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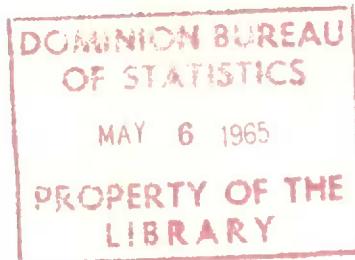
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ANNUAL

c. 2



CANADA



## STONE QUARRIES

(Formerly The Stone Quarrying Industry)

1962

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## **SYMBOLS**

The following standard symbols are used in Dominion Bureau of Statistics publications:

- .. figures not available.
- ... figures not appropriate or not applicable.
- nil or zero.
- amount too small to be expressed.
- p preliminary figures.
- r revised figures.

## EXPLANATORY NOTES

### Establishment

The reporting unit in the Census of Mines, Quarries and Oil Wells is the **establishment**. Beginning with the 1961 Census, the establishment is defined as follows:

The smallest unit which is a separate operating entity capable of reporting all the following:

- Materials and supplies used,
- Goods purchased for resale as such,
- Fuel and power consumed,
- Number of employees and their pay,
- Inventories,
- Shipments or sales.

The establishment is to be distinguished from smaller subdivisions or departments which do not have records which permit them to report all items required of an establishment. Prior to 1961, some establishments were required to submit two or more separate reports when they were engaged in operations which were classifiable to different industries. Beginning with 1961, separate reports for such operations will be required only in cases where accounting records can provide all the elements of principal statistics enumerated above. Special reporting arrangements were made with respondents when the acceptance of combined reports would have

seriously affected the statistics for particular industries or areas. Where continuity of industry statistics was affected by this change in reporting procedures, adjustments to the data were made back to 1957 in order to maintain comparability of the series for recent years.

A mining establishment is typically a mine, mine/mill, quarry, pit or bog principally engaged in mining operations. Prior to 1961, the Census of Mines, Quarries and Oil Wells attempted to cover the mining activities of all establishments, whether or not they were principally engaged in mining operations. Beginning with the 1961 Census, establishments (accounting entities) which are not primarily engaged in mining are no longer included as mining establishments in the basic industry statistics. Again adjustments to the industry statistics were made to reflect the removal of such reporting units for the period 1957-1960. These reporting units are now listed as establishments in other Bureau industry surveys, such as Wholesale Trade, Construction, etc. In order, however, to maintain complete coverage of certain commodity items produced mainly in mining establishments, many non-mining establishments are now surveyed for commodity information only and the latter are included in the appropriate tables of industry reports.

# STONE QUARRIES

(Formerly The Stone Quarrying Industry)

1962

This report includes statistics for industry 083—Stone Quarries of the Standard Industrial Classification Manual, Catalogue No. 12-501.

The principal statistics have been divided into Tables 1A. and 1B. Data in Table 1A. were compiled on the basis of the Industrial Classification in use prior to 1960. Statistics for the years 1957 to 1961 have been revised on the basis of the Revised Standard Industrial Classification and New Establishment Concept. These figures are shown in Table 1B.

The firms classified to this industry made shipments which were valued at \$47,812,337 in 1962. The average number of employees was 3,197 to whom \$12,199,056 were paid as salaries and wages. Fuel cost \$1,660,586 and 90,046,852 kwh.

of electricity were purchased for \$1,368,383. Process supplies cost \$4,114,676.

Commodity data are shown in Table 3 and subsequent tables. These tables include information on stone shipped by firms which are classified to other industries. In 1962 the shipments of stone amounted to 50,553,485 short tons compared to 48,938,804 tons in the preceding year. Stone used in Canadian plants to manufacture cement and lime is not included in these figures. Stone exported to foreign cement and lime plants is included. Shipments of granite and other igneous rocks amounted to 5,386,880 tons valued at \$13,942,156. The sedimentary rocks included 41,551,585 tons of limestone valued at \$50,315,116; 71,888 tons of marble worth \$707,724; 3,492,071 tons of sandstone valued at \$3,735,957; 45,686 tons of shale valued at \$149,684 and 5,375 tons of slate worth \$15,721.

**TABLE 1 A. Principal Statistics for the Stone Quarrying Industry, Significant Years, 1921-1959**  
Basis: Standard Industrial Classification in use prior to 1960

Year	Quarries, pits or plants	Employees	Salaries and wages	Cost of fuel and electricity at works	Cost of process supplies at works	Gross selling value of products (f.o.b. works)	Net value of production <sup>1</sup>
1921	145	2,204	2,017,272	301,810	..	6,388,346	..
1929	268	5,681	5,459,761	759,418	..	12,066,532	..
1931	329	4,198	4,470,699	625,673	..	11,075,184	..
1933	317	1,885	1,250,776	283,454	..	3,000,326	..
1937	555	2,898	2,576,344	472,006	613,542	6,939,360	5,853,812
1939	573	3,076	2,816,578	456,966	624,918	6,475,696	5,393,812
1941	539	2,758	2,896,100	642,085	641,098	8,000,684	6,717,501
1944	466	2,164	3,154,689	671,056	826,824	7,159,177	5,681,297
1946	486	2,720	3,970,404	834,824	856,774	11,185,711	9,494,113
1949	549	3,728	7,615,572	1,371,377	2,028,226	20,528,073	17,128,470
1951	536	3,861	9,218,694	1,915,948	2,761,374	28,649,768	23,972,446
1954	557	4,146	12,380,604	2,307,791	3,354,439	39,857,134	34,194,904
1957	583	4,331	14,552,950	2,949,437	4,201,890	59,197,662	52,046,335
1958	583	4,067	14,014,488	2,945,744	5,164,872	55,582,929	47,472,513
1959	613	3,873	13,936,905	3,090,530	5,129,431	60,958,784	52,738,823

<sup>1</sup> Gross production less cost of process supplies, etc., fuel and electricity.

**TABLE 1 B. Principal Statistics for the Stone Quarrying, 1957-62**  
Basis: Revised Standard Industrial Classification and New Establishment Concept

Year	Establish- ments	Em- ployees	Salaries and wages	Cost of fuel and electricity	Cost of process supplies at works	Gross value of production (including containers)	Net production <sup>1</sup>
1957	192	3,460	10,946,513	2,285,378	3,192,856	36,617,554	30,979,780
1958	200	3,300	11,263,223	2,595,298	4,311,123	36,492,135	29,492,306
1959	202	3,184	11,364,441	2,562,709	4,140,456	40,722,771	33,787,664
1960	207	3,105	10,988,822	2,498,290	3,653,908	39,443,050	32,986,408
1961	228	3,395	12,823,473	3,028,969	4,114,676	44,708,945	37,129,065
1962	207	3,197	12,199,056	3,292,986	4,589,768	47,812,337	39,486,834

<sup>1</sup> Gross production less cost of process supplies, etc., fuel and electricity.

TABLE 2. Principal Statistics of the Stone Quarries, by Provinces, 1961 and 1962

Province	Establishments	Employees	Salaries and wages	Cost of fuel and electricity at works	Cost of process supplies at works	Gross selling value of products (f.o.b. works)	Net value of production <sup>1</sup>
1961							
number							
Newfoundland	2	58	223,765	26,393	40,469	558,797	491,935
Prince Edward Island	—	—	—	—	—	—	—
Nova Scotia	16	164	606,349	108,405	289,486	1,574,638	1,176,747
New Brunswick	11	119	369,022	83,140	119,380	1,498,896	1,296,376
Quebec	125	2,008	7,100,592	1,594,651	2,957,945	26,655,255	22,102,659
Ontario	56	889	3,697,743	1,068,531	1,065,792	12,641,880	10,507,557
Manitoba	3	72	227,342	23,980	6,430	540,874	510,464
Saskatchewan	—	—	—	—	—	—	—
Alberta	3	3	991	—	310	5,383	5,073
British Columbia	12	82	397,669	123,869	71,099	1,233,222	1,038,254
Canada	228	3,395	12,623,473	3,028,969	4,550,911	44,708,945	37,129,065
1962							
Newfoundland	2	62	171,612	21,195	27,440	442,166	393,531
Prince Edward Island	—	—	—	—	—	—	—
Nova Scotia	12	104	352,461	63,886	48,562	863,194	723,210
New Brunswick	7	101	302,874	63,370	72,895	1,346,590	1,146,400
Quebec	104	1,844	6,775,248	1,781,635	2,799,674	27,884,983	23,064,423
Ontario	62	903	3,822,462	1,247,830	1,493,351	14,875,189	12,034,083
Manitoba	3	75	254,910	38,337	15,250	751,166	697,579
Saskatchewan	—	—	—	—	—	—	—
Alberta	3	6	2,100	291	156	2,896	2,337
British Columbia	14	102	517,389	76,442	132,440	1,646,153	1,425,271
Canada	207	3,197	12,199,056	3,292,986	4,589,768	47,812,337	39,486,834

<sup>1</sup> Gross production less cost of process supplies, etc., fuel and electricity.TABLE 3. Producers' Shipments<sup>1</sup> of Stone from Canadian Quarries, by Kinds and by Provinces, 1961 and 1962

Province	Granite <sup>2</sup>	Limestone <sup>3</sup>	Marble	Sandstone	Shale	Slate	Total
1961							
Newfoundland	ton \$ 788 \$ 3,840	322,032 630,123	— —	— 225,000	— —	— —	322,820 633,963
Prince Edward Island	ton \$ —	— —	— —	225,000 225,000	— —	— —	225,000 225,000
Nova Scotia	ton \$ 861,265 \$ 1,219,234	75,264 207,327	— —	85,351 231,129	— —	— —	1,021,880 1,657,690
New Brunswick	ton \$ 416,290 \$ 716,202	343,284 731,465	3,490 62,000	2,194,822 1,646,177	— —	— —	2,957,886 3,155,844
Quebec	ton \$ 2,734,901 \$ 7,846,684	18,976,332 23,308,817	30,224 404,321	876,000 932,531	29,303 31,176	1,250 1,750	22,648,010 32,525,279
Ontario	ton \$ 1,647,655 \$ 3,515,601	16,654,878 19,242,067	33,929 309,628	25,381 425,796	— —	— —	18,361,843 23,493,092
Manitoba	ton \$ 581 \$ 20,083	594,340 985,624	— —	— —	— —	— —	594,921 1,005,707
Alberta	ton \$ —	81,483	— —	20 100	15,250 53,750	— —	96,753 337,150
British Columbia	ton \$ 694,254 \$ 840,562	1,105,162 1,794,887	— —	819,725 618,044	90,550 280,450	— —	2,709,691 3,533,943
Canada	ton \$ 6,355,734 \$ 14,162,206	38,152,775 47,183,610	67,643 775,949	4,226,299 4,078,777	135,103 365,376	1,250 1,750	48,938,804 66,567,668
1962							
Newfoundland	ton \$ 900 \$ 2,925	226,807 442,166	— —	— —	— —	— —	227,707 445,091
Prince Edward Island	ton \$ —	— —	— —	225,000 225,000	— —	— —	225,000 225,000
Nova Scotia	ton \$ 460,763 \$ 695,129	62,554 170,883	— —	25,517 264,696	— —	— —	548,834 1,330,708
New Brunswick	ton \$ 413,947 \$ 885,395	867,081 939,619	— —	1,669,876 1,252,409	— —	— —	2,950,906 3,077,423
Quebec	ton \$ 2,348,106 \$ 6,690,811	20,718,086 25,037,316	36,962 419,244	1,069,862 1,095,407	— —	— —	24,173,016 33,242,778
Ontario	ton \$ 1,448,916 \$ 4,318,067	17,279,197 19,892,022	34,926 288,480	34,009 544,981	— —	— —	18,797,648 25,043,550
Manitoba	ton \$ 31,063 \$ 281,992	912,702 1,306,682	— —	— —	— —	— —	943,765 1,588,674
Alberta	ton \$ —	99,158	— —	251 2,798	6,286 20,744	— —	105,695 368,608
British Columbia	ton \$ 683,185 \$ 867,837	1,385,400 2,181,362	— —	467,554 350,666	39,400 128,940	5,375 15,721	2,580,914 3,544,526
Canada	ton \$ 5,386,880 \$ 13,942,156	41,551,585 50,315,116	71,888 707,724	3,492,071 3,735,957	45,686 149,684	5,375 15,721	50,553,485 68,866,358

<sup>1</sup> Includes stone shipped by firms classified to other industries; i.e., construction, transportation, etc.<sup>2</sup> All igneous rocks included.<sup>3</sup> Includes dolomite, also marl for agricultural purposes.

Note: Not included in the above limestone statistics are 8,145,376 tons of limestone consumed in the Canadian cement industry in 1961 and 9,294,196 tons in 1962. Also, the limestone used in the Canadian lime industry is not included; it is estimated that approximately 2,592,831 tons of limestone were burned in the manufacture of lime in 1961 and 2,668,480 tons in 1962.

TABLE 4. Producers' Shipments<sup>1</sup> of Stone<sup>2</sup> from Canadian Quarries, by Provinces, showing Purposes for which Used,  
1961 and 1962

For use as follows	Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada
1961										
Building stone:										
Rough .....	ton	—	—	150	1,064	16,796	41,309	3,580	—	4,000
\$	—	—	—	246	5,569	275,497	606,523	48,922	—	10,900
Dressed .....	ton	—	—	2,867	—	33,725	27,096	5,807	—	50
\$	—	—	—	148,338	—	2,904,835	676,360	483,749	—	10,450
Monumental and ornamental stone:										
Rough .....	ton	—	—	45	700	12,795	—	530	—	1,200
\$	—	—	—	6,000	26,750	357,025	—	6,242	—	3,950
Dressed .....	ton	—	—	339	350	8,289	19	—	—	8,997
\$	—	—	—	95,449	33,715	852,342	5,648	—	—	987,154
Flagstone .....	ton	—	—	15	—	1,447	11,071	—	31	—
\$	—	—	—	519	—	7,275	105,875	—	265	—
Curbstone .....	ton	—	—	—	—	756	—	—	—	756
\$	—	—	—	—	—	20,056	—	—	—	20,056
Paving blocks .....	ton	—	—	—	—	425	142	—	—	567
\$	—	—	—	—	—	6,640	8,390	—	—	13,030
Chemical and metallurgical:										
Cement plants, in Canada .....	ton	—	—	—	—	—	—	273,176	—	273,176
\$	—	—	—	—	—	—	—	194,000	—	194,000
Cement plants, foreign .....	ton	—	—	—	—	—	—	—	—	136,311
\$	—	—	—	—	—	—	—	—	—	111,419
Lining open-hearth furnaces .....	ton	51,781	—	—	—	—	80,401	1,473	—	—
\$	77,671	—	—	—	—	—	99,501	3,962	—	—
Flux in iron and steel furnaces .....	ton	195,796	—	4,550	242	727	1,044,349	4,286	2,719	4,222
\$	293,694	—	—	11,375	1,307	814	1,142,247	11,995	6,071	11,620
Flux in non-ferrous smelters..	ton	—	—	—	—	4,509	99,854	—	—	8,244
\$	—	—	—	—	—	6,433	101,479	—	—	7,885
Glass factories .....	ton	—	—	—	—	1,865	39,116	—	9,282	—
\$	—	—	—	—	—	5,935	135,857	—	18,564	—
Pulp and paper mills .....	ton	38,792	—	6,463	7,715	187,838	21,160	9,529	9,763	331,095
\$	187,432	—	—	24,235	40,036	570,728	69,061	27,634	20,782	704,687
Sugar refineries .....	ton	—	—	—	—	—	—	—	32,727	2,897
\$	—	—	—	—	—	—	—	—	65,454	35,624
Other chemical uses .....	ton	—	—	—	—	787	244,683	—	—	29,282
\$	—	—	—	—	—	787	229,911	—	—	46,975
Pulverized stone:										
Whiting (substitute) .....	ton	—	—	—	—	10,805	—	—	—	3,496
\$	—	—	—	—	—	129,663	—	—	—	48,916
Asphalt filler .....	ton	—	—	27,000	1,143	86,287	61,478	46,209	4,823	2,000
\$	—	—	—	54,000	9,144	194,540	125,144	25,322	24,115	12,000
Dusting coal mines .....	ton	—	—	—	—	—	—	—	—	286
\$	—	—	—	—	—	—	—	—	—	58
Agricultural purposes and fer-										
fertilizer plants .....	ton	—	—	62,591	82,395	967,528	67,583	5,339	1,122	47,480
\$	—	—	—	169,642	317,308	2,300,082	241,384	7,547	5,610	220,697
Other uses .....	ton	—	—	—	—	43	32,476	189	15,453	1,750
\$	—	—	—	—	—	182	171,608	31	133,591	17,650
Crushed stone for manufacture										
of artificial stone .....	ton	—	—	—	400	4,917	5,541	327	—	—
\$	—	—	—	—	7,800	21,628	58,340	500	—	—
Roofing granules .....	ton	—	—	—	—	—	90,765	—	—	90,765
\$	—	—	—	—	—	—	166,100	—	—	166,100
Poultry grit .....	ton	—	—	—	4,021	5,105	10,638	—	596	1,000
\$	—	—	—	—	54,924	20,472	85,454	—	1,136	88,000
Stucco dash .....	ton	—	—	—	—	30	3,906	—	—	9,047
\$	—	—	—	—	—	290	55,329	—	—	135,705
Terrazzo chips .....	ton	—	—	—	690	13,311	10,090	—	—	24,091
\$	—	—	—	—	14,000	128,940	184,871	—	—	307,811
Rock wool .....	ton	—	—	—	—	—	—	—	367	1,720
\$	—	—	—	—	—	—	—	—	1,468	7,568
Rubble and riprap .....	ton	35,663	—	83,297	203,966	1,060,493	579,500	10,495	4,334	753,973
\$	71,326	—	—	118,975	292,392	1,095,967	808,231	8,006	4,914	634,119
Crushed stone:										
Concrete aggregate .....	ton	—	—	189,751	167,079	9,063,739	1,899,780	55,453	15,000	104,305
\$	—	—	—	158,730	220,242	11,478,789	2,119,292	64,825	50,000	285,243
Road metal .....	ton	788	225,000	416,160	2,468,121	7,677,183	13,603,770	178,528	—	376,876
\$	3,840	225,000	636,075	2,132,657	8,030,414	15,935,929	122,970	—	—	24,966,426
Railroad ballast .....	ton	—	—	228,652	—	695,775	168,465	—	—	781,786
\$	—	—	—	234,106	—	964,400	166,238	—	—	676,875
Other uses .....	ton	—	—	—	—	2,792,835	218,651	—	250	108,899
\$	—	—	—	—	—	3,151,505	216,320	—	3,750	91,196
Totals .....	ton	322,820	225,000	1,021,880	2,957,886	22,648,010	18,361,843	594,921	96,753	2,709,691
\$	633,963	225,000	1,657,690	3,155,844	32,525,279	23,493,092	1,005,707	337,150	3,533,943	48,938,604
Per cent of total .....	quan.	0.66	0.46	2.09	6.04	46.28	37.52	1.22	0.20	5.53
	\$	0.95	0.34	2.49	4.74	48.86	35.29	1.51	0.51	5.31
										100.00
										100.00

See footnotes at end of table.

## MINERAL STATISTICS

TABLE 4. Producers Shipments<sup>1</sup> of Stone<sup>2</sup> from Canadian Quarries, by Provinces, showing Purposes for which Used,  
1961 and 1962 — Concluded

For use as follows	Newfoundland	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada
1962										
Building stone:										
Rough .....	ton	—	—	229	818	14,719	38,653	1,359	76	471
	\$	—	—	6,470	4,849	297,099	615,923	38,738	1,447	13,325
Dressed .....	ton	—	—	14,872	10	31,922	11,076	6,143	—	64,023
	\$	—	—	308,660	3,000	2,841,641	260,725	463,089	—	3,877,115
Monumental and ornamental stone:										
Rough .....	ton	—	—	—	799	3,372	84	6,476	—	74
	\$	—	—	—	40,000	134,143	299	249,293	—	1,560
Dressed .....	ton	—	—	292	13	6,475	1	—	—	6,781
	\$	—	—	98,091	13,000	488,187	175	—	—	599,453
Flagstone .....	ton	—	—	19	—	1,971	13,478	—	56	15,524
	\$	—	—	515	—	18,443	130,492	—	1,055	150,505
Curbstone .....	ton	—	—	—	—	1,382	98	—	—	1,480
	\$	—	—	—	—	29,928	1,649	—	—	31,577
Paving blocks .....	ton	—	—	—	—	25	—	—	—	25
	\$	—	—	—	—	1,200	—	—	—	1,200
Chemical and metallurgical:										
Cement plants, in Canada .....	ton	—	—	—	—	—	271,221	—	—	271,221
	\$	—	—	—	—	—	190,000	—	—	190,000
Cement plants, foreign .....	ton	—	—	—	—	—	—	—	245,168	245,168
	\$	—	—	—	—	—	—	—	208,199	208,199
Lining open-hearth furnaces .....	ton	41,241	—	—	—	85,008	1,161	—	—	127,410
	\$	61,861	—	—	—	106,260	3,060	—	—	171,181
Flux in iron and steel furnaces .....	ton	163,713	—	10,133	192	1,839	939,740	2,962	6,873	17,527
	\$	245,569	—	25,332	1,149	3,261	1,002,786	8,290	14,381	63,340
Flux in non-ferrous smelters .....	ton	—	—	—	—	2,455	96,059	—	—	8,603
	\$	—	—	—	—	2,838	100,149	—	—	107,117
Glass factories .....	ton	—	—	—	—	1,937	50,983	—	11,896	64,816
	\$	—	—	—	—	10,869	181,781	—	23,792	216,442
Lime kilns, foreign .....	ton	—	—	—	—	—	—	—	—	11,512
	\$	—	—	—	—	—	—	—	—	26,908
Pulp and paper mills .....	ton	21,853	—	5,867	7,712	170,289	38,441	5,844	11,945	192,469
	\$	134,736	—	22,002	47,259	522,474	89,765	16,947	25,484	539,847
Sugar refineries .....	ton	—	—	—	44	—	—	—	42,409	42,453
	\$	—	—	—	396	—	—	—	84,818	85,214
Other chemical uses .....	ton	—	—	—	—	25,152	478,047	3,869	—	35,647
	\$	—	—	—	—	32,417	481,108	19,345	—	542,715
Pulverized stone:										
Whiting (substitute) .....	ton	—	—	—	—	12,563	—	—	—	793
	\$	—	—	—	—	150,750	—	—	—	13,356
Asphalt filler .....	ton	—	—	23,400	983	109,628	123,351	54,744	3,427	11,660
	\$	—	—	46,800	7,864	243,820	175,733	67,426	20,562	162,410
Dusting coal mines .....	ton	—	—	—	—	—	—	—	350	1,230
	\$	—	—	—	—	—	—	—	2,100	316,763
Agricultural purposes and fertilizer plants .....	ton	—	—	46,554	81,875	963,711	60,086	—	1,658	567,205
	\$	—	—	123,549	327,079	2,264,769	226,626	—	9,948	3,201,782
Other uses .....	ton	—	—	—	—	50	56,633	667	19,690	10,778
	\$	—	—	—	—	225	285,983	111	156,987	87,818
Crushed stone for manufacture of artificial stone .....	ton	—	—	—	—	8,119	6,412	21	—	25,403
	\$	—	—	—	—	38,446	62,158	33	—	488,709
Roofing granules .....	ton	—	—	—	—	2,900	115,442	—	—	14,552
	\$	—	—	—	—	4,380	1,290,622	—	—	100,637
Poultry grit .....	ton	—	—	—	1,044	6,615	15,914	—	567	5,375
	\$	—	—	—	5,274	36,814	148,303	—	5,932	123,717
Stucco dash .....	ton	—	—	—	—	513	3,100	92	—	1,310,723
	\$	—	—	—	—	3,983	43,700	1,333	—	215,002
Terrazzo chips .....	ton	—	—	—	—	18,760	9,477	—	—	28,237
	\$	—	—	—	—	132,903	148,915	—	—	281,818
Rock wool .....	ton	—	—	278	—	—	447	—	240	1,376
	\$	—	—	1,507	—	—	653	—	866	2,341
Rubble and riprap .....	ton	—	—	590	593,174	605,589	312,275	235,912	222	514,417
	\$	—	—	972	343,152	885,681	606,930	235,922	492	2,262,179
Crushed stone:										
Concrete aggregate .....	ton	—	—	7,600	150,467	8,533,880	3,655,986	101,836	6,286	54,582
	\$	—	—	15,200	382,261	10,455,001	3,831,082	101,158	20,744	143,833
Road metal .....	ton	900	225,000	439,000	1,971,172	9,473,442	11,566,261	238,172	—	750,688
	\$	2,925	225,000	681,600	1,759,537	9,752,328	13,620,711	187,994	—	24,664,635
Railroad ballast .....	ton	—	—	—	142,603	767,475	677,444	11,286	—	805,107
	\$	—	—	—	142,603	987,064	757,417	5,935	—	27,035,202
Other uses .....	ton	—	—	—	—	3,408,233	443,152	—	—	441,916
	\$	—	—	—	—	3,904,114	873,605	—	—	2,334,935
<b>Totals .....</b>	<b>ton</b>	<b>227,707</b>	<b>225,000</b>	<b>548,834</b>	<b>2,950,906</b>	<b>24,173,018</b>	<b>18,797,648</b>	<b>943,765</b>	<b>105,695</b>	<b>2,580,914</b>
	<b>\$</b>	<b>445,091</b>	<b>225,000</b>	<b>1,330,708</b>	<b>3,077,423</b>	<b>33,242,778</b>	<b>25,043,550</b>	<b>1,588,674</b>	<b>368,608</b>	<b>3,544,526</b>
Per cent of total .....	quan.	0.45	0.44	1.09	5.84	47.82	37.18	1.87	0.20	5.11
	\$	0.65	0.33	1.93	4.47	48.27	36.37	2.31	0.54	5.13
										100.00

<sup>1</sup> Includes stone shipped by firms classified to other industries i.e., constructions, transportation, etc.

<sup>2</sup> Includes the production of slate and marl.

TABLE 5. Producers' Shipments<sup>1</sup> of Stone from Canadian Quarries, by Kinds, showing Purposes for which Used,  
1961 and 1962

For use as follows		Granite <sup>2</sup>	Limestone <sup>3</sup>	Marble	Sandstone	Shale	Slate	Total
1961								
Building stone:								
Rough	ton	15,385	35,360	107	16,047	—	—	66,899
	\$	232,467	377,207	2,460	335,523	—	—	947,657
Dressed	ton	18,962	45,106	2,744	2,733	—	—	69,545
	\$	1,999,283	1,956,146	155,540	112,823	—	—	4,223,792
Monumental and ornamental stone:								
Rough	ton	15,270	—	—	—	—	—	15,270
	\$	399,967	—	—	—	—	—	399,967
Dressed	ton	8,997	—	—	—	—	—	8,997
	\$	987,154	—	—	—	—	—	987,154
Flagstone	ton	700	4,783	—	6,581	—	500	12,564
	\$	9,800	27,656	—	75,478	—	1,000	113,934
Curbstone	ton	756	—	—	—	—	—	756
	\$	20,056	—	—	—	—	—	20,056
Paving blocks	ton	425	—	—	142	—	—	567
	\$	6,640	—	—	6,390	—	—	13,030
Chemical and metallurgical:								
Cement plants, in Canada	ton	—	273,178	—	—	—	—	273,178
	\$	—	194,000	—	—	—	—	194,000
Cement plants, foreign	ton	—	136,311	—	—	—	—	136,311
	\$	—	111,419	—	—	—	—	111,419
Lining open-hearth furnaces	ton	—	133,655	—	—	—	—	133,655
	\$	—	181,134	—	—	—	—	181,134
Flux in iron and steel furnaces	ton	—	1,256,891	—	—	—	—	1,256,891
	\$	—	1,479,123	—	—	—	—	1,479,123
Flux in non-ferrous smelters	ton	—	112,607	—	—	—	—	112,607
	\$	—	115,797	—	—	—	—	115,797
Glass factories	ton	—	50,263	—	—	—	—	50,263
	\$	—	160,356	—	—	—	—	160,356
Pulp and paper mills	ton	—	600,738	11,617	—	—	—	612,355
	\$	—	1,609,723	34,852	—	—	—	1,644,575
Sugar refineries	ton	—	35,624	—	—	—	—	35,624
	\$	—	74,145	—	—	—	—	74,145
Other chemical uses	ton	—	274,752	—	—	—	—	274,752
	\$	—	277,683	—	—	—	—	277,683
Pulverized stone:								
Whiting (substitute)	ton	—	3,496	10,605	—	—	—	14,301
	\$	—	48,916	129,663	—	—	—	178,579
Asphalt filler	ton	29,000	199,940	—	—	—	—	226,940
	\$	66,000	378,285	—	—	—	—	444,285
Dusting coal mines	ton	—	344	—	—	—	—	344
	\$	—	2,010	—	—	—	—	2,010
Agricultural purposes and fertilizer plants	ton	—	1,230,313	3,725	—	—	—	1,234,038
	\$	—	3,253,902	8,338	—	—	—	3,282,240
Other uses	ton	1,200	44,161	4,000	—	550	—	49,911
	\$	7,200	273,412	32,000	—	10,450	—	323,062
Crushed stone for manufacture of artificial stone	ton	1,641	1,827	7,717	—	—	—	11,185
	\$	27,740	16,500	44,028	—	—	—	88,268
Roofing granules	ton	90,765	—	—	—	—	—	90,765
	\$	166,100	—	—	—	—	—	166,100
Poultry grit	ton	3,298	13,721	4,341	—	—	—	21,380
	\$	92,280	90,559	67,167	—	—	—	249,986
Stucco dash	ton	9,470	2,385	1,128	—	—	—	12,983
	\$	145,303	26,747	19,274	—	—	—	191,324
Terrazzo chips	ton	—	4,877	19,214	—	—	—	24,091
	\$	—	42,534	265,277	—	—	—	307,811
Rock wool	ton	—	2,087	—	—	—	—	2,087
	\$	—	9,036	—	—	—	—	9,036
Rubble and riprap	ton	1,535,876	1,090,777	—	96,201	8,117	750	2,731,721
	\$	1,653,167	1,232,520	—	140,499	6,996	750	3,033,932
Crushed stone:								
Concrete aggregate	ton	1,899,464	9,309,635	—	161,006	105,000	—	11,495,107
	\$	3,469,317	10,277,302	—	310,502	320,000	—	14,377,121
Road metal	ton	2,193,436	19,740,454	—	3,011,350	21,186	—	24,966,426
	\$	4,041,168	21,036,857	—	2,383,517	24,160	—	27,485,722
Railroad ballast	ton	499,684	573,386	—	801,608	—	—	1,874,678
	\$	782,108	633,240	—	626,271	—	—	2,041,619
Other uses	ton	31,405	2,976,106	2,245	110,629	250	—	3,120,635
	\$	56,476	3,297,421	17,350	87,774	3,750	—	3,462,771
Totals <sup>3</sup>	ton	6,355,734	38,152,775	67,643	4,226,299	135,103	1,250	48,938,804
	\$	14,162,206	47,183,610	775,949	4,078,777	365,376	1,750	66,567,668

See footnotes at end of table.

TABLE 5. Producers' Shipments<sup>1</sup> of Stone from Canadian Quarries, by Kinds, showing Purposes for which Used,  
1961 and 1962 — Concluded

For use as follows		Granite <sup>2</sup>	Limestone <sup>3</sup>	Marble	Sandstone	Shale	Slate	Total
1962								
<b>Building stone:</b>								
Rough	ton	11,861	21,320	447	22,697	—	—	56,325
	\$	293,572	214,776	9,630	459,883	—	—	977,861
Dressed	ton	16,719	30,700	1,925	14,679	—	—	64,023
	\$	1,933,176	1,593,101	109,109	241,729	—	—	3,877,115
<b>Monumental and ornamental stone:</b>								
Rough	ton	12,721	84	—	—	—	—	12,805
	\$	424,996	299	—	—	—	—	425,295
Dressed	ton	6,781	—	—	—	—	—	6,781
	\$	599,453	—	—	—	—	—	59,453
Flagstone	ton	1,999	6,008	—	7,517	—	—	15,524
	\$	23,864	42,648	—	83,993	—	—	150,505
Curbstone	ton	1,352	30	—	98	—	—	1,480
	\$	29,595	333	—	1,649	—	—	31,577
Paving blocks	ton	25	—	—	—	—	—	25
	\$	1,200	—	—	—	—	—	1,200
<b>Chemical and metallurgical:</b>								
Cement plants, in Canada	ton	—	271,221	—	—	—	—	271,221
	\$	—	190,000	—	—	—	—	190,000
Cement plants, foreign	ton	—	245,168	—	—	—	—	245,168
	\$	—	208,199	—	—	—	—	208,199
Lining open-hearth furnaces	ton	—	127,410	—	—	—	—	127,410
	\$	—	171,181	—	—	—	—	171,181
Flux in iron and steel furnaces	ton	—	1,142,979	—	—	—	—	1,142,979
	\$	—	1,364,108	—	—	—	—	1,364,108
Flux in iron-ferrous smelters	ton	—	107,117	—	—	—	—	107,117
	\$	—	110,547	—	—	—	—	110,547
Glass factories	ton	—	64,816	—	—	—	—	64,816
	\$	—	216,442	—	—	—	—	216,442
Lime kilns, foreign	ton	—	11,512	—	—	—	—	11,512
	\$	—	26,908	—	—	—	—	26,908
Pulp and paper mills	ton	2,480	443,418	8,522	—	—	—	454,420
	\$	3,400	1,369,548	25,566	—	—	—	1,398,514
Sugar refineries	ton	—	42,453	—	—	—	—	42,453
	\$	—	85,214	—	—	—	—	85,214
Other chemical uses	ton	23,775	518,940	—	—	—	—	542,715
	\$	30,530	558,981	—	—	—	—	589,511
<b>Pulverized stone:</b>								
Whiting (substitute)	ton	—	793	12,563	—	—	—	13,356
	\$	—	11,660	150,750	—	—	—	162,410
Asphalt filler	ton	37,430	279,333	—	—	—	—	316,763
	\$	67,740	499,465	—	—	—	—	567,205
Dusting coal mines	ton	—	451	—	—	—	—	451
	\$	—	3,024	—	—	—	—	3,024
Agricultural purposes	ton	—	1,189,278	2,827	—	—	—	1,192,105
	\$	—	3,195,492	6,290	—	—	—	3,201,782
Other uses	ton	506	81,912	5,000	—	400	—	87,818
	\$	5,000	414,789	40,000	—	8,940	—	468,709
Crushed stone for manufacture of artificial stone	ton	1,012	3,911	9,629	—	—	—	14,552
	\$	24,158	18,281	58,198	—	—	—	100,637
Roofing granules	ton	118,342	—	—	—	—	5,375	123,717
	\$	1,295,002	—	—	—	—	15,721	1,310,723
Poultry grit	ton	5,632	21,258	3,014	—	—	—	29,904
	\$	108,243	167,958	26,728	—	—	—	302,929
Stucco dash	ton	10,300	4,770	713	—	—	—	15,783
	\$	185,000	72,635	6,383	—	—	—	264,018
Terrazzo chips	ton	—	6,197	22,040	—	—	—	28,237
	\$	—	22,519	259,299	—	—	—	281,818
Rock wool	ton	278	1,938	—	125	—	—	2,341
	\$	1,507	6,617	—	406	—	—	8,530
Rubble and riprap	ton	971,959	1,277,725	2,968	9,527	—	—	2,262,179
	\$	1,352,163	1,060,671	891	24,901	—	—	2,438,626
<b>Crushed stone:</b>								
Concrete aggregate	ton	1,452,550	10,829,627	—	183,174	45,286	—	12,510,637
	\$	2,906,327	11,618,168	—	284,040	140,744	—	14,949,279
Road metal	ton	1,757,214	20,316,924	—	2,590,497	—	—	24,664,635
	\$	2,859,875	22,101,509	—	2,073,818	—	—	27,035,202
Railroad ballast	ton	629,769	971,861	—	361,257	—	—	1,962,887
	\$	991,290	1,009,231	—	334,414	—	—	2,334,935
Other uses	ton	324,175	3,532,431	2,240	302,500	—	—	4,161,346
	\$	806,065	3,960,832	14,880	231,124	—	—	5,012,901
<b>Totals<sup>3</sup></b>	ton	5,386,880	41,551,585	71,888	3,492,071	45,666	5,375	50,553,485
	\$	13,942,156	50,315,116	707,724	3,735,957	149,684	15,721	68,866,358

<sup>1</sup> Includes stone shipped by firms classified to other industries, i.e., construction, transportation, etc.

<sup>2</sup> Includes all igneous rock.

<sup>3</sup> Does not include limestone used in Canadian lime and cement industries but includes marl used for agricultural purposes.

TABLE 6. Production<sup>1</sup> of Stone for Various Uses, 1953-62

Year		Building stone	For chemical purposes <sup>1</sup>	For concrete aggregate	For road metal	For railroad ballast	For cement manufacture <sup>2</sup>	For lime manufacture
1953	ton	118,233	1,892,405	6,918,351	7,947,901	904,342	5,579,987	2,163,427
	\$	4,370,095	2,983,924	8,103,289	8,663,413	907,313	—	—
1954	ton	134,718	1,695,336	6,420,930	10,018,259	695,632	5,843,283	2,154,987
	\$	5,071,852	2,951,655	7,518,726	10,468,500	748,095	—	—
1955	ton	137,664	2,352,565	6,537,923	12,561,077	849,905	6,036,032	2,274,211
	\$	5,103,812	3,605,263	8,408,081	14,430,025	850,181	—	—
1956	ton	139,473	2,396,956	10,421,209	15,627,912	1,309,156	7,403,334	2,276,836
	\$	4,929,535	3,721,828	13,280,234	18,442,792	1,262,783	—	—
1957	ton	129,665	2,265,003	11,355,030	17,489,156	1,672,185	9,139,770	2,562,740
	\$	5,737,049	3,414,800	15,761,075	18,525,532	2,136,969	—	—
1958	ton	145,229	2,285,477	8,364,487	19,290,774	1,496,352	8,907,229	2,831,886
	\$	6,114,234	3,311,120	12,493,684	21,240,892	1,633,114	—	—
1959	ton	144,199	2,740,753	8,450,120	28,371,980	1,958,325	8,558,708	3,062,152
	\$	5,338,418	3,932,656	10,448,077	27,904,991	1,923,369	—	—
1960	ton	163,602	2,631,579	9,335,165	23,785,760	2,561,072	7,965,872	2,669,574
	\$	4,207,535	3,933,958	12,015,603	26,184,006	2,882,592	—	—
1961	ton	136,444	2,751,979	11,495,107	24,966,426	1,874,678	8,145,376	2,592,831
	\$	5,171,449	4,057,098	14,377,121	27,485,722	2,041,619	—	—
1962	ton	120,348	2,882,401	12,510,637	24,664,635	1,962,887	9,294,196	2,668,480
	\$	4,854,976	4,189,443	14,949,279	27,035,202	2,334,935	—	—

<sup>1</sup> Includes stone shipped by firms classified to other industries, i.e., construction, transportation, etc.<sup>2</sup> Does not include limestone used in the Canadian lime industry.<sup>3</sup> Includes shale.

TABLE 7. Imports and Exports of Stone, by Kinds, 1961 and 1962

			1961		1962	
			Quantity	Value	Quantity	Value
<b>Imports</b>						
Building stone, n.o.p.	cwt.	600,783	927,094	477,984	657,913	
Curling stones and handles therefore	pair	3,062	133,654	3,693	190,006	
Granite, rough, not hammered or chiseled		—	398,578	—	452,860	
Granite, sawn only		—	131,137	—	195,563	
Granite, manufactures of, n.o.p.		—	442,409	—	427,056	
Marble, rough, not hammered or chiseled		—	119,090	—	160,517	
Marble, sawn or sand rubbed, not polished		—	859,427	—	1,091,774	
Marble, not further manufactured than sawn, for tombstones		—	40,816	—	42,660	
Marble for churches		—	177,182	—	124,723	
Marble, manufactures of, n.o.p.		—	171,813	—	260,755	
Refuse stone		—	—	—	—	
Slate roofing	square	497	10,636	871	26,861	
Slate mantels and manufactures of slate, n.o.p.		—	60,650	—	138,524	
Mineral wool	ton	3,000	452,852	1,727	320,887	
Whiting, gilders' whiting and Paris white	**	8,408	233,363	8,142	259,258	
Manufactures of stone, n.o.p.		—	170,697	—	211,610	
Pumice and pumice stone and lava tufa		—	167,707	—	237,721	
Grindstones, not mounted and not less than 36 inches in diameter		..	..	..	..	
Grinding stones, blocks, bonded		..	361,707	..	426,847	
Grindstones, n.o.p.	No.	625	12,005	562	9,178	
Roofing granules	ton	80,215	1,481,610	52,465	1,007,375	
Stone, crushed	**	790,482	1,185,454	731,999	1,263,879	
<b>Totals accounted for</b>		—	7,538,081	—	7,505,747	
<b>Exports</b>						
Crushed limestone and refuse	ton	..	..	786,790	966,152	
Quartzite	**	26,774	116,109	156,205	489,999	
Building stone, rough	**	12,579	236,116	14,415	258,521	
Stone, crude n.e.s.	**	732,735	1,091,665	98,410	188,931	
<b>Totals accounted for</b>		—	1,329,781	—	1,903,603	

TABLE 8. Employees and their Earnings, Stone Quarries, 1957 - 62

Year	Employees						Man-hours worked (all employees)	Earnings		
	Office and administrative		Workmen		Total	Office and administrative		Workmen	Total	
	Male	Female	Male	Female						
	number							dollars		
1957 .....	293	39	3,123	5	3,460	8,133,871	1,359,845	9,586,668	10,946,513	
1958 .....	298	36	2,962	4	3,300	8,055,349	1,505,606	9,757,617	11,263,223	
1959 .....	318	34	2,831	1	3,184	7,504,589	1,611,326	9,753,115	11,364,441	
1960 .....	352	43	2,709	1	3,105	7,169,089	1,825,891	9,160,931	10,986,822	
1961 .....	402	53	2,938	2	3,395	7,902,770	2,101,990	10,521,483	12,623,473	
1962 .....	367	58	2,771	1	3,197	7,317,908	1,984,499	10,214,557	12,199,056	

TABLE 9. Workmen, Stone Quarries, by Months, 1861 and 1862

Month	1961				Total	1962				Total		
	Quarry		Dressing works			Male	Female	Quarry				
	Male	Female	Male	Female				Male	Female			
	number											
January .....	1,329	—	575	—	1,904	1,132	—	575	—	1,707		
February .....	1,295	—	579	—	1,874	1,131	—	542	—	1,673		
March .....	1,422	1	614	—	2,037	1,485	—	599	—	2,084		
April .....	1,840	1	697	—	2,538	1,919	—	695	—	2,614		
May .....	2,458	—	720	—	3,178	2,449	1	759	—	3,209		
June .....	2,749	2	751	—	3,502	2,615	1	727	—	3,343		
July .....	2,844	1	788	—	3,633	2,616	1	720	—	3,337		
August .....	2,824	2	791	—	3,617	2,651	1	725	—	3,377		
September .....	2,825	2	710	—	3,537	2,548	1	778	—	3,327		
October .....	2,653	1	724	—	3,378	2,428	1	775	—	3,204		
November .....	2,397	—	686	—	3,083	2,211	—	747	—	2,958		
December .....	1,901	—	590	—	2,491	1,609	—	636	—	2,245		
Averages .....	2,237	2	701	—	2,940	2,076	1	695	—	2,772		
Number of man-hours worked during year .....					6,904,920					6,396,751		

## GRANITE

Granite, as applied to commercial stone, includes nearly all igneous rocks as well as metamorphic rocks of igneous origin, which may be quarried for use as building, monumental or crushed stone. In the quarrying of granite for building or monumental stone there is a large quantity of irreg-

ularly shaped pieces which are used for breakwaters, road fill and crushed rock for concrete aggregate.

Granite shipments in 1962 were a million tons less than in the preceding year.

TABLE 10. Production of Granite,<sup>1</sup> 1953 - 62

Year	Short tons	Value	Year	Short tons	Value
		\$			\$
1953 .....	1,350,917	5,554,530	1958 .....	4,799,899	12,525,221
1954 .....	12,834,727	13,041,999	1959 .....	4,848,310	10,092,849
1955 .....	5,618,940	9,666,592	1960 .....	5,237,243	11,885,953
1956 .....	2,431,455	6,574,850	1961 .....	6,355,734	14,162,206
1957 .....	4,957,623	12,757,812	1962 .....	5,386,880	13,942,156

<sup>1</sup> Excludes all igneous rock.

## LIMESTONE

Quarries for the production of limestone for building purposes are worked in Quebec, Ontario and Manitoba. Modern requirements of the building stone industry call for blocks of stone of large dimensions from which are sawn slabs and blocks of the exact size required for constructing the building. Although limestone is abundant in Canada the heavily bedded variety of desirable texture, free from cracks and other defects, and capable of being carved and otherwise worked, is not plentiful.

For industrial use limestone is marketed in a variety of forms ranging from huge squared blocks of dimension stone used in construction to extremely fine dust chiefly as a mineral filler. For certain uses (in the wood pulp industry for example) the limestone quarried required little or no processing, but most of the output is crushed and screened for use as road metal, concrete aggregate, railroad bal-

last and as flux in metallurgical plants. Large quantities are used in the manufacture of Portland cement, lime and various chemical products. Most of the limestone used in chemical and metallurgical industries is of high calcium variety, but dolomite is rapidly increasing in importance as an industrial raw material.

The use of limestone in agriculture is capable of very extensive development. Though the necessity for applying limestone or lime to agricultural land to remedy deficiencies of calcium and magnesium, to neutralize soil acidity, and to maintain or increase soil fertility has been emphasized for many years, the quantity so used in Canada is still relatively small, whereas the agricultural use of limestone could well constitute one of its most important uses both from the economic and tonnage viewpoints.

TABLE 11. Production of Limestone,<sup>1</sup> 1953-62

Year	Marl <sup>2</sup>	Limestone, dolomite and marl	Value	Year	Marl <sup>1</sup>	Limestone, dolomite and marl	Value
	tons		\$		tons		\$
1953 .....	64,626	17,461,720	23,783,230	1958 .....	147,097	30,271,385	38,683,341
1954 .....	59,293	18,829,748	25,144,026	1959 .....	154,402	36,582,821	45,322,328
1955 .....	60,611	24,107,571	32,322,313	1960 .....	161,919	36,405,875	44,763,355
1956 .....	95,437	29,105,977	39,305,815	1961 .....	109,624	38,152,775	47,183,610
1957 .....	146,017	32,618,782	41,280,990	1962 .....	90,216	41,551,585	50,315,116

<sup>1</sup> Includes dolomite and marl.

<sup>2</sup> Included in next column.

## MARBLE

Marble is marketed principally in crushed or ground forms for use in terrazzo flooring, stucco dash, artificial stone, poultry grit, and the manufacture of whiting substitute. Crushed marble is also used by the pulp and paper industry in preparing dissolving liquor. In Canada, there is a small output of quarry blocks to provide ornamental stone for building construction. For this use the stone is sawn, matched, shaped and polished. Three quarries

produce mill blocks. Canadian production is only a small part of the country's requirements and the domestic market is mainly supplied by imports from Italy and the United States in the form of mill blocks or sawn slabs which are finished in Canadian marble dressing plants.

There is a wide range in the price of marble depending upon the quality and rareness of colouring.

TABLE 12. Production of Marble, 1953-62

Year	Short tons	Value	Year	Short tons	Value
		\$			\$
1953 .....	59,655	546,991	1958 .....	63,619	800,730
1954 .....	57,748	633,702	1959 .....	108,983	715,987
1955 .....	63,335	633,531	1960 .....	69,496	650,468
1956 .....	56,768	649,999	1961 .....	67,643	775,949
1957 .....	67,770	589,706	1962 .....	71,888	707,724

## SANDSTONE

Canadian sandstone has been utilized extensively in the construction of many important public buildings in Canada, and is finding increasing favour as a material in the construction of the better-type home. The rock occurs in Canada in a variety of colours, including white, reddish brown, yellow and grey. In 1962 shipments were made from quarries in Prince Edward Island, Nova Scotia, New Brunswick, Quebec, Ontario, Alberta and British Columbia.

The greater part of the crude output in 1962 was employed as rubble and riprap and in the crushed state for concrete, highway construction and railroad ballasting. Sandstone in New Brunswick and Nova Scotia has been employed in the manufacture of abrasive wheels and sharpening stones; such production is included with natural abrasives' manufacture. Crude, crushed or ground quartzite sold for fluxing purposes or as silica sand is included in the quartz industry data.

TABLE 13. Production of Sandstone, 1953-62

Year	Short tons	Value	Year	Short tons	Value
		\$			\$
1953 .....	974,104	695,965	1958 .....	2,908,281	3,597,442
1954 .....	830,478	823,563	1959 .....	4,768,643	4,680,803
1955 .....	622,792	873,021	1960 .....	3,420,667	3,079,253
1956 .....	1,578,534	1,992,492	1961 .....	4,226,299	4,078,777
1957 .....	2,538,579	4,246,654	1962 .....	3,492,071	3,735,957

## SHALE

During 1962 shale was used as a raw material in the production of light-weight aggregates. In earlier years most of the shale quarried was used in brick, tile and cement plants and the statistics

on this commodity were included in the data on those industries. The shipments of shale, excluding that used in clay products and cement, amounted to 45,686 tons valued at \$149,684 in 1962.

## SLATE

Canadian slate production in 1962 came from the province of British Columbia where it was crushed to make roofing granules. No Canadian

deposits of slate suitable for the production of high grade roofing slates or shingles have been reported as being under development in recent years.

TABLE 14. Production of Slate, 1953-62

Year	Short tons	Value	Year	Short tons	Value
		\$			\$
1953 .....	2,621	32,335	1958 .....	736	30,220
1954 .....	2,322	30,883	1959 .....	750	750
1955 .....	1,640	33,208	1960 .....	46,526	28,046
1956 .....	1,013	11,608	1961 .....	1,250	1,750
1957 .....	569	14,765	1962 .....	5,375	15,721

TABLE 15. Fuel and Electricity Used in the Stone Quarries, 1962

Kind		Quantity	Cost at plant
			\$
<b>Bituminous coal:</b>			
From Canadian mines .....	short ton	987	17,561
Imported .....	"	28,841	336,624
Sub-bituminous coal (from Alberta mines only) .....	"	147	1,862
Anthracite coal .....		—	—
Lignite coal .....		—	—
Coke (for fuel only) .....	short ton	11	204
Gasoline, (includes gasoline used in cars and trucks) .....	Imp. gal.	2,135,379	711,155
Kerosene or coal oil .....	"	914	256
Fuel oil .....	"	3,611,271	858,841
Wood (cords of 128 cubic feet of piled wood) .....	cord	178	1,559
<b>Gas:</b>			
Liquefied petroleum gases (propane, etc.) .....	Imp. gal.	13,599	4,399
Other manufactured gas .....		—	—
Natural gas .....	M cu. ft.	9,015	4,297
Diesel fuel .....		***	—
Electricity purchased for power and lighting .....	kwh.	100,783,220	1,356,228
Electricity purchased for other purposes .....		—	—
<b>Total</b> .....		***	<b>3,292,986</b>
Electricity generated (a) For own use .....	kwh.	1,496,951	***
(b) For sale .....		—	—

## ROOFING GRANULES

The greater part of the roofing granules output in Canada comes from Ontario deposits, the remainder from Quebec and British Columbia. More than half of the tonnage used is imported from the United States. Rock suitable for roofing granules is quarried in the Madoc area in Ontario, and in British Columbia. A plant at Havelock, Ontario, colours roofing granules.

The quantity of stone shipped from Canadian quarries to make roofing granules is shown in Tables 4 and 5. The yield of roofing granules is about 60 per cent.

Rocks suitable for granules should be fairly hard, and tough enough to withstand breakage and

dusting through handling with mechanical equipment; should be fine-grained with low porosity to withstand weathering effects from freezing and thawing; and should contain no "foreign materials" such as carbonates, feldspars, mica, sulphides, fibrous minerals, etc., that would deteriorate through natural weathering agencies or through poor adhesion to the asphalt. They should be opaque to the transmission of the actinic rays of the sun and not allow the passage of ultra-violet or infra-red rays to the underlying asphalt; should "break well" and should be uniformly textured to take "artificial colouring" well so that no blotchy effect is apparent in the shingles on a roof, light coloured rock being preferable to dark coloured.

## Operators of Stone Quarries, 1962

Includes firms classified to other industries i.e., construction, transportation

Name	Head office address	Location
<b>GRANITE</b>		
<b>Newfoundland:</b>		
Newfoundland Department of Highways .....	St. John's .....	Various
<b>Nova Scotia:</b>		
Coughlan, J.S. Marble & Granite Works <sup>1</sup> .....	Hallifax.....	Purcells' Cove
Dauphinee, W.T. Ltd. <sup>2</sup> .....	Box 68, Shelburne .....	Birchtown
Elmac, Company Limited .....	Box 219, Amherst .....	Gerrish Mountain
Gehues Granite Works <sup>2</sup> .....	Lawfence.....	Lawrence
Municipal Spraying & Contracting Ltd. ....	Box 500, Bedford .....	Bedford
Nixon Granite Works <sup>2</sup> .....	R.R. #3, Middleton .....	Nictaux West
Nova Scotia Department of Highways .....	Halifax.....	Varlous
Rayner Construction Limited.....	29 Commercial Rd., Toronto, Ontario .....	Folly Lake
Rice, C.A. Ltd. ....	15 Park St., Middleton .....	Nictaux West
<b>New Brunswick:</b>		
Connolly Construction Ltd. ....	195 Main St., Bathurst.....	Bathurst
Diamond Construction (1955) Ltd. ....	Box 100, Fredericton.....	Springhill
Moncton Crushed Stone Co. Ltd. ....	212 Halifax St. Moncton .....	Stilesville
Nelson Monuments Ltd. <sup>2</sup> .....	Box 720, Sussex.....	King's Co.
Trites Monuments & Quarry Ltd. ....	589 Woodstock Rd., Fredericton .....	Hampstead
<b>Quebec:</b>		
Adu Granite Inc. <sup>1</sup> .....	Beebe.....	Beebe
Beebe Granite Works Reg'd. <sup>1</sup> .....	C.P. 10, Beebe .....	Beebe
Bélanger, P. ....	Ste. Flore .....	Ste. Flore
Bérubé, Lucien .....	Rimouski .....	Rimouski
Canadian Pink Granite Ltd. ....	Guenette .....	Labelle Co.
Carrières Martineau et Deschambault Inc. <sup>2</sup> .....	3444 est Blvd. St. Joseph, Montreal .....	St. Gerard Notre Dame des Anges Rivière à Pierre, and St. Albin.
Carrière Rouville Inc. ....	C.P. 593, St. Bruno .....	St. Hilaire
Carrière Shawinigan Ltée. ....	Shawinigan .....	Shawinigan
Carrières Varennes Ltée .....	Varennes .....	Varennes
Charlebois, G. ....	Lacoste .....	Labelle Co.
Cloutier, R.L. ....	Beebe .....	Beebe
Construction Côte Nord Ltd. ....	1155 Dorchester Blvd. W., Montreal .....	Sept Iles
Continental Titanium Corporation. ....	5165 Sherbrooke St. W., Montreal .....	Charlevoix
Dulude Quarry Ltd. ....	St. Bruno .....	St. Bruno
Dumas and Voyer Ltée .....	Rivière-à-Pierre .....	Rivière-à-Pierre
Gaboriault and Nevers Reg'd. <sup>2</sup> .....	Box 118, Grenville .....	Grenville
Granit Bussière Inc. <sup>2</sup> .....	St. Sébastien .....	Frontenac Co.
Granit National Ltée, Le <sup>2</sup> .....	St. Gédéon .....	St. Anne, St. Joseph d'Alma and Chute du diable.
Granit, F.B. Enrg. <sup>1</sup> .....	293 rue Dupont, Pont Rouge .....	Pont Rouge
Granit Rivière à Pierre Inc. ....	939 Charlevoix, Montréal .....	Rivière à Pierre
Grenier, Elie Enrg. ....	2922 Ave de la Montagne, Shawinigan Nord .....	St. Maurice
Hydro Québec .....	107, rue Craig O., Montréal .....	Various
Jean & Frère Enrg. ....	6132-18e rue, Shawinigan .....	Notre Dame des Anges
Laurentian Granite Co. Ltd. ....	Lac des Ecorces .....	Lac des Ecorces
Lavoie, Jean-Marc et Philippe .....	Lac St-Jean .....	St-Coeur de Marie
McNamara (Quebec) Ltée .....	3901 Jean Talon St. Montréal .....	Pointe-Noire
Moreau, P. Inc. <sup>2</sup> .....	Hébertville Station .....	Hébertville Station
Perron, J.B. & Frères Enrg. <sup>1</sup> .....	Rivière-à-Pierre .....	Portneuf Co.
Plouffe, E. ....	Lac des Ecorces .....	Lac des Ecorces
Quebec Cartier Mining Company .....	Port Cartier .....	Lac Jeannine
Quebec Iron & Titanium Corp. ....	1625 Route Marie-Victorin Tracy .....	Sorel
Quebec North Shore & Labrador Railway Co. ....	2100 Drummond St., Montreal .....	Letellier Twp.
Quebec Supply Co. Ltd. ....	Box 730, Station B, Montreal .....	Letellier Twp.
St. Samuel Granit Enrg. <sup>1</sup> .....	St. Samuel Station .....	St. Samuel
Saguenay Granit Inc. <sup>1</sup> .....	Arvida .....	Arvida
Sept-Îles Ready Mix and Equipment Inc. ....	310 Joliette, Sept-Îles .....	Lac Daigle
Sicotte, Armand & Fils Ltée. ....	Lafleche .....	Asbestos
Silver Granite Industries Ltd. <sup>2</sup> .....	St. Samuel .....	St. Samuel
Stanstead Granite Quarries Company Limited <sup>2</sup> .....	Beebe .....	Graniteville
Temisco Ltd. ....	Ville-Marie .....	Ville Marie
Therrien, Albert .....	Ville Marie .....	Ville Marie
Uni-Mix, Inc. ....	3350 Blvd. Laurier, Lafleche .....	Rouville Co.
White Diamond Granite Co. Ltd. ....	1055 boul. des Forges, Trois-Rivières .....	Portneuf and Wolfe Counties
<b>Ontario:</b>		
Armstrong Bros. Co. Ltd. ....	Box 1000, Brampton .....	Marmora
Hydro-Electric Power Commission of Ontario .....	620 University Ave., Toronto .....	Various
Industrial Garnet Co. Ltd. <sup>2</sup> .....	River Valley .....	River Valley
Kingston Quarries Ltd. ....	Agincourt .....	Kingston
Mill Lake Stone Quarry .....	38 Burrill St., Parry Sound .....	McDougall Twp.
Minnesota Minerals Ltd. <sup>2</sup> .....	Box 2757, London .....	Peterborough
North Shore Construction Ltd. ....	Box 908, Station B, Montreal, Quebec .....	White
Ontario Department of Highways .....	Toronto .....	Various
Toronto Cut Stone Supply .....	Richmond Hill .....	Huntsville

## Operators of Stone Quarries, 1962 — Continued

Name	Head office address	Location
<b>GRANITE — Concluded</b>		
<b>Manitoba:</b>		
Cold Spring Granite (Canada) Ltd. <sup>2</sup> .....	905 Lindsay Bldg. Winnipeg .....	Lac du Bonnet
Manitoba Hydro.....	650 Harrow St., Winnipeg 9 .....	Winnipeg River District
<b>British Columbia:</b>		
British Columbia Slate Co. Ltd. ....	813-475 Howe St., Vancouver .....	Nelson Island
Canadian National Railways .....	Montreal, Quebec .....	Various
Chilliwack Dyking District Board.....	P.O. Box 270, Chilliwack .....	Chilliwack
Evans, Coleman and Evans Ltd .....	North Foot of Columbia St., Vancouver 4 .....	Coquitlam
Granite Falls Quarries, Ltd. ....	1160 Sinclair St., West Vancouver .....	Granite Falls
Inland Quarries Ltd. ....	5498 Fraser St., Vancouver .....	Cascade
International Marble & Stone Co. Ltd. ....	4344 Macleod Trail, Calgary, Alberta .....	Nelson
Jamieson Construction Co. Ltd. ....	3613 Eastern Hastings St. ....	Vancouver
Pacific Great Eastern Railway Company.....	1095 West Pender St., Vancouver 1 .....	Mile 51.3
Pacific Silica Ltd. ....	Box 397, Oliver .....	Oliver
Trail, City of.....	1394 Pine Ave., Trail .....	Trail
Valley Granite Products Ltd. ....	410 Mayfair Ave., Chilliwack .....	Cheam View
<b>LIMESTONE</b>		
<b>Newfoundland:</b>		
Dominion Steel & Coal Corp. Ltd. ....	Aguathuna .....	Aguathuna
Newfoundland Lime Mfg. Co. Ltd. ....	St. John's .....	Cobbs Arm
<b>Nova Scotia:</b>		
Cook, Bruce E. ....	R.R. #1, Hubbards .....	East River Point
Kirkhill Limestone Co. Ltd. ....	Kirkhill .....	Kirkhill
Mosher Limestone Co. Ltd. ....	Upper Musquodoboit .....	Upper Musquodoboit
<b>New Brunswick:</b>		
Atlas Construction Co. Ltd. ....	4781 St. Catherine St. W., Montreal, Quebec ..	Green Point
Brookville Manufacturing Co. Ltd. ....	Brookville .....	Brookville
Canada Cement Company Limited.....	Box 490, Station B, Montreal, Quebec .....	Havelock
Carleton Lime Co. Ltd. ....	Upper Kent .....	Upper Kent
Elm Tree Limestone Co-operative Ltd. ....	Petit Rocher Nord .....	Petit Rocher Nord
Havelock Lime Works .....	Havelock .....	Havelock
Loftstrom Construction Co. Ltd. ....	Box 613, Fredericton .....	Saint John
Snowflake Lime Ltd. ....	Box 954, Saint John .....	Saint John
<b>Quebec:</b>		
Aluminum Company of Canada Ltd. ....	Box 6090, Montreal .....	Wakefield
Amendements Calcaires de Rivière-Bleue Enrg., (Les)	Rivière-Bleue .....	Rivière-Bleue
Back River Quarry Ltd. ....	680 boul. Lahelle, l'Abord-à-Plouffe .....	Cap St-Martin
Beaudry, Pitro Enrg. ....	133 Taché St., Joliette .....	Joliette
Bédard, Jean, Ltée .....	117 rue Clément La Salle .....	Caughnawaga
Billet A. Ltée .....	Chomedey .....	Laval Co.
Bomar Contractors Ltd. ....	Cap St. Martin .....	Cap St. Martin
Calcaires Salaberry Inc. ....	St. Philippe .....	Lapalrie
Calcites du Nord Inc. (Les)....	Village des Pères .....	Mistassini
Canada Cement Co. Ltd. ....	Box 490, Station B, Montreal .....	Hull and Montreal East
Carrière Andorno .....	1413 Blvd des Laurentides .....	Cap St. Martin
Carrière Beaudy Ltée .....	2455 est, rue Jarry, Montreal 38 .....	Duvernay
Carrière Bernier Ltée .....	R.R. 2, St-Jean .....	Rang du Petit Bernier
Carrière d'Action Vale Ltée .....	Action Vale .....	Bagot Co.
Carrière du Cap St-Martin Enrg. ....	Cap St-Martin .....	Cap St-Martin
Carrière Coteau du Lac Quarry Inc. ....	C.P. 100 Point-Claire .....	Pointe-Claire
Carrière Gouin Limitée .....	132 Boul. Normand, Trois-Rivières .....	St. Marc des Carrières
Carrière Goyer (Division Dominion Lime Ltd.)....	St. Bruno .....	St. Bruno
Carrière Langlois Ltée .....	St. Marc des Carrières .....	St. Marc des Carrières
Carrières Martineau & Deschambault Inc. <sup>2</sup> .....	3444 est Boul. St. Joseph Montréal .....	St. Marc des Carrières
Carrières Normont Ltée (Les)....	384 Chemin de la Lorraine, Pont Vieux .....	Chomedey
Carrière Pointe Claire Inc. ....	Kirkland .....	Pointe-Claire
Carrière Roberval Ltée .....	Roberval .....	Roberval
Carrière de St-Barthélemy Ltée .....	St-Barthélemy .....	St-Barthélemy
Carrières de St-Dominique Ltée, (Les) .....	St-Dominique .....	St-Dominique
Carrière St. François Ltée .....	St. Francois du Lac .....	Drummond Co.
Carrière St. Maurice Inc. ....	135 Blvd. Normand, Trois Rivières .....	Champlain Co.
Carrières St. Paul Inc. ....	St. Paul d'Abbotsford .....	Rouville Co.
Charbonneau, Lucien <sup>1</sup> .....	13 Chapleau, Terrebonne .....	St-François-de-Sales
Ciment Québec, Inc. ....	St. Basile, Côte Portneuf .....	St. Basile
Compagnie Miron Ltée .....	2201 Jarry St. E., Ville St. Michel .....	Ville St. Michel
Deschenes Construction Ltd. ....	36 Dussault St., Hull .....	Aylmer
Dominion Lime Ltd. ....	Lime Ridge .....	Lime Ridge
Domtar Chemicals Ltd. (Gypsum Lime Division)	Box 506, Station F, Toronto 5, Ontario .....	Joliette and St. Marc des Carrières
Faubert, A. ....	Ville de Lery .....	Ville de Lery
Gaspesia Pulp and Paper Co. Ltd. ....	Chandler .....	Gascons W.
Gauthier, Jos. O. Ltée <sup>3</sup> .....	St. Marc des Carrières .....	St. Marc des Carrières
Gingras & Frère Ltée <sup>3</sup> .....	Stanhope .....	St. Marc des Carrières

## Operators of Stone Quarries, 1962 - Continued

Name	Head office address	Location
<b>LIMESTONE - Continued</b>		
<b>Québec - Concluded:</b>		
Glen Lawrence (Quebec Construction Co. Ltd.).....	3285 Cavendish Blvd., Montreal 28 .....	Drummondville
Highway Paving Co. Ltd. (The) .....	St. Michel.....	Ville St. Michel
Jollette Carrière .....	Jollette.....	Jollette
Lagacé Quarries Ltd. ....	680 Blvd. Labelle, L'Abord à Plouffe.....	St. Martin
Langlois, J.M. Inc. ....	169 St. Laurent, La Prairie.....	La Prairie
Laplante, G. ....	Chateau Richer .....	Chateau Richer
Leclerc, J.J., and Fils Ltée .....	3444 est Blvd. St. Joseph, Montreal .....	Drapeau
Masson, R. ....	27A Langevin Ave., Hull .....	South Hull
Methé Frères Ltée .....	Bedford .....	Stanbridge Station
Ministère de la Voirie .....	Quebec .....	Various
Murray, R. ....	Chandler .....	Chandler
Pénitencier St. Vincent de Paul* .....	160 St. François, St. Vincent de Paul .....	Rang St. François
Pflourde & Pflourde Limitée .....	28 rue Calixte, Chicoutimi .....	Canton Tremblay
Quebec Ready-Mix Inc. ....	1000 rue Goupil, Quebec .....	Charlesbourg Ouest
Rioux, R. & M. ....	Cowansville .....	Missisquoi
Rivermont Construction Co. Ltd. ....	Ste Sophie .....	Rivermont
St. Francis Rock, Products & Equipment Ltd. ....	801 Laird Ave., Mount Royal .....	St. Laurent
St. Lawrence Columbium & Metals Corp. ....	159 rue Craig, Montreal .....	St. Sophie
Sauve, J.O. ....	59 rue Principale, Ste Rose de Lima .....	Ste. Rose de Lima
Shawinigan Chemicals Ltd. ....	600 Dorchester St. W., Montreal .....	Bedford
Sicotte Armand & Fils Ltée .....	1950 Sir Wilfrid Laurier, Lafleche .....	Berthierville
Terrebonne Quarries Ltd. ....	680 Blvd. Labelle, Chomedey .....	St. Francois de Sales
Union des Carrières and Payages Ltée .....	496 - 21ème ave, Québec .....	Charlesbourg
Union Construction Limitée .....	24 Montcalm, Iberville .....	St-Jean
United Stone Products Ltd. ....	Ste. Geneviève de Pierrefonds .....	Ste-Geneviève de Pierrefonds
V erreault, Elzéar, Ltée .....	3725 rue St. Henri, Gifford .....	Gifford
Viau, Paul Construction .....	340, boul. du Havre, Valleyfield .....	Valleyfield
<b>Ontario:</b>		
Amherst Quarries Ltd. ....	Amherstburg .....	Amherstburg
Armstrong Bros. Company Limited .....	Box 1000, Brampton .....	Vinemount, Marmora, Georgetown, and Ottawa.
Associated Quarries & Construction Co. (Dufferin Quarry Division) .....	2700 Dufferin St., Toronto 19 .....	Milton
Black River Limestone Products .....	16 Manning Ave., Peterborough .....	Harvey Twp.
Blair Construction .....	R.R. 2 Moose Creek .....	Moose Creek
Bruce Peninsula Stone Quarry .....	Wiarton .....	Amabel Twp.
Brunner Mond Canada Ltd. ....	c/o Allied Chemical Canada Ltd. 1155 Dorchester Blvd. W. Montreal Quebec.	Amherstburg
Campbell, George, Co. Ltd. ....	Box 279, Fort Erie .....	Bertie Twp.
Canada Cement Co. Ltd. ....	P.O. Box 490, Station "B", Montreal, Quebec .....	Woodstock, Pointe-Claire, and Port Colborne
Canada Crushed and Cut Stone Ltd. ....	Box 100, Hamilton .....	Dundas and Hagersville
Canadian Dolomite Company .....	Portage du Fort, Quebec .....	Ross Twp.
Canadian Gypsum Company Limited .....	Box 4034, Postal Station A, Toronto .....	Guelph
Carleton Lime Products Co. ....	P.O. Box 26, Carleton Place .....	Ramsay Twp.
Cayuga Quarries Ltd. ....	Cayuga .....	Cayuga
Chemical Lime Ltd. ....	Box 100, Ingersoll .....	Beachville
Cook, J.S., Stone Quarries .....	Wiarton .....	Bruce Co.
Cope, A., and Sons Ltd. ....	19 Albert St., Hamilton .....	Saltfleet Twp.
Cyanamid of Canada Ltd. ....	635 Dorchester Blvd. W., Montreal Quebec .....	Ingersoll
Dibblee Construction Co. Limited .....	384 Bank St., Ottawa .....	Bowesville
Dominion Magnesium Ltd. ....	7 King St., Toronto .....	Haley
Domtar Chemicals Ltd. (Gypsum Lime Division) .....	Box 506, Station F, Toronto 5 .....	Beachville and Hespeler
Ebel Quarries .....	Wiarton .....	Wiarton
Frazer-Duntile Co. Ltd. ....	2019 Carling Ave., Ottawa .....	Nepean Twp.
Frontenac Quarries Ltd. ....	235 Wellington St., Kingston .....	Kingston
Fulton J.L. ....	247 Toke St., Timmins .....	Haileybury
Gray, J., and Son. ....	R.R. 2, Hamilton .....	Flamboro Twp.
Hagersville Quarries Ltd. ....	2700 Dufferin St., Toronto 19 .....	Hagersville
Haldimand Quarries and Construction Ltd. ....	55 York St., Toronto 1 .....	Hagersville
Halton Crushed Stone Ltd. ....	Milton .....	Milton
Indusmin Ltd. ....	7 King St. E., Toronto 1 .....	Coboconk
Jameson Lime Co. ....	110 Hall Ave. , Renfrew .....	Horton Twp.
King Paving & Materials Ltd. ....	Box 550, Oakville .....	Oakville
Kingston Penitentiary .....	Box 22, Kingston .....	Kingston
Kirkfield Crushed Stone Co. Ltd. ....	2700 Dufferin St., Toronto 19 .....	Kirkfield
Lake Ontario Portland Cement Co. Ltd. ....	Box 620, Picton .....	Picton
Legendre, L.P. ....	449 Blake Blvd., Ottawa .....	Rutherford
Limestone Quarries Ltd. ....	1135 Leslie St., Don Mills .....	Orillia Twp.
McGinnis and O'Conner Limited .....	394 King St. E., Kingston .....	Barriefield
Milton Quarries Limited .....	85 Richmont St. W., Toronto 1 .....	Milton
Norfolk Quarry .....	R.R. 3, Simcoe .....	Norfolk
Ottawa Valley Crushed Stone Limited .....	Box 490, Station "B", Montreal, Quebec .....	Eastview
Owen Sound Ledgerock Ltd. ....	1065-10th St. W., Owen Sound .....	Shallow Lake
Peninsula Limestone Ltd. ....	20 Queen St., St. Catharines .....	Thorold
Permanent Transit Mix Concrete Ltd. ....	Brockville .....	Elizabethtown Twp.
Port Colborne Quarries Ltd. ....	Port Credit .....	Port Colborne
Queenston Quarries Ltd. <sup>1</sup> .....	605 James St. N., Hamilton .....	Niagara Falls
Ridgemount Quarries Ltd. ....	Box 40, Stevensville .....	Bertie Twp.
Rieger Bros. Construction Co. Ltd. ....	Scudder .....	Pele Island
Roblindale Quarries Ltd. ....	Talbot St., Picton .....	Roblin
St. Catharines Crushed Stone Ltd. ....	Box 100, Thorold .....	Grantham Twp.
St. Lawrence Cement Co. ....	Box 520, Clarkson .....	Ogden Point
St. Mary's Cement Co. Ltd. ....	2221 Yonge St., Toronto 7 .....	St. Mary's
Storey Construction .....	R.R. 2, Bath .....	Napanee
Vineland Quarries & Crushed Stone Ltd. ....	Vineland .....	Vineland
Walker Bros. Quarries .....	Box 100 Thorold .....	Stamford Twp.

## Operators of Stone Quarries, 1962 - Continued

Name	Head office address	Location
<b>LIMESTONE - Concluded</b>		
<b>Manitoba:</b>		
Building Products & Coal, Co. Ltd.....	111 Christie St., Winnipeg.....	Inwood
Canada Cement Co. Ltd. ....	Box 490, Station B, Montreal, Quebec.....	Steep Rock
Garson Quarries Ltd. ....	Box 3532, Station B., Winnipeg 4.....	Garson
Gillis Quarries Ltd. <sup>1</sup> .....	1348 Spruce St., Winnipeg.....	Garson
Manitoba Department of Highways .....	Winnipeg.....	Various
Manitoba Hydro Commission .....	Box 815, Winnipeg .....	Various
Saskatchewan Cement Co. Ltd. ....	Box 2555, Edmonton, Alberta .....	Mafeking
Selkirk Silica Co. Ltd. ....	812 Boyd Bldg., Winnipeg 1 .....	Spearhill and Stonewall
Winnipeg, City of, Engineering .....	Dept. 223 James Ave., Winnipeg 2.....	Stony Mountain
<b>Alberta:</b>		
Canada Cement Co. Ltd. ....	Box 490, Station B, Montreal, Quebec.....	Exshaw
Foothills Rock Wool Co. Ltd. ....	5419 Thornton Road, Calgary .....	Cascade
Inland Cement Company Ltd. ....	Box 2555, Edmonton.....	Cadomin
Kamenka, L.J. ....	Box 206, Canmore.....	Canmore
Loder's Lime (Alberta) Ltd. ....	5504-3rd St. S.E., Calgary .....	Kananaskis
Summit Lime Works Ltd. ....	P.O. Box 700, Lethbridge .....	Lethbridge
<b>British Columbia:</b>		
British Columbia Department of Highways .....	Victoria .....	Various
Cheam Marl Products Ltd. ....	Box 113, Chilliwack .....	Cheam Lake
Cobble Hill Lime Products .....	Box 25, Cobble Hill .....	Cobble Hill
Consolidated Mining and Smelting Co. of Canada, Ltd. <sup>1</sup> .....	Trail .....	Norkay
Domtar Chemicals Ltd., Gypsum Lime Division .....	Box 506, Station F, Toronto, Ontario .....	Blubber-Bay
Fraser Valley Lime Supplies .....	7583 Edmonds St., Burnaby .....	Popkum
Ideal Cement Company Limited .....	1155 Georgia St., Vancouver 5 .....	Nanaimo
Imperial Limestone Co. Ltd. ....	Van Anda .....	Van Anda
International Marble & Stone Co. Ltd. ....	4344 Macleod Trail, Calgary, Alberta .....	Sirdar
Koeye Limestone (1962) Ltd. ....	Bella Bella .....	Koeye River
Lafarge Cement of North America Ltd. ....	1051 Main St., Vancouver 4 .....	Van Anda
<b>MARBLE</b>		
<b>Quebec:</b>		
Cape, E.G.M. Co. (1956) Ltd. ....	4898 Western Ave., Westmount, Montreal 6.....	Westmount
Carrières St. Armand Ltée .....	St. Armand .....	Mississquoi Co.
Cement Distributors Ltd. ....	5757 Decelles Ave., Montreal 26 .....	Val Barrette
Delbo Inc. ....	Bonsecours .....	North Stukely
Industrial Fillers Ltd. ....	33-21ème rue, Iberville .....	St. Armand
Mississquoi Marble & Stone Corp. <sup>1</sup> .....	Philipsburg .....	Philipsburg
Orford Marble Co. Ltd. ....	St. Leonard .....	North Stukely
South Stukely Marble and Terrazzo .....	South Stukely .....	South Stukely
Waterloo Mines Inc. ....	Waterloo .....	South Stukely
<b>Ontario:</b>		
Anglestone Limited .....	Preston .....	Hopetown, Oso Twp. and Tatlock
Bolender's Limited <sup>1</sup> .....	Haliburton .....	Eagle Lake
Banter W.F& Co. Ltd. ....	Box 130, Clarkson .....	Malone
Canada Talc Industries Ltd. ....	Box 250, Madoc .....	Madoc
Stoklosar Marble Quarries Ltd. <sup>2</sup> .....	Box 389, Madoc .....	Madoc
<b>SANDSTONE</b>		
<b>Prince Edward Island:</b>		
Prince Edward Island Department of Highways .....	Charlottetown .....	Various
<b>Nova Scotia:</b>		
Arsenault Monumental Works .....	Box 76, Antigonish .....	North Grant
Coughlan, James S., Marble & Granite Works <sup>2</sup> .....	1-31 Bedford Rd., Halifax .....	Ostrea Lake
Goulet, Mrs. A. <sup>2</sup> .....	Box 12, Lake Echo .....	Lake Echo
Nova Scotia Department of Highways .....	Halifax .....	Various
Wallace Quarries Ltd. <sup>2</sup> .....	Wallace .....	Wallace
<b>New Brunswick:</b>		
New Brunswick Department of Highways .....	Fredericton .....	Various
Smith, E.A., Estate <sup>1</sup> .....	Shediac .....	Shediac
<b>Quebec:</b>		
Bissonnette, Alfred .....	Laval sur le lac .....	Laval sur le lac
Cartière Trois Pistoles .....	Trois Pistoles .....	Trois Pistoles
Gagnon, L.P., Ltée .....	7 ave, Gagnon, Lévis .....	St. David
Bon Ore Company of Canada .....	Sept-Îles .....	Schefferville
Modern Paving Construction (Quarry Division) .....	Bon Conseil .....	Bon Conseil
Notre Dame Quarries Company Ltd. ....	Bon Conseil .....	Bon Conseil
Pavage Frontenac Ltée .....	Princeville .....	Princeville
Sherbrooke, City of .....	Sherbrooke .....	Ascot
Edward Adjutor Inc. ....	Pointe-au-Pic .....	Pointe-au-Pic
Union Carbide Canada Ltd. ....	123 Eglinton Ave. E., Toronto, Ontario .....	Melocheville

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## Operators of Stone Quarries, 1962 - Concluded

Name	Head office address	Location
<b>SANDSTONE - Concluded</b>		
<b>Ontario:</b>		
Campbell Sandstone Quarries .....	R.R. 2, Bell's Corners.....	Bell's Corners
Cohoon, W.J. ....	Limehouse .....	Limehouse
Corner's Sandstone Quarries Ltd. ....	Belfountain .....	Belfountain
Deforest Bros. ....	Terra Cotta .....	Inglewood
Garvin & Logan .....	Glen Williams .....	Inglewood
Kingston Quarries Ltd. ....	Box 99, Agincourt.....	Kingston
McAlpine Quarry .....	Inglewood.....	Caledon Twp.
Norrie, Steve .....	27 Mountain View Rd., Georgetown .....	Inglewood
Norton, H. ....	Limehouse .....	Glen Williams
Primeau Argo Block Co. Ltd. (Hilltop Quarry) .....	449 Hensall Circle, Cooksville .....	Georgetown
Rice and McHarg Ltd. ....	R.R. 1 Limehouse.....	Limehouse
Ross, John M. ....	Thistledown.....	Inglewood
Smithson Quarries .....	Terra Cotta .....	Georgetown
Structural Sandstone .....	Georgetown .....	Inglewood
Walker Bros. Quarry .....	Inglewood.....	Inglewood
Wilson, A., Quarries .....	Laurel.....	Inglewood
Zilio A. ....	Terra Cotta .....	Terra Cotta
<b>Alberta:</b>		
Sll San Company .....	Box 95, Exshaw .....	Exshaw
Thunderstone Quarries Ltd. ....	Box 992, Calgary .....	Calgary
<b>British Columbia:</b>		
Consolidated Mining and Smelting Co. of Canada Ltd. ....	Trail .....	Kimberley
<b>SHALE</b>		
<b>Quebec:</b>		
Carrières et Excavations Bonneau Ltée (Les) <sup>1</sup> .....	218 Bedford Ave., St. Lambert .....	Lafleche
<b>Alberta:</b>		
Burtx Industries Limited .....	2620 Blackburn Rd., Calgary .....	Calgary
<b>British Columbia:</b>		
British Columbia Lightweight Aggregates Ltd. ....	475 Howe St., Vancouver.....	Saturna Island
Mountain Minerals Ltd. ....	Box 700, Lethbridge, Alberta .....	Canal Flats
<b>SLATE</b>		
<b>Quebec:</b>		
Bombardier, J.A., Les Entreprises de, Ltée <sup>1</sup> .....	Valcourt .....	Valcourt
Rockland Slate Reg'd <sup>1</sup> .....	Kingsbury.....	Richmond
<b>British Columbia:</b>		
Richland Industrial Minerals Ltd. ....	2890 Kent St., Vancouver 1.....	Mc Nabb Creek

<sup>1</sup> Did not ship in 1962.<sup>2</sup> Firms operating dressing works in conjunction with quarry.