	—
	Total	30	60	76	41	24	13
2515.12	Marble and travertine: Merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape						
	Italy	—	—	—	—	388	168
	Bermuda	3	1	1	...	409	136
	Hong Kong	—	—	—	—	330	103
	United States	137	129	85	29	10	31
	Other countries	51	12	—	—	3	6
	Total	191	142	86	29	1 140	444

**TABLE 1 (cont'd)**

		2002		2003		2004 (p)	
		(cubic metres)	(\$000)	(cubic metres)	(\$000)	(cubic metres)	(\$000)
<b>EXPORTS (cont'd)</b>							
2516.11	Granite: Crude or roughly trimmed						
	United States	31 509	6 606	50 546	5 789	30 549	4 975
	China	4 517	2 250	58 446	1 089	7 080	3 979
	Japan	2 242	1 062	959	498	1 307	665
	South Korea	—	—	—	—	598	336
	Italy	245	183	598	251	422	212
	Taiwan	2 345	884	447	218	412	180
	Singapore	—	—	361	95	487	132
	Other countries	371	183	197	49	71	40
	Total	41 229	11 168	111 554	7 989	40 926	10 519
2516.12	Granite: Merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape	(tonnes)		(tonnes)		(tonnes)	
	Italy	5 725	2 963	1 117	180	7 887	3 550
	China	6 168	974	9 602	1 856	7 247	2 058
	South Korea	—	—	672	78	4 136	1 698
	United States	1 217	642	613	423	556	698
	Taiwan	1 435	348	3 899	824	2 374	567
	Bermuda	37	41	146	239	182	179
	Hong Kong	—	—	365	59	269	79
	Japan	555	391	25	4	169	70
	Other countries	27	55	22	33	204	91
	Total	15 164	5 414	16 461	3 696	23 024	8 990
2516.21	Sandstone: Crude or roughly trimmed	(cubic metres)		(cubic metres)		(cubic metres)	
	United States	47	80	42	52	29	39
2516.22	Sandstone: Merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape	(tonnes)		(tonnes)		(tonnes)	
	United States	35	70	14	23	10	23
	Other countries	1	—	25	9	4	1
	Total	36	70	39	32	14	24
2516.90	Other monumental or building stone						
	United States	7 181	2 981	5 045	1 622	6 200	1 754
	United Kingdom	—	—	—	—	90	13
	Finland	—	—	—	—	441	12
	Other countries	77	12	—	—	111	13
	Total	7 258	2 993	5 045	1 622	6 842	1 792
2517.10	Pebbles and gravel of a kind commonly used for concrete aggregates, for road metalling or for railway or other ballast, shingle and flint, whether or not heat-treated						
	United States	5 078 843	62 467	5 669 294	57 982	5 795 879	56 862
	Barbados	10 126	139	29 878	342	351 660	2 153
	Trinidad and Tobago	—	—	164 959	2 981	53 451	988
	France	—	—	4 000	32	—	—
	Bahamas	—	—	25 962	503	—	—
	Turks and Caicos Islands	—	—	13 451	288	—	—
	Other countries	10 825	160	1 154	24	3 812	45
	Total	5 099 794	62 766	5 908 698	62 152	6 204 802	60 048
2517.41	Granules, chippings and powder, of stones of heading Nos. 25.15 or 25.16, whether or not heat-treated: Of marble						
	United States	32 365	6 864	45 972	7 196	45 054	8 140
	Italy	—	—	—	—	30	4
	Total	32 365	6 864	45 972	7 196	45 084	8 144
2517.49	Granules, chippings and powder, of stones of heading Nos. 25.15 or 25.16, whether or not heat-treated: Other						
	United States	4 692	434	22 499	285	9 039	505
	Latvia	—	—	—	—	9 452	35
	Other countries	30	12	570	46	199	18
	Total	4 722	446	23 069	331	18 690	558

**TABLE 1 (cont'd)**

		2002		2003		2004 (p)	
		(tonnes)	(\$000)	(tonnes)	(\$000)	(tonnes)	(\$000)
<b>EXPORTS (cont'd)</b>							
6801.00	Setts, curbstones and flagstones, of natural stone (except slate)						
	United States	..	3 535	..	3 450	..	3 027
	Other countries	-	8	-	-	-	2
	Total	..	3 543	..	3 450	..	3 029
6802.10	Tiles, cubes and similar articles, whether or not rectangular						
	United States	..	19 775	..	8 193	..	11 979
	Other countries	..	155	..	25	..	306
	Total	..	19 930	..	8 218	..	12 285
6802.21	Other monumental or building stone and articles thereof, simply cut or sawn, with a flat or even surface: Marble, travertine and alabaster						
	United States	..	636	..	80	..	104
	Other countries	..	..	..	16	..	9
	Total	..	636	..	96	..	113
6802.22	Other monumental or building stone and articles thereof, simply cut or sawn, with a flat or even surface: Other calcareous stone						
	United States	..	3 293	..	292	..	773
	Other countries	..	17	..	2	..	..
	Total	..	3 310	..	294	..	773
6802.23	Other monumental or building stone and articles thereof, simply cut or sawn, with a flat or even surface: Granite						
	United States	..	2 129	..	1 530	..	1 587
	Other countries	-	16	..	98	-	114
	Total	..	2 145	..	1 628	..	1 701
6802.29	Other monumental or building stone and articles thereof, simply cut or sawn, with a flat or even surface: Other stone						
	Germany	-	-	..	271	..	1 275
	United States	..	777	..	609	..	752
	Other countries	..	181	..	57	..	36
	Total	..	958	..	937	..	2 063
6802.91	Other: Marble, travertine and alabaster						
	United States	..	2 948	..	1 093	..	2 844
	Other countries	..	189	..	90	..	21
	Total	..	3 137	..	1 183	..	2 885
6802.92	Other: Other calcareous stone						
	United States	..	7 735	..	6 743	..	4 784
	Bermuda	-	-	-	-	..	21
	Total	..	7 735	..	6 743	..	4 805
6802.93.10	Other: Granite. Monuments, bases and markers, finished						
	United States	12 935	21 777	10 087	17 610	12 176	19 989
	Other countries	3	23	2	11	57	73
	Total	12 938	21 800	10 089	17 621	12 233	20 062
6802.93.90	Other: Granite. Other						
	United States	28 560	48 997	33 764	46 935	35 803	42 389
	Belgium	-	-	857	827	537	1 152
	China	-	-	40	19	129	117
	Other countries	30	51	1 834	1 083	125	263
	Total	28 590	49 048	36 495	48 864	36 594	43 921
6802.99	Other: Other stone						
	United States	..	39 739	..	35 615	..	37 636
	Germany	-	-	..	24	..	185
	Turks and Caicos Islands	-	-	..	217	..	28
	Other countries	..	1 148	..	862	..	20
	Total	..	40 887	..	36 718	..	37 869

**TABLE 1 (cont'd)**

		2002		2003		2004 (p)	
		(tonnes)	(\$000)	(tonnes)	(\$000)	(tonnes)	(\$000)
<b>EXPORTS (cont'd)</b>							
6803.00	Worked slate and articles of slate or of agglomerated slate						
	France	..	7 163	..	10 756	..	21 241
	United Kingdom	..	1 943	..	3 353	..	4 411
	Belgium	..	2 304	..	2 630	..	3 810
	United States	..	3 256	..	2 667	..	2 703
	Other countries	..	1 142	..	398	..	651
	Total	..	15 808	..	19 804	..	32 816
6804.10	Millstones and grindstones for milling, grinding or pulping						
	United States	..	1 998	..	1 515	..	1 619
	Finland	..	216	..	426	..	718
	Germany	..	1 539	..	924	..	579
	Sweden	..	270	..	262	..	563
	Brazil	..	229	..	368	..	506
	Other countries	..	902	..	1 551	..	965
	Total	..	5 154	..	5 046	..	4 950
6804.23	Other millstones, grindstones, grinding wheels and the like: Of natural stone						
	United States	..	8	..	34	..	50
	Other countries	..	132	..	6	..	39
	Total	..	140	..	40	..	89
	Total exports	..	264 372	..	234 014	..	258 222
<b>IMPORTS</b>							
2514.00	Slate: Whether or not roughly trimmed or merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape						
	India	3 659	2 003	6 114	2 587	7 906	2 921
	China	3 160	1 607	3 638	1 675	16 061	2 419
	United States	1 144	567	862	368	10 627	498
	Brazil	360	190	285	177	383	156
	South Africa	106	49	133	71	148	79
	Italy	44	38	166	65	112	62
	Other countries	153	63	210	90	81	38
	Total	8 626	4 517	11 408	5 033	35 318	6 173
2515.11	Marble and travertine: Crude or roughly trimmed						
	United States	1 382	472	2 303	932	2 214	844
	Turkey	644	549	3 474	2 527	400	387
	Italy	386	280	401	346	348	340
	Other countries	145	149	200	166	56	50
	Total	2 557	1 450	6 378	3 971	3 018	1 621
2515.12	Marble and travertine: Merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape						
	Italy	593	739	464	560	740	844
	Iran	38	51	115	105	300	320
	United States	215	136	251	115	427	246
	Spain	217	143	96	114	223	242
	China	326	443	375	398	191	212
	Other countries	1 254	1 331	353	322	341	297
	Total	2 643	2 843	1 654	1 614	2 222	2 161
2516.11	Granite: Crude or roughly trimmed						
	United States	31 271	9 559	31 880	9 272	32 348	7 729
	Brazil	9 664	2 647	7 629	1 519	6 829	4 122
	South Africa	23 210	6 430	19 160	4 449	11 322	3 550
	Norway	4 185	2 037	5 388	1 792	2 536	1 484
	Zimbabwe	2 721	1 045	4 440	1 959	2 565	1 164
	India	2 109	709	1 738	569	2 375	930
	China	526	185	1 664	555	2 289	718
	Italy	1 132	723	4 305	1 409	1 191	487
	Taiwan	1 407	608	404	157	716	217
	Sweden	310	93	25	40	614	214
	Saudi Arabia	1 134	445	664	243	272	119
	Spain	118	56	5	2	356	110
	Finland	1 043	313	452	97	341	68
	Other countries	912	410	333	149	368	125
	Total	79 742	25 260	78 087	22 212	64 122	21 037

**TABLE 1 (cont'd)**

		2002		2003		2004 (p)	
		(tonnes)	(\$000)	(tonnes)	(\$000)	(tonnes)	(\$000)
<b>IMPORTS (cont'd)</b>							
2516.12	Granite: Merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape (1)						
	China	880	591	1 819	1 676	41 055	1 886
	India	624	661	953	1 133	38 138	1 513
	Brazil	1 143	1 167	870	889	4 903	1 094
	United States	872	232	986	290	53 134	737
	Italy	490	606	303	479	51 604	533
	Spain	94	88	39	67	3 462	191
	Other countries	427	390	615	615	757	495
	Total	4 530	3 735	5 585	5 149	193 053	6 449
2516.21	Sandstone: Crude or roughly trimmed						
	United States	12 270	1 446	6 787	827	5 606	1 304
	India	632	103	716	118	605	155
	Other countries	361	158	1 368	110	1072	216
	Total	13 263	1 604	8 871	1 055	7 283	1 675
2516.22	Sandstone: Merely cut, by sawing or otherwise, into blocks or slabs of a rectangular (including square) shape						
	United States	4 727	1 681	5 172	1 885	5 146	1 891
	India	147	36	535	122	956	304
	Other countries	124	26	160	35	5	2
	Total	4 998	1 743	5 867	2 042	6 210	2 217
2516.90	Other monumental or building stone						
	United States	9 024	3 523	8 629	3 172	13 070	2 574
	Other countries	341	252	127	55	899	221
	Total	9 365	3 775	8 756	3 227	13 969	2 795
2517.10	Pebbles and gravel of a kind commonly used for concrete aggregates, for road metalling or for railway or other ballast, shingle and flint, whether or not heat-treated						
	United States	3 311 008	19 283	2 526 886	15 059	2 266 769	15 171
	China	6 400	128	21 605	259	41 216	336
	India	284	62	479	15	5 430	51
	Brazil	192	27	278	32	2 115	29
	Philippines	3 271	32	649	34	3 784	24
	France	1 717	17	1 914	21	1 990	22
	Other countries	50 538	367	46 908	695	6182	76
	Total	3 373 410	19 916	2 598 719	16 115	2 327 486	15 709
2517.41	Granules, chippings and powder, of stones of heading Nos. 25.15 or 25.16, whether or not heat-treated: Of marble						
	United States	82 761	16 946	80 668	15 242	97 995	18 662
	Other countries	120	18	685	84	89	16
	Total	82 881	16 964	81 353	15 326	98 084	18 678
2517.49	Granules, chippings and powder, of stones of heading Nos. 25.15 or 25.16, whether or not heat-treated: Other						
	United States	25 530	2 180	20 840	1 638	15 971	1 487
	China	273	16	734	68	860	47
	France	315	36	345	32	922	44
	Italy	1	...	107	5	459	11
	Other countries	1 118	92	1 061	99	534	54
	Total	27 237	2 324	23 087	1 842	18 746	1 643
6801.00	Setts, curbstones and flagstones, of natural stone (except slate)						
	United States	..	645	..	722	..	551
	China	..	22	..	117	..	141
	India	..	114	..	180	..	52
	Other countries	..	122	..	39	..	8
	Total	..	903	..	1 058	..	752

**TABLE 1 (cont'd)**

		2002		2003		2004 (p)	
		(tonnes)	(\$000)	(tonnes)	(\$000)	(tonnes)	(\$000)
<b>IMPORTS (cont'd)</b>							
6802.10	Tiles, cubes and similar articles, whether or not rectangular						
	China	..	122	..	119	..	2 434
	United States	..	127	..	273	..	335
	India	..	68	..	215	..	185
	South Africa	-	-	..	22	..	50
	Italy	..	199	..	22	..	49
	Turkey	..	27	..	19	..	41
	Spain	..	129	..	26	..	18
	Other countries	..	100	..	140	..	53
	Total	..	772	..	836	..	3 165
6802.21	Other monumental or building stone and articles thereof, simply cut or sawn, with a flat or even surface: Marble, travertine and alabaster						
	Italy	..	7 271	..	8 471	..	7 214
	Spain	..	1 404	..	1 311	..	1 345
	Turkey	..	2 393	..	3 951	..	985
	China	..	96	..	217	..	492
	Other countries		1 493		2 353		1 383
	Total	..	12 657	..	16 303	..	11 419
6802.22	Other monumental or building stone and articles thereof, simply cut or sawn, with a flat or even surface: Other calcareous stone						
	United States	..	82	..	582	..	789
	Other countries	..	331	..	980	..	1 106
	Total	..	413	..	1 562	..	1 895
6802.23.00.10	Other monumental or building stone and articles thereof, simply cut or sawn, with a flat or even surface: Granite. Building stone						
	Italy	2 823	4 033	3 145	4 431	3 407	4 270
	India	1 128	1 538	1 177	1 632	2 683	2 452
	China	911	808	865	959	5 416	2 149
	Brazil	880	929	960	942	2 680	1 953
	Other countries	166	621	508	610	752	734
	Total	5 908	7 929	6 655	8 574	14 938	11 558
6802.23.00.20	Other monumental or building stone and articles thereof, simply cut or sawn, with a flat or even surface: Granite. Monumental stone						
	China	578	651	927	912	920	678
	Taiwan	-	-	-	-	307	529
	India	415	476	874	841	600	430
	United States	387	352	226	181	151	140
	Other countries	90	46	81	116	273	359
	Total	1 470	1 525	2 108	2 050	2 251	2 136
6802.23.00.90	Other monumental or building stone and articles thereof, simply cut or sawn, with a flat or even surface: Granite. Monumental stone						
	Italy	7 884	11 968	8 351	12 673	18 202	12 357
	Brazil	2 371	3 085	5 521	5 761	15 021	8 041
	India	2 010	2 877	3 550	4 696	31 835	6 117
	Taiwan	1 594	2 532	2 724	3 124	2 752	3 817
	China	1 151	1 055	1 475	1 835	9 023	3 747
	United States	200	280	275	421	1 301	1 043
	Spain	299	427	248	276	1 003	743
	South Africa	52	87	265	279	682	261
	Other countries	208	183	691	736	2161	639
	Total	15 769	22 494	23 100	29 801	81 980	36 765
6802.29	Other monumental or building stone and articles thereof, simply cut or sawn, with a flat or even surface: Other stone						
	India	..	1 350	..	811	..	1 133
	China	..	180	..	538	..	451
	United States	..	273	..	167	..	103
	Other countries	..	597	..	572	..	364
	Total	..	2 400	..	2 088	..	2 051

**TABLE 1 (cont'd)**

		2002		2003		2004 (p)	
		(tonnes)	(\$000)	(tonnes)	(\$000)	(tonnes)	(\$000)
<b>IMPORTS (cont'd)</b>							
6802.91	Other: Marble, travertine and alabaster						
	Turkey	..	1 942	..	3 870	..	13 531
	Italy	..	13 343	..	13 821	..	13 466
	China	..	3 721	..	2 998	..	4 853
	Spain	..	2 824	..	3 286	..	3 913
	Mexico	..	2 424	..	1 919	..	1 578
	Greece	..	447	..	767	..	626
	United States	..	1 035	..	715	..	611
	Other countries	..	4 006	..	3 675	..	3 863
	Total	..	29 742	..	31 051	..	42 441
6802.92	Other: Other calcareous stone						
	Portugal	..	584	..	844	..	562
	United States	..	243	..	327	..	489
	Italy	..	246	..	240	..	460
	Other countries	..	1209	..	1557	..	1620
	Total	..	2 282	..	2 968	..	3 131
6802.93.00.10	Other: Granite. Monumental or building stone						
	Italy	609	1 222	1 011	1 767	452	766
	Brazil	468	587	461	651	687	732
	United States	73	86	144	215	310	464
	India	362	788	387	696	209	353
	China	84	133	161	197	411	352
	South Africa	31	32	20	41	88	84
	Other countries	119	197	126	230	177	213
	Total	1 746	3 045	2 310	3 797	2 334	2 964
6802.93.00.20	Other: Granite. Monuments, bases and markers, finished						
	India	1 675	1 988	1 566	1 740	2 034	2 217
	China	625	775	1 335	1 246	2 016	1 898
	United States	1 193	1 859	890	1 639	1 119	1 492
	Other countries	69	62	115	200	223	345
	Total	3 562	4 684	3 907	4 825	5 392	5 952
6802.93.00.90	Other: Granite. Other						
	China	1 044	1 239	1 890	2 155	7 950	3 769
	Italy	3 161	3 945	3 995	5 256	14 437	3 525
	India	1 137	2 014	1 430	2 394	9 657	2 365
	Brazil	356	497	478	574	1 368	1 032
	United States	782	797	427	591	535	193
	Other countries	629	1 145	678	764	464	288
	Total	7 109	9 637	8 898	11 734	34 411	11 172
6802.99	Other: Other stone						
	United States	..	1 487	..	679	..	563
	China	..	409	..	600	..	512
	Other countries	..	1364	..	1123	..	1304
	Total	..	3 260	..	2 402	..	2 379
6803.00	Worked slate and articles of slate or of agglomerated slate						
	China	..	1 996	..	1 778	..	2 944
	India	..	1 785	..	2 152	..	2 635
	Brazil	..	914	..	1 369	..	1 770
	United States	..	1 803	..	1 304	..	1 444
	Other countries	..	1 489	..	1384	..	523
	Total	..	7 987	..	7 987	..	9 316
6804.10	Millstones and grindstones for milling, grinding or pulping						
	United States	..	2 519	..	2 159	..	2 451
	Other countries	..	449	..	441	..	521
	Total	..	2 968	..	2 600	..	2 972

**TABLE 1 (cont'd)**

		2002		2003		2004 (p)	
		(tonnes)	(\$000)	(tonnes)	(\$000)	(tonnes)	(\$000)
<b>IMPORTS (cont'd)</b>							
6804.23	Other millstones, grindstones, grinding wheels and the like: Of natural stone						
	United States	..	897	..	623	..	784
	Other countries	..	231	..	231	..	224
	Total	..	1 128	..	854	..	1 008
	Total imports	..	197 957	..	208 076	..	231 234

Sources: Natural Resources Canada; Statistics Canada.

– Nil; .. Not available; ... Amount too small to be expressed; (p) Preliminary.

(1) Quantity for 2004 appears to be in error; based on average value for period 1999-2003 (\$872/t), estimated quantity is 7395 t.

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

**TABLE 2. CANADA, STONE PRODUCTION BY TYPE, (1) 1990 AND 2000-2004**

	1990		2000		2001		2002		2003		2004 (p)	
	(000 t)	(\$000)	(000 t)	(\$000)	(000 t)	(\$000)						
Granite	19 524	147 048	22 054	204 833	27 005	233 463	27 127	238 116	29 306	248 386	29 676	242 423
Limestone	86 519	470 649	89 075	535 831	89 845	578 246	89 808	606 758	87 440	623 511	89 405	664 133
Marble	771	19 955	1 348	93 026	1 284	93 764	1 390	102 268	1 467	97 184	1 391	108 205
Sandstone	2 975	20 534	4 910	34 150	4 649	33 984	4 672	38 409	4 535	37 395	4 151	34 040
Shale (2)	1 566	5 169	948	14 504	1 976	17 590	1 749	18 235	1 781	17 401	2 936	21 831
Total	111 355	663 354	118 335	882 343	124 758	957 048	124 746	1 003 786	124 528	1 023 878	127 559	1 070 632

Source: Natural Resources Canada.

(p) Preliminary.

(1) Data exclude stone used in the Canadian cement, lime and clay industries. (2) May include slate.

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

**TABLE 3. CANADA, STONE PRODUCTION, 2002-04**

Item No.	2002		2003		2004 (p)	
	(000 t)	(\$000)	(000 t)	(\$000)	(000 t)	(\$000)
<b>BY PROVINCE/TERRITORY (1)</b>						
Newfoundland and Labrador	4 936	34 585	3 678	24 014	4 069	26 484
Nova Scotia	8 407	56 740	9 744	64 582	9 618	65 202
New Brunswick	4 824	28 147	5 802	34 590	5 683	32 524
Quebec	38 122	292 743	38 963	303 529	38 142	299 691
Ontario	55 945	504 246	54 622	512 297	57 093	562 869
Manitoba	3 931	18 611	3 804	18 535	3 417	17 887
Alberta	435	5 542	511	6 374	366	6 063
British Columbia	7 324	56 585	7 099	57 509	8 226	55 297
Northwest Territories	823	6 588	304	2 446	944	4 613
Total	124 746	1 003 786	124 528	1 023 876	127 559	1 070 631
<b>BY USE (2)</b>						
<b>Stone (Dimension)</b>						
Dimension stone						
Rough	453	52 265	538	59 864	..	..
Monumental and ornamental stone (n.f.)	78	6 844	90	5 872	..	..
Other (flagstone, curbstone, paving blocks, etc.)	169	21 294	142	13 680	..	..
Total dimension stone	700	80 403	769	79 417	..	..
<b>Stone (Crushed)</b>						
Crushed stone for						
Concrete aggregate	20 519	138 836	21 320	164 154	..	..
Asphalt aggregate	12 051	77 728	11 798	78 211	..	..
Road metal	43 545	263 761	41 076	263 301	..	..
Railroad ballast (includes traprock)	1 605	13 458	1 833	15 181	..	..
Other uses	37 243	228 336	38 683	235 232	..	..
Chemical and metallurgical						
Cement plants, Canada	16 104	50 095	17 968	55 936	..	..
Cement plants, foreign	459	2 015	382	1 876	..	..
Flux in iron and steel furnaces	258	2 485	282	1 449	..	..
Flux in nonferrous smelters	55	869	46	623	..	..
Glass factories	46	836	19	146	..	..
Lime plants, Canada	2 742	17 147	3 048	17 447	..	..
Lime plants, foreign	2 024	15 037	1 942	15 012	..	..
Pulp and paper mills	57	574	62	567	..	..
Sugar refineries	-	-	2	10	..	..
Other chemical uses	2 207	11 853	2 334	11 821	..	..
Miscellaneous stone						
Manufacture of artificial stone	42	194	134	626	..	..
Roofing granules	807	36 214	657	28 290	..	..
Poultry grit	199	2 316	195	2 361	..	..
Stucco dash	17	3 799	18	2 897	..	..
Terrazzo chips	7	714	10	801	..	..
Rock wool	34	435	57	814	..	..
Rubble and riprap	873	4 799	769	5 112	..	..
Other uses	895	7 268	1 172	9 277	..	..
Pulverized stone						
Whiting	46	3 963	46	4 471	..	..
Asphalt filler	144	257	141	189	..	..
Agricultural purposes and fertilizer plants	807	13 719	749	14 200	..	..
Other uses	1 387	98 137	1 425	92 202	..	..
Total crushed stone	144 172	994 844	146 169	1 022 206	..	..
Total all stone	144 872	1 075 247	146 939	1 101 623	..	..

Source: Natural Resources Canada.

.. Not available; n.f. Not finished or dressed; (p) Preliminary.

(1) Data exclude stone used in the Canadian cement, lime and clay industries. (2) Data include stone used in the Canadian cement, lime and clay industries.

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

**TABLE 4. CANADA, LIMESTONE PRODUCTION, 2002-04**

	2002 (000 t)	2003 (\$000)	2003 (000 t)	2003 (\$000)	2004 (p) (000 t)	2004 (p) (\$000)
<b>BY PROVINCE/TERRITORY (1)</b>						
Newfoundland and Labrador	2 388	18 184	1 994	14 480	2 044	15 753
Nova Scotia	201	x	217	x	198	x
New Brunswick	683	x	572	x	545	x
Quebec	26 857	170 006	26 825	174 133	26 631	180 521
Ontario	51 935	358 542	51 075	380 672	53 690	420 337
Manitoba	3 468	15 381	3 316	15 507	2 921	14 510
Alberta	418	3 034	489	3 308	340	2 235
British Columbia	3 661	29 524	2 863	25 737	2 995	21 333
Northwest Territories	198	x	88	x	41	x
Total	89 808	606 758	87 440	623 511	89 405	664 133
<b>BY USE (2)</b>						
<b>Stone (Dimension)</b>						
Dimension stone						
Rough	142	6 357	205	10 805	..	..
Monumental and ornamental stone (n.f.)	41	746	59	939	..	..
Other (flagstone, curbstone, paving blocks, etc.)	125	10 443	66	7 193	..	..
Total dimension stone	307	17 546	330	18 937	..	..
<b>Stone (Crushed)</b>						
Crushed stone for						
Concrete aggregate	15 870	106 093	16 198	127 834	..	..
Asphalt aggregate	6 168	37 482	5 715	37 362	..	..
Road metal	34 324	215 212	31 775	209 892	..	..
Railroad ballast (includes traprock)	58	406	52	369	..	..
Other uses	26 880	163 042	27 288	162 909	..	..
Chemical and metallurgical						
Cement plants, Canada	15 519	47 751	17 306	53 105	..	..
Cement plants, foreign	431	1 896	362	1 789	..	..
Flux in iron and steel furnaces	258	2 485	282	1 449	..	..
Flux in nonferrous smelters	55	869	46	623	..	..
Glass factories	45	808	18	117	..	..
Lime plants, Canada	2 742	17 147	3 048	17 447	..	..
Lime plants, foreign	2 024	15 037	1 942	15 012	..	..
Pulp and paper mills	57	574	62	567	..	..
Sugar refineries	—	—	2	10	..	..
Other chemical uses	927	7 634	939	7 458	..	..
Miscellaneous stone						
Manufacture of artificial stone	—	—	—	60	..	..
Roofing granules	105	862	103	819	..	..
Poultry grit	198	2 213	194	2 243	..	..
Stucco dash	16	3 700	17	2 778	..	..
Rock wool	2	17	2	14	..	..
Rubble and riprap	466	2 577	367	3 233	..	..
Other uses	500	4 842	617	5 799	..	..
Pulverized stone						
Whiting	46	3 963	46	4 471	..	..
Asphalt filler	21	189	15	86	..	..
Agricultural purposes and fertilizer plants	736	10 654	674	9 686	..	..
Other uses	315	8 658	393	9 993	..	..
Total crushed stone	107 762	654 110	107 464	675 127	..	..
Total all stone	108 069	671 656	107 794	694 064	..	..

Source: Natural Resources Canada.

— Nil; .. Not available; n.f. Not finished or dressed; (p) Preliminary; x Confidential.

(1) Data exclude stone used in the Canadian cement and lime industries. (2) Data include stone used in the Canadian cement and lime industries.

Notes: Includes dolomite/dolostone. Numbers may not add to totals due to rounding.

**TABLE 5. CANADA, MARBLE PRODUCTION, (1) 2002-04**

	2002 (000 t)	2002 (\$000)	2003 (000 t)	2003 (\$000)	2004 (p) (000 t)	2004 (p) (\$000)
<b>BY PROVINCE</b>						
Quebec	630	x	685	x	490	x
Ontario	760	x	781	x	900	x
British Columbia	—	—	1	x	1	x
Total	1 390	102 268	1 467	97 184	1 391	108 205
<b>BY USE</b>						
<b>Stone (Dimension)</b>						
Dimension stone						
Rough	12	612	16	1 100	..	..
Other (flagstone, curbstone, paving, blocks, etc.)	11	2 307	11	2 034	..	..
Total dimension stone	23	2 919	27	3 134	..	..
<b>Stone (Crushed)</b>						
Crushed stone for						
Concrete aggregate	139	1 744	109	1 319	..	..
Asphalt aggregate	19	138	50	79	..	..
Road metal	40	195	145	833	..	..
Other uses	126	2 977	109	2 935	..	..
Chemical process stone						
Glass factories	1	27	1	29	..	..
Miscellaneous stone						
Manufacture of artificial stone	2	96	3	240	..	..
Roofing granules	66	1 772	52	1 350	..	..
Poultry grit	—	7	—	8	..	..
Stucco dash	—	80	1	93	..	..
Terrazzo chips	7	714	10	801	..	..
Other uses	6	337	8	653	..	..
Pulverized stone						
Agricultural purposes and fertilizer plants	71	3 064	75	4 513	..	..
Other uses	889	88 199	878	81 197	..	..
Total crushed stone	1 367	99 349	1 440	94 050	..	..
Total all stone	1 390	102 268	1 467	97 184	..	..

Source: Natural Resources Canada.

— Nil; .. Not available; (p) Preliminary; x Confidential.

(1) Marble refers to a commercial definition that may also include limestone, travertine and greenstone (serpentinite or amphibole).

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

**TABLE 6. CANADA, GRANITE PRODUCTION, 2002-04**

	2002 (000 t)	2002 (\$000)	2003 (000 t)	2003 (\$000)	2004 (p) (000 t)	2004 (p) (\$000)
<b>BY PROVINCE/TERRITORY</b>						
Newfoundland and Labrador	1 521	9 274	798	5 665	1 334	7 805
Nova Scotia	6 760	44 909	8 070	52 412	7 863	51 465
New Brunswick	3 794	20 015	4 921	27 162	4 397	22 336
Quebec	7 295	72 310	8 078	77 649	7 558	73 426
Ontario	3 224	x	2 744	x	2 477	x
Manitoba	305	x	313	x	316	x
British Columbia	3 617	x	4 199	x	5 194	x
Northwest Territories	612	x	185	x	538	x
Total	27 127	238 116	29 306	248 386	29 676	242 423
<b>BY USE</b>						
<b>Stone (Dimension)</b>						
Dimension stone						
Rough	204	30 632	215	30 177	..	..
Monumental and ornamental stone (n.f.)	37	6 019	31	4 934	..	..
Other (flagstone, curbstone, paving blocks, etc.)	3	788	20	1 414	..	..
Total dimension stone	244	37 440	265	36 525	..	..
<b>Stone (Crushed)</b>						
Crushed stone for						
Concrete aggregate	4 247	29 357	4 791	33 384	..	..
Asphalt aggregate	5 211	35 146	5 568	37 494	..	..
Road metal	6 883	37 440	6 929	41 663	..	..
Railroad ballast (includes traprock)	1 426	12 412	1 741	14 611	..	..
Other uses	7 781	48 742	8 635	53 977	..	..
Chemical process stone						
Cement plants, Canada	27	189	—	—	..	..
Miscellaneous stone						
Roofing granules	626	33 456	503	26 121	..	..
Poultry grit	1	97	1	110	..	..
Stucco dash	—	19	—	26	..	..
Rock wool	32	418	55	800	..	..
Rubble and riprap	295	1 914	249	1 114	..	..
Other uses	240	1 505	434	2 387	..	..
Pulverized stone						
Asphalt filler	123	68	126	103	..	..
Other uses	19	103	10	73	..	..
Total crushed stone	26 910	200 866	29 041	211 862	..	..
Total all stone	27 154	238 305	29 306	248 386	..	..

Source: Natural Resources Canada.

— Nil; .. Not available; n.f. Not finished or dressed; (p) Preliminary; x Confidential.

Notes: Numbers may not add to totals due to rounding. Data include shipments by producers regardless of industrial classification. Granite may include other igneous rocks (e.g., basaltic roofing granules).

**TABLE 7. CANADA, SANDSTONE PRODUCTION, 2002-04**

	2002 (000 t)	2002 (\$000)	2003 (000 t)	2003 (\$000)	2004 (p) (000 t)	2004 (p) (\$000)
<b>BY PROVINCE (1)</b>						
Newfoundland and Labrador	955	4 297	787	3 499	587	2 501
Nova Scotia	1 326	8 083	1 330	7 651	1 439	9 435
New Brunswick	61	x	63	x	107	x
Quebec	2 311	23 466	2 338	23 568	1 997	18 462
Ontario	17	2 251	15	2 140	19	2 555
Alberta	1	x	1	x	2	x
British Columbia	1	x	1	x	1	x
Total	4 672	38 409	4 535	37 395	4 151	34 040
<b>BY USE (2)</b>						
<b>Stone (Dimension)</b>						
Dimension stone						
Rough	71	10 846	66	10 281	..	..
Monumental and ornamental stone (n.f.)	1	78	—	—	..	..
Other (flagstone, curbstone, paving blocks, etc.)	10	685	32	942	..	..
Total dimension stone	81	11 609	99	11 223	..	..
<b>Stone (Crushed)</b>						
Crushed stone for						
Concrete aggregate	263	1 642	213	1 575	..	..
Asphalt aggregate	653	4 962	465	3 276	..	..
Road metal	1 238	6 401	1 188	6 495	..	..
Railroad ballast (includes traprock)	57	343	11	69	..	..
Other uses	1 984	11 356	2 100	12 604	..	..
Chemical process stone						
Cement plants, Canada	109	559	236	1 284	..	..
Miscellaneous stone						
Manufacture of artificial stone	39	98	130	326	..	..
Roofing granules	10	124	—	—	..	..
Rubble and riprap	106	299	151	759	..	..
Other uses	77	397	32	129	..	..
Pulverized stone						
Other uses	164	1 178	145	940	..	..
Total crushed stone	4 700	27 359	4 672	27 456	..	..
Total all stone	4 781	38 968	4 771	38 679	..	..

Source: Natural Resources Canada.

— Nil; .. Not available; n.f. Not finished or dressed; (p) Preliminary; x Confidential.

(1) Data exclude stone used in the Canadian cement industry. (2) Data include stone used in the Canadian cement industry.

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

**TABLE 8. CANADA, SHALE PRODUCTION, (1) 2002-04**

	2002 (000 t)	2002 (\$000)	2003 (000 t)	2003 (\$000)	2004 (p) (000 t)	2004 (p) (\$000)
<b>BY PROVINCE/TERRITORY (2)</b>						
Newfoundland and Labrador	73	2 830	99	369	104	425
Nova Scotia	120	x	127	x	118	x
New Brunswick	286	x	246	x	635	x
Quebec	1 029	x	1 037	x	1 466	x
Ontario	8	1 434	8	1 197	7	826
Manitoba	158	x	176	x	181	x
Alberta	16	x	20	x	24	x
British Columbia	46	x	36	x	36	x
Northwest Territories	13	x	32	x	365	x
Total	1 749	18 236	1 781	17 401	2 936	21 831
<b>BY USE (3)</b>						
<b>Stone (Dimension)</b>						
Dimension stone						
Rough	25	3 818	36	7 500	..	..
Other (flagstone, curbstone, paving blocks, etc.)	21	7 071	13	2 098	..	..
Total dimension stone	46	10 889	49	9 598	..	..
<b>Stone (Crushed)</b>						
Crushed stone for						
Concrete aggregate	—	—	9	43	..	..
Road metal	1 061	4 514	1 039	4 418	..	..
Railroad ballast (includes traprock)	65	297	29	133	..	..
Other uses	472	2 219	552	2 808	..	..
Chemical process stone						
Cement plants, Canada	449	1 596	425	1 547	..	..
Cement plants, foreign	28	119	20	87	..	..
Other chemical uses	1 280	4 219	1 395	4 362	..	..
Miscellaneous stone						
Rubble and riprap	6	10	3	6	..	..
Other uses	72	188	80	309	..	..
Total crushed stone	3 432	13 161	3 552	13 712	..	..
Total all stone	3 478	24 050	3 601	23 310	..	..

Source: Natural Resources Canada.

— Nil; .. Not available; (p) Preliminary; x Confidential.

(1) May include slate. (2) Data exclude stone used in the Canadian cement and clay industries. (3) Data include stone used in the Canadian cement and clay industries.

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

**TABLE 9. CANADA, ROUGH GRANITE, SUMMARY OF PRODUCTION AND TRADE, 1988-2003**

	Quantity Value			
		Production (1)	Imports (2)	Exports (2,3)
1988	t \$ millions	153 110 24.4	46 283 11.2	234 738 16.2
1989	t \$ millions	161 859 24.8	52 338 11.7	289 184 17.3
1990	t \$ millions	165 860 33.6	46 146 11.2	363 258 19.8
1991	t \$ millions	122 108 24.1	35 036 8.5	99 622 22.6
1992	t \$ millions	127 025 20.3	44 950 10.5	95 909 21.4
1993	t \$ millions	133 730 18.1	41 481 10.8	136 841 20.3
1994	t \$ millions	112 888 16.9	35 618 10.1	116 164 20.0
1995	t \$ millions	157 780 19.6	41 098 11.4	94 200 17.9
1996	t \$ millions	163 153 24.6	53 494 15.3	102 037 20.9
1997	t \$ millions	160 811 24.5	54 640 16.0	116 142 16.4
1998	t \$ millions	162 167 27.3	75 187 23.0	69 937 15.0
1999	t \$ millions	192 944 32.8	68 769 23.1	73 686 16.5
2000	t \$ millions	237 644 40.5	66 040 21.9	95 681 19.4
2001	t \$ millions	239 883 41.6	85 469 27.9	110 828 20.0
2002	t \$ millions	243 587 37.4	84 269 29.0	126 482 16.6
2003	t \$ millions	265 482 36.5	83 671 27.4	317 657 11.7
2004 (p)	t \$ millions	.. ..	257 174 27.5	133 524 19.5

Sources: Natural Resources Canada; Statistics Canada.

.. Not available; (p) Preliminary.

(1) Includes rough granite for construction, monumental/ornamental and other uses, as per Table 6. (2) Includes codes 2516.11 (roughly trimmed block) and 2516.12 (cut block by sawing or otherwise). Some re-exports to the United States may also be involved. (3) All export numbers were revised to reflect the conversion from cubic metres to tonnes.

Editions of the *Canadian Minerals Yearbook* prior to 2003 did not reflect that conversion.  
Note: A factor of 2.7 was used for converting cubic metres to tonnes.