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GOVERNMENT OF CANADA



THE STONE INDUSTRY

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Canada

DOMINION BUREAU OF STATISTICS - DEPARTMENT OF TRADE AND COMMERCE

THE STONE INDUSTRY, 1949

Published by Authority of the Rt. Hon. C.D. Howe
Minister of Trade and Commerce

Prepared in the Mining, Metallurgical and Chemical Section
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Dominion Bureau of Statistics, Ottawa

NOTICE

It has been the practice of the Bureau of Statistics, since 1920, to issue an annual printed report on the Mineral Production of Canada. This report was comprised to a large extent of the data which had already been issued in bulletin form as statistics for each industry were completed. The final report was necessarily late in being issued, and its main use was for library purposes and for historical research. It also had the advantage of having complete statistics of the Canadian Mining Industry for a year in one volume.

Such a procedure necessitated the preparation of new manuscript, duplication of proof-reading, and extra costs in type-setting and printing. In order to avoid this extra cost, a system has been devised whereby libraries and other similar organizations may file the separate reports in a ring binder as issued, and if they so desire, may have them bound in a volume when the series for the year is complete.

The reports have been paged in such a manner that when bound they will correspond to the chapters of the annual printed report hitherto issued, but which will now be discontinued.

The following reports will constitute the complete volume on Mineral Statistics of Canada:

- A General Review of the Mining Industry
- B The Gold Mining Industry
- C The Silver-Lead-Zinc Mining Industry
- D The Nickel-Copper Mining, Smelting and Refining Industry
- E The Miscellaneous Metal Mining Industry
- F The Non-ferrous Smelting and Refining Industry
- G The Coal Mining Industry
- H The Natural Gas and Crude Petroleum Industry
- I The Asbestos Mining Industry
- J The Feldspar and Quartz Mining Industry
- K The Gypsum Industry
- L The Peat Industry
- M The Salt Industry
- N The Talc and Soapstone Industry
- O The Miscellaneous Industrial or Non-metallic Minerals Mining Industry
- P The Cement Manufacturing Industry
- Q The Clay and Clay Products Industry
- R The Lime Industry
- S The Sand and Gravel Industry
- T The Stone Industry
- U Contract Diamond Drilling in the Mining Industry
- V Appendix — Explanatory notes on the method of computing the quantities and values of the Mineral Production of Canada.

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THE STONE INDUSTRY, 1949

The Stone Industry is made up of two main divisions: (1) **The Stone Quarrying Industry**, including quarries and dressing works operated in conjunction with Quarries; (2) **The Stone Products Industry**, comprising the operations of firms having no quarries but which operate dressing works where stone for building and monumental purposes is cut, polished

or otherwise finished. In the Census of Industry, statistics on the stone quarrying industry are included under Mining, while statistics of the stone products industry are included under Manufactures. For convenience, this report carries data for both of these industries.

PRIMARY PRODUCTION — THE STONE QUARRYING INDUSTRY

The kinds of stone quarried in Canada include granite (trap rock, syenite and other igneous rock), limestone, marble, sandstone, and slate. Rocks of the igneous areas of British Columbia, Manitoba, Ontario, Quebec and Maritime Provinces exhibit a wide range of physical characteristics, some varieties being especially noted for their richness of colour and beauty of crystallization. Sedimentary rocks, including limestones, sandstones and marbles are worked at various locations and the quarries operating in these different formations not only yield high class structural and decorative products but also provide materials for the chemical and allied industries.

During 1949, the 549 operating quarries shipped 13,928,039 tons of stone valued at \$20,528,073, compared with 11,696,643 tons worth \$17,948,553 in the preceding year. These figures do not include the

stone used in the manufacture of cement and lime. Shipments of granite and other igneous rock amounted to 2,321,017 tons valued at \$5,110,024, and shipments of sedimentary rock included limestone, 10,951,312 tons worth \$13,876,845; marble, 52,152 tons valued at \$446,905; sandstone, 596,989 tons valued at \$1,014,084; and slate, 6,569 tons worth \$80,215.

Quarries located in Quebec contributed 43.5 per cent of the total value of production. Ontario quarries accounted for 36 per cent and British Columbia shipments amounted to 9.6 per cent of the total.

The industry purchased 36,790,940 k.w.h. of electricity for \$542,360, fuel cost \$829,017 and process supplies cost \$2,028,226. The average number of employees in the quarrying industry was 3,728.

TABLE 1. Principal Statistics of the Stone Quarrying Industry, 1947-1949

	1947	1948	1949
Number of firms.....	409	435	451
Number of employees:			
Administrative and office	216	226	261
Workmen	2,950	2,856	3,467
Total	3,166	3,082	3,728
Earnings:			
Administrative and office	\$ 438,980	539,308	592,996
Workmen	\$ 4,941,279	5,451,614	7,022,576
Total	\$ 5,380,259	5,990,922	7,615,572
Gross selling value of products at quarries	\$ 16,464,749	17,948,553	20,528,073
Cost of fuel and electricity.....	\$ 989,408	1,141,208	1,371,377
Process supplies used.....	\$ 1,266,522	1,476,455	2,028,226
Net value of products	\$ 14,208,319	15,230,390	17,128,470

MINERAL STATISTICS OF CANADA

TABLE 2. Principal Statistics of the Stone Quarrying Industry, by Provinces, 1948 and 1949

Province	Number of quarries	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of process supplies at works	Gross selling value of products at works
1948						
Nova Scotia.....	28	156	264,343	40,791	76,129	681,297
New Brunswick.....	8	103	171,008	28,168	14,130	437,129
Quebec.....	158	1,753	3,187,781	604,681	754,928	8,741,897
Ontario.....	210	833	1,885,340	411,680	541,292	6,338,253
Manitoba.....	9	69	123,658	19,024	18,785	282,279
Saskatchewan.....	-	-	-	-	-	-
Alberta.....	3	-	-	20	-	57,444
British Columbia.....	138	168	358,792	36,844	71,191	1,410,254
Canada	564	3,082	5,990,922	1,141,208	1,476,455	17,948,553
1949						
Newfoundland.....	4	149	342,175	58,480	164,305	635,975
Nova Scotia.....	26	173	278,257	53,530	103,550	653,913
New Brunswick.....	10	115	185,839	42,080	11,765	532,982
Quebec.....	176	1,983	3,850,753	657,678	1,100,424	8,930,495
Ontario.....	211	952	2,173,679	487,983	539,991	7,380,457
Manitoba.....	11	110	214,038	31,121	26,880	369,054
Saskatchewan.....	-	-	-	-	-	-
Alberta.....	2	-	-	-	-	55,025
British Columbia.....	109	246	570,831	40,525	81,311	1,970,172
Canada	549	3,728	7,615,572	1,371,377	2,028,226	20,528,073

TABLE 3. Production (Sales) of Stone from Canadian Quarries, by Kinds and by Provinces, 1948 and 1949

Province	Granite ¹	Limestone ²	Marble	Sandstone	Slate	Total
1948						
Nova Scotia..... tons	553	135,577	-	103,528	-	239,658
\$	105,991	306,107	-	269,199	-	681,297
New Brunswick..... tons	418	132,120	-	5,940	-	138,478
\$	22,760	335,519	-	78,850	-	437,129
Quebec..... tons	155,031	4,331,904	18,075	375,404	345	4,880,759
\$	2,218,520	5,724,490	258,720	538,304	863	8,741,897
Ontario..... tons	469,789	4,485,489	49,847	12,815	-	5,017,940
\$	1,114,060	4,864,108	260,809	99,276	-	6,338,253
Manitoba..... tons	395	147,444	-	-	-	147,839
\$	7,299	274,980	-	-	-	282,279
Alberta..... tons	-	14,298	-	-	-	14,298
\$	-	57,444	-	-	-	57,444
British Columbia..... tons	416,742	756,310	425	80,200	3,994	1,257,671
\$	310,806	960,627	8,000	80,200	50,621	1,410,254
Canada tons	1,042,928	10,003,142	68,347	577,887	4,339	11,696,643
\$	3,779,436	12,523,275	528,529	1,065,829	51,484	17,948,553
1949						
Newfoundland..... tons	20,040	372,223	-	-	-	392,263
\$	40,080	595,895	-	-	-	635,975
Nova Scotia..... tons	56,232	108,597	-	87,812	-	252,641
\$	253,792	257,090	-	143,031	-	653,913
New Brunswick..... tons	2,314	124,964	-	91,918	-	219,196
\$	51,568	305,357	-	176,057	-	532,982
Quebec..... tons	578,098	4,120,128	18,721	363,476	628	5,081,051
\$	2,578,169	5,563,893	267,272	520,607	554	8,930,495
Ontario..... tons	452,649	5,150,245	33,131	13,503	-	5,649,528
\$	1,461,131	5,611,134	174,083	134,109	-	7,380,457
Manitoba..... tons	1,267	184,650	-	-	-	185,917
\$	5,676	363,378	-	-	-	363,054
Alberta..... tons	-	13,632	-	-	-	13,632
\$	-	55,025	-	-	-	55,025
British Columbia..... tons	1,210,417	876,873	300	40,280	5,941	2,133,811
\$	719,608	1,125,073	5,550	40,280	79,661	1,970,172
Canada tons	2,321,017	10,951,312	52,152	596,989	6,569	13,928,039
\$	5,110,024	13,876,845	446,905	1,014,084	80,215	20,528,073

1. All igneous rocks included.

2. Includes dolomite, also marl for agricultural purposes.

Note. Not included in the above limestone statistics are 3,449,947 tons of limestone consumed in the cement industry in 1948 and 3,985,407 tons in 1949. Also, the limestone used in the lime industry is not included; it is estimated that approximately 1,860,890 tons of limestone were burned in the manufacture of lime in 1948 and 1,791,636 tons in 1949.

THE STONE INDUSTRY

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**TABLE 4. Production (Sales) of Stone¹ from Canadian Quarries, by Provinces, Showing Purposes for Which Used,
1948 and 1949**

MINERAL STATISTICS OF CANADA

TABLE 4. Production (Sales) of Stone¹ from Canadian Quarries, by Provinces, Showing Purposes for Which Used, 1948 and 1949 - Conc.

For use as follows	Newfound- land	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada
1949									
Building stone:									
Rough..... tons	-	200	500	16,745	22,498	2,228	-	938	43,109
\$	-	480	14,000	159,178	212,821	41,831	-	13,455	441,765
Dressed..... tons	-	164	1,880	25,987	9,865	7,489	-	1,208	46,593
\$	-	16,203	118,000	1,534,217	160,812	123,299	-	45,304	1,997,835
Monumental and or- namental stone:									
Rough..... tons	-	-	350	8,970	486	-	-	1,380	11,186
\$	-	-	5,600	185,747	8,798	-	-	21,700	221,845
Dressed..... tons	-	4,470	56	7,145	-	18	-	71	11,760
\$	-	125,861	10,924	1,000,326	-	1,500	-	10,400	1,149,011
Flagstone..... tons	-	-	25	759	2,913	770	-	-	4,467
\$	-	-	250	21,406	29,980	1,230	-	-	52,866
Curbstone..... tons	-	-	-	-	-	-	-	-	-
\$	-	-	-	-	-	-	-	-	-
Paving blocks..... tons	-	-	-	251	-	-	-	-	251
\$	-	-	-	4,132	-	-	-	-	4,132
Chemical and metal- lurgical:									
Lining open-hearth furnaces .. tons	-	29,156	-	-	24,697	3,592	-	-	57,445
\$	-	72,300	-	-	29,636	6,268	-	-	108,204
Flux in iron and steel furnaces... tons	340,751	-	-	6,156	466,937	1,099	-	34,297	849,240
\$	511,126	-	-	8,395	484,683	3,034	-	45,960	1,053,198
Flux in non-ferrous smelters .. tons	-	-	-	-	77,839	-	-	49,687	127,526
\$	-	-	-	-	82,611	-	-	54,319	136,930
Glass factories .. tons	-	-	-	280	6,584	-	5,439	-	12,303
\$	-	-	-	821	19,020	-	10,060	-	29,901
Pulp and paper mills..... tons	19,977	5,500	4,001	132,439	61,355	7,013	-	97,813	328,098
\$	47,868	17,000	9,462	354,273	150,935	21,374	-	220,178	821,090
Sugar refineries.. tons	-	-	31	6,680	-	-	-	-	6,711
\$	-	-	176	13,360	-	-	-	-	13,536
Other chemical uses .. tons	-	-	-	176	6,056	-	-	-	6,231
\$	-	-	-	220	5,210	-	-	-	5,430
Pulverized stone:									
Whiting (substi- tute)..... tons	-	-	-	8,130	7,290	-	-	237	15,087
\$	-	-	-	97,560	35,522	-	-	3,081	136,163
Asphalt filler.... tons	2,000	523	10,416	15,369	3,398	-	-	2,470	34,176
\$	4,000	1,515	39,274	57,305	3,467	-	-	21,021	126,582
Dusting coalmines. tons	-	-	-	-	-	-	4,404	-	280
\$	-	-	-	-	-	-	22,020	2,030	4,684
Agricultural pur- poses and fer- tilizer plants .. tons	513	66,653	94,225	376,528	93,159	2,078	507	15,807	649,470
\$	2,308	158,046	247,322	656,954	165,308	2,785	2,535	67,933	1,303,191
Other uses .. tons	-	-	-	26,736	21,403	1,383	-	50	49,572
\$	-	-	-	80,948	59,888	1,706	-	550	143,092
Crushed stone for manufacture of artificial stone... tons	-	-	-	2,827	2,497	-	-	-	5,324
\$	-	-	-	11,610	15,082	-	-	-	26,892
Roofing granules ... tons	-	-	-	-	36,254	-	-	3,471	39,725
\$	-	-	-	-	287,426	-	-	58,640	346,066
Poultry grit..... tons	-	-	-	797	8,236	-	3,282	1,269	13,584
\$	-	-	-	11,075	56,261	-	20,410	13,048	100,794
Stucco dash..... tons	-	-	-	2,500	676	-	-	1,335	4,511
\$	-	-	-	21,250	7,908	-	-	16,107	45,265
Terrazzo chips..... tons	-	-	-	6,448	7,963	-	-	-	14,411
\$	-	-	-	76,947	100,071	-	-	-	177,018
Rock wool..... tons	-	-	350	-	-	-	-	-	350
\$	-	-	350	-	-	-	-	-	350
Rubble and riprap .. tons	-	51,500	8,248	430,862	416,097	-	-	1,246,262	2,152,969
\$	90,125	8,888	624,555	985,394	-	-	-	704,033	2,412,995
Crushed stone:									
Concrete aggregate. tons	6,580	2,600	334	2,819,244	635,924	78,860	-	-	3,541,542
\$	20,727	6,240	668	2,732,054	757,535	90,125	-	-	3,607,349
Road metal..... tons	24,442	90,398	108,673	756,300	3,384,161	79,879	-	675,706	5,119,559
\$	53,946	163,658	115,827	844,101	3,384,551	72,320	-	670,883	5,305,286
Railroad ballast. tons	-	-	-	434,675	341,269	110	-	1,530	777,584
\$	-	-	-	451,892	283,700	115	-	1,530	737,237
Total tons	392,263	252,641	219,196	5,081,051	5,649,528	185,917	13,632	2,133,811	13,928,039
\$	635,975	653,913	532,982	8,930,495	7,380,457	369,054	55,025	1,970,172	20,528,073
Per cent of total.... Quan.	2.82	1.81	1.57	36.48	40.56	1.33	0.11	15.32	100.00
\$	3.10	3.18	2.60	43.50	35.95	1.80	0.27	9.60	100.00

1. Includes the production of slate and marl.

TABLE 5. Production (Sales) of Stone from Canadian Quarries, by Kinds, Showing Purposes for Which Used, 1948 and 1949

For use as follows	Granite ¹	Limestone ²	Marble	Sandstone	Slate	Total
1948						
Building stone:						
Rough.....	tons \$	4,836 37,527	28,491 178,660	490 5,950	9,171 80,359	— —
Dressed.....	tons \$	9,260 682,494	25,849 1,156,020	366 67,710	1,650 87,600	— —
						42,988 302,496 37,125 1,993,824
Monumental and ornamental stone:						
Rough.....	tons \$	12,783 245,030	— —	140 5,798	20 2,025	— —
Dressed.....	tons \$	8,013 1,238,987	50 1,500	— —	— —	12,943 252,853 8,063 1,240,487
Flagstone.....	tons \$	400 600	827 13,457	— —	3,358 30,141	— —
Curbstone.....	tons \$	3 76	— —	— —	158 1,105	— —
Paving blocks	tons \$	494 5,679	— —	— —	— —	161 1,181
						494 5,679
Chemical and metallurgical:						
Lining open-hearth furnaces	tons \$	— —	58,916 104,415	— —	— —	58,916 104,415
Flux in iron and steel furnaces.....	tons \$	— —	448,156 417,862	— —	1,926 14,476	— —
Flux in non-ferrous smelters.....	tons \$	— —	127,758 132,095	— —	— —	127,758 132,095
Glass factories.....	tons \$	— —	10,612 32,783	— —	— —	10,612 32,783
Pulp and paper mills.....	tons \$	— —	337,288 787,972	16,373 33,249	— —	353,661 821,221
Sugar refineries	tons \$	— —	11,497 13,854	— —	— —	11,497 13,854
Other chemical uses	tons \$	— —	22,051 20,320	— —	— —	22,051 20,320
Pulverized stone:						
Whiting (substitute).....	tons \$	— —	7,997 51,469	9,995 120,440	— —	— —
Asphalt filler	tons \$	— —	26,972 104,972	— —	— —	17,992 171,909
Dusting coal mines.....	tons \$	— —	3,995 16,468	— —	— —	3,995 16,468
Agricultural purposes and fertilizer plants... Other uses.....	tons \$	— —	595,421 1,206,639	— —	— —	595,421 1,206,639
						58,901 231,433
Crushed stone for manufacture of artificial stone ...	tons \$	— —	2,000 10,000	855 5,691	— —	2,855 15,691
Roofing granules.....	tons \$	61,109 324,358	— —	— —	— —	2,231 36,517
Poultry grit.....	tons \$	926 9,105	10,269 67,857	8,769 48,417	— —	19,964 125,379
Stucco dash	tons \$	438 5,245	2,230 26,760	3,920 34,920	— —	6,588 66,925
Terrazzo chips	tons \$	— —	1,313 6,492	9,891 110,360	— —	11,204 116,852
Rubble and riprap.....	tons \$	787,072 933,118	232,993 243,082	— —	181,467 292,822	345 863
						1,201,877 1,489,885
Crushed stone:						
Concrete aggregate.....	tons \$	53,395 81,445	2,918,377 2,972,080	— —	26,037 62,899	— —
Road metal	tons \$	104,199 215,772	4,421,853 4,256,337	— —	42,649 86,773	— —
Railroad ballast.....	tons \$	— —	666,874 566,742	— —	311,451 407,629	— —
						2,997,809 3,116,424 4,568,701 4,558,882 978,325 974,371
Total ²	tons \$	1,042,928 3,779,436	10,003,142 12,523,275	68,347 528,529	577,887 1,065,829	4,339 51,484
						11,696,643 17,948,353

1. Includes all igneous rock

2. Does not include limestone used in Canadian lime and cement industries but includes marl used for agricultural purposes.

TABLE 5. Production (Sales) of Stone from Canadian Quarries, by kinds, Showing Purposes for Which Used, 1948 and 1949 - Conc.

For use as follows	Granite ¹	Limestone ²	Marble	Sandstone	Slate	Total
1949						
Building stone:						
Rough..... tons	9,538	22,757	515	10,299	-	43,109
\$	111,020	208,901	11,240	110,604	-	441,765
Dressed..... tons	8,859	35,314	287	2,133	-	46,593
\$	572,496	1,248,664	59,250	117,425	-	1,997,835
Monumental and ornamental stone:						
Rough..... tons	10,850	-	146	190	-	11,186
\$	215,211	-	6,199	435	-	221,845
Dressed..... tons	11,742	18	-	-	-	11,760
\$	1,147,511	1,500	-	-	-	1,149,011
Flagstone..... tons	540	1,600	-	2,327	-	4,467
\$	798	22,326	-	29,742	-	52,866
Curbstone..... tons	-	-	-	-	-	-
\$	-	-	-	-	-	-
Paving blocks..... tons	251	-	-	-	-	251
\$	4,132	-	-	-	-	4,132
Chemical and metallurgical:						
Lining open-hearth furnaces..... tons	-	57,445	-	-	-	57,445
\$	-	108,204	-	-	-	108,204
Flux in iron and steel furnaces..... tons	-	847,614	-	1,626	-	849,240
\$	-	1,040,190	-	13,008	-	1,053,198
Flux in non-ferrous smelters..... tons	-	127,526	-	-	-	127,526
\$	-	136,930	-	-	-	136,930
Glass factories..... tons	-	12,303	-	-	-	12,303
\$	-	29,901	-	-	-	29,901
Pulp and paper mills..... tons	-	308,421	19,677	-	-	328,098
\$	-	778,806	42,284	-	-	821,090
Sugar refineries..... tons	-	6,711	-	-	-	6,711
\$	-	13,536	-	-	-	13,536
Other chemical uses..... tons	-	6,232	-	-	-	6,232
\$	-	5,430	-	-	-	5,430
Pulverized stone:						
Whiting (substitute)..... tons	-	7,527	8,130	-	-	15,657
\$	-	38,603	97,560	-	-	136,163
Asphalt filler..... tons	2,000	29,706	-	-	2,470	34,176
\$	4,000	101,561	-	-	21,021	126,583
Dusting coal mines..... tons	-	4,684	-	-	-	4,684
\$	-	24,050	-	-	-	24,050
Agricultural purposes and fertilizer plants..... tons	-	649,220	250	-	-	649,470
\$	-	1,298,356	4,835	-	-	1,303,191
Other uses..... tons	-	44,961	4,611	-	-	49,572
\$	-	118,304	24,788	-	-	143,092
Crushed stone for manufacture of artificial stone.... tons	350	3,689	1,285	-	-	5,324
\$	4,200	16,350	6,342	-	-	26,892
Roofing granules..... tons	36,254	-	-	-	3,471	39,725
\$	287,426	-	-	-	58,640	346,066
Poultry grit..... tons	1,379	10,362	1,843	-	-	13,584
\$	15,950	75,872	8,972	-	-	100,794
Stucco dash..... tons	629	1,271	2,611	-	-	4,511
\$	7,605	15,252	22,408	-	-	45,265
Terrazzo chips..... tons	-	1,614	12,797	-	-	14,411
\$	-	13,991	163,027	-	-	177,018
Rock wool..... tons	-	-	-	350	-	350
\$	-	-	-	350	-	350
Rubble and riprap..... tons	1,624,861	337,239	-	190,241	628	2,152,969
\$	1,818,187	361,182	-	233,072	554	2,412,995
Crushed stone:						
Concrete aggregate..... tons	377,922	3,136,050	-	27,570	-	3,541,542
\$	424,812	3,133,124	-	49,413	-	3,607,349
Road metal..... tons	235,842	4,748,662	-	135,055	-	5,119,559
\$	496,676	4,645,730	-	162,880	-	5,305,286
Railroad ballast..... tons	-	550,386	-	227,198	-	777,584
\$	-	440,082	-	297,155	-	737,237
Total ² tons	2,321,017	10,951,312	52,152	596,989	6,569	13,928,039
\$	5,110,024	13,876,845	446,905	1,014,084	80,215	20,528,073

1. Includes all igneous rock.

2. Does not include limestone used in Canadian lime and cement industries but includes marl used for agricultural purposes.

TABLE 6. Production of Stone for Building Purposes, Chemical Use, Cement Manufacture, Concrete Aggregate, Road Metal and Railroad Ballast, 1940-1949

Year	Building stone	For chemical purposes ¹	For concrete aggregate	For road metal	For railroad ballast	For cement manufacture ²
1940..... tons \$	97,336 722,514	725,685 681,796	2,673,078 2,171,487	2,300,613 1,885,744	896,408 741,772	1,784,291 -
1941..... tons \$	54,262 653,077	965,690 889,574	2,581,583 1,986,226	2,958,613 2,484,393	446,505 322,348	2,113,618 -
1942..... tons \$	24,897 361,781	1,236,044 1,651,982	2,924,737 2,424,357	2,275,706 1,877,473	683,317 527,814	2,188,248 -
1943..... tons \$	17,087 314,428	1,329,226 1,330,127	1,981,222 1,727,889	2,108,428 1,989,509	852,928 704,389	1,994,202 -
1944..... tons \$	23,142 396,202	1,109,362 1,170,372	1,852,335 1,600,692	1,498,258 1,352,796	869,042 688,471	1,939,900 -
1945..... tons \$	56,711 751,401	1,051,514 1,215,169	1,908,460 1,596,256	1,552,839 1,468,045	820,987 678,205	1,919,858 -
1946..... tons \$	70,928 1,411,298	871,148 1,064,065	2,473,643 2,154,069	2,472,033 2,215,167	1,127,775 971,595	2,625,008 -
1947..... tons \$	102,841 2,098,865	1,204,601 1,746,172	3,178,063 3,336,871	4,177,636 4,007,730	898,612 774,878	3,100,829 -
1948..... tons \$	80,113 2,296,320	975,661 1,452,611	2,997,809 3,116,424	4,568,701 4,558,882	978,325 974,371	3,528,324 -
1949..... tons \$	89,702 2,439,600	1,330,110 2,060,085	3,541,542 3,607,349	5,119,559 5,305,286	777,584 737,237	4,061,607 -

1. Does not include limestone used in Canadian lime industry which totalled 1,737,508 tons in 1949.

2. Includes shale. In 1949 this production totalled 76,200 tons.

TABLE 7. Imports and Exports of Stone, by Kinds, 1948 and 1949

	1948		1949	
	Quantity	Value	Quantity	Value
IMPORTS				
Building stone n.o.p..... cwt.	705,801	\$ 387,279	337,225	244,967
Curling stones and handles therefor..... pairs	1,729	57,983	2,045	66,440
Granite, rough, not hammered or chiselled..... -	-	156,196	-	156,893
Granite, sawn only..... -	-	40,571	-	44,104
Granite, manufactures of, n.o.p..... -	-	23,528	-	30,683
Marble, rough, not hammered or chiselled..... -	-	61,809	-	69,810
Marble, sawn or sand rubbed, not polished	-	95,431	-	64,528
Marble, not further manufactured than sawn for tombstones	-	64,129	-	66,847
Marble, manufactures of, n.o.p..... -	-	10,291	-	28,182
Refuse stone	tons 91,898	61,487	26,180	22,025
Slate roofing..... square	438	11,472	967	.19,784
Slate mantels and manufactures of slate, n.o.p..... -	-	64,921	-	41,209
Chalk, china, cornwall or cliff stone and mica schist	-	24,647	-	19,908
Mineral wool..... tons 55	8,795	84	10,472	
Whiting, gilders' whiting and Paris white..... tons 17,120	372,321	19,361	411,487	
Manufactures of stone, n.o.p..... -	-	733,746	-	338,915
Chalk, prepared..... -	-	6,689	-	4,611
Pumice and pumice stone and lava tufa..... -	-	108,684	-	105,977
Grindstones, not mounted and not less than 36 inches in diameter..... No. 806	62,422	376	32,618	
Grindstones, n.o.p..... No. 680	5,318	784	4,430	
Burrstones, rough, in blocks	No. 9	347	51	1,730
Ganister	cwt. 4,596	1,312	3,523	1,631
Total	-	2,379,378	-	1,806,731
EXPORTS				
Crushed stone..... tons 1,346	4,559	208	2,072	
Granite and marble, unwrought..... tons 5,124	99,434	5,568	125,144	
Dressed stone of all kinds..... -	11,520	-	6,010	
Grindstones, manufactured..... -	21,619	-	21,242	
Total	-	137,132	-	154,468

TABLE 8. Workmen in the Stone Quarrying Industry, by Months, 1948 and 1949

Month	1948			1949		
	Quarry		Dressing works	Quarry		Dressing works
	Male	Female	Male	Male	Female	Male
January.....	1,475	3	598	1,749	-	651
February.....	1,428	3	631	1,765	1	660
March.....	1,517	3	652	1,997	2	719
April.....	2,052	3	701	2,630	2	769
May.....	2,430	3	714	3,206	2	788
June.....	2,553	4	733	3,367	1	817
July.....	2,582	2	714	3,413	1	777
August.....	2,612	2	726	3,435	2	830
September.....	2,542	2	688	3,184	3	839
October.....	2,510	2	702	3,002	3	832
November.....	2,307	1	672	2,593	3	824
December.....	2,008	1	623	1,955	4	748
Average.....	2,170	4	682	2,687	3	777

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

TABLE 9. Production of Granite¹, 1940-1949

Year	Short tons	\$	Year	Short tons	\$
1940.....	1,147,747	1,884,410	1945.....	221,630	1,284,748
1941.....	600,922	1,498,786	1946.....	319,354	2,006,297
1942.....	1,366,425	1,946,249	1947.....	551,527	3,175,364
1943.....	780,422	1,522,072	1948.....	1,042,928	3,779,436
1944.....	269,964	1,303,790	1949.....	2,321,017	5,110,024

1. Includes 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 requires little or no processing, but most of the output is crushed and screened for use as road metal, concrete aggregate, railroad ballast, 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 10. Production of Limestone¹, 1940-1949

Year	Short tons	\$	Year	Short tons	\$
1940.....	6,108,591	5,126,075	1945.....	5,677,192	6,284,379
1941.....	7,151,049	6,057,727	1946.....	7,217,600	8,178,513
1942.....	6,442,583	6,468,525	1947.....	9,497,754	11,966,520
1943.....	6,265,181	6,105,749	1948.....	10,003,142	12,523,275
1944.....	5,565,286	5,528,459	1949.....	10,951,312	13,876,845

1. Includes dolomite and marl; production of marl totalled 22,913 tons in 1943; 19,848 tons in 1944; 14,148 tons in 1945; 20,363 tons in 1946, 27,368 tons in 1947, 22,323 tons in 1948 and 43,181 tons in 1949.

MARBLE

Canada is well supplied with deposits of marble, and quarries are operated in Quebec, Ontario, Manitoba and British Columbia. The products in recent years have been mostly terrazzo chips, stucco dash, poultry grit, marble flour, whiting substitute, rubble, and material for making artificial stone, but in 1949 there was a greater production of squared blocks for sawing into slabs for interior decorative use than for many years.

In Quebec, clouded grey marbles and a black marble are obtained in the quarries of Missisquoi Stone and Marble Company, Limited, at Philipsburg, near the foot of Lake Champlain. Brown marble for counters and wainscoting is obtained from the building stone quarries in the Trenton limestone at St. Marc des Carrières, Portneuf county. Orford Marble Company, Limited produces red, green and grey serpentine marble near North Stukely, Shefford county. The product is mainly terrazzo, but several blocks have been quarried to test the soundness and beauty of colouring, and if results are satisfactory it is intended to produce block marble at this quarry in the near future. White dolomite is quarried and crushed by Canadian Dolomite Company, Limited, at Portage du Fort, Pontiac county, for terrazzo chips, stucco dash, artificial stone, and various other products.

In Ontario, black marble in blocks up to 40 inches thick is produced by Silvertone Black Marble Quarries, Limited, Ottawa, at St. Albert, 30 miles southeast of Ottawa. Buff, red, white, green, and black marbles are quarried north of Madoc by Karl Stocklasar, and by Connolly Marble, Mosaic and Tile Company, Limited, Toronto, for use as terrazzo. Verona Rock Products, Limited, Verona, produces poultry grit and stucco dash from white limestone. Bolender's, Limited produces white terrazzo and poultry grit at Eagle Lake.

In Manitoba, a number of highly coloured marbles are available along the Flin Flon and Hudson Bay railroads, and also at Fisher Branch and other places.

In British Columbia, there are many deposits of marble, but there is only a small production of white by Marble and Associated Products from a quarry near Victoria.

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

TABLE 11. Production of Marble, 1940-1949

Year	Short tons	\$	Year	Short tons	\$
1940.....	13,739	75,409	1945.....	13,388	113,337
1941.....	17,649	126,081	1946.....	21,796	201,817
1942.....	13,824	88,209	1947.....	45,574	326,605
1943.....	11,848	68,022	1948.....	68,347	528,529
1944.....	11,829	85,374	1949.....	52,152	446,905

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. Shipments of sandstone were made in 1949 from quarries located in all of the provinces with the exception of Prince Edward Island, Manitoba, Saskatchewan and Alberta.

The greater part of the crude output in 1949 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 under quartz as production.

TABLE 12. Production of Sandstone, 1940-1949

Year	Short tons	\$	Year	Short tons	\$
1940.....	176,475	305,543	1945.....	291,430	466,397
1941.....	169,885	305,528	1946.....	495,777	778,213
1942.....	153,865	236,810	1947.....	792,900	975,394
1943.....	164,163	250,603	1948.....	577,887	1,065,829
1944.....	146,766	223,453	1949.....	596,989	1,014,084

SLATE

Canadian slate production in 1949 came entirely from the provinces of Quebec and British Columbia and represented shipments of the stone in the form of granules for roofing purposes, riprap and asphalt

filling. 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 13. Production of Slate, 1940-1949

Year	Short tons	\$	Year	Short tons	\$
1940.....	1,113	7,522	1945.....	1,915	17,839
1941.....	1,296	12,562	1946.....	1,733	20,871
1942.....	1,369	16,801	1947.....	1,633	20,866
1943.....	1,336	17,733	1948.....	4,339	51,484
1944.....	1,147	18,101	1949.....	6,569	80,215

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 Suzar township in Quebec, in the Madoc area in Ontario and in British Columbia. The only plant in Canada which colours the granules is located at Havelock, Ontario.

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.

List of Firms in the Stone Quarrying Industry - 1949

Name	Head Office Address	Location
GRANITE		
NEWFOUNDLAND:		
Newfoundland Department of Highways	St. John's	Various
NOVA SCOTIA:		
Bower, A. R. ¹	P.O. Box 255, Shelburne	Shelburne
Dauphinee, W. T.	P.O. Box 68, Shelburne	Birchtown
Municipal Spraying and Contracting Ltd.	1350 Barrington St., Halifax	Bedford
Nictaux Granite Canada Ltd. ²	P.O. Box 299, Middleton	Nictaux
Nixon Granite Works ²	R.R. 3, Middleton	Nictaux West
NEW BRUNSWICK:		
Connolly, J. E. & D. P. ²	Bathurst	South Bathurst
Granite Street Pavement & Construction Co.	P.O. Box 1317, Saint John	Hampstead
Milne Coutts & Co. Ltd. ²	St. George	St. George
QUEBEC:		
Adru Granite Inc. ²	P.O. Box 83, Montreal	Beebe
Belanger, Philippe	10 Bellevue St., Shawinigan Falls	Shawinigan Falls
Bolduc, Antonio ²	St. Sebastien	Ste. Cecile
Brodies Ltd.	1070 Bleury St., Montreal	Grenetille, Guenette and Mount Johnson
Bussière & Frère Enrg. ²	St. Sebastien	St. Sebastien
Carrière Shawinigan Enrg.	Shawinigan Falls	Glenada
Carrière West Shefford	Granby	West Shefford
Cloutier, R. L. ²	Beebe	Beebe
Companie de Granit Noir du Canada Ltée. ²	316 Latulippe St. W., Rouyn	Beauchastel Tp.
Delwaide & Goffin Enrg.	1365 St. Valier St., Quebec	Ste. Anne
Deschambault Quarry Corp. ²	56 St. Pierre St., Quebec	St. Gérard
Dumas & Voyer ²	Rivière à Pierre	Rivière à Pierre
Everlasting Granite Co. Ltd., (The) ¹	Lac Megantic	St. Samuel
Gaboriault & Nevers Reg'd. ²	P.O. Box 65, Grenville	Grenville
Gagnon, Arthur	1740 Fourth St., Grand'Mère	Grand'Mère
Gingras & Frère Ltée. ²	Stanhope	Stanhope
Granite Products Ltd.	1070 Bleury St., Montreal	Rigaud
Granit National Ltée., Le ²	St. Joseph d'Alma	St. Gédéon and St. Joseph d'Alma
Grenier, Élie	Glenada	Glenada
Hasleton Granite Quarries ²	Beebe	Beebe
Héroux & Robert Ltée. ¹	1414 Crescent St., Montreal	St. Samuel
Laforce, H. & Fils Enrg.	1327 St. Valier St., Quebec	Ste. Anne
Laroche, Omer	Rivière à Pierre	Rivière à Pierre
Maitais, Chas.	St. Joseph d'Alma	St. Joseph d'Alma
Marvel Granite Reg'd.	17 Notre Dame St., Donnacona	St. Raymond
Massicotte, L. & Careau Ltée.	5 Fussey St., Cap de la Madeleine	La Tuque
McNamara Construction Co. Ltd.	42 Industrial St., Toronto, Ontario	Baie Comeau
Moreau, P. ²	Hebertville Station	Hebertville Station
North Shore Construction Co. Ltd.	Box 107, Station B, Montreal	Saguenay Co.
Notre Dame Quarries Company Limited	Bon Conseil	Bon Conseil
Perron, Arthur	Rivière à Pierre	Rivière à Pierre
Poisson, M.	Guenette	Guenette
Quebec Department of Roads	Quebec	Various
Quebec North Shore Paper Co.	680 Sherbrooke St. W., Montreal	Baie Comeau
St. Bruno Quarry & Paving Co. Inc.	636 Ave. Querbes, Outremont	St. Bruno
St. Pierre, J.	Guenette	Guenette
St. Samuel Granite ²	St. Samuel Station	St. Samuel Station
Scotstown Granite Co. Ltd.	Cap St. Martin	Cap St. Martin
Shawinigan Engineering Co. Ltd.	600 Dorchester St. W., Montreal	Shawinigan Falls
Silver Granite Co. Ltd. ²	2251 rue Delormier, Montreal	St. Samuel
Simard & Frère Clé Ltd.	Amos	Amos
Stanstead Granite Quarries Company Limited ²	Beebe	Graneteville
Super Service Bureau Enrg.	Rouyn	Rouyn
Tremblay, Rosaire	Rivière-Portneuf	Rivière Portneuf
Trudel, N. & Fils	St. Irenée	St. Irenée
Waddell, Arthur	Ste. Thérèse de Blainville	Ste. Thérèse
White Diamond Granite Co. Ltd.	1043 Blvd. des Forges, Trois Rivières	St. Gerard
ONTARIO:		
Building Products Ltd.	P.O. Box 6063, Montreal, Quebec	Madoc
Canadian Dredge & Dock Co. Ltd.	302 Harbour Commission Bldg., Toronto	Port Arthur
Hall, Wilfred	36 Burritt St., Parry Sound	Mill Lake
Horne, Wm., Granite Quarries	Butler via Ignace	Butler
Ontario Rock Co. Ltd.	2 College St., Toronto	Belmont Tp.
Verona Rock Products Ltd.	Verona	Verona
MANITOBA:		
Manitoba Department of Highways	Winnipeg	Various
Winnipeg Marble Co. Ltd. ²	1180 Wall St., Winnipeg	West Hawk Lake

¹. Did not ship in 1949.². Firms operating dressing works in conjunction with quarry.

List of Firms in the Stone Quarrying Industry - 1949 - Con.

Name	Head Office Address	Location
GRANITE — concluded		
BRITISH COLUMBIA:		
B. C. Monumental Works Ltd. ¹	3096 Main St., Vancouver.....	Granite Island
Canadian National Railways.....	Montreal, Quebec.....	Yale, Pitman, Copper Creek and Ashcroft
Coast Quarries Ltd.....	1840 West Georgia St., Vancouver.....	Granite Falls
Gilley Bros. Ltd.....	902 Columbia St., New Westminster.....	New Westminster
Trail, City of.....	1394 Pine Ave., Trail.....	Trail
Valley Granite Products.....	Cheam-View.....	New Westminster
Vancouver Granite Co. Ltd. ²	744 Hastings St. W., Vancouver.....	Nelson Island
Vernon Granite & Marble Co. Ltd. ²	32 Coldstream Rd., Vernon.....	Vernon
Wilson, James S. & Co. Ltd. ²	Sirdar.....	Sirdar
LIMESTONE		
NEWFOUNDLAND:		
Bowater's Newfoundland Pulp & Paper Mills Ltd.....	Corner Brook	Corner Brook
Dominion Limestone Limited.....	Aguathuna.....	Aguathuna
Newfoundland Lime Mfg. Co. Ltd.....	St. John's	Cobbs Arm
NOVA SCOTIA:		
Cook, Bruce.....	East River Point	East River Point
Dillman Bros.....	Admiral Rock	Admiral Rock
Eastern Lime Distributors Ltd. ¹	Windsor	Windsor
Mersey Paper Co. Ltd.....	Liverpool	East River Point
Mosher Limestone Co. Ltd.....	Upper Musquodoboit	Upper Musquodoboit
Nairn, J. S.....	24 Whitney Ave., Sydney	Scotch Lake
Nova Scotia Department of Highways.....	Halifax	Various
Windsor Foundry	O'Brien St., Windsor	Windsor
NEW BRUNSWICK:		
Brookville Manufacturing Co. Ltd.....	Brookville	Brookville
Elm Tree Limestone Co-Operative Ltd.....	Nigadoo	Nigadoo
Havelock Lime Works.....	Havelock	Havelock
Industrial Enterprises Inc.....	P.O. Box 910, Presque Isle, Maine, U.S.A.....	Presque Isle
Snowflake Lime Ltd.....	3 Poklok Rd., Saint John	Saint John
QUEBEC:		
Aluminum Company of Canada Ltd.....	1700 Sun Life Bldg., Montreal	Arvida
Amendements Calcaires de Rivière Bleue Enrg. (Les)	Rivière Bleue	Rivière Bleue
Beaudry, Joseph P.....	133 Taché St., Joliette	Joliette
Beco Inc.....	Rimouski	Rimouski
Bédard, Jean Ltée.....	480 Lafleur Ave., La Salle	La Salle
Boucher, Louis	Percé	Percé
Bourget, R.....	Gaspé	Gaspé
Canada Cement Co. Ltd.....	P.O. Box 290, Station "B", Montreal	Hull
Canadian Quarries Co.....	2251 Chemin de la Côte, St. Michel	St. Michel
Carrière Andorno ¹	Cap St. Martin	Cap St. Martin
Carrière Bagot Quarry Inc.....	St. Hyacinthe	St. Dominique
Carrière Bernier Enrg.....	R.R. 2, St. Jean	St. Jean
Carrière du Cap St. Martin Enrg.....	636 Ave. Querbes, Outremont	Cap St. Martin
Carrière Corneau Enrg.....	518 rue Mondor, St. Hyacinthe	St. Dominique
Carrière Gravel Ltée.....	Chateau Richer	Chateau Richer
Carrière Pointe Claire	235 Montée St. Charles, Ste. Geneviève	Pointe Claire
Carrière de St. Barthélemy Ltée.....	St. Barthélemy	St. Barthélemy
Carrières de St. Dominique Ltée. (Les)	555 St. Denis, St. Hyacinthe	St. Dominique
Carrière St. Maurice Inc.....	1497 Craig St., Trois Rivières	St. Louis de France
Carrière Trois Rivières Ltée.....	St. Louis de France	St. Louis de France
Charbonneau, Lucien	St. Francois de Sales	St. Francois de Sales
Charron & Fils	Belanger Village	Belanger Village
Delbo Inc.....	Stukely-Nord	Stukely-Nord
Département de la Justice ²	Ottawa, Ontario	St. Vincent de Paul
Deschambault Quarry Corp. ²	56 rue St. Pierre, Québec	St. Marc des Carrières
Dominion Lime Ltd.....	Lime Ridge	Lime Ridge
Enterprises de l'Est Ltée.....	1055 Demontigny St., Québec	Pointe Basse
Fillion, Aldège	Lachute	Lachute
Fraser-Brace Engineering Co. Limited	360 St. James St. W., Montreal	Havre St. Pierre
Fuger & Smith Ltd.....	78 Victoria Ave., Pointe Claire	Pointe Claire
Gagnon & Leclerc	St. Joachim	St. Joachim
Gauthier, Jos. O. Ltée. ²	St. Marc des Carrières	St. Marc des Carrières
Gingras & Frère Ltée. ²	St. Marc des Carrières	St. Marc des Carrières
Hargate Quarries Ltd.....	Cap St. Martin	Cap St. Martin
Kennedy Construction Co. Ltd.....	407 McGill St., Montreal	Actonvale
Lagacé Quarries Ltd.....	130 Blvd. Labelle, L'Abord-à-Plouffe	L'Abord-à-Plouffe
Lamothe, N.....	Pont Rouge	Pont Rouge
Langlois, A.....	St. Marc des Carrières	St. Marc des Carrières
Lasalle Quarry Ltd.....	8413 Blvd. St. Michel, Montreal	Ville St. Michel
Laurentian Stone Co. Ltd.....	195 Nicholas St., Ottawa, Ontario	Hull
Leclerc, J. J. & Fils, Ltée.....	Drapeau	Drapeau
Martineau Cut Stone Co. Ltd. ²	5000 - 13ième Ave., Rosemont	Rosemont

¹. Did not ship in 1949.². Firms operating dressing works in conjunction with quarry.

List of Firms in the Stone Quarrying Industry - 1949 - Con.

Name	Head Office Address	Location
LIMESTONE - continued		
QUEBEC - conc.: Massé & Beauséjour.....	Joliette.....	Joliette
Mercure, Camille.....	555 rue St. Denis, St. Hyacinthe.....	St. Dominique de Bagot
Miner, R. H., Co. Ltd.....	Belanger Village.....	Belanger Village
Ministère de la Voie.....	Quebec.....	St. Charles de Bellechasse
Miron Frères Ltée..... ¹	2201 Chemin St. Michel, Montreal.....	Montreal
Montreal Cut Stone Ltd.....	1869 rue St. André, Montreal.....	St. François de Sales
Montreal Quarry Ltd.....	2020 Ave. Union, Montreal.....	St. Michel
National Quarries Ltd.....	6301 Park Ave., Montreal.....	Cote St. Michel
Parent, Germain.....	St. André de Restigouche.....	St. André de Restigouche
Quebec Department of Roads.....	Quebec	Various
Rioux, Raoul & Maurice	Cowansville.....	Cowansville
Rousseau, T. E.....	Val Brillant.....	Val Brillant
St. Francis Rock Products & Equipment Ltd.....	Cote Ste. Marguerite, Montreal	St. Laurent
St. Laurent Stone Products & Supplies Ltd.....	Cote Ste. Marguerite, Montreal	St. Laurent
St. Lawrence Construction Co.	936 Dominion Square Bldg., Montreal.....	Ste. Anne des Monts
St. Marc Lime Reg'd.....	St. Marc des Carrières.....	St. Marc des Carrières
Salaberry de Valleyfield, La Cité.....	Salaberry de Valleyfield	Salaberry de Valleyfield
Shawinigan Chemicals Ltd.....	600 Dorchester St. W., Montreal.....	Bedford
Société Coopérative Agricole	St. André.....	St. André
Standard Lime Co. Ltd.....	Joliette.....	St. Paul de Joliette
Syndicat de Broyage de Lévis	St. Joseph de Lévis.....	St. Joseph de Lévis
Tanguay, J.....	Ste. Justine	Ste. Justine
Toussaint, Paul	Charlesbourg East.....	Charlesbourg East
Trappe de N. D. de Mistassini, La	Village des Pères	Mistassini
Tremblay, L. P.....	Matane	Matane
Tremblay, W.....	16 rue Calixte, Ste. Anne	Ste. Anne
Tremblay, Wilfrid	Baie St. Paul	Baie St. Paul
Union des Carrières & Pavages Ltée.....	496- 21ème Ave., Quebec	Charlesbourg
Varin, Joseph	3275 Cote St. Michel, Montreal	St. Michel
Verreault, Elzéar Ltée.....	194 du Pont, Québec	Gifford
Viau, Paul	340 Blvd. du Havre, Valleyfield	Valleyfield
ONTARIO: Abitibi Power & Paper Co. Ltd.....	408 University Ave., Toronto	Bucke Tp.
Bolender's Ltd.....	Haliburton	Eagle Lake
Brunner Mond Canada Ltd.....	Bank of Commerce Bldg., Toronto	Anderdon Tp.
Campbell, Jack Co. Ltd.....	P.O. Box 592, Ailston	Stevensville
Canada Cement Co. Ltd.....	P.O. Box 290, Station "B" Montreal, Quebec	Thurlow Tp.
Canada Crushed Stone Ltd.....	72 Sun Life Bldg., Hamilton	Dundas and Hagersville
Carleton Lime Products Co.....	P.O. Box 26, Carleton Place	Ramsay Tp.
Chemical Lime Ltd.....	P.O. Box 122, Beachville	Beachville
Coleman, Munro Ltd.....	628 Pitt St., Cornwall	Bonville
Cook, J. S. Stone Quarry ²	Wiariton	Amabel Tp.
Cope, A. & Sons Ltd.....	19 Albert St., Hamilton	Saltfleet Tp.
Curran & Briggs Limited	61 Haverson Blvd., Toronto	Cooksville
Frazer Dunfile Co. Ltd.....	130 Sparks St., Ottawa	Nepean Tp.
Frontenac Quarries Ltd.....	233 Wellington St., Kingston	Kingston
Gypsum, Lime & Alabastine Canada Ltd.....	Paris	Beachville and Hespeler
Hagersville Quarries Ltd.....	2700 Dufferin St., Toronto	Hagersville
Haldimand Quarries & Construction Ltd.....	137 Wellington St. W., Toronto	Hagersville
Jackson, P. L.....	Dunnville	Dunnville
Jamieson Lime Co.	110 Hall Ave., Renfrew	Horton Tp.
Kirkfield Crushed Stone Ltd.....	2700 Dufferin St., Toronto	Kirkfield
Law, R. E., Crushed Stone Ltd.....	Port Colborne	Port Colborne
Limestone Products Ltd.....	1109 Millwood Rd., Toronto	Orillia Tp.
Marhill Mines Ltd.....	Thorold	Robertsville
McGinnis & O'Connor Limited	394 King St. E., Kingston	Barriefield
McNally, S. S. & Sons	132 Graham Ave., Hamilton	Hamilton
Nelson Crushed Stone	Box 36, Oakville	Burlington
Niagara Crushed Stone Co.	149 Burger St., Welland	Welland
Niagara Cut Stone Quarries Limited	490 Buttrey St., Niagara Falls	Thorold
North American Cyanamid Ltd.....	Niagara Falls	Ingersoll
Ottawa Valley Crushed Stone Limited	Box 290, Station "B" Montreal, Quebec	Eastview
Parisien, Fernand	Alfred	Alfred
Pembroke, Corporation of	Pembroke	Pembroke
Queenston Quarries Ltd.	72 Sun Life Bldg., Hamilton	Niagara Falls
Ridgemount Quarries	Stevensville	Bertie Tp.
Rieger Bros. Construction Ltd.....	Scudder P. O.	Petee Island
Roblindale Quarries	Picton	Plinton
Savigny Bros.	P.O. Box 143, Merriton	Grantham Tp.
Verona Rock Products Ltd.....	66 King St. W., Toronto	Verona
Walker Bros. Quarries	P.O. Box 586, Thorold	Stamford Tp.
MANITOBA: Building Products & Coal Co. Ltd.....	111 Christie St., Winnipeg	Inwood
Garson Limestone Co.	251 Machray Ave., Winnipeg	Garson
Gillis Quarries Ltd.	Richard & Spruce Sts., Winnipeg	Garson
Manitoba Department of Highways	Winnipeg	Various
Tyndall Quarry Co. Ltd.	1591 Erin St., Winnipeg	Tyndall
Winnipeg, City of.....	225 James Ave., Winnipeg	Stony Mountain
Winnipeg Supply & Fuel Co. Ltd.....	812 Boyd Bldg., Winnipeg	Moosehorn and Stonewall

1. Did not ship in 1949.

2. Firms operating dressing works in conjunction with quarry.

List of Firms in the Stone Quarrying Industry - 1949 - Con.

Name	Head Office Address	Location
LIMESTONE — concluded		
ALBERTA:		
Errico, Mike	Cadomin	Cadomin
Loder's Lime Co., Ltd.	Kananaskis, Exshaw P. O.	Kananaskis
Summit Lime Works Ltd.	P.O. Box 273, Lethbridge	Lethbridge
BRITISH COLUMBIA:		
Agassiz Lime Quarry	P.O. Box 187, Agassiz	Agassiz
B. C. Department of Highways	Victoria	Various
B. C. Marl Co. Ltd.	525 Seymour St., Vancouver	Princeton
Beale, F. J.	1880 Allison Rd., Vancouver	Cunningham Island
Beale, Stanley	Van Anda	Van Anda
Beale Quarries Ltd.	744 West Hastings St., Vancouver	Van Anda
Capilano Crushing Co. Ltd.	107 East First Ave., Vancouver	West Vancouver
Consolidated Mining & Smelting Co. of Canada Ltd.	Trall	Fife
Koeye Limestone Co.	Namu	Koeye River
Marlme Ltd.	50 Sixth St., New Westminster	Solsqua
McDonald, J. A. & C. H. Ltd. ¹	1571 Main St., Vancouver	Haddington Island
Martinson & McKay	Jeune Landing	Jeune Landing
Munro, W. A.	Bridal Falls	Bridal Falls
Okanagan Lime & Exploration Co. Ltd.	Okanagan Falls	Okanagan Falls
Pacific Lime Co. Ltd.	744 W. Hastings St., Vancouver	Blubber Bay
MARBLE		
QUEBEC:		
Canadian Carrara Marble Co. Ltd.	8922 rue Berri, Montreal	South Stukely
Canadian Dolomite Co.	Portage du Fort	Portage du Fort
Carrière Ste. Thécle Quarry	Ste. Thécle	Ste. Thécle
Industrial Fillers Ltd.	4820-4th Ave., Montreal	St. Armand
Messier Terrazzo & Stone Products	St. Armand W.	St. Armand
Missisquoi Stone & Marble Co. Ltd. ²	Philipsburg	Philipsburg
Orford Marble Co. Ltd.	65 Beaudet St., St. Laurent	St. Laurent
Shefford Terrazzo & Marble Quarries Reg'd.	95 St. George St., Granby	South Stukely
ONTARIO:		
Bonter, W. F. & Co. Ltd.	Malone	Malone
Bonter Marble & Calcium Co. Ltd.	P.O. Box 61, Marmora	Marmora
Silvertone Black Marble Quarries Ltd.	305 O'Connor St., Ottawa	St. Albert
Stokosar Marble Quarries	P.O. Box 208, Madoc	Madoc
BRITISH COLUMBIA:		
Marble & Associated Products	507 Ellice St., Vancouver	Malahat
SANDSTONE		
NOVA SCOTIA:		
Arsenault Monumental Works ²	Antigonish	North Grant
Canadian Dredge & Dock Co. Ltd.	302 Harbour Commission Bldg., Toronto, Ontario	Wallace
Nova Scotia Department of Highways	Halifax	Various
NEW BRUNSWICK:		
New Brunswick Highways	Fredericton	Various
Smith, E. A.	Shediac	Shediac
QUEBEC:		
Blanchette, Michel	Cap-des-Rosiers, Gaspé	Gaspé
Caron, Eugene & Antonio	Baie des Sables	Baie des Sables
Foundation Co. of Canada Ltd.	1900 Sherbrooke St. W., Montreal	Chandler
Gagnon, L. P.	7 Ave. Gagnon, Lévis	St. David de Lévis
Gulf Maritime Construction Ltd.	Matane	Matane
Peel Construction Co. Ltd.	75 Main St., Brampton, Ontario	Trois Pistoles
Poirier, W.	Montebello	Montebello
Quebec Department of Roads	Quebec	Various
Rousseau, T. E.	Val Brillant	New Carlisle
Royalmount Construction Ltd.	1440 St. Catherine St. W., Montreal	Gaspé
St. Lawrence Alloys and Metals Limited	330 University Ave., Toronto 1, Ont.	Melocheville
Russell, J. G. ¹	Cap Chat	Cap Chat
Sherbrooke, City of	Sherbrooke	Sherbrooke
Simard, Adjutor	Pointe-au-Pic	Point-au-Pic
ONTARIO:		
Barnes, Wm. R., Co. Ltd.	243 Cumberland Ave., Hamilton	Inglewood
Campbell Sandstone Quarries Ltd. ²	155 Ruskin St., Ottawa	Bell's Corners
Cavlovic, J.	Georgetown	Inglewood
Corner, Austin	Belfountain	Belfountain

1. Did not ship in 1949.

2. Firms operating dressing works in conjunction with quarry.

List of Firms in the Stone Quarrying Industry - 1949 - Conc.

Name	Head Office Address	Location
SANDSTONE - concluded		
ONTARIO - conc.:		
Martin, E.....	Glen Williams	Glen Williams
McHarg, B.....	Georgetown	Georgetown
Mitchell, W. T.....	Limehouse	Credit Valley
Mountain Sandstone Quarry.....	Georgetown	Inglewood
Rice, Joseph.....	Georgetown	Inglewood
Shelbourne & Norrie.....	Georgetown	Georgetown
Sykes Quarries.....	Georgetown	Glen Williams
BRITISH COLUMBIA:		
Canadian Pacific Railway Co.....	Montreal, Quebec.....	Revelstoke
Consolidated Mining & Smelting Co. of Canada Ltd....	Trail.....	Kimberley
SLATE		
QUEBEC:		
Bombardier, G.....	Valcourt	Valcourt
Harbec, V.....	33 Second St., Iberville.....	Granby
BRITISH COLUMBIA:		
Brown, O. M. ¹	1903 Lansdowne Rd., Victoria.....	Leachtown
Richmond, Geo. W. & Co.....	2890 - 12th Ave. E., Vancouver.....	McNab Creek

1. Did not ship in 1949.

2. SECONDARY PRODUCTION - THE STONE PRODUCTS INDUSTRY

In 1949 there were 163 stone dressing works whose operations were reported separately from the quarries. These plants were engaged chiefly in cutting or polishing Canadian or imported stone to produce finished monuments or cut and dressed stone for construction purposes. Retail establishments engaged only in selling and lettering monuments have not been included. Thirteen producers of mineral wool were also included in this industry.

Output from this industry was valued at \$17,449,330

in 1949, an increase of 28.8 per cent over the total of \$13,550,286 reported for the previous year. The 65 works in Ontario accounted for 71 per cent of the total output and the 46 plants in Quebec for 14 per cent. The average number of employees was 2,053 who were paid \$4,542,522 in salaries and wages. Materials used in the cutting and dressing processes, including stone, cost \$6,095,824. The latter figure also includes the cost of materials used in the production of mineral wool. Expenditures for fuel and electricity amounted to \$707,081.

TABLE 14. Principal Statistics of the Stone Products Industry, 1945-1949

Year	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
1945.....	144	1,055	1,665,593	196,703	1,706,599	5,199,120
1946.....	147	1,541	2,643,298	293,538	2,906,528	9,063,895
1947.....	151	1,815	3,426,534	414,430	4,207,405	11,634,684
1948.....	150	1,862	4,126,838	578,391	4,547,067	13,550,286
1949.....	163	2,053	4,542,522	707,081	6,095,824	17,449,330
Per cent change 1949 from 1948.....	-	+ 10.2	+ 10.1	+ 22.2	+ 31.1	+ 28.8

Note. Profits or losses cannot be calculated from the above figures as data are not available for general expense items, such as interest, rent, depreciation, taxes, insurance, advertising, etc.

TABLE 15. Principal Statistics of the Stone Products Industry, by Provinces, 1948 and 1949

Province	Number of plants	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
1948						
Prince Edward Island.....	1	57	94,617	7,961	74,524	228,126
New Brunswick.....	5					
Nova Scotia.....	11	123	202,535	26,782	228,874	704,359
Quebec.....	43	497	1,038,397	98,053	829,143	3,365,470
Ontario.....	60	932	2,361,006	405,739	3,006,134	7,979,816
Manitoba.....	8	52	66,673	5,642	64,272	182,375
Saskatchewan.....	7	69	137,830	14,358	164,648	450,605
Alberta.....	6	67	108,102	13,543	103,143	328,859
British Columbia.....	9	65	117,678	6,313	76,329	310,676
Canada	150	1,862	4,126,838	578,391	4,547,067	13,550,286
1949						
Newfoundland.....	3	31	61,833	5,935	46,687	147,421
Prince Edward Island.....	1					
Nova Scotia.....	10	130	219,864	24,491	215,083	671,681
New Brunswick.....	5	42	60,630	5,357	39,738	148,655
Quebec.....	46	398	833,855	83,361	719,485	2,487,088
Ontario.....	65	1,127	2,800,634	538,049	4,545,613	12,380,871
Manitoba.....	9	54	96,652	7,337	83,867	241,400
Saskatchewan.....	8	99	150,641	15,247	156,368	547,869
Alberta.....	7	77	122,019	14,661	114,698	357,644
British Columbia.....	9	95	196,394	12,643	174,285	466,701
Canada	163	2,053	4,542,522	707,081	6,095,824	17,449,330

TABLE 16. Production from the Stone Products Industry, by Provinces, 1948 and 1949

	Granite		Marble		Marble chips and dust	Limestone		Finished monuments, lettered only	Other products	Total
	Monuments	For building purposes	Monuments	For building purposes		Monuments and bases	For building purposes			
(Dollars)										
Newfoundland, Prince Edward Island and New Brunswick:										
1948	187,360	-	32,800	590	-	-	-	2,300	4,806	228,126
1949	178,818	-	83,326	95	-	-	-	24,164	9,673	296,076
Nova Scotia:										
1948	164,283	7,058	40,317	-	-	-	-	67,777	424,924	704,359
1949	181,063	19,885	25,233	-	-	-	-	78,564	366,936	671,681
Quebec:										
1948	1,096,667	193,043	23,883	114,202	-	563	520,158	66,623	1,350,331	3,365,470
1949	1,140,476	267,547	15,492	90,007	-	6,986	770,088	71,469	125,023	2,487,088
Ontario:										
1948	1,426,736	210,089	169,235	220,689	-	9,498	1,725,681	73,069	4,144,819	7,979,816
1949	1,438,865	241,969	154,673	232,215	-	16,805	1,858,453	149,770	8,288,121	12,380,871
Manitoba:										
1948	97,396	13,321	22,274	25,672	39	2,438	-	18,495	2,740	182,375
1949	131,887	5,855	25,475	38,971	-	1,341	604	34,683	2,584	241,400
Saskatchewan:										
1948	88,439	34,000	98,394	2,820	4,325	49,500	35,125	8,335	129,667	450,605
1949	213,607	-	129,537	357	6,000	19,728	43,116	7,524	128,000	547,869
Alberta:										
1948	225,501	6,436	8,982	868	238	-	11,807	8,090	66,937	328,859
1949	131,750	23,203	107,670	-	1,511	-	-	9,951	83,559	357,644
British Columbia:										
1948	130,702	63,306	1,277	91,252	210	-	1,600	270	22,059	310,676
1949	140,978	53,237	1,726	88,530	-	-	1,073	7,665	173,492	466,701
Canada:										
1948	3,417,354	527,253	397,162	456,093	4,812	61,999	2,294,371	244,959	6,146,283	13,550,286
1949	3,557,444	611,696	543,132	450,175	7,511	44,860	2,673,334	383,790	9,177,388	17,449,330

1. Newfoundland not included in 1948.

TABLE 17. Output of the Stone Products Industry, 1948 and 1949

Product	Total selling value at works	
	1948	1949
Granite, cut and polished:		
(a) Monuments.....	3,417,354	3,557,444
(b) For building purposes.....	527,253	611,696
Marble, cut and polished:		
(a) Monuments.....	397,162	543,132
(b) For building purposes.....	456,093	450,175
Marble chips and dust.....	4,812	7,511
Limestone:		
(a) Monuments and bases.....	61,999	44,860
(b) For building purposes.....	2,294,371	2,673,334
Finished monuments, lettered only	244,959	383,790
Other products ¹	6,065,293	9,073,055
Repairs and custom work (re-lettering, etc.).....	80,990	104,333
Total.....	13,550,286	17,449,330

1. Includes mineral wool, etc.

TABLE 18. Cost of Materials Used in the Stone Products Industry, 1948 and 1949

	Cost at works	
	1948	1949
Stone:		
(a) From Canadian quarries.....	990,052	1,068,274
(b) Imported.....	1,086,965	1,244,602
Monuments, cut and polished, for lettering only.....	156,124	209,775
Silica sand or ground quartz.....	15,867	63,623
Slag and stone for rock wool.....	395,316	394,421
Coke for rock wool.....	341,672	391,086
All other materials.....	1,581,071	2,724,043
Total.....	4,547,067	6,095,824

TABLE 19. Total Production of Dressed Building Stone, 1940-1949

Year	Granite		Marble		Limestone		Sandstone from quarries	Total
	From quarries	From dressing works	From quarries	From dressing works	From quarries	From dressing works		
(Dollars)								
1940.....	255,527	159,427	19,680	218,271	192,183	446,441	55,139	1,346,668
1941.....	284,803	92,899	51,535	148,294	241,298	384,265	15,016	1,218,110
1942.....	108,807	121,450	19,476	139,109	169,382	102,388	8,600	669,212
1943.....	103,691	65,868	10,745	96,630	172,198	36,021	1,300	486,453
1944.....	83,485	31,430	18,135	80,803	214,037	98,866	34,750	561,506
1945.....	97,098	58,829	18,224	132,498	464,411	290,618	78,000	1,139,678
1946.....	232,835	117,656	17,184	169,759	883,937	909,370	73,101	2,403,842
1947.....	456,000	230,715	20,725	253,906	1,195,635	1,921,113	99,014	4,177,108
1948.....	682,494	527,253	67,710	456,093	1,156,020	2,294,371	87,600	5,271,541
1949.....	572,496	611,896	59,250	450,175	1,248,664	2,673,334	117,425	5,733,040

TABLE 20. Total Production of Dressed Monumental and Ornamental Stone, 1940-1949

Year	Granite		Marble		Limestone		Sandstone from quarries	Total
	From quarries	From dressing works	From quarries	From dressing works	From quarries	From dressing works		
(Dollars)								
1940.....	223,203	1,416,298	-	167,805	2,218	29,861	-	1,839,385
1941.....	291,643	1,582,016	-	186,269	2,339	31,820	400	2,094,487
1942.....	356,459	1,602,854	-	197,189	4,513	23,435	-	2,184,450
1943.....	392,828	1,601,756	-	227,289	4,700	27,536	-	2,254,109
1944.....	609,542	1,871,157	-	290,638	4,575	48,870	918	2,825,700
1945.....	636,787	2,183,799	-	317,197	5,700	48,715	-	3,192,198
1946.....	883,336	2,855,781	-	401,197	7,720	63,047	-	4,211,081
1947.....	1,242,612	3,345,304	-	432,927	4,548	94,819	-	5,120,210
1948.....	1,238,987	3,417,354	-	397,162	1,500	61,999	-	5,117,002
1949.....	1,147,511	3,557,444	-	543,132	1,500	44,860	-	5,294,447

TABLE 21. Production of Mineral Wool, 1940-1949

Year	Selling value at works	Year		Selling value at works
		\$	\$	
1940.....	935,229	1945.....		1,839,122
1941.....	1,185,324	1946.....		4,098,099
1942.....	1,417,258	1947.....		4,966,388
1943.....	1,707,501	1948.....		5,828,896
1944.....	1,617,420	1949.....		8,946,851

TABLE 22. Imports of Mineral Wool and Glass Wool, 1940-1949

Year	Mineral wool		Glass wool		Total	
	Pounds	\$	Pounds	\$	Pounds	\$
1940.....	2,082,589	52,233			2,082,589	52,233
1941.....	2,633,544	74,791	Included with mineral wool		2,633,544	74,791
1942.....	1,613,914	54,776			1,613,914	54,776
1943.....	1,839,670	72,780			1,839,670	72,780
1944.....	2,619,513	147,862			2,619,513	147,862
1945.....	8,989,862	460,677	-	188,696	-	649,373
1946.....	11,733,377	464,880	-	408,068	-	872,948
1947.....	8,663,106	417,450	-	520,786	-	938,236
1948.....	111,152	8,795	20,143,761	1,303,099	20,254,913	1,311,894
1949.....	168,818	10,472	1,659,936	307,854	1,828,754	318,326

TABLE 23. Production of Mineral Wool, by Grades, 1949

			Quantity	Selling value at works
				\$
4-inch batts.....		sq. ft.	2,826,987	151,684
3-inch batts.....		sq. ft.	35,266,386	1,655,871
2-inch batts.....		sq. ft.	99,689,958	3,567,156
1-inch batts.....		sq. ft.	20,450	659
Granulated.....		cu. ft.	10,429,283	1,830,746
Bulk or loose wool.....		cu. ft.	4,237,594	1,621,276
Industrial wool (both loose and granulated).....		cu. ft.	669,911	119,439
Total.....		-	-	8,946,851

THE STONE INDUSTRY

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TABLE 24. Shipments of Mineral Wool by Canadian Producers, by Months, 1948 and 1949

	Four inch batts	Three inch batts	Two inch batts	One inch batts	Granulated wool	Bulk or loose wool	Industrial wool
	sq. ft.	sq. ft.	sq. ft.	sq. ft.	cu. ft.	cu. ft.	cu. ft.
1948							
January.....	89,895	1,771,890	3,874,265	—	750,616	104,020	31,772
February.....	82,883	1,817,609	3,217,550	—	724,628	84,716	26,802
March.....	54,480	1,404,905	2,985,555	—	608,352	79,390	31,503
April.....	95,520	1,993,945	3,844,215	—	608,896	66,828	14,606
May.....	135,485	1,919,425	4,004,370	—	858,160	81,162	23,069
June.....	141,865	1,969,405	4,023,470	—	874,872	75,595	22,363
July.....	97,600	1,823,200	4,022,680	8,500	821,922	71,487	58,543
August.....	92,550	2,236,005	6,110,824	—	829,150	103,742	24,907
September.....	143,410	2,455,850	6,666,365	—	1,054,944	84,572	18,344
October.....	112,610	3,849,703	8,529,695	—	1,220,972	97,557	38,270
November.....	110,490	3,299,720	7,787,395	—	1,301,437	105,141	29,290
December.....	93,715	3,768,763	8,885,065	—	1,154,131	98,820	28,237
Total.....	1,250,503	28,310,420	63,951,449	8,500	10,808,082	1,053,030	347,906
1949							
January.....	142,300	2,750,955	7,765,375	—	762,871	104,630	68,795
February.....	62,290	1,762,589	4,913,240	—	538,565	86,924	58,720
March.....	161,954	1,575,191	4,517,173	—	563,612	228,029	37,544
April.....	128,732	1,496,328	4,540,681	7,800	477,237	285,000	39,887
May.....	185,543	2,275,348	6,397,437	—	653,602	352,102	86,872
June.....	159,027	2,375,875	6,956,215	6,570	890,771	337,646	126,779
July.....	175,717	3,105,570	7,260,432	6,000	785,360	286,980	26,735
August.....	267,505	3,546,330	9,674,611	2,080	982,622	362,392	37,496
September.....	314,583	3,704,350	10,503,121	—	1,100,026	394,250	28,880
October.....	415,036	4,367,410	12,428,263	—	1,258,273	364,493	71,839
November.....	360,054	3,404,540	11,287,092	—	1,302,523	409,218	57,399
December.....	275,903	2,906,496	8,450,054	—	890,836	332,359	26,841
Total.....	2,648,644	33,270,982	94,693,694	22,450	10,206,298	3,544,023	667,787

Producers of Mineral Wool - 1949

Name	Location of Plant
Canadian Gypsum Company, Ltd.	23 Oak St., Weston, Ontario
Canadian Johns-Manville Co. Ltd.	Port Union, Ontario
Crang Industries.....	Mimico, Ontario
Electric Reduction Co. of Canada Ltd.	Buckingham, Quebec
Elmac Co., The.....	Amherst, Nova Scotia
Fiberglas Canada, Ltd.	Sarnia, Ontario
Glacial Rock Insulation, Ltd.	Moose Jaw, Saskatchewan
Gypsum, Lime and Alabastine, Canada, Limited.....	Caledonia, Ontario
Holmes Foundry Co. Limited.....	200 Exmouth St., Sarnia, Ontario
Insulation Products Ltd.	Beechwood Drive, Toronto, Ontario
Rock Wool Products, Limited.....	Gap, (via Exshaw) Alberta
Span Rock Wools Ltd.	65 Ormond St. N., Thorold, Ontario
Western insulation Co. Ltd.	576 West 1st Ave., Vancouver, British Columbia

TABLE 25. Employees, Salaries and Wages in the Stone Products Industry, by Provinces, 1948 and 1949

Province	Average number of employees						Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total	
	Male	Female	Male	Female					
1948									
Prince Edward Island	6	2	47	2	57	18,623	75,994	94,617	
New Brunswick	16	4	101	2	123	48,188	154,347	202,535	
Nova Scotia									
Quebec	82	9	400	6	497	232,577	805,820	1,038,397	
Ontario	124	24	773	11	932	463,314	1,897,692	2,361,006	
Manitoba	14	2	35	1	52	25,121	41,552	66,673	
Saskatchewan	16	4	48	1	69	46,439	91,391	137,830	
Alberta	15	7	40	5	67	36,651	71,451	108,102	
British Columbia	17	1	47	-	65	35,314	82,364	117,678	
Canada	290	53	1,491	28	1,862	906,227	3,220,611	4,126,838	
1949									
Newfoundland	7	2	22	-	31	20,527	41,306	61,833	
Prince Edward Island									
Nova Scotia	15	4	109	2	130	46,242	173,622	219,864	
New Brunswick	5	1	35	1	42	11,681	48,949	60,630	
Quebec	88	8	301	1	398	201,370	632,485	833,855	
Ontario	205	48	847	27	1,127	813,750	1,986,884	2,800,634	
Manitoba	17	2	33	2	54	39,087	57,565	96,652	
Saskatchewan	43	5	51	-	99	57,215	93,426	150,641	
Alberta	16	10	47	4	77	42,961	79,058	122,019	
British Columbia	21	1	73	-	95	58,875	137,519	196,394	
Canada	417	81	1,518	37	2,053	1,291,708	3,250,814	4,542,522	

Directory of Firms in the Stone Products Industry — 1949

Name of Company	Location of Plant
NEWFOUNDLAND:	
Cook's Marble Works	St. John's
Muir's Marble Works, Ltd.	St. John's
Skinnlers Monumental Works	St. John's
PRINCE EDWARD ISLAND:	
Beck, Vere & Son Ltd.	Main Street, Montague
NOVA SCOTIA:	
Coughlan, James S., Marble and Granite Works	Simpson's Siding, Halifax
Elmac Company Limited	Ansan Ave., Amherst
Keddy, C.L., Monument Works	171-173 Kempt Road, Halifax
Kelly Monumental Works	Bridgewater
Nictaux Granite Canada Limited	Nictaux Falls
Nixon Granite Works	R.R. No.3, Middleton
Scott, T.W.	School Street, Middleton
Steele, John D., & Sons	Commercial Street, North Sydney
Tingley, Harold W.	17 Merkel Street, Halifax
Tingley Granite Works	Amherst
NEW BRUNSWICK:	
Kane, M.T., & Co. Ltd.	Westmoreland Road, Saint John
Miramichi Granite & Marble Works	Chatham
St. Stephen Granite Works	Queen Street, St. Stephen
Sherrard, T.F., & Son	135 Victoria Street, Moncton
Stults Monument Works	Hampstead
QUEBEC:	
Anderson, James	Beebe
Banchini & St. Martin, Engr.	Hull
Beaulieu, Elzear & Fils Ltée. Engr.	Ste. Hélène, Co. Kamouraska
Beebe Granite Works	Beebe
Bengstrand, N.	Waterville
Berson, L., & Son	3884 St. Lawrence Blvd., Montreal
Bouchard, Raoul	Port Alfred
Brault, L.	3 Champlain St., Valleyfield
Brodie's Limited	9th Ave., Iberville
Brunet, A.	Ormstown
Brunet, J., Limitée	4485 Côte des Neiges, Montreal
Caron, Eugene	Ste. Anne de Beaupré
Chabot, J. Ray	Scott Junction

Directory of Firms in the Stone Products Industry — 1949 — Continued

Name of Company	Location of Plant
QUEBEC — Con.	
Chaussé, Edouard & Fils	524 King St. West, Sherbrooke
Cie de Pierre de Taille Martineau Ltée	5000 13th Ave., Rosemount, Montreal
Crete, James	Royal St., Sorel
Dalceggio, F.	4588 Chemin Côte des Neiges, Montreal
Daudelin, Rolland	1395 St. Antoine Street, St. Hyacinthe
Denicourt, Thuot	87-4th Ave., Iberville
Dominion Granite Works Co. Reg'd.	Beebe
Ducharme, J. Maurice	257 Notre Dame St., Victoriaville
Dugas, Joseph	Joliette
Electric Reduction Co. of Canada Ltd.	Buckingham
Fortin, Dollard J.	St. David de Lévis
Gingras, Roch	Ste. Foy
Gignac, Joseph	St. Alban Village
Godin & Delisle	1253 St. Vallier St., Quebec
Goyette & Bisson	Iberville
Houde & Frère Engr.	404 Notre Dame, Cap de la Madeleine
Jacques, André	Lévis
Jenne, E.H.	Sutton
Laforce, H. & Fils, Engr.	1327 St. Vallier, Quebec
Parent, G.H.	349 rue Montigny, St. Jerome
Picard, W., & Fils	3285 Desautels, Montreal
Provost, J.A., & Fils	209 Belmont, Sherbrooke
Quebec Granite & Marble Reg'd.	7877 Chateaubriand, Montreal
Quinlan, Harold Cut Stone Ltd.	Quinlan Ave., Ville La Salle
Rousseau, O., Engr.	St. Fabien
Roxton Granite & Marble Works	Roxton Falls, Co. Shefford
Smith Bros. Memorial Art Ltd.	1195 Ducharme St., Montreal
Smith Marble & Construction Co. Ltd.	207 Van Horne Ave. W., Montreal
Stanstead Granite Quarries Co. Ltd.	Beebe
St. Louis & Fils	Cap St. Martin
Toduro & Bigras	6752 Sherbrooke St., E., Montreal
Villeneuve & Frère	1055 De la Canardière, Quebec
Vincent, Chas. A.	5731 St. Denis St., Montreal
ONTARIO:	
Angers, B. & Son	214 Montreal Rd., Eastview
Aérosoie Monuments	48 Alma St., Guelph
Amboise, J.D.	263 Montreal Road, Eastview
Bayview Memorial Co.	Willow Cove
Brown, Geo. & Sons	473 Bronson Ave., Ottawa
Brown, R., & Son	378 Sparks, Ottawa
Campbell, A.C.	21 Bridge St. W., Belleville
Canadian Art Memorials	28 Lakeshore Rd. W., Port Credit
Canadian Gypsum Co. Limited	Oak St., Weston
Canadian Johns-Manville Co. Ltd.	Port Union
Crang Industries Limited	Lakeshore Road, Mimico
Creber Son & Company	1333 St. Clair Ave. W., Toronto
Central Granite & Marble Works	1283 Dundas St. W., Toronto
Chesley Memorial Works	Chesley
Davis Monument Co.	3205 Danforth Ave., Toronto
Eglinton Monumental Works	1702 Eglinton Ave. W., Toronto
Fiberglas Canada, Limited.	Oshawa
Gladstone & Ross	388 East Brock St., Fort William
Geard Brothers	612 William St., London
George, John J.	Goderich St., Port Elgin
Gypsum, Lime and Alabastine, Canada, Limited	Caledonia
Hardwick, H.G., & Son	676 King St. W., Hamilton
Hargrave's Monument Works	Halleybury
Holmes Foundry Company Limited	20 Exmouth St., Sarnia
Insulation Products Ltd.	Beechwood Drive, Toronto
Johnston & Cranston	1849 Yonge St., Toronto
Kilvington Granite Company	2A Caledonia Rd., Toronto
Kingsway Monumental Works	3673 Dundas St., Toronto
Kitchener Monument Works	1015 King St. E., Kitchener
Laing, George	Cornwall
Lake Superior Granite & Marble Works	Sault Ste. Marie
Laurin, J. P.	George St., Ottawa
London Marble & Granite Co.	493 Richmond St., London
McIntyre Monument Co.	60 Danforth Ave., Toronto
McKay Cut Stone Co.	65 Shalmar Ave., Forest Hill
McMillan Granite Co. Ltd.	105 Ontario St., Sarnia
Memorial Company of Toronto, The	2299 Bloor St. W., Toronto
Memorial Craftsmen Co.	429 Spadina Ave., Toronto
Monumental Art Co.	2168 Dundas St. W., Toronto
National Cut Stone Limited	355 Logan Ave., Toronto
Oakville Monument Works	19 Colborne St., Oakville
Ontario Marble Co. Ltd.	Maria St., Peterborough
Orillia Monument Co.	252 Coldwater Rd. W., Orillia
Patterson & Cornelius	428 Queenston Rd., St. Catharines
Rhodes Memorials Ltd.	Cayuga
Rigg Memorial Works	605 Queen St., Niagara Falls
Ritchie Cut Stone Co. Ltd., The	203 New Toronto St., New Toronto
Rivercourt Memorials	296 O'Connor Drive, Toronto
Ronald, Wellington	Listowel
Rutter Granite Company	73 Ontario St., Port Hope
Sanderson Monumental Company	33 Peter St. S., Orillia
Sault Granite & Marble Works	715 Queen St. E., Sault Ste. Marie
Scott, James N., Cut Stone Co.	3 Canvarco Rd., Leaside
Sinclair Cut Stone & Construction Co. Ltd.	Frid St., Hamilton
Sharp Bros. Cut Stone Company Limited	516 Kenilworth St. N., Hamilton

Directory of Firms in the Stone Products Industry - 1949 - Concluded

Name of Company	Location of Plant
ONTARIO - Conc.	
Skelton, E.J. & Son.....	Yonge St., Walkerton
Smith Memorial Works.....	1543 Main St. E., Hamilton
Smith Monument Co.	349 Weston Road, Toronto
Spun Rock Wools Limited.....	65 Ormond St., Thorold
Standard Stone Company, Limited.....	1704 Howard Ave., Windsor
Sudbury Memorial Works.....	453 Arnley St., Sudbury
Thomson Monument Co. Ltd.	862 Dupont St., Toronto
Twin City Monument Company.....	541 King St. E., Kitchener
Wardell Monument Works.....	2696 Dundas St. W., Toronto
Wilson's Cut Stone.....	100 Broadway, Hamilton
MANITOBA:	
Brookes, Memorials.....	266 Main St., Winnipeg
Brunet, Joseph O.	405 Bertrand St., St. Boniface
Guinn & Simpson Company Limited.....	52 Tupper St. N., Portage la Prairie
MacIntyre, A.L. & Sons, Art Memorials.....	849 Notre Dame Ave., Winnipeg
Memorial Marble & Tile Co. Ltd.	1180 Wall St., Winnipeg
Neepawa Marble & Granite Works.....	Neepawa
Portage Memorials.....	Main and Alfred Sts., Portage la Prairie
Somerville Marble & Granite Works.....	1417 Rosser Ave., Brandon
Wilson Memorials.....	1898 Main St., Winnipeg
SASKATCHEWAN:	
Best Monumental Co.	721 Caribou St. W., Moose Jaw
Glacial Rock Insulation Ltd.	Township 17, Moose Jaw
Molaro Marble & Stone Works.....	48-23rd St. E., Saskatoon
Moose Jaw Marble & Granite Works Ltd.	706 Athabasca St. E., Moose Jaw
Regina Monumental Co. Ltd.	2536 Railway St., Regina
Western Granite Marble & Stone Co. Ltd.	714-716 Second Ave. N., Saskatoon
Yorkton Monumental Works.....	20 Agricultural Ave., Yorkton
Young, Alex, Monument Company.....	Scarth St. and 4th Ave., Regina
ALBERTA:	
Alberta Granite, Marble & Stone Co. Ltd.	10702-101st St., Edmonton
Hart, Albert J.	1821 Second St. E., Calgary
Maclean Granite Co.	Red Deer
McDonald Granite Co. Ltd., The	2313 Second St. E., Calgary
Rock Wool Products Limited.....	Gap Lake, via Exshaw, Calgary
Select Memorial Works.....	121-13th Ave., Calgary
Somerville Calgary Monumental Co.	121-13th Ave. W., Calgary
BRITISH COLUMBIA:	
Art Monument Co. Ltd.	609 East 16th Ave., Vancouver
Chandler, W.R., Memorials & Western Granite Co.	5498 Fraser St., Vancouver
Continental Marble Company Limited.....	1002 Georgia St. E., Vancouver
Forster Monumental Works.....	5528 Fraser St., Vancouver
Kingsway Monumental Works.....	3070 Kingsway St., Vancouver
Mortimer, J., & Son	George Road & Government St., Victoria
Stewart Monumental Works Ltd.	1401 May St., Victoria
Westaway's Monumental Works.....	143 Columbia St. E., New Westminster
Western Insulation Co. Ltd.	576 West 1st Ave., Vancouver

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