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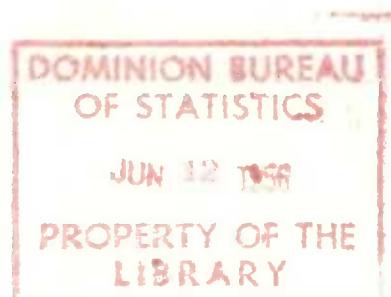
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CANADA

THE STONE INDUSTRY

1954



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NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 3 volumes, as follows: **Volume I** — The Primary Industries, including mining, forestry and fisheries; **Volume II** — Manufacturing; **Volume III** — Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume I consists of the following parts:

- Part I — Mineral Statistics
- Part II — Forestry Statistics — Operations in the Woods
- Part III — Fisheries Statistics

Part I includes the following reports which constitute the complete series on Mineral Statistics of Canada. Individual reports are issued as the information becomes available; they are arranged in a form suitable for binding.

- A — General Review of the Mining Industry, 50¢
- B — The Gold Mining Industry, 50¢
- C — The Silver-Lead-Zinc Mining Industry, 25¢
- D — The Nickel-Copper Mining, Smelting and Refining Industry, 25¢
- E — The Miscellaneous Metal Mining Industry, 25¢
- F — The Smelting and Refining Industry, 25¢
- G — The Coal Mining Industry, \$1.00
- H — The Crude Petroleum and Natural Gas Industry, 25¢
- I — The Asbestos Mining Industry, 25¢
- J — The Feldspar and Quartz Mining Industry, 25¢
- K — The Gypsum Industry, 25¢
- L — The Peat Industry, 25¢
- M — The Salt Industry, 25¢
- N — The Talc and Soapstone Industry, 25¢
- O — The Miscellaneous Non-metal Mining Industry, 25¢
- P — The Cement Manufacturing Industry, 25¢
- Q — The Clay and Clay Products Industry, 25¢
- R — The Lime Industry, 25¢
- S — The Sand and Gravel Industry, 25¢
- T — The Stone Industry, 25¢
- U — Contract Drilling in the Mining Industry, 25¢

THE STONE INDUSTRY

1954

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, shale 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.

The stone quarries shipped 32,767,925 short tons of stone valued at \$39,857,134 during 1954. In the preceding year the shipments were 19,849,017 tons valued at \$30,613,051. The figures are not directly comparable as the 1954 data include an unusually large quantity of granite used in the construction of the Canso causeway. Stone used in the

manufacture of cement and lime is not included in these figures. Shipments of granite and other igneous rocks amounted to 12,834,727 tons valued at \$13,041,999. The sedimentary rocks included 18,829,748 tons of limestone valued at \$25,144,026; 57,748 tons of marble worth \$633,702; 830,478 tons of sandstone valued at \$823,563; 212,902 tons of shale valued at \$182,961; and 2,322 tons of slate worth \$30,883.

Of the total value of output, 41 per cent originated in Quebec and 31 per cent came from Ontario quarries.

The 461 firms operated 557 quarries in 1954. The industry employed an average of 4,146 persons to whom \$12,380,804 were paid in salaries and wages. Fuel and electricity cost \$2,307,791; included in these figures were 53,867,170 kwh. of purchased electricity valued at \$819,367. Process supplies used were worth \$3,354,439.

TABLE 1. Principal Statistics of the Stone Quarrying Industry, Significant Years, 1921-1954

Year	Establishments	Employees	Earnings	Cost of fuel and electricity at works	Cost of process supplies and materials at works	Gross selling value of products (f.o.b. works)	Net ¹ value of production
	No.	No.	\$	\$	\$	\$	\$
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	not available	11,075,184	not available
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	5,661,297
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	3,661	9,218,694	1,915,948	2,761,374	28,649,768	23,972,446
1952	493	3,897	10,230,640	2,022,599	2,853,477	30,835,356	25,959,280
1953	488	3,803	10,139,192	1,791,797	2,896,537	30,613,051	25,924,717
1954	557	4,146	12,380,804	2,307,791	3,354,439	39,857,134	34,194,904

1. Gross value less cost of process supplies fuel and electricity.

MINERAL STATISTICS

TABLE 2. Principal Statistics of the Stone Quarrying Industry, by Provinces, 1953 and 1954

Province	Establishments	Employees	Earnings	Cost of fuel and electricity at works	Cost of process supplies at works	Gross selling value of products (f.o.b. works)	Net ¹ value of production
	No.	No.	\$	\$	\$	\$	\$
1953							
Newfoundland	5	105	334,471	45,646	85,596	647,469	516,227
Nova Scotia	25	101	274,395	56,781	117,565	623,644	449,298
New Brunswick	8	84	172,053	31,027	12,880	698,243	654,336
Quebec	177	1,999	4,956,070	884,154	1,469,175	13,915,864	11,562,535
Ontario	194	1,178	3,403,301	680,840	979,845	11,818,582	10,157,897
Manitoba	9	109	294,561	35,237	90,858	670,414	544,319
Saskatchewan	-	-	-	-	-	-	-
Alberta	2	-	-	-	-	84,639	84,639
British Columbia	68	227	704,341	58,112	140,618	2,154,196	1,955,466
Canada	488	3,803	10,739,192	1,791,797	2,896,537	30,613,051	25,924,717
1954							
Newfoundland	5	100	315,203	47,825	51,088	619,474	520,561
Nova Scotia	18	474	1,764,267	359,930	927,516	6,407,337	5,119,891
New Brunswick	9	90	187,001	31,939	16,711	649,604	600,954
Quebec	160	2,053	5,516,814	1,051,738	1,060,190	16,358,810	14,246,882
Ontario	246	1,078	3,472,322	697,155	1,121,373	12,538,699	10,720,171
Manitoba	9	117	308,066	43,738	69,929	703,052	589,385
Saskatchewan	-	-	-	-	-	-	-
Alberta	4	-	-	-	-	135,315	135,315
British Columbia	106	234	817,131	75,466	107,632	2,444,843	2,261,745
Canada	557	4,146	12,380,804	2,307,791	3,354,439	39,857,134	34,194,904

1. Gross value less cost of process supplies, fuel and electricity.

TABLE 3. Production (Sales) of Stone From Canadian Quarries, by Kinds and by Provinces, 1953 and 1954

Province	Granite ¹	Limestone ²	Marble	Sandstone	Shale	Slate	Total	
1953								
Newfoundland	tons -	391,617	-	16	-	-	391,633	
	\$	647,349	-	120	-	-	647,469	
Nova Scotia	tons 101,919	79,524	-	11,658	-	-	193,101	
	\$	358,655	186,007	78,982	-	-	623,644	
New Brunswick	tons 11,500	129,503	-	846,974	-	-	987,977	
	\$	57,506	316,397	324,340	-	-	698,243	
Quebec	tons 430,238	7,232,775	28,319	62,153	-	763	7,754,248	
	\$	3,265,420	10,248,476	284,846	116,359	763	13,915,864	
Ontario	tons 381,141	8,390,852	31,336	15,557	-	-	8,818,886	
	\$	1,045,358	10,359,697	262,145	151,382	-	11,818,582	
Manitoba	tons 2,950	374,869	-	-	-	-	377,819	
	\$	2,850	667,564	-	-	-	670,414	
Alberta	tons -	18,833	-	-	-	-	18,833	
	\$	84,639	-	-	-	-	84,639	
British Columbia	tons 423,169	843,747	-	37,746	-	1,858	1,306,520	
	\$	824,741	1,273,101	-	24,782	31,572	2,154,196	
Canada	tons 1,350,917	17,461,720	59,635	974,104	-	2,621	19,849,017	
	\$	5,554,530	23,783,230	546,991	695,963	32,335	30,613,051	
1954								
Newfoundland	tons 1,896	357,454	-	-	-	-	359,350	
	\$	14,220	605,254	-	-	-	619,474	
Nova Scotia	tons 9,652,140	92,607	-	12,860	-	-	9,757,607	
	\$	6,157,946	205,852	43,539	-	-	6,407,337	
New Brunswick	tons 11,803	116,132	-	592,857	-	-	720,792	
	\$	58,176	299,038	292,390	-	-	649,604	
Quebec	tons 2,389,431	7,320,968	25,559	170,757	204,000	646	10,111,361	
	\$	5,182,356	10,443,665	310,455	278,888	142,800	16,358,810	
Ontario	tons 276,944	9,816,205	32,189	15,818	-	-	10,141,156	
	\$	675,444	11,346,494	323,247	193,514	-	12,538,699	
Manitoba	tons 9,500	198,056	-	-	-	-	207,556	
	\$	9,500	693,552	-	-	-	703,052	
Alberta	tons -	21,360	-	-	5,657	-	27,017	
	\$	98,354	-	-	36,961	-	135,315	
British Columbia	tons 493,013	906,966	-	38,186	3,245	1,676	1,443,086	
	\$	944,357	1,451,817	-	15,232	3,200	30,237	2,444,843
Canada	tons 12,834,727	18,829,748	57,748	830,478	212,902	2,322	32,767,925	
	\$	13,041,999	25,144,026	633,702	823,363	182,961	30,883	39,857,134

1. All igneous rocks included.

2. Includes dolomite, also marl for agricultural purposes.

Note. Not included in the above limestone statistics are 5,330,778 tons of limestone consumed in the cement industry in 1953 and 5,566,198 tons in 1954. Also, the limestone used in the lime industry is not included; it is estimated that approximately 2,163,427 tons of limestone were burned in the manufacture of lime in 1953 and 2,154,987 tons in 1954.

TABLE 4. Production (Sales) of Stone¹ From Canadian Quarries, by Provinces, Showing Purposes For Which Used, 1953 and 1954

For use as follows	Newfoundland	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada
1953									
Building stone:									
Rough	tons	—	800	150	15,912	41,177	—	914	58,953
	\$	—	8,935	300	468,720	362,848	—	22,490	863,293
Dressed	tons	—	735	1,000	38,802	13,493	4,440	810	59,280
	\$	—	61,510	67,400	2,739,489	284,870	326,511	27,022	3,506,802
Monumental and ornamental stone:									
Rough	tons	491	10	1,200	7,687	70	—	750	10,208
	\$	1,687	638	37,506	219,638	1,877	—	20,180	281,526
Dressed	tons	—	774	—	5,287	—	—	129	6,190
	\$	—	108,507	—	576,324	—	—	8,400	693,231
Flagstone	tons	—	—	—	1,253	4,632	563	—	6,448
	\$	—	—	—	24,370	58,192	2,813	—	85,375
Curbstone	tons	—	—	—	192	—	—	—	192
	\$	—	—	—	5,555	—	—	—	5,555
Paving blocks	tons	—	—	—	52	—	—	—	52
	\$	—	—	—	1,191	—	—	—	1,191
Chemical and metallurgical:									
Lining open-hearth furnaces	tons	—	—	—	—	40,016	1,173	—	41,189
	\$	—	—	—	—	50,587	2,730	—	53,317
Flux in iron and steel furnaces	tons	353,481	25,109	—	3,301	859,169	3,952	159	1,245,171
	\$	530,221	57,750	—	5,614	927,266	8,863	516	1,530,230
Flux in non-ferrous smelters	tons	—	—	—	—	111,591	—	45,046	156,637
	\$	—	—	—	—	137,570	—	36,046	173,616
Glass factories	tons	—	—	—	1,598	15,687	—	6,690	8,814
	\$	—	—	—	4,798	36,410	—	13,380	32,789
Pulp and paper mills	tons	24,745	6,314	7,835	145,407	78,194	7,839	—	408,969
	\$	81,428	19,845	26,037	403,492	170,288	31,373	—	428,516
Sugar refineries	tons	—	—	104	—	11,033	—	—	11,137
	\$	—	—	600	—	13,300	—	—	13,900
Other chemical uses	tons	—	—	—	500	37,202	—	—	37,702
	\$	—	—	—	2,000	39,853	—	—	41,853
Pulverized stone:									
Whiting (substitute)	tons	—	—	—	11,767	4,729	—	417	16,913
	\$	—	—	—	141,204	34,487	—	5,421	181,112
Asphalt filler	tons	—	5,000	1,243	18,911	19,603	3,988	4,515	54,943
	\$	—	10,000	8,701	62,497	94,739	5,966	28,181	212,031
Dusting coal mines	tons	—	—	—	—	—	—	854	128
	\$	—	—	—	—	—	—	4,282	982
Agricultural purposes and fertilizer plants	tons	—	34,922	53,158	298,720	81,648	2,058	6,048	38,669
	\$	—	87,412	183,838	600,780	236,121	2,751	34,606	106,338
Other uses	tons	—	—	—	13,667	31,488	4,065	—	30
	\$	—	—	—	38,922	131,618	5,257	—	360
Crushed stone for manufacture of artificial stone	tons	—	—	—	2,357	5,430	—	—	7,767
	\$	—	—	—	8,441	46,100	—	—	54,541
Roofing granules	tons	—	—	—	4,300	95,021	—	—	1,858
	\$	—	—	—	68,000	125,635	—	—	31,572
Poultry grit	tons	—	—	—	76	6,187	—	567	3,647
	\$	—	—	—	829	68,488	—	3,674	50,290
Stucco dash	tons	—	—	—	—	5,383	—	—	5,376
	\$	—	—	—	—	56,100	—	—	123,281
Terrazzo chips	tons	—	—	—	7,218	9,002	—	—	16,220
	\$	—	—	—	81,280	127,207	—	—	208,487
Rock wool	tons	—	—	—	—	14,712	—	—	14,712
	\$	—	—	—	—	12,188	—	—	12,188
Rubble and riprap	tons	—	11,258	12,500	390,078	334,105	12,928	—	438,293
	\$	—	35,047	15,600	437,784	661,987	14,960	—	1,199,162
Crushed stone:									
Concrete aggregate	tons	9,009	5,000	416	4,968,623	1,830,761	104,542	—	6,916,351
	\$	29,842	10,500	832	5,868,351	2,116,365	77,399	—	8,103,289
Road metal	tons	3,907	103,179	910,371	1,456,301	4,637,150	232,271	—	604,722
	\$	4,293	223,500	357,429	1,798,873	5,465,975	191,785	—	621,558
Railroad ballast	tons	—	—	—	350,839	528,769	—	—	15,734
	\$	—	—	—	352,712	551,831	—	—	2,770
Other uses	tons	—	—	—	2,500	2,634	—	—	865
	\$	—	—	—	5,000	6,700	—	—	7,464
Total	tons	391,633	193,101	967,977	7,754,248	8,818,886	377,819	18,833	1,306,520
	\$	647,469	623,644	698,243	13,915,864	11,818,582	670,414	84,639	19,849,017
Per cent of total	Quan.	1.97	0.97	4.98	39.07	44.43	1.91	0.11	6.58
	\$	2.12	2.02	2.28	45.46	38.61	2.19	0.28	7.04
									100.00

1. Includes the production of slate and marl.

TABLE 4. Production (Sales) of Stone¹ From Canadian Quarries, by Provinces, Showing Purposes For Which Used,
1953 and 1954 — Concluded

For use as follows	Newfoundland	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada
1954									
Building stone:									
Rough tons	—	510	150	12,212	50,753	300	—	1,704	65,629
\$	—	6,717	300	114,696	447,128	6,928	—	34,500	610,269
Dressed tons	—	109	1,600	46,905	13,970	5,102	—	1,403	69,089
\$	—	36,403	124,000	3,520,803	312,347	422,630	—	45,400	4,461,583
Monumental and ornamental stone:									
Rough tons	470	69	1,503	8,156	364	—	—	915	11,377
\$	1,848	1,976	38,176	196,087	11,186	—	—	27,900	277,173
Dressed tons	—	287	—	6,573	55	—	—	32	6,947
\$	—	58,628	—	1,123,763	17,188	—	—	6,592	1,208,171
Flagstone tons	—	—	10	897	5,299	—	—	—	6,206
\$	—	—	250	16,709	55,487	—	—	—	72,446
Curbstone tons	—	—	—	511	—	—	—	—	511
\$	—	—	—	32,133	—	—	—	—	32,133
Paving blocks tons	—	—	—	163	—	—	—	—	163
\$	—	—	—	1,466	—	—	—	—	1,466
Chemical and metallurgical:									
Lining open-hearth furnaces tons	—	—	—	—	55,000	408	—	—	55,408
\$	—	—	—	—	68,750	969	—	—	69,719
Flux in iron and steel furnaces tons	312,856	8,106	—	2,416	692,377	4,875	138	548	1,021,316
\$	469,284	18,644	—	4,674	812,978	12,894	690	986	1,320,150
Flux in non-ferrous smelters tons	—	—	—	—	116,249	—	214	39,349	155,812
\$	—	—	—	—	139,799	—	640	39,818	180,257
Glass factories tons	—	—	—	760	4,753	—	6,923	3,532	15,968
\$	—	—	—	2,840	7,130	—	13,784	4,238	27,992
Pulp and paper mills tons	30,873	6,472	7,833	143,993	97,970	9,076	—	165,764	461,981
\$	103,800	20,383	27,416	399,331	244,035	36,370	—	553,056	1,384,391
Sugar refineries tons	—	—	100	—	10,472	—	—	11	10,583
\$	—	—	700	—	12,567	—	—	154	13,421
Other chemical uses tons	—	—	—	20	29,656	—	—	—	29,676
\$	—	—	—	82	25,362	—	—	—	25,444
Pulverized stone:									
Whiting (substitute) tons	—	—	—	11,611	—	—	—	3,849	15,460
\$	—	—	—	139,335	—	—	—	16,722	156,057
Asphalt filler tons	—	12,000	1,361	12,505	6,530	3,454	5,326	6,736	48,112
\$	—	24,000	10,927	49,476	29,925	8,454	30,370	15,743	168,895
Dusting coal mines tons	—	—	—	—	—	—	803	328	1,131
\$	—	—	—	—	—	—	4,055	2,677	6,732
Agricultural purposes and fertilizer plants tons	—	42,305	51,005	196,747	35,076	2,158	6,731	30,274	364,296
\$	—	101,825	175,760	436,972	74,203	2,892	40,050	103,318	935,020
Other uses tons	—	—	—	9,075	75,657	2,190	420	144	87,486
\$	—	—	—	30,044	296,029	3,464	4,460	1,770	335,767
Crushed stone for manufacture of artificial stone tons	—	—	—	4,670	11,726	—	—	—	16,396
\$	—	—	—	15,616	59,598	—	—	—	75,214
Roofing granules tons	—	—	—	—	66,859	—	—	1,676	68,535
\$	—	—	—	—	85,596	—	—	30,237	115,833
Poultry grit tons	—	—	—	35	4,149	—	605	4,508	9,297
\$	—	—	—	420	44,276	—	4,055	68,736	117,487
Stucco dash tons	—	—	—	—	5,780	—	—	5,189	10,969
\$	—	—	—	—	42,980	—	—	73,580	116,580
Terrazzo chips tons	—	—	—	6,483	10,150	—	—	—	16,633
\$	—	—	—	69,383	146,074	—	—	—	215,457
Rock wool tons	—	—	—	—	1,470	—	—	—	1,470
\$	—	—	—	—	2,194	—	—	—	2,194
Rubble and riprap tons	—	9,330,350	46,999	451,332	142,368	5,346	200	493,349	10,469,944
\$	—	5,534,442	59,838	502,661	120,097	9,722	250	748,932	6,975,942
Crushed stone:									
Concrete aggregate tons	10,413	1,000	—	4,725,573	1,642,767	37,517	3,660	—	6,420,930
\$	21,663	2,050	—	5,385,484	2,024,185	50,879	34,465	—	7,518,726
Road metal tons	4,738	256,399	610,031	1,844,134	6,509,636	137,130	—	656,191	10,018,259
\$	22,879	456,269	212,237	2,059,227	6,912,726	147,850	—	657,312	10,468,500
Railroad ballast tons	—	100,000	—	177,996	391,132	—	—	26,504	695,632
\$	—	146,000	—	187,778	409,650	—	—	4,667	748,095
Other uses tons	—	—	—	2,448,594	160,938	—	1,997	1,080	2,612,609
\$	—	—	—	2,069,830	137,209	—	2,496	8,505	2,218,040
Total tons	359,350	9,757,607	720,792	10,111,361	10,141,156	207,556	27,017	1,443,086	32,767,925
\$	619,474	6,407,337	649,604	16,358,810	12,538,699	703,052	135,315	2,444,843	39,857,134
Per cent of total Quan.	1.10	29.78	2.20	30.86	30.95	0.63	.08	4.40	100.00
\$	1.55	16.08	1.63	41.04	31.46	1.76	.34	6.14	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,
1953 and 1954

For use as follows		Granite ¹	Limestone ²	Marble	Sandstone	Slate	Total
1953							
Building stone:							
Rough	tons	12,457	37,384	189	8,923	—	58,953
	\$	289,521	477,042	16,720	80,010	—	863,293
Dressed	tons	16,867	40,215	101	2,097	—	59,280
	\$	1,505,558	1,862,280	27,850	111,114	—	3,506,802
Monumental and ornamental stone:							
Rough	tons	9,630	491	52	35	—	10,208
	\$	277,162	1,687	2,285	392	—	281,526
Dressed	tons	6,190	—	—	—	—	6,190
	\$	693,231	—	—	—	—	693,231
Flagstone	tons	350	2,209	—	3,889	—	6,448
	\$	4,095	29,587	—	51,693	—	85,375
Curbstone	tons	192	—	—	—	—	192
	\$	5,555	—	—	—	—	5,555
Paving blocks	tons	52	—	—	—	—	52
	\$	1,191	—	—	—	—	1,191
Chemical and metallurgical:							
Lining open-hearth furnaces	tons	—	41,189	—	—	—	41,189
	\$	—	53,317	—	—	—	53,317
Flux in iron and steel furnaces	tons	—	1,243,913	—	1,258	—	1,245,171
	\$	—	1,517,650	—	12,580	—	1,530,230
Flux in non-ferrous smelters	tons	—	156,475	162	—	—	156,637
	\$	—	172,401	1,215	—	—	173,616
Glass factories	tons	—	32,789	—	—	—	32,789
	\$	—	65,348	—	—	—	65,348
Pulp and paper mills	tons	—	398,541	10,428	—	—	408,969
	\$	—	1,127,693	31,284	—	—	1,158,977
Sugar refineries	tons	—	11,137	—	—	—	11,137
	\$	—	13,900	—	—	—	13,900
Other chemical uses	tons	—	37,702	—	—	—	37,702
	\$	—	41,853	—	—	—	41,853
Mineralized stone:							
Whiting (substitute)	tons	—	5,146	11,767	—	—	16,913
	\$	—	39,908	141,204	—	—	181,112
Asphalt filler	tons	5,000	49,943	—	—	—	54,943
	\$	10,000	202,031	—	—	—	212,031
Dusting coal mines	tons	—	982	—	—	—	982
	\$	—	5,562	—	—	—	5,562
Agricultural purposes and fertilizer plants	tons	—	510,547	4,676	—	—	515,223
	\$	—	1,242,665	9,185	—	—	1,251,850
Other uses	tons	—	48,187	950	—	113	49,250
	\$	—	159,044	17,000	—	113	176,157
Crushed stone for manufacture of artificial stone	tons	—	1,430	6,357	—	—	7,787
	\$	—	14,100	40,441	—	—	54,541
Roofing granules	tons	99,221	—	—	—	1,858	101,079
	\$	193,635	—	—	—	31,572	225,207
Poultry grit	tons	4,380	2,008	4,089	—	—	10,477
	\$	67,000	15,331	40,950	—	—	123,281
Stucco dash	tons	1,905	7,684	1,170	—	—	10,759
	\$	20,445	91,623	9,600	—	—	121,668
Terrazzo chips	tons	—	734	15,486	—	—	16,220
	\$	—	6,700	201,787	—	—	208,487
Rock wool	tons	—	14,712	—	—	—	14,712
	\$	—	12,188	—	—	—	12,188
Rubble and riprap	tons	715,011	423,639	2	59,860	650	1,199,162
	\$	1,319,387	456,108	12	97,417	650	1,873,574
Crushed stone:							
Concrete aggregate	tons	156,888	6,747,666	150	13,647	—	6,918,351
	\$	280,890	7,790,011	225	32,163	—	6,103,289
Road metal	tons	322,774	6,755,240	1,226	868,661	—	7,947,901
	\$	886,860	7,467,194	1,533	307,926	—	8,663,413
Railroad ballast	tons	—	888,258	350	15,734	—	904,342
	\$	—	903,843	700	2,770	—	907,313
Other uses	tons	—	3,499	2,500	—	—	5,999
	\$	—	14,164	5,000	—	—	19,164
Total ²	tons	1,350,917	17,461,720	59,655	974,104	2,621	19,849,017
	\$	5,554,530	23,783,230	546,991	695,965	32,335	30,613,051

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
1953 and 1954 - Concluded

For use as follows	Granite ¹	Limestone ²	Marble	Sandstone	Shale	Slate	Total
1954							
Building stone:							
Rough	tons 11,729	43,433	175	10,292	-	-	65,629
\$ 118,705	349,418	16,465	125,681	-	-	-	610,269
Dressed	tons 22,380	44,019	207	2,483	-	-	69,089
\$ 1,863,651	2,394,216	65,447	138,269	-	-	-	4,461,583
Monumental and ornamental stone:							
Rough	tons 10,872	470	110	25	-	-	11,477
\$ 268,773	1,848	5,952	600	-	-	-	277,173
Dressed	tons 6,947	-	-	-	-	-	6,947
\$ 1,206,171	-	-	-	-	-	-	1,206,171
Flagstone	tons 320	1,633	-	4,253	-	-	6,206
\$ 3,518	18,944	-	49,984	-	-	-	72,446
Curbstone	tons 511	-	-	-	-	-	511
\$ 32,133	-	-	-	-	-	-	32,133
Paving blocks	tons 52	-	-	111	-	-	163
\$ 1,056	-	-	410	-	-	-	1,466
Chemical and metallurgical:							
Lining open-hearth furnaces	tons -	55,408	-	-	-	-	55,408
\$ -	69,719	-	-	-	-	-	69,719
Flux in iron and steel furnaces	tons -	1,020,775	-	541	-	-	1,021,316
\$ -	1,314,740	-	5,410	-	-	-	1,320,150
Flux in non-ferrous smelters	tons -	155,322	490	-	-	-	155,812
\$ -	178,771	1,486	-	-	-	-	180,257
Glass factories	tons -	15,968	-	-	-	-	15,968
\$ -	27,992	-	-	-	-	-	27,992
Pulp and paper mills	tons -	452,036	9,945	-	-	-	461,981
\$ -	1,348,783	35,608	-	-	-	-	1,384,391
Sugar refineries	tons -	10,583	-	-	-	-	10,583
\$ -	13,421	-	-	-	-	-	13,427
Other chemical uses	tons -	29,676	-	-	-	-	29,676
\$ -	25,444	-	-	-	-	-	25,444
Pulverized stone:							
Whiting (substitute)	tons -	3,849	11,611	-	-	-	15,460
\$ -	16,722	139,335	-	-	-	-	156,057
Asphalt filler	tons 13,042	35,070	-	-	-	-	48,112
\$ 31,745	137,150	-	-	-	-	-	168,895
Dusting coal mines	tons -	1,131	-	-	-	-	1,131
\$ -	6,732	-	-	-	-	-	6,732
Agricultural purposes	tons -	362,110	2,186	-	-	-	364,296
\$ -	930,015	5,005	-	-	-	-	935,020
Other uses	tons -	86,825	463	68	-	130	87,486
\$ -	287,686	46,920	1,031	-	-	130	335,767
Crushed, for artificial stone	tons -	4,947	11,449	-	-	-	16,396
\$ -	8,755	66,459	-	-	-	-	75,214
Roofing granules	tons 66,859	-	-	-	-	1,678	68,535
\$ 85,596	-	-	-	-	-	30,237	115,833
Poultry grit	tons 5,110	2,003	2,184	-	-	-	9,297
\$ 83,840	15,951	17,696	-	-	-	-	117,487
Stucco dash	tons 1,785	7,404	1,780	-	-	-	10,969
\$ 26,775	68,805	20,980	-	-	-	-	116,560
Terrazzo chips	tons -	780	15,853	-	-	-	16,633
\$ -	6,257	209,200	-	-	-	-	215,457
Rock wool	tons -	1,470	-	-	-	-	1,470
\$ -	2,194	-	-	-	-	-	2,194
Rubble and riprap	tons 9,885,092	296,509	22	83,805	204,000	516	10,469,944
\$ 6,362,439	321,589	170	148,428	142,800	516	516	6,975,942
Crushed stone:							
Concrete aggregate	tons 46,005	6,358,862	680	11,723	3,660	-	6,420,930
\$ 68,990	7,387,487	1,006	26,778	34,465	-	-	7,518,726
Road metal	tons 464,023	8,947,856	546	602,589	3,245	-	10,018,259
\$ 982,607	9,280,139	1,820	200,734	3,200	-	-	10,468,500
Railroad ballast	tons 100,000	569,128	-	26,504	-	-	695,632
\$ 146,000	597,428	-	4,667	-	-	-	748,095
Other uses	tons 2,200,000	322,481	47	88,084	1,997	-	2,812,609
\$ 1,760,000	333,820	153	121,571	2,496	-	-	2,218,040
Total²	tons 12,834,727	18,829,748	57,748	830,478	212,902	2,322	32,767,925
\$ 13,041,999	25,144,026	633,702	823,563	182,961	30,883	30,883	38,857,134

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, 1945-1954

Year	Building stone	For chemical purposes ¹	For concrete aggregate	For road metal	For railroad ballast	For cement manufacture ²
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
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
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
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
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
1950	tons \$	118,840 3,266,937	1,335,969 2,174,308	6,203,220 6,550,042	7,232,983 7,705,133	508,446 458,146
1951	tons \$	124,185 4,575,321	1,532,692 2,623,611	5,610,456 6,416,332	8,069,481 8,105,952	912,893 996,161
1952	tons \$	109,205 4,229,790	1,734,812 3,049,623	6,110,081 8,335,878	6,872,963 7,912,210	1,075,330 1,225,611
1953	tons \$	118,233 4,370,095	1,892,405 2,983,924	6,918,351 8,103,289	7,947,901 8,663,413	904,342 907,313
1954	tons \$	134,718 5,071,852	1,695,336 2,951,655	6,420,930 7,518,726	10,018,259 10,468,500	695,632 748,095

1. Does not include limestone used in Canadian lime industry which totalled 2,154,987 tons in 1954.

2. Includes shale. In 1954 the shale used totalled 277,085 tons.

TABLE 7. Imports and Exports of Stone, by Kinds, 1953 and 1954

		1953		1954	
		Quantity	Value	Quantity	Value
IMPORTS					
Building stone, n.o.p.	cwt.	620,000	\$ 595,134	694,604	\$ 660,417
Curling stones and handles therefor	pairs	3,549	124,708	2,915	103,955
Granite, rough, not hammered or chiselled	—	...	186,013	—	222,809
Granite, sawn only	—	...	92,488	—	90,357
Granite, manufactures of, n.o.p.	—	...	300,804	—	402,986
Marble, rough, not hammered or chiselled	—	...	131,075	—	179,265
Marble, sawn or sand rubbed, not polished	—	...	206,706	—	254,821
Marble, not further manufactured than sawn, for tombstones	—	...	56,763	—	38,913
Marble for churches	—	...	132,207	—	135,912
Marble, manufactures of, n.o.p.	—	...	32,245	—	49,169
Refuse stone	tons	2,899	4,622	3,674	7,559
Slate roofing	squares	803	24,466	1,458	39,190
Slate mantels and manufactures of slate, n.o.p.	—	...	51,469	—	56,742
Chalk, china, cornwall or cliff stone and mica schist	—	...	6,250	—	2,351
Mineral wool	tons	695	153,698	698	155,546
Whiting, gilders' whiting and Paris white	"	12,247	284,229	10,824	253,811
Manufactures of stone, n.o.p.	—	...	66,210	—	51,112
Chalk, prepared	—	...	1,662	—	3,148
Pumice and pumice stone and lava tufa	—	...	165,709	—	163,028
Grindstones, not mounted and not less than 36 inches in diameter	No.	230	27,306	194	16,630
Grindstones, n.o.p.	"	1,574	7,231	1,241	9,520
Burrstones, rough, in blocks	"	26	986	26	963
Ganister	cwt.	5,710	4,303	11,792	8,350
Roofing granules	tons	94,651	1,670,505	106,303	1,849,403
Stone, crushed	"	650,535	629,815	545,435	541,573
Total	—	...	4,956,604	—	5,295,530
EXPORTS					
Building stone, unwrought	tons	105	2,217	228	8,492
Crushed stone	"	6,983	11,399	6,920	11,670
Granite and marble, unwrought	"	3,441	65,528	4,761	79,511
Dressed stone of all kinds	—	...	17,617	—	29,697
Grindstones, manufactured	—	...	22,719	—	96,178
Total	—	...	119,430	—	225,548

TABLE 8. Employees and Their Earnings in the Stone Quarrying Industry, 1950-1954

Year	Number of employees					Number of man-hours worked (all employees)	Earnings			
	Office and administrative		Workmen		Total		Office and administrative	Workmen	Total	
	Male	Female	Male	Female			\$	\$	\$	
1950	243	27	3,287	5	3,562	8,282,744	708,222	6,840,019	7,548,241	
1951	236	34	3,588	3	3,861	9,107,515	770,139	8,448,555	9,218,694	
1952	277	35	3,578	7	3,897	9,350,107	956,036	9,274,604	10,230,640	
1953	287	31	3,480	5	3,803	9,140,090	1,054,617	9,084,575	10,139,192	
1954	312	37	3,793	4	4,146	9,954,575	1,196,583	11,184,221	12,380,804	

TABLE 9. Workmen in the Stone Quarrying Industry, by Months, 1953 and 1954

Month	1953				Total	1954				Total		
	Quarry		Dressing works			Male	Female	Quarry				
	Male	Female	Male	Female				Male	Female			
	Number					Number						
January	1,733	1	666	—	2,400	1,903	—	647	1	2,551		
February	1,765	1	657	—	2,423	1,858	—	695	1	2,554		
March	1,997	1	710	1	2,709	2,254	2	705	1	2,962		
April	2,462	1	829	1	3,293	2,628	2	756	1	3,387		
May	3,079	4	886	1	3,970	3,317	3	865	1	4,186		
June	3,345	4	928	1	4,276	3,730	3	882	1	4,616		
July	3,278	4	940	1	4,223	3,746	3	884	1	4,634		
August	3,285	4	926	1	4,216	3,678	3	914	1	4,596		
September	3,181	4	937	1	4,123	3,668	2	922	1	4,593		
October	2,915	3	948	1	3,867	3,453	3	824	1	4,281		
November	2,451	3	902	1	3,357	3,172	2	778	1	3,953		
December	1,890	1	769	1	2,661	2,377	1	693	1	3,072		
Average	2,636	4	844	1	3,485	2,996	3	797	1	3,797		
Number of man-hours worked during year					8,368,824					9,159,374		

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.

The quantity of granite shown in the 1954 figures is unusually large due to the inclusion of the stone used in the construction of the Canso causeway. Included also is the stone used for this purpose in 1953, but not previously reported.

TABLE 10. Production of Granite¹, 1945-1954

Year	Short tons	\$	Year	Short tons	\$
1945	221,630	1,284,748	1950	2,071,052	4,971,144
1946	319,354	2,006,297	1951	1,950,564	6,014,121
1947	551,527	3,175,364	1952	2,490,086	7,327,022
1948	1,042,928	3,779,436	1953	1,350,917	5,554,530
1949	2,321,017	5,110,024	1954	12,834,727	13,041,999

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 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 Limestone¹, 1945-1954

Year	Marl ²	Limestone, dolomite and marl	Value	Year	Marl ²	Limestone, dolomite and marl	Value
	tons	tons	\$		tons	tons	\$
1945	14,148	5,677,192	6,284,379	1950	48,918	12,267,432	15,964,617
1946	20,363	7,217,600	8,178,513	1951	37,799	15,531,948	20,901,704
1947	27,368	9,497,754	11,966,520	1952	48,935	15,957,799	22,319,143
1948	22,323	10,003,142	12,523,275	1953	64,626	17,461,720	23,783,230
1949	43,181	10,951,312	13,876,845	1954	59,293	18,829,748	25,144,026

1. Includes dolomite and marl.

2. 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, 1945-1954

Year	Short tons	\$	Year	Short tons	\$
1945	13,388	113,337	1950	55,179	436,502
1946	21,796	201,817	1951	83,982	492,820
1947	45,574	326,605	1952	57,637	524,783
1948	68,347	528,529	1953	59,655	546,991
1949	52,152	446,905	1954	57,748	633,702

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 1954 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 1954 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 13. Production of Sandstone, 1945-1954

Year	Short tons	\$	Year	Short tons	\$
1945	291,430	466,397	1950	3,685,070	4,418,059
1946	495,777	778,213	1951	1,124,551	1,173,665
1947	792,900	975,394	1952	219,424	649,332
1948	577,687	1,065,829	1953	974,104	695,965
1949	596,989	1,014,084	1954	830,478	823,563

SHALE

During 1954 shale was used as a raw material in the production of light-weight aggregates. There was a fairly large tonnage used as a fill in a breakwater. In previous years all the shale quarried was used in brick, tile and cement plants and the statis-

tics on this commodity were included in the data on those industries. The production of shale, excluding that used in clay products and cement, amounted to 212,902 tons valued at \$182,961 in 1954.

SLATE

Canadian slate production in 1953 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 14. Production of Slate, 1945-1954

Year	Short tons	\$	Year	Short tons	\$
1945	1,915	17,839	1950	8,331	105,035
1946	1,733	20,871	1951	5,661	67,458
1947	1,633	20,866	1952	1,250	15,076
1948	4,339	51,484	1953	2,621	32,335
1949	6,569	80,215	1954	2,322	30,883

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.

List of Firms in the Stone Quarrying Industry - 1954

Name	Head office address	Location
GRANITE		
Newfoundland: Newfoundland Department of Highways	St. John's	Various
Nova Scotia:		
Dauphinee, W.T. ² Erinville Black Granite Quarry Ltd. ¹ Municipal Spraying and Contracting Ltd. Nixon Granite Works ² Northern Construction Co. & J.W. Stewart, Ltd. Nova Scotia Department of Highways Scott, T.W., & Co. ²	Box 68, Shelburne Sydney 1350 Barrington St., Halifax R.R. # 3, Middleton 1304 Hornby St., Vancouver, British Columbia Halifax Box 336, Middleton	Birchtown Erinville Bedford Nictaux West Mulgrave Various Nictaux West
New Brunswick: Stults Monument Works ²	Saint John.....	Hampstead
Quebec:		
Adru Granite Inc. ² Atlas Granite Co. Ltd. Beebe Granite Works ² Bélanger, Philippe Bolduc, Antonio ² Bouchard, T. Albert Brodies Ltd. ² Brussière & Frère Engr. ² Canada Black Granite Co. Ltd. ² Carrière de Grand'Mère Carrière Shawinigan Engr. ³ Deschambault Quarry Corp. ² Dumas & Voyer ⁴ Everlasting Granite Co. Ltd. (The) ² Foundation Co. of Canada, Ltd. Gaboriault & Nevers Reg'd. ² Gingras & Frère Ltée ² Granit National Ltée, Le ⁴ Grenier, Elie Gulf Maritime Construction Ltd. Hydro Québec Laforme, Noé Laroche, Omer ² Laurentian Granite Co. Ltd. Lavoie, P. Marvel Granite Reg'd. McNamara Construction Co. Ltd. Messier, L. Moreau, P. ² Parent, G.H. ² Parent, R. Perron, A. Poisson, M. Quebec Department of Roads Quebec Iron & Titanium Corporation Red Diamond Granite Co. St. Bruno Quarry & Paving Co. Inc.	P.O. Box 83, Montreal Guenette Beebe 10 Bellevue St., Shawinigan Falls St-Sébastien La Tuque 1070 Bleury St., Montreal St-Sébastien 316 Latulipe St. W., Rouyn Grand'Mère Shawinigan Falls 3444 Blvd. St. Joseph, Montreal Rivière-à-Pierre Lac Mégantic 1900 Sherbrooke St. W., Montreal P.O. Box 65, Grenville Stanhope St-Joseph D'Alma Glenada Matane 107, rue Craig W., Montréal Ste-Flore Rivière-à-Pierre Lac des Écorces Notre Dame d'Hébertville 17 Notre Dame St., Donnacona 42 Industrial St., Toronto, Ontario Iberville Hébertville Station St-Jérôme Ste-Agathe des Monts Rivière-à-Pierre Guenette Québec 1510 Drummond St., Montreal 25 Ville Marie 636, ave Querbes, Outremont.	Beebe Guenette Beebe Shawinigan Falls Ste-Cécile La Tuque Graniteville, Guenette and Mount Johnson St-Sébastien Beaudry Grand'Mère Glenada St-Gérard Rivière-à-Pierre St. Samuel Gaspé Grenville Stanhope St-Gédéon, Ste-Anne and St-Joseph d'Alma Glenada Matane Rouyn-Noranda Ste-Flore Rivière-à-Pierre Lac des Écorces Notre Dame d'Hébertville St. Raymond Forestville Iberville Hébertville Station St-Jérôme Labelle Co. Portneuf Co. Guenette Various Lac Allard Ville Marie St. Bruno

List of Firms in the Stone Quarrying Industry - 1954 - Continued

Name	Head office address	Location
GRANITE - concluded		
Quebec - concluded:		
St. Pierre, J. ¹	Guenette	Guenette
St. Samuel Granite ²	St. Samuel Station	St. Samuel Station
Scotswood Granite Co. Ltd. ²	Cap St-Martin	Cap St-Martin
Silver Granite Co. Ltd. ²	2251, rue Delormier, Montréal	St-Samuel
Simard & Frère Cie Ltd. ¹	Amos	Amos
Stanstead Granite Quarries Company Limited ²	Beebe	Graniteville
Suzor, O.	Pont Rouge	Pont Rouge
Trudel, N., & Fils	Ste Irénée	Charlevoix Co.
White Diamond Granite Co., Ltée ²	1043 Blvd. des Forges, Trois-Rivières	Wolfe and Guenette Counties
Ontario:		
Boothby, F.G.	Port Cunnington	Franklin Tp.
Building Products Ltd.	P.O. Box 6063, Montreal, Quebec	Madoc and Havelock
Canadian Dredge & Dock Co. Ltd. ¹	302 Harbour Commission Bldg., Toronto	Port Arthur
Hall, Wilfred	36 Burrill St., Parry Sound	Mill Lake
Scotswood Granite Co. Ltd. ²	Vermilion Bay	Vermilion Bay
Verona Rock Products Ltd.	Verona	Verona
Manitoba:		
Manitoba Department of Highways	Winnipeg	Various
Shoal Lake Granite Co. ¹	East Braintree	East Braintree
Winnipeg Marble Co. Ltd. ¹	1180 Wall St., Winnipeg	West Hawk Lake
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
Gilles Bros. Ltd.	902 Columbia St., New Westminster	New Westminster
Gilpin Construction Co. Ltd. ¹	119 W. Pender St., Vancouver	Burrard
McDonald, J.A. & C.H., Limited ²	1571 Main St., Vancouver	Sointula
Nelson Granite & Monumental Co. ¹	Nelson	Nelson
Stucco Supply Co.	937 Main St., Vancouver	Oliver
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. 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
Newfoundland Department of Highways	St. John's	Various
Nova Scotia:		
Cook, Bruce	East River Point	East River Point
Grant, G.W.	Milford Station	Admiral Rock
Mersey Paper Co. Ltd.	Liverpool	East River Point
Moshier Limestone Co. Ltd.	Upper Musquodoboit	Upper Musquodoboit
Nova Scotia Department of Highways	Halifax	Various
New Brunswick:		
Brookville Manufacturing Co. Ltd.	Brookville	Brookville
Canada Cement Company Limited	Box 490, Station B, Montreal, Quebec	Havelock
Elm Tree Limestone Co-Operative Ltd.	Nigadoo	Nigadoo
Havelock Lime Works	Havelock	Havelock
Snowflake Lime Ltd.	3 Pokloq 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
Archambault Cut Stone Co. Ltd. ²	Bélanger Village	Bélanger Village
Back River Quarries Ltd.	680 Blvd. Labelle, l'Abord à Plouffe	Cap St. Martin
Beaudry, Joseph P.	133 Taché St., Joliette	Joliette
Bédard, Jean, Ltée	480 Lafleur Ave., La Salle	La Salle
Boucher, Louis	Percé	Percé
Canada Cement Co. Ltd.	P.O. Box 290, Station "B", Montreal	Hull
Carrière Andorno ²	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 Château Enrg.	Chateau-Richer	Montmorency
Carrière du Cap St-Martin Enrg.	636, ave Querbes, Outremont	Cap St-Martin
Carrière Gouin Limítée	139 Blvd. Normand, Trois-Rivières	Portneuf Co.
Carrière Gravel Ltée ¹	Chateau-Richer	Chateau-Richer
Carrière Montreal-Est Ltée	11175 St. Léonard, Port Maurice	Port Maurice
Carrière Pointe Claire	235 Montée St-Charles, Ste-Genevieve	Pointe Claire

List of Firms in the Stone Quarrying Industry - 1954 - Continued

Name	Head office address	Location
LIMESTONE - continued		
Quebec - concluded:		
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
Charbonneau, Lucien	St-François de Sales	St-François de Sales
Charron & Fils	Bélanger Village	Bélanger Village
Cie de Pierre de Taille Martineau Ltée, La ²	5000 - 13ième ave, Montréal	Pont Vieux
Consumers Quarry Limited	8413, boul. St-Michel, Ville St-Michel	Ville St-Michel
Department of the Justice ²	Ottawa, Ontario	St-Vincent de Paul
Deschambault Quarry Corp. ²	5000 - 13ième ave, Montréal	St-Marc des Carrières
Dominion Lime Ltd.	Lime Ridge	Lime Ridge
Entreprises de l'Est Ltée	1055 Demontigny St., Quebec	Pointe Basse and East Cape
Faubert, A.	Chateauguay	Chateauguay
Filion, Aldège	Lachute	Lachute
Gagnon & Fils	St-Joachim	St-Joachim
Gagnon, Rosaire	Roberval	Roberval
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
Jourdain, E.	Cap-Chat	Cap-Chat
Kennedy Construction Co. Ltd.	407 McGill St., Montreal	Actonvale
Lagacé Quarries Ltd.	130, boul. Labelle, L'Abord-à-Plouffe	L'Abord-à-Plouffe
Langlois, A.	St-Marc des Carrières	St-Marc des Carrières
Leclerc, J.J., & Fils Ltée	Drapeau	Drapeau
Marplas, Redgway Ltd.	751 Victoria Square, Montreal	Matane
Mercure, C.	555 St-Denis, St-Hyacinthe	St-Hyacinthe
Miner, R.H., Co. Ltd.	Canton Belanger	Laval Co.
Ministère de la Voie de	Québec	St-Charles de Bellechasse
Miron Frères Ltée	2201, Chemin St-Michel, Montréal	Montréal
Montreal Cut Stone Ltd. ²	1869, rue St-André, Montréal	St-François de Sales
Montreal Quarry Ltd.	2020, ave Union, Montréal	St-Michel
National Quarries Ltd.	6301 Park Ave., Montreal	Côte St-Michel
Paquet & Fils Enrg.	St-Marc des Carrières	St-Marc des Carrières
Plourde & Plourde Ltée	Chicoutimi	Chicoutimi
Port Daniel Quarry Reg'd.	Port Daniel Station	Port Daniel Station
Poulin, A.	St-Féréol	St-Féréol
Quebec Department of Roads	Quebec	Various
Rioux, Raoul & Maurice	Cowansville	Cowansville
Rousseau, T.E.	Val Brillant	Val Brillant
St. Francis Rock Products & Equipment Ltd.	Côte Ste. Marguerite, Montreal	St. Laurent
St. Laurént Stone Products & Supplies Ltd.	Côte Ste. Marguerite, Montreal	St. Laurent
Salaberry de Valleyfield, La Cité ¹	Salaberry de Valleyfield	Salaberry de Valleyfield
Shawinigan Chemicals Ltd.	600 Dorchester St. W., Montreal	Bedford
Standard Lime Co. Ltd.	Joliette	St-Paul de Joliette
Steele, G.K.	New Carlisle	New Carlisle
Tanguay, J.	Ste-Justine	Ste-Justine
Trappe de N.D. de Mistassini, La	Village des Pères	Mistassini
Union des Carrières & Pavages Ltée ²	496 - 2ième ave, Québec	Charlesbourg
Union Construction Limitée	St-Jean	St-Jean
United Stone Products Ltd.	Ste-Geneviève de Pierrefonds	Ste-Geneviève de Pierrefonds
Vaudry, J. & E.	Cap St-Martin	Laval Co.
Verreault, Elzéar, Ltée	194, du Pont, Québec	Gifford
Viau, Paul	340, boul. du Havre, Valleyfield	Valleyfield
Ontario:		
Abitibi Power & Paper Co. Ltd.	408 University Ave., Toronto	Bucke Tp.
Armstrong Bros. Construction	Brampton	Vinemount
Bertrand & Frère Cons. Co. Ltd. ¹	L'Orignal	Plantagenet
Bethlehem Mines Corp.	Marmora	Marmora
Brunner Mond Canada Ltd.	Bank of Commerce Bldg., Toronto	Anderdon Tp.
Campbell, George, Co.	Fort Erie	Bertie Tp.
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
Canadian Dolomite Company	Portage du Fort, Quebec	Ross Tp.
Carleton Lime Products Co.	P.O. Box 26, Carleton Place	Ramsay Tp.
Chemical Lime Ltd.	P.O. Box 122, Beachville	Beachville
Cobo Minerals Ltd.	147 Farnham Ave., Toronto	Coboconk
Cook, J.S., Stone Quarries ²	Wiarton	Bruce Co.
Cope, A., & Sons Ltd.	19 Albert St., Hamilton	Saltfleet Tp.
Curran & Briggs Limited	61 Hawerson Blvd., Toronto	Cooksville
Dibblee Construction Co. Limited	384 Bank St., Ottawa	Bowesville
Dunville Rock Products	211 George St., Dunnville	Dunn Tp.
Ebel, C.M.	Wiarton	Wiarton
Frazer Duntile Co. Ltd.	130 Sparks St., Ottawa	Nepean Tp.
Frontenac Quarries Ltd.	235 Wellington St., Kingston	Kingston
Grandmaître, D., Ltd.	131 Montreal Rd., Eastview	Montreal Rd.
Gray, J., & Sons	Hamilton	Flamboro Tp.
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
Jamieson Lime Co.	110 Hall Ave., Renfrew	Horton Tp.
Johnston & Clarke	120 Water St. W., Brockville	Brockville
Kingston Penitentiary	Kingston	Kingston
Kirkfield Crushed Stone Ltd.	2700 Dufferin St., Toronto	Kirkfield
Laurentian Stone Co. Ltd., The	195 Nicholas St., Ottawa	Quarries
Law, R.E., Crushed Stone Ltd.	Port Colborne	Port Colborne
Limestone Products Ltd.	1109 Millwood Rd., Toronto	Orillia Tp.
McGinnis & O'Conner Limited	394 King St. E., Kingston	Barriefield
Nelson Crushed Stone Ltd.	Box 36, Oakville	Burlington
Ningara Crushed Stone (Humberstone) Ltd.	Box 222, Port Colborne	Welland

List of Firms in the Stone Quarrying Industry - 1954 - Continued

Name	Head office address	Location
LIMESTONE - concluded		
Ontario - concluded:		
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 ²	72 Sun Life Bldg., Hamilton	Niagara Falls
Ridgemont Quarries	Stevensville	Bertie Tp.
Rieger Bros. Construction Ltd.	Scudder P.O.	Pelee Island
Robindale Quarries Limited	Picton	Robindale
Sauve, R.E.	Forbes	Forbes
Savigny Bros.	P.O. Box 143, Merriton	Grantham Tp.
Storey, C.L.	R.R. 2, Bath	Napanee
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. ²	251 Machray Ave., Winnipeg	Garson
Gillis Quarries Ltd. ²	Richard & Spruce Sts., Winnipeg	Garson
Manitoba Department of Highways	Winnipeg	Various
Tyndall Quarry Co. Ltd. ²	1591 Erin St., Winnipeg	Tyndall
Winnipeg, City of	225 James Ave., Winnipeg	Stony Mountains
Winnipeg Supply & Fuel Co. Ltd.	812 Boyd Bldg., Winnipeg	Moosehorn and Stonewall
Alberta:		
Loder's Lime Co. Ltd.	940 - 8th Ave. W., Calgary	Kananaskis
Summit Lime Works Ltd.	P.O. Box 273, Lethbridge	Lethbridge
British Columbia:		
Bart, A.E.	Prince Rupert	Prince Rupert
B.C. Department of Highways	Victoria	Various
Beale, W.S.	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
Cheam Marl Products Ltd.	1137 W. Hastings St., Vancouver	Bridal Falls
Cobble Hill Lime Products.	Cobble Hill	Cobble Hill
Consolidated Mining & Smelting Co. of Canada, Ltd.	Trail	Fife
Erikson, Nils	Jeune Landing	Jeune Landing
Fernie, City of ¹	Fernie	Fernie
Fraser Valley Lime Supplies	693 - 17th Ave., New Westminster	Popkum
Koeye Limestone Co. Ltd.	Namu	Koeye River
Martinson, John	Jeune Landing	Jeune Landing
McKay, D. & A.	Van Anda	Van Anda
Pacific Lime Co. Ltd.	744 W. Hastings St., Vancouver	Blubber Bay
Wood & McClay Limited ¹	1768 E. Hastings St., Vancouver	Aristazabal Island
MARBLE		
Quebec:		
Delbo Inc.	North Stukely	North Stukely
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
South Stukely Marble & Terrazzo	South Stukely	South Stukely
Ontario:		
Bolender's Limited	Haliburton	Eagle Lake
Bonter, W.F., & Co. Ltd.	Malone	Malone
Bonter Marble & Calcium Co. Ltd.	P.O. Box 61, Marmora	Marmora
International Ceramic Mining Ltd.	577 Eglinton Ave., Toronto	Melissa Tp.
Pulverized Marble Products Limited	348 Fraser St., North Bay	Kaladar Tp.
Silvertone Black Marble Quarries Ltd.	305 O'Connor St., Ottawa	St. Albert
Stoklosar Marble Quarries	P.O. Box 208, Madoc	Madoc
SANDSTONE		
Nova Scotia:		
Arsenault Monumental Works ²	Antigonish	North Grant
Walace Quarries Limited	Wallace	Wallace
New Brunswick:		
New Brunswick Highways	Fredericton	Various
Smith, E.A., Estate	Shediac	Shediac
Quebec:		
Beauharnois Light, Heat & Power Co.	107 Craig St., Montreal	Melcheville
Electro Metallurgical Co.	2221 Yonge St., Toronto, Ont.	Melcheville
Gagnon, L.P.	7, ave Gagnon, Lévis	St-David de Lévis
Gulf Maritime Construction Ltd.	Matane	St. Anaclet
Mannix Ltd.	1612 University Tower Bldg., Montreal	Mont Louis
Notre Dame Quarries Co. Ltd.	Bon Conseil	Bon Conseil

List of Firms in the Stone Quarrying Industry — 1954 — Concluded

Name	Head office address	Location
SANDSTONE — concluded		
Quebec — concluded:		
Poirier, W.....	Montebello.....	Montebello
Quebec Department of Roads.....	Quebec.....	Various
Rousseau, T.E.....	Val Brillant.....	New Carlisle
Sherbrooke, City of.....	Sherbrooke.....	Sherbrooke
Simard, Adjutor.....	Pointe-au-Pic	Pointe-au-Pic
Ontario:		
Argo Block Co. Ltd.....	Cooksville.....	Glen Williams
Barnes, Wm. R., Co. Ltd.....	243 Cumberland Ave., Hamilton	Inglewood
Brennan, M.....	Britannia Bay	Nepean Township
Campbell Sandstone Quarries Ltd. ²	466 Highland Ave., Ottawa	Bell's Corners
Corner, Austin.....	Belfountain	Belfountain
Credit Valley Quarries Company Ltd.....	Inglewood	Inglewood
Deforest Bros.....	Terra Cotta	Terra Cotta
Martin Quarries.....	Glen Williams	Glen Williams
Moore, A.....	Minden	Minden
Mountain Sandstone Quarry.....	Georgetown	Inglewood
Norrie & Sheilbourne.....	Georgetown	Georgetown
Norton, A.....	Limehouse	Limehouse
Rice, & McHarg Quarries.....	Limehouse	Limehouse
Smithson, C.....	122 Church St. E., Brampton	Terra Cotta
Walker Bros.....	Inglewood	Inglewood
British Columbia:		
Canadian Pacific Railway Co.....	Montreal, Quebec	Revelstoke
Consolidated Mining & Smelting Co. of Canada Ltd.....	Trail	Kimberley
SHALE		
Quebec:		
Mannix Ltd.....	1612 University Tower Bldg., Montreal	Mont Louis
Alberta:		
Alberta Ytong Manufacturing Co. Ltd.....	940 — 8th Ave. W., Calgary	Calgary
Light Weight Aggregates of Canada Ltd.....	5340 — 1st St. W., Calgary	Calgary
British Columbia:		
British Columbia Department of Highways.....	Victoria	Various
SLATE		
Quebec:		
Bombardier, J.A.....	Valcourt	Valcourt
Coté, J.....	Granby	Granby
British Columbia:		
Richmond, Geo. W., & Co.	2890 — 12th Ave. E., Vancouver	McNab Creek

1. Did not ship in 1954.

2. Firms operating dressing works in conjunction with quarry.

SECONDARY PRODUCTION — THE STONE PRODUCTS INDUSTRY

In 1954 there were 159 stone dressing works whose operations were concerned 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 or lettering monuments and dressing works operated by quarry owners located either at the quarry or elsewhere have not been included. The operations of twelve plants manufacturing mineral wool were also included in this industry.

Output from this industry was valued at \$24,870,273 in 1954, an increase of 9.6 per cent over the total of \$22,695,639 reported for the previous year. The 62 works in Ontario accounted for 75 per cent of the total output and the 50 plants in Quebec for 11 per cent. The total number of employees was 2,356 who were paid \$7,261,917 in salaries and wages. Materials used in cutting and dressing processes, including stone, cost \$8,292,982. The latter figure also includes the cost of materials used in the production of mineral wool. Expenditures for fuel and electricity amounted to \$854,481.

NOTE: Figures for value added by manufacture shown in Table 15 prior to 1952 were obtained by subtracting the cost of materials used, including fuel and electricity, from the value of production. In 1952, the gross value of production was replaced by value of factory shipments, f.o.b. plant. As no information on inventory change is available for 1952 and 1953, value added figures for these years were obtained by subtracting from the value of shipments the cost of materials, fuel and electricity. In 1954, information on the value of year-end inventory holdings at plant and plant warehouses was collected as part of the annual Census of Industry and information thus made available was taken into account in calculating the value added figure for 1954.

TABLE 15. Principal Statistics of the Stone Products Industry, Significant Years 1929-1954, and by Province 1953 and 1954

Year and province	Establishments	Employees	Earnings	Cost of fuel and electricity at works	Cost at plant of materials used	Value added by manufacture ¹	Gross selling value of products ¹
	No.	No.	\$	\$	\$	\$	\$
1929	220	1,863	3,048,084	138,508	2,788,934	5,296,618	8,224,060
1933	212	821	841,425	87,562	691,523	1,383,565	2,162,650
1937	229	1,159	1,352,566	122,209	1,142,885	2,106,148	3,371,242
1939	190	1,257	1,458,780	139,438	1,259,347	2,407,004	3,805,989
1945	144	1,055	1,665,593	196,703	1,708,599	3,295,818	5,199,120
1946	147	1,541	2,643,298	293,538	2,906,528	5,863,829	9,063,895
1949	163	2,053	4,542,522	707,081	6,095,824	10,646,525	17,449,330
1950	165	2,429	5,730,817	862,626	6,589,627	12,437,492	19,889,745
1951	161	2,270	6,198,170	768,099	6,733,301	11,206,251	18,705,651
1952	155	2,142	6,203,703	828,107	7,354,093	11,923,780	20,105,980
1953							
Newfoundland	3 }	33	69,897	5,741	59,378	126,107	191,226
Prince Edward Island	1 }						
Nova Scotia	7	80	179,098	25,575	210,050	325,676	561,301
New Brunswick	6	50	130,273	10,741	40,965	148,883	200,589
Quebec	44	284	693,966	54,186	808,143	1,185,187	2,047,516
Ontario	67	1,482	4,944,366	766,082	5,722,979	10,806,676	17,295,737
Manitoba	10	74	172,622	8,066	168,185	286,572	462,823
Saskatchewan	5	43	92,416	4,658	140,211	191,370	336,239
Alberta	7	90	226,619	22,113	391,751	469,757	883,621
British Columbia	9	81	210,714	25,786	274,495	416,306	716,587
Canada	159	2,217	6,719,771	922,948	7,816,157	13,956,534	22,695,639
1954							
Newfoundland	3 }	31	67,274	6,348	53,527	125,361	180,030
Prince Edward Island	1 }						
Nova Scotia	7	78	181,315	22,491	189,473	343,819	555,276
New Brunswick	6	63	143,452	12,826	57,524	219,107	290,073
Quebec	50	373	916,098	83,405	972,837	1,581,756	2,639,867
Ontario	62	1,525	5,233,606	651,967	5,985,611	12,184,785	18,744,250
Manitoba	10	68	153,372	9,670	136,455	229,161	377,202
Saskatchewan	5	29	65,439	3,745	145,187	82,834	231,192
Alberta	6	86	208,074	23,769	438,483	424,045	881,391
British Columbia	9	103	293,287	40,260	313,885	621,800	970,992
Canada	159	2,356	7,261,917	854,481	8,292,982	15,812,668	24,870,273

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

1. See footnote to text.

TABLE 16. Inventories¹, 1954

	Raw materials and supplies	Goods in process	Finished goods of own manufacture	Total
Opening:				
Newfoundland and Prince Edward Island	17,984	1,128	16,115	35,227
Nova Scotia	42,308	1,132	7,567	51,007
New Brunswick	20,557	5,627	19,484	45,668
Quebec	227,425	52,868	65,226	345,519
Ontario	1,390,359	144,556	493,063	2,027,978
Manitoba	22,467	11,937	50,171	84,575
Saskatchewan	1,143	—	2,287	3,430
Alberta	154,952	—	6,251	161,203
British Columbia	28,970	13,941	16,806	59,517
Canada	1,906,165	231,189	676,770	2,814,124
Closing:				
Newfoundland and Prince Edward Island	12,694	1,304	21,321	35,319
Nova Scotia	44,293	3,144	8,074	55,511
New Brunswick	15,010	8,092	18,868	41,970
Quebec	247,112	49,414	63,357	359,883
Ontario	1,363,828	122,267	571,176	2,057,271
Manitoba	25,805	21,014	48,255	95,074
Saskatchewan	3,326	—	2,861	6,187
Alberta	122,932	—	11,157	134,089
British Columbia	51,459	32,229	21,559	105,247
Canada	1,886,459	237,464	766,628	2,890,551

Note: Beginning with 1954, information on the value of year-end inventory holdings at plant and plant warehouses is being collected as part of the annual Census of Industry. These data were formerly collected by a separate survey. The summarized results for the Stone Products Industry for the year under review are shown in the above table.

1. Book value of all manufacturing inventories owned and held at plant and plant warehouses.

TABLE 17. Output of the Stone Products Industry, 1953 and 1954

Product	Total selling value at works	
	1953	1954
Granite, cut and polished:	\$	\$
(a) Monuments	3,058,768	3,344,530
(b) For building purposes	584,549	1,034,539
Marble, cut and polished:		
(a) Monuments	823,186	756,144
(b) For building purposes	665,621	847,984
Marble chips and dust	18,229	2,028
Limestone:		
(a) Monuments and bases	36,426	15,372
(b) For building purposes	2,502,958	3,846,095
Semi-finished monuments, bases and markers (all kinds, sold for further processing, except lettering)	166,780	110,192
Finished monuments, lettered only	457,199	551,891
Other products ¹	14,217,099	14,335,114
Repairs and custom work (re-lettering, etc.)	164,824	26,384
Total	22,695,639	24,870,273

1. Includes mineral wool, etc.

TABLE 18. Cost of Materials Used in the Stone Products Industry, 1953 and 1954

	Cost at works	
	1953	1954
Stone:	\$	\$
(a) From Canadian quarries	1,245,225	1,494,319
(b) Imported	994,113	1,337,530
Semi-finished monuments and slabs for further processing, except lettering	174,902	232,845
Monuments, cut and polished, for lettering only	204,120	211,218
Silica sand or ground quartz	103,621	109,885
Slag and stone for mineral wool	589,093 ¹	497,328 ¹
Coke for mineral wool	355,253	353,785
All other materials	4,149,830	4,056,072
Total	7,816,157	8,282,882

1. Includes 6,339 tons of stone at \$31,953 and 80,299 tons of slag at \$557,140 in 1953; 6,442 tons of stone at \$35,930 and 78,500 tons of slag at \$461,398 in 1954.

TABLE 19. Production¹ of Mineral Wool for Building Insulation, 1945-1954

Year	Selling value at works	Year	Selling value at works
	\$		\$
1945	1,839,122	1950	8,104,832
1946	4,098,099	1951	7,926,859
1947	4,966,388	1952	7,923,370
1948	5,828,896	1953	9,002,173
1949	7,474,227	1954	9,093,079

1. (a) Does not include production of other forms such as, pipe covering, refrigerator car insulation, stove, refrigerator and other appliances insulation, etc.

(b) Factory shipments since 1953.

TABLE 20. Factory Shipments¹ of Mineral Wool for Building Insulation, by Grades, 1954

		Quantity	Selling value at works
4-inch batts	Sq. ft.	3,125,786	175,061
3-inch batts	"	47,487,128	1,965,399
2-inch batts	"	141,989,830	5,126,009
1-inch batts	"	32,404	883
Granulated	Cu. ft.	9,633,158	1,635,863
Bulk or loose wool	"	1,168,623	189,884
Total	-	-	8,083,079

1. See footnotes to Tables 19 and 21.

TABLE 21. Producers' Shipments of Mineral Wool for Building Insulation, by Months, 1953 and 1954

	Four-inch batts	Three-inch batts	Two-inch batts	Granulated wool	Bulk or loose wool
	sq. ft.	sq. ft.	sq. ft.	cu. ft.	cu. ft.
1953					
January	325,217	3,106,193	9,572,405	827,293	131,398
February	229,930	2,253,230	7,263,232	547,834	84,217
March	186,962	2,427,989	8,756,442	505,384	100,481
April	152,198	2,085,267	8,061,046	435,402	57,006
May	240,093	3,233,801	9,872,088	595,216	90,594
June	178,289	3,462,728	10,512,699	759,442	81,703
July	457,458	4,575,503	14,078,685	887,699	142,980
August	263,648	4,783,987	14,774,831	811,393	114,832
September	336,519	5,060,083	14,452,953	1,024,914	95,507
October	375,298	5,671,974	14,358,105	1,281,740	87,156
November	298,154	4,696,711	13,239,350	1,090,955	105,454
December	149,673	3,188,589	9,803,201	793,078	56,145
Total	3,183,439	44,546,055	134,745,037	9,560,350	1,147,473
1954					
January	184,432	3,087,633	8,636,805	719,250	85,746
February	146,578	2,459,066	8,277,566	559,593	47,242
March	153,440	2,314,663	8,548,674	530,240	44,200
April	80,370	2,041,839	7,518,053	495,782	49,721
May	228,969	2,658,508	12,140,455	577,844	28,440
June	284,450	3,962,165	12,443,520	712,131	35,315
July	368,276	4,999,876	14,137,820	780,801	57,369
August	353,590	5,562,501	18,250,282	815,518	87,163
September	356,296	5,388,249	15,723,470	1,039,561	134,044
October	461,320	5,668,957	15,032,410	1,288,089	130,477
November	407,990	4,568,616	15,584,558	1,141,163	126,507
December	227,066	3,304,240	10,090,761	879,783	95,183
Total	3,252,777	46,016,313	146,384,374	9,539,755	921,407

Note: The difference in totals shown in Tables 20 and 21 is accounted for by the fact that for the most part the former were developed from reports which in some instances were filed in a fiscal, rather than calendar year.

Producers of Mineral Wool, 1954

Name	Location of plant
Bishop Asphalt Papers Ltd.	Toronto, Ontario
Canadian Gypsum Company Ltd.	Weston, Ontario
Canadian Johns-Manville Co. Ltd.	Port Union, Ontario
Electric Reduction Co. of Canada Ltd.	Buckingham, Quebec
Elmac Company	Amherst, Nova Scotia
Fiberglas Canada Limited	Sarnia, Ontario
Glacial Rock Insulation Ltd.	Moose Jaw, Saskatchewan
Gypsum, Lime & Alabastine, Canada, Ltd.	Caledonia, Ontario; Calgary, Alberta
Holmes Foundry Co. Ltd.	Sarnia, Ontario
Spun Rock Wools Ltd.	Thorold, Ontario
Western Insulation Limited	Vancouver, British Columbia

TABLE 22. Principal Statistics of the Stone Products Industry, Classified According to Type of Ownership, 1953 and 1954

Type	Establishments	Employees	Earnings	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$
1953					
Individual ownership	80	402	971,815	970,360	2,544,633
Partnerships	31	176	420,960	387,925	1,180,553
Incorporated companies	48	1,639	5,326,976	6,457,872	18,970,453
Total	159	2,217	6,719,771	7,816,157	22,695,639
1954					
Individual ownership	76	389	907,551	1,023,208	2,515,100
Partnerships	31	207	494,825	444,251	1,360,838
Incorporated companies	52	1,760	5,859,541	6,825,523	20,994,335
Total	159	2,356	7,261,917	8,292,982	24,870,273

TABLE 23. Principal Statistics of the Stone Products Industry in Canada, Grouped According to Size of Establishment, 1953 and 1954

Establishments reporting value of factory shipments	Establishments	Employees	Earnings	Cost at plant of materials used	Selling value of factory shipments
	No.	No.	\$	\$	\$
1953					
Under \$25,000.....	68	164	303,063	289,047	787,797
\$25,000 to \$49,999	29	184	420,273	369,936	1,024,589
\$50,000 to \$99,999	32	334	891,755	786,324	2,216,565
\$100,000 to \$199,999	14	240	662,790	706,738	2,111,279
\$200,000 to \$499,999	8	323	1,031,658	1,048,839	2,886,914
\$500,000 to \$999,999	5	274	851,544	1,357,376	2,978,129
\$1,000,000 to \$4,999,999	2	610	2,150,364	3,257,897	10,690,366
\$5,000,000 and over.....	1	88	408,324	—	—
Head offices	—	—	—	—	—
Total	159	2,217	6,719,771	7,816,157	22,695,639
1954					
Under \$25,000.....	66	143	254,542	263,831	688,128
\$25,000 to \$49,999	28	182	410,482	371,708	1,052,644
\$50,000 to \$99,999	30	321	823,566	657,162	2,045,608
\$100,000 to \$199,999	16	290	820,225	766,759	2,200,289
\$200,000 to \$499,999	8	275	883,389	1,100,201	2,842,031
\$500,000 to \$999,999	8	470	1,472,840	2,184,804	5,707,120
\$1,000,000 to \$4,999,999	2	586	2,179,196	2,948,517	10,334,453
\$5,000,000 and over.....	1	89	417,677	—	—
Head offices	—	—	—	—	—
Total	159	2,356	7,261,917	8,292,982	24,870,273

TABLE 24. Employees, Salaries and Wages in the Stone Products Industry, by Provinces, 1953 and 1954

Province	Number of employees				Earnings			\$	
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers		
	Male	Female	Male	Female					
1953									
Newfoundland	9	3	21	—	33	23,949	45,748	69,697	
Prince Edward Island	1	—	—	—	—	—	—	—	
Nova Scotia.....	9	5	66	—	80	43,395	135,703	179,098	
New Brunswick.....	5	1	44	—	50	17,110	113,163	130,273	
Quebec.....	68	8	203	5	284	193,773	500,193	693,966	
Ontario.....	260	96	1,119	7	1,482	1,323,741	3,620,625	4,944,366	
Manitoba	19	4	48	3	74	63,203	109,419	172,622	
Saskatchewan	9	2	30	2	43	26,875	65,541	92,416	
Alberta	11	5	70	4	90	38,889	187,730	226,619	
British Columbia	25	2	54	—	81	88,910	121,804	210,714	
Canada	415	126	1,655	21	2,217	1,819,845	4,899,926	6,719,771	
1954									
Newfoundland	7	1	21	2	31	22,416	44,858	67,274	
Prince Edward Island	1	—	—	—	—	—	—	—	
Nova Scotia.....	13	4	61	—	78	54,866	126,449	181,315	
New Brunswick.....	7	1	55	—	63	25,150	118,302	143,452	
Quebec.....	88	13	272	—	373	279,112	636,986	916,098	
Ontario.....	242	95	1,181	7	1,525	1,416,318	3,817,288	5,233,606	
Manitoba	17	4	44	3	68	64,940	88,432	153,372	
Saskatchewan	8	1	20	—	29	22,392	43,047	65,439	
Alberta	13	8	61	4	86	45,393	162,681	208,074	
British Columbia	30	3	70	—	103	112,844	180,443	293,287	
Canada	425	130	1,785	16	2,356	2,043,431	5,218,486	7,261,917	

MINERAL STATISTICS

TABLE 25. Production Workers, by Months, 1953 and 1954

Month	1953			1954		
	Male	Female	Total	Male	Female	Total
	Number					
January	1,511	19	1,530	1,635	17	1,652
February	1,503	15	1,518	1,584	16	1,600
March	1,531	17	1,548	1,637	11	1,648
April	1,567	18	1,585	1,743	14	1,757
May	1,626	20	1,646	1,778	14	1,792
June	1,671	21	1,692	1,814	18	1,832
July	1,747	18	1,765	1,894	14	1,908
August	1,751	23	1,774	1,879	14	1,893
September	1,794	18	1,812	1,940	18	1,958
October	1,770	23	1,793	1,947	13	1,960
November	1,751	23	1,774	1,839	13	1,852
December	1,637	15	1,652	1,751	14	1,765
Average	1,655	21	1,676	1,785	16	1,801

TABLE 26. Capital and Repair Expenditures in the Stone Products Industry, 1950-1954

Year	Capital expenditures		Sub-total	Repair and maintenance expenditures		Sub-total	Total capital and repair expenditures			
	Construction	Machinery and equipment		Construction	Machinery and equipment					
1950	33	467	500	111	838	949	1,449			
1951	239	652	891	318	761	1,079	1,970			
1952	71	409	480	205	750	955	1,435			
1953	179	359	538	176	745	921	1,459			
1954 ¹	1,204	399	1,603	213	738	951	2,554			

1. Preliminary.

TABLE 27. Imports of Mineral Wool and Glass Wool, 1945-1954

Year	Mineral wool		Glass wool		Total	
	Pounds	\$	Pounds	\$	Pounds	\$
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
1950	208,738	77,848	820,754	318,216	1,029,492	396,064
1951	527,901	64,443	1,289,002	360,684	1,816,903	425,127
1952	648,297	86,562	552,018	201,817	1,200,315	288,379
1953	1,389,100	153,698	708,053	311,338	2,097,153	465,036
1954	1,395,877	155,546	1,543,795	385,453	2,939,672	540,999

Directory of Firms in the Stone Products Industry, 1954

Name of company	Location of plant
Newfoundland:	
Cook's Marble Works.....	St. John's
Muir's Marble Works, Ltd.....	St. John's
Skinner's 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.....	Anson Ave., Amherst
Keddy, C.L., Monument Works.....	171-173 Kempt Road, Halifax
Kelly Monumental Works.....	Bridgewater
Steele, John D., & Sons Ltd.....	33 William St., North Sydney
Tingley, Harold W., (Estate).....	15 Merkel Street, Halifax
Tingley Monuments Limited.....	Amherst
New Brunswick:	
Frenette, P.E., Esq.....	Jacquet River
Kane, M.T., & Co. Ltd.....	Westmoreland Road, Saint John
Miramichi Granite & Marble Works.....	Chatham
St. Stephen Granite Works.....	Queen Street, St. Stephen
Smith, E.A., (Estate).....	Shediac
Stults Monument Works.....	Saint John
Quebec:	
Aiello, S.....	6776 Sherbrooke St. E., Montreal
Archambault Cut Stone Co. Ltd.....	Belanger Village, Co. Laval
Beaulieu, Elzear, & Fils Ltée Enrg.....	Ste-Hélène, Co. Kamouraska
Beebe Granite Works.....	Beebe
Bergstrand, N., Esq.....	Waterville
Berson, L., & Son.....	3884 St. Lawrence Blvd., Montreal
Bissonnette, Alfred, Ltée.....	6554 Durocher Ave., Outremont
Brunet, A.....	Ormstown
Brunet, J., Limitée.....	4485 Côte des Neiges, Montréal
Caron, Eugene, Esq.....	Ste-Anne de Beaupré
Chabot, J. Roy.....	Scott Junction
Chausse, Edouard, & Fils.....	1650 King St. West, Sherbrooke
Crete, James, Esq.....	Royal St., Sorel
Dalceggio, F., Esq.....	4588 Chemin Côte des Neiges, Montreal
Daudelin, Rolland, Esq.....	1395 St. Antoine Street, St. Hyacinthe
Denicourt, Thudot, Esq.....	84-4th Ave., Iberville
Dominion Granite Works Co. Reg'd.....	Beebe
Ducharme, J. Maurice.....	231 Notre Dame St., Victoriaville
Dugas, Joseph, Esq.....	423 St-Charles Borromée N., Joliette
Electric Reduction Co. of Canada Ltd.....	Buckingham
Emslie, John, & Son Reg'd.....	Beebe
Everlasting Granite Co. Ltd.....	Megantic
Fortin, Dollard J., Esq.....	St-David de Lévis
Gingras, Roch, Enrg.....	Ste-Foy
Gignac, Joseph, Esq.....	St-Alban Village
Godin & Delisle Enrg.....	855 St. Valler West, Quebec
Gosselin, M.....	12 Narcisse, Valleyfield
Goyette & Bisaillon.....	Iberville
Houde & Frère Enrg.....	404 Notre Dame, Cap de la Madeleine
Jacques, André, Esq.....	20 Desjardins St., Lévis
Jenne, E.H., Esq.....	Sutton
Kipling, William.....	Riverfield
Lussier, A., Enrg.....	3290 Cadillac St., Montreal
Monuments Funéraires de St-Samuel.....	St-Samuel
Paquin, Laurent, Esq.....	1055 boul. Des Forges, Trois Rivières
PARENT, G.H., Esq.....	349, rue Montigny, St-Jérôme
Picard, W., & Fils.....	3285 Desautels, Montréal
Quinlan, Harold, Cut Stone Ltd.....	Quinlan Ave., Ville La Sale
Rousseau, O., Enrg.....	St-Fabien
Rousseau, Jos., Enrg.....	400 St-Germain St., Rimouski
Roxton Granite & Marble Works.....	Roxton Falls, Co. Shefford
Smith Bros. Memorial Art Ltd.....	2116 Bleury St., Montreal
Smith Marble & Construction Co. Ltd.....	207 Van Horne Ave. W., Montreal
St-Hilaire, J. Emile, Esq.....	Rock Island
St-Louis & Fils.....	Cap St-Martin
St-Martin, R.N., & Fils Enrg.....	359-361, rue Maisonneuve, Hull
Theriault, J. L., & Fils Ltée.....	710-11 ^{ème} ave, Québec
Todoro & Bigras.....	6752 Sherbrooke St. E., Montreal
Vileneuve & Frère Enrg.....	1055 De la Canardière, Québec
Vincent & Fils Enrg.....	515-24th Ave., Lachine
Ontario:	
Ambroise Monuments.....	48 Alma St., Guelph
Ambroise, J.D., Esq.....	263 Montreal Road, Eastview
Art Craft Monumental Works.....	215 Dell St., Sudbury
Bishop Asphalt Papers Limited.....	Lakeshore Road, Mimico
Brown, Geo., & Sons.....	475 Bronson Ave., Ottawa
Brown, R., & Son.....	376 Sparks St., Ottawa
Campbell, A.C., Esq.....	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
Creber, Son & Company.....	1343 St. Clair Ave. W., Toronto
Central Granite & Marble Works.....	1283 Dundas St. W., Toronto



Directory of Firms in the Stone Products Industry, 1954 - Concluded

Name of company	Location of plant
Ontario - concluded:	
Chatham Marble & Granite Works	39 E. Market Square, Chatham
Chesley Memorial Works	Chesley
Cornelius & Son, F.A.	428 Queenston Rd., St. Catharines
Davis Monument Co.	3205 Danforth Ave., Toronto
Dufferin Marble Co. Ltd.	146 Stayner Ave., Toronto
Dundas Monument Works	Dundas
Eglinton Monumental Works	1702 Eglinton Ave. W., Toronto
Fiberglass Canada, Limited	Sarnia
Geard Brothers Cut Stone	612 William St., London
Gladstone & Ross	N. - Archibald St., Fort William
Gypsum, Lime and Alabastine, Canada Limited	Caledonia
Hardwick, H.G., & Son	676 King St. W., Hamilton
Hargrave's Monument Works	Haileybury
Holmes Foundry Company Limited	200 Exmouth St., Sarnia
Johnston & Cranston	1849 Yonge St., Toronto
Kilvington Granite Company	2A Caledonia Rd., Toronto
Kingsway Monumental Works	3673 Dundas St., Toronto
Laing, George, Esq.	403-1st St. W., Cornwall
Laurin, J.P., Limited	213 York St., Ottawa
London Marble & Granite Co. Ltd.	493 Richmond St., London
Lo's Stone Works Ltd.	100 Everett St., Belleville
Luckett's Dressed Stone	Ulster and Leicester Ave., Islington
McIntyre Monument Co.	60 Danforth Ave., Toronto
McKay Cut Stone Co.	65 Shalmar Ave., Forest Hill
McMillan Monument Co. Ltd.	105 Ontario St., Sarnia
Memorial Company of Toronto, The	2299 Eloro St. W., Toronto
National Cut Stone Limited	355 Logan Ave., Toronto
Oakville Monument Works	90 Colborne St., Oakville
Ontario Marble Co. Ltd.	Maria St., Peterborough
Orillia Monument Co.	252 Coldwater Rd. W., Orillia
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 Ltd.	73 Ontario St., Port Hope
Sanderson Monumental Company	33 Peter St. S., Orillia
Scott, James N., Cut Stone Ltd.	3 Canvarco Rd., Leaside
Sinclair Cut Stone & Construction Co. Ltd.	Frid St., Hamilton
Sharp Bros. Cut Stone Company Limited	516 Kenilworth St. N., Hamilton
Skelton Memorials	Walkerton
Smith Monument Works	1543 Main St. E., Hamilton
Smith Monument Co.	349 Weston Road, Toronto
Spun Rock Wool Limited	65 Ormond St., Thorold
Stafford Bros. Monumental Works	318 Dundas St. E., Whitby
Standard Stone Company, Limited	1704 Howard Ave., Windsor
Sudbury Memorial Works	453 Amley St., Sudbury
Taube Monuments	429 Spadina Ave., Toronto
Thomson Monument Co. Ltd.	862 Dupont St., Toronto
United Marble Co.	Rear 46 Shaftesbury Ave., Toronto
Wardell Monument Works	2706 Dundas St. W., Toronto
Manitoba:	
Brunet Monuments	405 Bertrand St., St. Boniface
Delande, M.C.	927 Main St., Winnipeg
Guinn & Simpson Company Limited	52 Tupper St. N., Portage la Prairie
Lo's Stone Works Ltd.	234 St. Mary's Road, Norwood Grove, Winnipeg
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. c/o Regina Monument Co. Ltd.	S. Railway & Albert Sts., Regina
Molaro & Sons Corporation Limited	23rd St. and Pacific Ave., Saskatoon
Moose Jaw Marble & Granite Works Ltd.	706 Athabasca St. E., Moose Jaw
Yorkton Monumental Works	107 West Broadway, Yorkton
Young, Alex, Cut Stone Company	Scarth St. and 4th Ave., Regina
Alberta:	
Alberta Granite, Marble & Stone Co. Ltd.	10702-101st St., Edmonton
Gypsum, Lime & Alabastine Canada Ltd.	30th Ave. and 17th St. E., Calgary
Maclean Granite Co.	Red Deer
McDonald Granite Co. Ltd.	2339 Second St. E., Calgary
Select Memorial Works	Rockyford
Somerville Calgary Monumental Co.	121-13th Ave. W., Calgary
British Columbia:	
Chandler, W.R., Memorials & Western Granite Co.	5498 Fraser St., Vancouver
Continental Marble Company Limited	1002 Georgia St. E., Vancouver
Kingsway Monumental Works	3070 Kingsway St., Vancouver
Mortimer's Monumental Works Ltd.	633 David St., Victoria
Nelson Granite & Monumental Co.	Nelson
Stewart Monumental Works Ltd.	1401 May St., Victoria
Victoria Monument Ltd.	3091 Douglas St., Victoria
Westaway's Monumental Works	143 Columbia St. E., New Westminster
Western Insulation Co. Ltd.	576 West 1st Ave., Vancouver