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Government of Canada D.B.S.

THE STONE INDUSTRY

IN

CANADA

1947

Including: 1. The Stone Quarrying Industry;
2. The Stone Products Industry.

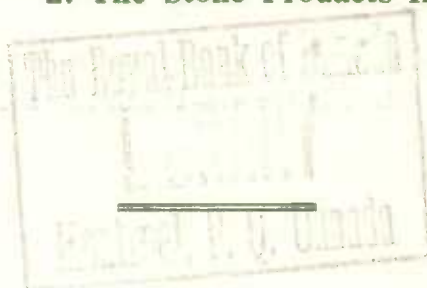
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THE STONE INDUSTRY IN CANADA - 1947

The Stone Industry in Canada comprises 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 who 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.

Production by these industries during the year totalled \$28,099,433 which figure includes the value of the quarry output and the value added by manufacturing in the secondary stone industry. Salaried employees and wage-earners employed in 1947 numbered 4,981, and their combined earnings amounted to \$8,806,793.

The two industries are treated separately in the following review.

1. 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 the 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 gross value of all varieties of new stone produced in Canada for use during 1947 amounted to \$16,464,749 compared with \$11,185,711 in 1946. The tonnage shipped in 1947 included 551,527 tons of granite (igneous rock) valued at \$3,175,364; 9,497,754 tons of limestone worth \$11,966,520; 45,574 tons of marble valued at \$326,605; 792,900 tons of sandstone valued at \$975,394 and 1,633 tons of slate worth \$20,866.

Of the total value of production, the quarries of Quebec contributed 47.7 per cent; Ontario accounted for 35.9 per cent; British Columbia 7.6 per cent and the remainder came from Nova Scotia, New Brunswick, Manitoba and Alberta.

Table 1 - PRINCIPAL STATISTICS OF THE STONE QUARRYING INDUSTRY IN CANADA, 1945-1947

	1945	1946	1947
Number of firms	361	411	409
Number of employees - On salary	242	176	216
On wages	1,912	2,544	2,950
TOTAL ...	2,154	2,720	3,166
Salaries and wages - Salaries \$	412,711	316,722	438,980
Wages \$	2,701,936	3,653,682	4,941,279
TOTAL ... \$	3,114,647	3,970,404	5,380,259
Selling value of products (Gross) .. \$	8,166,700	11,185,711	16,464,749
Cost of fuel and electricity \$	711,111	834,824	989,408
Process supplies used \$	740,604	856,774	1,266,522
Selling value of products (Net) \$	6,714,985	9,494,113	14,208,819

This report was prepared by A.R. Deir, Mining Statistician and J.J. Parchelo, Metal and Chemical Products

Table 2 - PRINCIPAL STATISTICS OF THE STONE QUARRYING INDUSTRY, BY PROVINCES, 1946 and 1947

Province	Number of quarries	Average number of em- ployees	Salaries and wages	Cost of fuel and electricity	Process supplies	Gross value of production
			\$	\$	\$	\$
<u>1 9 4 6</u>						
Nova Scotia	28	104	126,209	30,571	31,783	515,453
New Brunswick	8	104	132,302	30,781	9,409	386,984
Quebec	142	1,648	2,306,845	473,611	483,599	5,630,265
Ontario	213	685	1,126,996	271,872	316,368	3,923,972
Manitoba	9	86	119,015	14,564	2,652	242,470
Saskatchewan .....	...	...	...	...	...	...
Alberta	3	...	...	...	...	55,286
British Columbia ...	83	93	158,945	13,425	12,963	431,281
CANADA	486	2,720	3,970,404	834,824	856,774	11,185,711
<u>1 9 4 7</u>						
Nova Scotia	32	126	164,272	27,549	44,660	608,514
New Brunswick	7	95	141,167	28,721	10,256	442,635
Quebec	129	1,864	2,997,409	549,600	589,069	7,846,407
Ontario	226	834	1,655,907	332,131	550,813	5,906,909
Manitoba	9	97	161,198	26,283	21,596	360,876
Saskatchewan .....	...	...	...	...	...	...
Alberta	3	...	...	...	...	57,600
British Columbia ...	77	150	260,306	25,124	50,128	1,241,749
CANADA	483	3,166	5,380,259	989,408	1,266,522	16,464,749

Table 3 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES, BY KINDS AND BY PROVINCES, 1946 and 1947

Province		Granite (a)	Limestone (b)	Marble	Sandstone	Slate	Total
<u>1 9 4 6</u>							
Nova Scotia	tons	8,394	84,805	...	90,534	...	183,733
	\$	49,176	215,257	...	251,020	...	515,453
New Brunswick	tons	358	115,565	...	5,200	...	121,123
	\$	27,683	283,301	...	76,000	...	386,984
Quebec	tons	109,443	2,982,747	13,134	380,318	617	3,486,259
	\$	1,408,618	3,683,271	138,564	398,858	954	5,630,265
Ontario	tons	122,562	3,747,948	8,402	11,365	...	3,890,277
	\$	406,403	3,415,261	58,333	43,975	...	3,923,972
Manitoba	tons	256	64,876	...	...	...	65,132
	\$	3,766	238,704	...	...	...	242,470
Alberta	tons	...	13,417	...	...	...	13,417
	\$	...	55,286	...	...	...	55,286
British Columbia ...	tons	78,341	208,242	260	8,360	1,116	296,319
	\$	110,651	287,433	4,920	8,360	19,917	431,281
CANADA	tons	319,354	7,217,600	21,796	495,777	1,733	8,056,260
	\$	2,006,297	8,179,513	201,817	779,213	20,871	11,185,711

Table 3 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES, BY KINDS AND BY PROVINCES, 1946 and 1947
(Concluded)

Province		Granite (a)	Limestone (b)	Marble	Sandstone	Slate	Total
<u>1 9 4 7</u>							
Nova Scotia	tons	438	111,263	...	267,921	...	379,622
	\$	53,486	275,613	...	279,415	...	608,514
New Brunswick	tons	364	112,205	...	114,850	...	227,419
	\$	4,675	262,820	...	175,200	...	442,695
Quebec	tons	213,898	3,643,337	15,630	393,616	475	4,266,956
	\$	2,131,565	5,086,791	191,539	435,332	1,180	7,846,407
Ontario	tons	192,273	4,607,202	29,659	15,513	...	4,844,647
	\$	784,408	4,908,328	129,726	84,447	...	5,906,909
Manitoba	tons	286	119,477	...	...	...	119,763
	\$	5,365	355,511	...	...	...	360,876
Alberta	tons	...	13,883	...	...	...	13,883
	\$	...	57,600	...	...	...	57,600
British Columbia ...	tons	144,268	890,387	285	1,000	1,158	1,037,098
	\$	195,865	1,019,857	5,340	1,000	19,686	1,241,748
CANADA	tons	551,527	9,497,754	45,574	792,900	1,633	10,889,388
	\$	3,175,364	11,966,520	326,605	975,394	20,866	16,464,749

(a) All igneous rocks included.

(b) Includes dolomite, also marl for agricultural purposes.

Note: Not included in the above limestone statistics are 3,057,675 tons of limestone consumed in the cement industry in 1947, and 2,525,653 tons in 1946. Also, the limestone used in the lime industry is not included; it is estimated that approximately 1,730,741 tons of limestone were burned in the manufacture of lime in 1947 and 1,487,140 tons in 1946.

Table 4 - PRODUCTION (SALES) OF STONE(x) FROM CANADIAN QUARRIES, BY PROVINCES, SHOWING PURPOSES FOR WHICH USED, 1946 and 1947

For use as follows:		Nova Scotia	New Brunswick	Quebec	Ontario	Mani- toba	Alberta	British Columbia	CANADA
<u>1 9 4 6</u>									
Building stone -									
Rough	tons	581	303	21,382	12,852	171	...	1,433	36,722
	\$	6,465	455	98,637	90,359	1,369	...	6,956	204,241
Dressed	tons	30	1,236	23,118	7,108	2,714	...	...	34,206
	\$	2,101	73,430	875,399	88,730	167,397	...	...	1,207,057
Monumental and orna- mental stone -									
Rough	tons	105	59	11,448	53	...	...	2,501	14,166
	\$	1,857	1,180	206,003	800	...	...	28,150	237,990
Dressed	tons	289	163	7,431	...	150	...	34	8,067
	\$	31,319	23,073	823,135	...	7,720	...	5,809	891,056
Flagstone	tons	...	100	1,186	7,221	80	...	...	8,587
	\$	...	1,000	14,754	8,495	470	...	...	24,719
Curbstone	tons	...	...	881	...	...	...	...	881
	\$	...	...	8,850	...	...	...	...	8,850
Paving blocks	tons	...	...	621	200	...	...	...	821
	\$	...	...	5,894	1,000	...	...	...	6,894
Mining open-hearth furnaces	tons	24,459	...	...	...	...	...	...	24,459
	\$	46,472	...	...	...	...	...	...	46,472
Chemical -									
Flux in iron and steel furnaces	tons	...	6	1,716	297,044	4,833	...	10	303,609
	\$	...	9	1,737	257,645	7,715	...	120	267,226
Flux in non-ferrous smelters	tons	...	...	2,959	62,051	51	25	46,694	111,780
	\$	...	...	2,854	57,470	91	50	42,383	102,848

Table 4 - PRODUCTION (SALES) OF STONE(x) FROM CANADIAN QUARRIES, BY PROVINCES, SHOWING PURPOSES FOR WHICH USED, 1946 and 1947 (Continued)

For use as follows:		Nova Scotia	New Brunswick	Quebec	Ontario	Mani- toba	Alberta	British Columbia	CANADA
<u>1946</u>									
Chemical - (concluded)									
Glass factories	tons	...	...	80	...	...	3,887	...	3,967
	\$	...	...	420	...	...	15,550	...	15,970
Pulp and paper mills	tons	3,782	4,829	127,042	61,619	2,414	...	47,702	247,388
	\$	14,139	10,000	222,368	127,948	2,757	...	100,862	478,074
Sugar refineries ...	tons	...	12	1,500	7,626	...	...	...	9,138
	\$	...	60	2,025	6,483	...	...	...	8,568
Other chemical uses.	tons	...	...	...	171,407	...	...	23,859	195,266
	\$	...	...	...	179,300	...	...	12,079	191,379
Pulverized Stone -									
Whiting (substitute)	tons	...	...	6,760	4,095	...	...	266	11,121
	\$	...	...	67,600	22,099	...	...	3,392	93,091
Asphalt filler	tons	67	...	3,775	8,905	...	...	558	13,305
	\$	1,947	...	13,699	30,769	...	...	3,348	49,733
Dusting coal mines .	tons	...	...	...	...	...	4,700	350	5,050
	\$	...	...	...	...	...	18,800	2,363	21,163
Agricultural purposes and fertilizer plants	tons	55,481	107,135	262,505	48,125	2,098	980	4,315	480,639
	\$	149,810	266,301	506,215	104,226	3,698	3,920	10,481	1,044,651
Other uses	tons	980	...	21,985	21,536	2,574	...	80	47,155
	\$	2,450	...	84,638	68,332	2,248	...	720	158,388
Crushed stone for manufacture of artificial stone ...	tons	...	...	336	1,600	...	...	...	1,936
	\$	...	...	1,811	5,803	...	...	...	7,614
Roofing granules	tons	...	...	50	67,139	...	...	1,116	68,305
	\$	...	...	75	292,222	...	...	19,917	312,214
Poultry grit	tons	36	...	867	7,963	...	3,530	2,537	14,933
	\$	439	...	3,697	41,234	...	16,720	12,700	74,790
Stucco dash	tons	...	...	2,720	1,372	...	...	2,100	6,192
	\$	...	...	18,800	7,414	...	...	23,364	49,578
Terrazzo chips	tons	...	...	3,275	4,000	...	...	...	7,275
	\$	...	...	23,965	30,000	...	...	...	53,965
Rock wool	tons	...	...	...	1,576	...	...	...	1,576
	\$	...	...	...	2,207	...	...	...	2,207
Rubble and riprap ...	tons	517	4,057	149,498	91,003	1,120	...	80,070	326,265
	\$	1,335	5,030	139,341	61,445	3,600	...	75,391	286,142
Crushed Stone -									
Concrete aggregate .	tons	...	...	1,731,756	715,456	25,911	295	225	2,473,643
	\$	...	...	1,518,969	611,937	22,456	246	461	2,154,069
Road metal	tons	97,406	3,223	556,853	1,712,600	21,842	...	80,109	2,472,033
	\$	257,119	6,446	498,761	1,350,749	21,667	...	80,425	2,215,167
Railroad ballast ...	tons	...	...	546,515	577,726	1,174	...	2,360	1,127,775
	\$	...	...	490,648	477,305	1,282	...	2,360	971,595
TOTAL	tons	183,733	121,123	3,486,259	3,890,277	65,132	13,417	296,319	8,056,260
	\$	515,453	386,984	5,630,265	3,923,972	242,470	55,286	431,281	11,185,711
Per cent of total..Quantity		2.28	1.50	43.27	48.29	.81	.17	3.68	100.00
Value		4.61	3.46	50.33	35.08	2.17	.49	3.86	100.00

Table 4 - PRODUCTION (SALES) OF STONE(x) FROM CANADIAN QUARRIES, BY PROVINCES, SHOWING PURPOSES FOR WHICH USED, 1946 and 1947 (Continued)

For use as follows:		Nova Scotia	New Brunswick	Quebec	Ontario	Mani- toba	Alberta	British Columbia	CANADA
<u>1947</u>									
Building stone -									
Rough	tons	11,377	326	20,936	23,456	2,981	...	1,445	60,521
	\$	27,414	2,839	96,120	143,765	43,893	...	13,460	327,491
Dressed	tons	2,002	1,038	27,446	8,448	3,381	...	5	42,320
	\$	14,014	77,836	1,382,136	119,123	178,171	...	94	1,771,374
Monumental and orna- mental stone -									
Rough	tons	80	...	9,836	2,201	...	...	2,000	14,117
	\$	1,600	...	195,887	8,252	...	...	23,000	228,739
Dressed	tons	358	...	7,035	...	118	...	80	7,591
	\$	51,886	...	1,180,313	...	4,548	...	10,413	1,247,160
Flagstone	tons	...	150	1,209	4,858	854	...	...	7,071
	\$	...	1,000	17,105	16,884	1,734	...	...	36,723
Curbstone	tons	...	...	2	...	...	...	...	2
	\$	...	...	18	...	...	...	...	18
Paving blocks	tons	...	...	486	149	...	...	...	635
	\$	...	...	5,809	663	...	...	...	6,472
Lining open-hearth furnaces	tons	29,600	...	...	29,539	...	...	...	59,139
	\$	63,730	...	...	35,446	...	...	...	99,176
Chemical -									
Flux in iron and steel furnaces	tons	...	...	1,508	423,787	5,150	...	5	430,450
	\$	...	...	1,820	387,956	9,667	...	60	399,503
Flux in non-ferrous smelters	tons	...	...	...	81,080	568	25	68,344	150,017
	\$	...	...	...	80,040	1,074	50	64,620	145,784
Glass factories	tons	...	...	810	4,802	...	5,155	...	10,767
	\$	...	...	3,218	14,037	...	20,620	...	37,875
Pulp and paper mills	tons	2,088	5,320	156,998	78,404	8,128	...	60,086	311,024
	\$	15,648	11,966	311,921	201,865	21,319	...	134,161	696,880
Sugar refineries ...	tons	...	...	2,000	13,745	...	...	1	15,746
	\$	...	...	2,700	12,792	...	...	14	15,506
Other chemical uses.	tons	...	...	...	278,597	...	...	8,000	286,597
	\$	...	...	...	442,124	...	...	8,500	450,624
Pulverized Stone -									
Whiting (substitute)	tons	...	...	9,162	7,341	...	...	257	16,760
	\$	...	...	109,944	41,704	...	...	3,581	155,229
Asphalt filler	tons	285	539	6,877	10,786	4,244	...	1,273	24,004
	\$	3,230	2,695	25,318	39,897	4,798	...	8,275	84,213
Dusting coal mines .	tons	...	...	...	...	...	4,555	202	4,757
	\$	...	...	...	...	...	18,220	1,414	19,634
Agricultural purposes and fertilizer plants	tons	64,163	99,824	213,956	61,487	2,408	825	7,890	450,553
	\$	170,626	235,115	488,509	127,009	3,195	3,300	28,545	1,056,299
Other uses	tons	...	...	27,754	17,627	1,678	...	53	47,112
	\$	...	...	110,897	61,461	2,053	...	477	174,888
Crushed stone for manufacture of artificial stone ...	tons	...	...	3,009	1,099	...	...	...	4,108
	\$	...	...	5,402	4,997	...	...	...	10,399
Roofing granules	tons	...	...	1,000	62,843	...	...	1,158	65,001
	\$	...	...	1,350	341,741	...	...	19,686	362,777
Poultry grit	tons	7	...	1,124	9,933	...	3,155	2,900	17,119
	\$	153	...	7,329	64,278	...	15,270	18,245	105,275
Stucco dash	tons	...	...	2,250	438	...	...	2,585	5,273
	\$	...	...	15,400	5,480	...	...	31,843	52,723

Table 4 - PRODUCTION (SALES) OF STONE(x) FROM CANADIAN QUARRIES, BY PROVINCES, SHOWING PURPOSES FOR WHICH USED, 1946 and 1947 (Concluded)

For use as follows:		Nova Scotia	New Brunswick	Quebec	Ontario	Mani- toba	Alberta	British Columbia	CANADA
<u>1947</u>									
Terrazzo chips	tons	...	...	3,580	6,041	...	...	...	9,621
	\$	...	...	35,569	70,339	...	...	...	105,908
Rock wool	tons	...	...	...	1,366	...	...	...	1,366
	\$	...	...	...	1,992	...	...	...	1,992
Rubble and riprap ...	tons	71,885	10,000	290,879	78,390	563	...	141,689	593,406
	\$	11,212	8,000	318,250	264,708	1,320	...	149,118	752,608
Crushed Stone -									
Concrete aggregate .	tons	...	...	2,058,365	1,082,292	20,883	168	16,355	3,178,063
	\$	...	...	2,186,893	1,101,013	31,325	140	17,500	3,336,871
Road metal	tons	197,777	110,222	838,934	2,239,490	68,443	...	722,770	4,177,636
	\$	249,001	103,244	802,731	2,086,679	57,333	...	708,742	4,007,730
Railroad ballast ...	tons	...	...	581,800	316,448	364	...	...	898,612
	\$	...	...	541,768	232,664	446	...	...	774,878
TOTAL	tons	379,622	227,419	4,266,956	4,844,647	119,763	13,883	1,037,098	10,889,388
	\$	608,514	442,695	7,846,407	5,906,909	360,876	57,600	1,241,748	16,464,749
Per cent of total..Quantity		3.49	2.09	39.18	44.49	1.10	.13	9.52	100.00
Value		3.69	2.69	47.65	35.88	2.19	.35	7.55	100.00

(x) Includes the production of slate and marl.

Table 5 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES, BY KINDS, SHOWING PURPOSES FOR WHICH USED, 1946 and 1947

For use as follows:		Granite (a)	Limestone (b)	Marble	Sandstone	Slate	TOTAL
<u>1946</u>							
Building stone - Rough	tons	4,653	25,685	269	6,115	...	36,722
	\$	34,650	101,074	13,355	55,162	...	204,241
Dressed	tons	4,856	27,911	109	1,330	...	34,206
	\$	232,835	883,937	17,184	73,101	...	1,207,057
Monumental and ornamental stone-							
Rough	tons	14,166	...	...	...	...	14,166
	\$	237,990	...	...	...	...	237,990
Dressed	tons	7,917	150	...	...	...	8,067
	\$	883,336	7,720	...	...	...	891,056
Flagstone	tons	...	4,226	...	4,361	...	8,587
	\$	...	18,184	...	6,535	...	24,719
Curbstone	tons	881	...	...	...	...	881
	\$	8,850	...	...	...	...	8,850
Paving blocks	tons	621	...	...	200	...	821
	\$	5,894	...	...	1,000	...	6,894
Lining open-hearth furnaces	tons	...	24,459	...	...	...	24,459
	\$	...	46,472	...	...	...	46,472
Chemical -							
Flux in iron and steel furnaces	tons	...	303,599	10	...	...	303,609
	\$	...	267,106	120	...	...	267,226
Flux in non-ferrous smelters ..	tons	...	111,780	...	...	...	111,780
	\$	...	102,848	...	...	...	102,848
Glass factories	tons	...	3,887	80	...	...	3,967
	\$	...	15,550	420	...	...	15,970
Pulp and paper mills	tons	...	247,388	...	...	...	247,388
	\$	...	478,074	...	...	...	478,074
Sugar refineries	tons	...	9,138	9,138
	\$...	8,568	8,568
Other chemical uses	tons	...	195,266	195,266
	\$...	191,379	191,379

Stone

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Table 5 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES, BY KINDS, SHOWING PURPOSES FOR WHICH USED, 1946 and 1947 (Continued)

For use as follows:		Granite (a)	Limestone (b)	Marble	Sandstone	Slate	TOTAL
<u>1 9 4 6</u>							
Pulverized Stone -							
Whiting (substitute)	tons	...	4,311	6,810	...	...	11,121
	\$	...	24,691	68,400	...	...	93,091
Asphalt filler	tons	...	13,305	...	...	...	13,305
	\$	...	49,733	...	...	...	49,733
Dusting coal mines	tons	...	5,050	...	...	...	5,050
	\$	...	21,163	...	...	...	21,163
Agricultural purposes and fertilizer plants	tons	...	480,639	...	...	...	480,639
	\$	...	1,044,651	...	...	...	1,044,651
Other uses	tons	...	47,155	...	...	...	47,155
	\$	...	158,388	...	...	...	158,388
Crushed stone for manufacture of artificial stone	tons	...	700	1,236	...	...	1,936
	\$	...	2,203	5,411	...	...	7,614
Roofing granules	tons	66,779	50	360	...	1,116	68,305
	\$	290,422	75	1,800	...	19,917	312,214
Poultry grit	tons	2	11,234	3,697	...	...	14,933
	\$	25	53,493	21,272	...	...	74,790
Stucco dash	tons	545	2,727	2,920	...	...	6,192
	\$	5,497	21,281	22,800	...	...	49,578
Terrazzo chips	tons	...	970	6,305	...	...	7,275
	\$	...	2,910	51,055	...	...	53,965
Rock wool	tons	...	1,576	...	...	...	1,576
	\$	...	2,207	...	...	...	2,207
Rubble and riprap	tons	109,779	183,580	...	32,289	617	326,265
	\$	111,599	138,784	...	34,805	954	286,142
Crushed Stone -							
Concrete aggregate	tons	26,003	2,428,125	...	19,515	...	2,473,643
	\$	50,235	2,062,970	...	40,864	...	2,154,069
Road metal	tons	83,152	2,285,474	...	103,407	...	2,472,033
	\$	144,964	1,800,701	...	269,502	...	2,215,167
Railroad ballast	tons	...	799,215	...	328,560	...	1,127,775
	\$	...	674,351	...	297,244	...	971,595
TOTAL (b)	tons	319,354	7,217,600	21,796	495,777	1,733	8,056,260
	\$	2,006,297	8,178,513	201,817	778,213	20,871	11,185,711
<u>1 9 4 7</u>							
Building stone - Rough	tons	5,200	34,697	311	20,313	...	60,521
	\$	43,498	185,966	14,730	83,297	...	327,491
Dressed	tons	7,853	30,852	113	3,502	...	42,320
	\$	456,000	1,195,635	20,725	99,014	...	1,771,374
Monumental and ornamental stone-							
Rough	tons	13,912	...	...	205	...	14,117
	\$	227,447	...	...	1,292	...	228,739
Dressed	tons	7,473	118	...	...	...	7,591
	\$	1,242,612	4,548	...	...	...	1,247,160
Flagstone	tons	372	2,360	...	4,339	...	7,071
	\$	372	18,981	...	17,370	...	36,723
Curbstone	tons	2	...	...	...	...	2
	\$	18	...	...	...	...	18
Paving blocks	tons	526	...	...	109	...	635
	\$	6,009	...	...	463	...	6,472
Lining open-hearth furnaces	tons	...	59,139	...	...	...	59,139
	\$	...	99,176	...	...	...	99,176

Table 5 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES, BY KINDS, SHOWING PURPOSES FOR WHICH USED, 1946 and 1947 (Concluded)

For use as follows:		Granite (a)	Limestone (b)	Marble	Sandstone	Slate	TOTAL
<u>1 9 4 7</u>							
Chemical -							
Flux in iron and steel furnaces	tons	...	427,908	5	2,537	...	430,450
	\$	...	382,192	60	17,251	...	399,503
Flux in non-ferrous smelters ..	tons	...	150,017	...	...	...	150,017
	\$	...	145,784	...	...	...	145,784
Glass factories	tons	...	10,767	...	...	...	10,767
	\$	...	37,875	...	...	...	37,875
Pulp and paper mills	tons	...	292,576	18,448	...	...	311,024
	\$	...	668,009	28,871	...	...	696,880
Sugar refineries	tons	...	15,746	...	...	...	15,746
	\$	...	15,506	...	...	...	15,506
Other chemical uses	tons	...	286,597	...	...	...	286,597
	\$	...	450,624	...	...	...	450,624
Pulverized Stone -							
Whiting (substitute)	tons	...	7,518	9,242	...	...	16,760
	\$	...	44,005	111,224	...	...	155,229
Asphalt filler	tons	...	24,004	...	...	...	24,004
	\$	...	84,213	...	...	...	84,213
Dusting coal mines	tons	...	4,757	...	...	...	4,757
	\$	...	19,634	...	...	...	19,634
Agricultural purposes and fertilizer plants	tons	...	450,553	...	...	...	450,553
	\$	...	1,056,299	...	...	...	1,056,299
Other uses	tons	1	47,098	13	...	...	47,112
	\$	3	174,810	75	...	...	174,888
Crushed stone for manufacture of artificial stone	tons	...	3,300	808	...	...	4,108
	\$	...	5,950	4,449	...	...	10,399
Roofing granules	tons	62,443	1,400	...	...	1,158	65,001
	\$	339,341	3,750	...	...	19,686	362,777
Poultry grit	tons	850	10,904	5,365	...	...	17,119
	\$	6,605	75,341	23,329	...	...	105,275
Stucco dash	tons	367	2,376	2,530	...	...	5,273
	\$	5,175	27,668	19,880	...	...	52,723
Terrazzo chips	tons	...	882	8,739	...	...	9,621
	\$	...	2,646	103,262	...	...	105,908
Rock wool	tons	...	1,366	...	...	...	1,366
	\$	...	1,992	...	...	...	1,992
Rubble and riprap	tons	236,129	245,114	...	111,688	475	593,406
	\$	472,687	227,300	...	51,441	1,180	752,608
Crushed Stone -							
Concrete aggregate	tons	126,576	3,034,278	...	17,209	...	3,178,063
	\$	181,255	3,112,143	...	43,473	...	3,336,871
Road metal	tons	89,823	3,782,373	...	305,440	...	4,177,636
	\$	194,342	3,458,189	...	355,199	...	4,007,730
Railroad ballast	tons	...	571,054	...	327,558	...	898,612
	\$	...	468,284	...	306,594	...	774,878
TOTAL (b)	tons	551,527	9,497,754	45,574	792,900	1,633	10,889,388
	\$	3,175,364	11,966,520	326,605	975,394	20,866	16,464,749

(a) Includes all igneous rock.

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

Stone

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Table 6 - PRODUCTION OF STONE FOR BUILDING PURPOSES, CHEMICAL USE, CEMENT MANUFACTURE, CONCRETE AGGREGATE, ROAD METAL AND RAILROAD BALLAST, 1938-1947

Year		Building stone	For chemical purposes(a)	For concrete aggregate	For road metal	For railroad ballast	For cement manufacture (b)
1938	tons	49,666	551,737	981,739	2,721,922	86,019	1,358,689
	\$	725,402	468,000	791,971	2,347,010	58,816	...
1939	tons	71,288	577,278	1,344,636	2,131,306	600,266	1,407,099
	\$	1,344,340	523,579	1,109,028	1,773,337	522,882	...
1940	tons	97,336	725,685	2,673,078	2,300,613	896,408	1,784,291
	\$	722,514	681,796	2,171,487	1,885,744	741,772	...
1941	tons	54,262	965,690	2,581,583	2,958,613	446,505	2,113,618
	\$	653,077	889,574	1,986,226	2,484,393	322,348	...
1942	tons	24,897	1,236,044	2,924,737	2,275,706	683,317	2,186,248
	\$	361,781	1,651,982	2,424,357	1,877,473	527,814	...
1943	tons	17,087	1,329,226	1,981,222	2,108,428	852,928	1,994,202
	\$	314,428	1,330,127	1,727,889	1,989,509	704,389	...
1944	tons	23,142	1,109,362	1,852,335	1,498,258	869,042	1,939,900
	\$	396,202	1,170,372	1,600,692	1,352,796	688,471	...
1945	tons	56,711	1,051,514	1,908,460	1,552,839	820,987	1,919,858
	\$	751,401	1,215,169	1,596,256	1,468,045	678,205	...
1946	tons	70,928	871,148	2,473,643	2,472,033	1,127,775	2,625,008
	\$	1,411,298	1,064,065	2,154,069	2,215,167	971,595	...
1947	tons	102,841	1,204,601	3,178,063	4,177,636	898,612	3,100,829
	\$	2,098,865	1,746,172	3,336,871	4,007,730	774,878	...

(a) Does not include limestone used in Canadian lime industry which totalled 1,730,741 tons in 1947.

(b) Includes shale. In 1947 this production totalled 43,154 tons.

Table 7 - IMPORTS INTO CANADA AND EXPORTS OF STONE, BY KINDS, 1946 and 1947

		1 9 4 6		1 9 4 7	
		Quantity	Value	Quantity	Value
			\$		\$
<u>I m p o r t s</u>					
Building stone, n.o.p.	cwt.	293,352	144,722	383,012	193,744
Curling stones and handles therefor	pair	1,084	28,740	1,113	35,834
Granite, rough, not hammered or chiselled ....	...	...	158,556	...	179,813
Granite, sawn only ....	...	...	44,169	...	32,306
Granite, manufactures of, n.o.p. ....	...	...	16,811	...	22,537
Marble, rough, not hammered or chiselled ....	...	...	43,343	...	104,585
Marble, sawn or sand rubbed, not polished ....	...	...	91,077	...	109,977
Marble, not further manufactured than sawn for tombstones ....	...	...	53,068	...	56,712
Marble, manufactures of, n.o.p. ....	...	...	6,560	...	27,043
Refuse stone	ton	614,573	567,865	935,988	780,011
Slate roofing	square	436	8,461	603	15,844
Slate mantels and manufactures of slate, n.o.p. ....	...	...	39,754	...	47,904
Chalk, china, cornwall or cliff stone and mica schist ....	...	...	58,645	...	24,637
Mineral wool	ton	5,866	464,880	4,331	417,450
Whiting, gilders' whiting and Paris white	ton	18,038	359,693	18,463	379,401
Manufactures of stone, n.o.p. ....	...	...	41,518	...	90,162
Chalk, prepared ....	...	...	5,445	...	5,641
Pumice and pumice stone and lava tufa ....	...	...	71,607	...	62,063
Grindstones, not mounted and not less than 36 inches in diameter	No.	675	65,814	667	65,160
Grindstones, n.o.p.	No.	2,304	6,500	905	5,120
Burrstones, rough, in blocks	No.	6	112	49	1,612
Ganister	ton	5,184	3,367	7,991	3,211
TOTAL ....	...	...	2,280,707	...	2,660,767
<u>E x p o r t s</u>					
Crushed stone	ton	777	2,083	779	1,592
Granite and marble, unwrought	ton	5,277	82,008	4,500	65,447
Dressed stone of all kinds ....	...	...	6,311	...	14,997
Grindstones, manufactured ....	...	...	35,204	...	24,884
TOTAL ....	...	...	125,606	...	106,920

Month	1 9 4 6				1 9 4 7			
	Quarry		Dressing Works		Quarry		Dressing Works	
	Male	Female	Male	Female	Male	Female	Male	Female
January	1,155	1	455	1	1,416	2	602	...
February	1,159	2	479	1	1,413	2	621	...
March	1,287	2	527	1	1,617	3	665	...
April	1,767	2	570	2	1,896	3	660	...
May	2,242	3	653	2	2,564	3	731	...
June	2,397	3	648	2	2,742	4	747	...
July	2,454	3	640	2	2,817	4	767	...
August	2,455	4	649	2	2,717	3	753	...
September	2,378	4	666	2	2,620	3	764	...
October	2,303	4	631	2	2,607	2	734	...
November	2,053	4	626	2	2,338	2	724	...
December	1,580	4	583	2	1,903	2	676	...
AVERAGE	1,938	3	601	2	2,240	4	706	...

Table 9 - FUEL AND ELECTRICITY USED, 1947

Kind	Unit of measure	Nova Scotia		New Brunswick		Quebec		Ontario	
		Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works	Quantity	Cost at works
			\$		\$		\$		\$
Bituminous coal -									
Canadian	short ton	98	1,129	335	4,025	3,486	44,487	507	4,794
Imported	short ton	...	...	...	...	2,932	33,433	6,984	63,967
Anthracite coal ..	short ton	...	...	...	...	308	3,555	3	65
Lignite coal .....	...	...	...	...	...	...	...	...	...
Coke	short ton	11	127	...	...	14	224	35	442
Gasoline	Imp. gal.	34,632	8,893	17,165	4,545	500,229	161,823	323,164	87,633
Kerosene	Imp. gal.	186	37	...	...	2,497	568	2,828	465
Fuel oil	Imp. gal.	19,300	2,404	16,969	2,207	295,629	56,515	179,387	27,642
Wood	cord	...	...	62	460	677	5,107	11	85
Gas: Natural .....	...	...	...	...	...	...	...	...	...
Other fuel .....	...	...	...	...	...	...	...	...	...
Electricity purchased	K.W.H.	697,067	14,959	751,025	17,484	14,299,089	243,888	15,003,781	147,038
TOTAL ..	...	...	27,549	...	28,721	...	549,600	...	332,131
Electricity generated for own use.	K.W.H.	...	...	...	...	184,411	...	685,400	...

[illegible]

Table 10 - POWER EQUIPMENT, 1947

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total h.p. (according to manufacturers' rating)	Number of units	Total h.p. (according to manufacturers' rating)
Steam engines	31	1,656	7	420
Steam turbines .....	...	...	...	...
Diesel engines	87	7,868	4	315
Gasoline, gas and oil engines other than diesel	192	7,358	16	737
Hydraulic turbines or water wheels	8	680	7	250
Electric motors run by purchased power	1,105	27,385	144	4,949
Electric motors run by own power	38	1,131	...	...
Stationary boilers	43	1,850	7	271
Motor-generator sets	5	126	...	...

GRANITE

The following extracts are from the annual review by the Bureau of Mines:

Granite of all colours for monumental use is produced in the Maritime Provinces, and in Quebec, Ontario, Manitoba, and British Columbia. 'Black Granite' is produced mainly in the vicinity of Lake St. John, Quebec, and from quarries along the north shore of Lake Superior. Other deposits of 'black granite' in the Maritime Provinces, Quebec, Ontario, and Manitoba show promise of yielding stone of good quality.

In British Columbia granite was produced from several well established properties, mainly in the Pacific Coast, Vernon, and Nelson areas, a large part of the output being andesite from Haddington Island for the building trade. Granites in the province are widely distributed and varied in character. Especially on the Pacific Coast, the industry is well developed and stone from some of the localities is marketed in all the western provinces. The grades being marketed are adequate and excellent in their class, but colour variation is somewhat lacking. Grey granite of varying shades are the predominant type being quarried, but stone of other colour is being worked on a small scale.

In Manitoba, small operations were under way near the Manitoba-Ontario boundary from which several varieties of red, grey, and black granite for the Winnipeg market were produced.

In Ontario, the Ontario Rock Company quarried trap rock at Havelock, Peterborough county, which is used mainly for road foundations, railroad ballast, and concrete aggregate. The granite industry in the province has been quiet for several years and most operations have been confined to the cutting of small bases and dies and to occasional local building contracts. None of the operations can handle large blocks without extra equipment. The formations in many districts contain rock of a quality that will stand the cost of long rail haul, and there appears to be good opportunity for development of local deposits for domestic use and for export.

In Quebec, grey granite comprises over half of the total output and is quarried mainly in the Stanstead, St. Samuel, and St. Gerard districts. At St. Gedeon and St. Joseph d'Alma in the Lake St. John district, three companies produce black granite and one company produces red granite, all of which finds a ready market for monumental use and for building trim. The National Granite Company, one of the large companies producing granite in this area had its cutting shed destroyed by fire late in 1947. Brodies Limited, Montreal, has new cutting shed at Iberville in full operation. The company obtains its grey granite from Graniteville, Stanstead county, its red granite from Guenette, Labelle county, and its dark grey granite from Mount Johnson near Iberville. Stanstead Granite Quarries Company of Beebe obtained its grey granite stock from quarries at Graniteville. Its rough monumental stock was purchased from various other localities. Silver Granite Company is the chief producer of grey granite in the St. Samuel district. Scotstown Granite Company with a cutting shed at Cap St. Martin near Montreal was very active in the production of Canadian granites. The types of granite quarried and finished by this company included red from Grenville and grey from Scotstown and Rivière à Pierre.

Prospecting for some of the coloured granites in demand for monumental use was active in the Laurentian uplands of the Canadian Shield, north of the St. Lawrence. There are good opportunities in these areas for the opening of quarries that can produce high class monumental stock of such colours as jet black, deep red, green, and very light grey. If found in large and massive quarriable deposits there would be a good demand throughout Canada for such granite, and possibly also an export market. The suitability for commercial use of the numerous masses of granite in the aforementioned region has been determined only in a few localities.

In New Brunswick, a grey granite quarry at Hampstead was in production in 1947 and two firms at St. George produced some red granite for the monumental trade. Granite was quarried at Bathurst for building purposes. New Brunswick is well supplied with deposits of granite suitable for all uses. The industry is comparatively small at present, however, but from the economic viewpoint, the rough stock could be feasibly marketed throughout Canada and in the eastern United States.

In Nova Scotia, there was considerable activity in granite quarrying, and monumental stone was produced from the grey granite quarries in the Nictaux West area, and black granite from the Shelburne area. In both areas new equipment was added to existing plants and prospecting for new quarries was under way.

The granites in Nova Scotia, for the most part, are grey in colour and medium to coarse in texture. There is a small but steady market for the monumental trade within the province for the grey granite and for limited amounts of black granite.

Table 11 - PRODUCTION OF GRANITE (x) IN CANADA, 1938-1947

Year	Short tons	\$	Year	Short tons	\$
1938	705,307	1,379,417	1943	780,422	1,522,072
1939	1,102,395	2,119,501	1944	269,964	1,303,790
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

(x) Includes all igneous rock.

L I M E S T O N E

The following extracts are from the annual review by the Bureau of Mines:

With the large volume of building construction and with restrictions removed on the construction of the ornamental type of building, the quarrying of structural limestone was more active in 1946 than for many years. The large producers reported a busy season and a great many small operators reopened quarries that had long been idle in order to supply local demands for cut stone and building rubble. Difficulties were experienced, however, in obtaining experienced stone cutters to work in the quarries and stone dressing plants, because in the 15 years or so that have elapsed since the cut-stone industry was similarly active very few men have learned the trade.

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.

In Quebec, the quarries yielding heavily bedded building stone are at St. Marc des Carrières in Portneuf county, and in the vicinity of Montreal. At both localities a grey limestone is obtained.

In Ontario, heavily bedded silver-grey limestone is quarried from extensive deposits near Queenston in the Niagara Peninsula, and smaller quantities of buff, and of variegated buff and grey limestone are also obtained. At Longford Mills, near Orillia, buff, silver-grey, and brown limestone, suitable for use as building stone and as marble, is available.

In Manitoba, quarries are near Tyndall. They yield mottled buff, mottled grey, and mottled variegated limestone suitable for exteriors of buildings and for use as interior decorative stone. There has been very little production in recent years.

In addition to the large quarries, the products of which normally have a wide shipping range, small quarries producing rough building stone for local use are worked intermittently near Quebec City, Montreal and Hull, in Quebec; and at Ottawa, Kingston and Wiarton in Ontario. Rubble is the chief product.

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 used 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 the high calcium variety, but dolomite is rapidly increasing in importance as an industrial raw material.

Argillaceous dolomite is used for the manufacture of rock wool, a widely used insulating material. Five new plants, two in British Columbia, and one each in Nova Scotia, Quebec, and Ontario, were being built in 1945 and one in Ontario, previously destroyed by fire, is being rebuilt.

Pure dolomite has become an important source of magnesia, and during the latter years of World War II was an important source of magnesium metal. Magnesia and basic magnesium carbonate are made from calcined dolomite by the Pattinson process.

Dead-burned dolomite is widely used as a refractory material in basic open hearth furnaces in the steel industry. The first Canadian plant to produce dead-burned dolomite was built at Dundas, Ontario, in 1945.

Magnesitic dolomite is processed at Kilmar, Quebec, for the production of refractory products. Brucitic limestone is processed at Wakefield, Quebec, for the production of magnesia and hydrated lime.

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 12 - PRODUCTION OF LIMESTONE (x) IN CANADA, 1938-1947

Year	Short tons	\$	Year	Short tons	\$
1938	4,288,507	3,864,619	1943	6,265,181	6,105,749
1939	4,149,589	3,817,551	1944	5,565,286	5,528,459
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

(x) 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, and 27,368 tons in 1947.

MARBLE

The following extracts are from the annual review by the Bureau of Mines:

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 1947 there was a greater production of squared blocks for sawing into slabs for interior decorative use than for many years.

Exports of marble are recorded with those of granite, and the exports of both in 1947 amounted to 4,500 tons valued at \$65,447, compared with 5,277 tons valued at \$82,008 in 1946.

Imports of marble in 1947 had a value of \$319,232, compared with \$194,048 in 1946. Imports are largely in the form of unpolished slabs and sawn stock, the finishing being done in marble mills throughout Canada. In addition, mosaic flooring materials consisting in large part of marble were imported to the value of \$168,649 in 1947, compared with imports of similar materials valued at \$110,140 in 1946.

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 Carrieres, Portneuf county. Orford Marble Company, Limited produces red, green, and grey serpentinous 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 Stocklosar, 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 (White Star mine) produces white terrazzo and poultry grit at Marmora.

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. Winnitoba Marble Company quarries small quantities of buff and purple marble at Fisher Branch for use as terrazzo.

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, and by Beale Limestone Quarries on Texada Island.

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

Table 13 - PRODUCTION OF MARBLE IN CANADA, 1938-1947

Year	Short tons	\$	Year	Short tons	\$
1938	19,375	87,274	1943	11,848	68,022
1939	14,124	200,054	1944	11,829	85,374
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

S A N D S T O N E

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 1947 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 1947 was employed as rubble and riprap and in the crushed state for concrete, highway construction and railroad ballasting. Sandstone in British Columbia, 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 14 - PRODUCTION OF SANDSTONE IN CANADA, 1938-1947

Year	Short tons	\$	Year	Short tons	\$
1938	101,854	218,405	1943	164,163	250,603
1939	176,265	331,830	1944	146,766	223,453
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

S L A T E

Canadian slate production in 1947 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 15 - PRODUCTION OF SLATE IN CANADA, 1938-1947

Year	Short tons	\$	Year	Short tons	\$
1938	979	6,311	1943	1,336	17,733
1939	1,149	6,760	1944	1,147	18,101
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

R O O F I N G G R A N U L E S

The following extracts are from the annual review by the Bureau of Mines:

Owing to the continued increase in building construction, the roofing granule industry in Canada has expanded considerably in recent years, and in 1947, Canadian consumption of granules used for roofing showed a 14 per cent increase over that of 1946. About 66 per cent of the tonnage of granules used in Canada in 1947 was imported, however, though some of the leading manufacturers of granule roofings, as well as individuals, continued to search for rocks suitable for making the best type of granules. Apart from slates, there appears to be few such rocks in areas where they can be economically mined, crushed, and shipped to producing plants. Production in 1947 came from three deposits in Ontario, one in Quebec, and four in British Columbia, the tonnage output from Ontario being over 90 per cent of the total. A further increase is expected in 1948. As in the previous five years, granule-coated roofings and sidings were manufactured by 10 companies which have a total of 14 plants located at Saint John in New Brunswick; Asbestos, Montreal, and Lennoxville in Quebec; Toronto, Hamilton, Brantford, and London, in Ontario; Winnipeg in Manitoba; and Vancouver and Victoria in British Columbia.

In Quebec, granules were made by Suzorite Company Limited from a deposit near McCarthy in Suzor township, 160 miles east of Senneterre. The suzorite rock, which contains pyroxenite, feldspar, apatite, and mica is treated at the company's plant at Shawinigan Falls where the mica is removed and the remaining material, crushed to granule size, is shipped to Canadian consumers. Large deposits of dark grey and small deposits of red and green slates occur near Granby and Richmond in the Eastern Townships of Quebec.

In Ontario, three deposits in the vicinity of Madoc, Hastings county, are quarried for granules. They are: a grey rhyolite deposit 5 miles northeast of Madoc; a black amphibole rhyolite, 4 miles northwest of Madoc, and a greenish grey basalt, 20 miles west of Madoc, near Havelock. Building Products Limited, the leading Canadian manufacturer of roofing granules, crushes and screens the rock from the first two quarries at a mill near Madoc, and from the other quarry, at a plant in Havelock. At the latter plant the granules from the three quarries are artificially coloured. It is the only granule colouring in Canada.

In British Columbia, G. W. Richmond quarried a dark grey slate at McNab Creek, Howe Sound, and a greenish siliceous rock at Bridal Falls, near Chilliwack. At Kapoor on southern Vancouver Island, O. M. Brown mined a grey black slate, and from an adjacent deposit, hard greenish rock. These two operators have crushing and screening plants in Vancouver and Victoria, respectively, where natural granules are produced and sold to roofing companies in the two cities.

Prices vary considerably depending upon the type of granule and upon whether the colour is natural or artificial. Imported granules average \$17.45 a ton, f.o.b. eastern Canadian plants for natural rocks and slates; \$22.80 for artificially coloured reds; \$24.04 for greens and browns; and \$34.20 for blues.

WHITING SUBSTITUTE

The following extracts are from the annual review by the Bureau of Mines:

Whiting substitute, also referred to as domestic whiting, and as marble flour, is finely pulverized white limestone, white marble, calcite, or marl. Whiting substitute may also be made from lime or from the waste calcium carbonate sludge resulting from the manufacture of caustic soda. For several years marl was processed for whiting substitute at two plants in Ontario, but no production of marl for this purpose was reported in 1947.

White marble, calcite, and white limestone, when used for whiting substitute, are pulverized to degrees of fineness ranging from 200 to 400 mesh. Only materials containing very little magnesium carbonate are used at present for making whiting substitute, though in the past a product from dolomite was used successfully in making putty.

By-product precipitated chalk, made from waste sludge resulting from the manufacture of caustic soda from soda ash and lime, is classed as a whiting substitute, but its usefulness is restricted as it almost invariably contains a small amount of free alkali. It is not made in Canada.

Many manufacturers now use the domestic products with entire satisfaction in place of imported whiting, though there are some uses for which chalk whiting is necessary and other materials cannot be substituted. Now that European whiting is again readily available more competition from this source can be expected. However prospects for the domestic industry are good because of the steadily increasing demand for mineral fillers and because of the, in general, superior whiteness of whiting substitute made from calcite. This property is particularly important for some of the newer applications of this product.

Little or no whiting substitute is exported. Imports of whiting, crude chalk, and prepared chalk were valued at \$409,679 in 1947, compared with \$423,783 in 1946.

Whiting substitute made in Canada is used mostly in the manufacture of oilcloth, linoleum, in certain kinds of rubber products, in putty, in explosives, and as a filler in newsprint, book, and magazine paper. In lesser quantities it is used in the manufacture of moulded articles, cleaning compounds and polishes, as a ceramic glaze, and for a number of other purposes. The output of the aforementioned plant in Ontario is used entirely as a filler in newsprint.

Marl to be of value for making whiting substitute should be white or nearly so, nearly free from grit and clayey material, and have a very low content of organic matter. It is this last substance, present to some extent in all marls, that renders most of them unsuitable for use as a filler in products such as putty and paint where it will come into contact with oils. The oil absorptive capacity of whiting substitute made from marl is usually greater than that of chalk whiting, but otherwise the physical properties are much the same.

Prices per ton, bagged, and in carload lots range from \$10 to \$15 f.o.b. plants.

DIRECTORY OF THE STONE QUARRYING INDUSTRY - 1947

(x) Firms operating dressing works in conjunction with quarry
 (✓) Did not ship in 1947.

Name	Head Office Address	Location
<u>NOVA SCOTIA -</u>		
<u>GRANITE</u>		
Dover, A. R.	Box 255, Shelburne	Shelburne
Dauphinee, W. T. (x)	Box 68, Shelburne	Birchtown
Nictaux Granite Canada Ltd.	Nictaux	Nictaux
Nixon Granite Works (x)	R. R. 3, Middleton	Nictaux West
<u>NEW BRUNSWICK -</u>		
Granite Street Pavement & Construction Co.	Box 1137, Saint John	Hampstead
Milne Coutts & Co. Ltd. (✓)	St. George	St. George
Mooney, B., & Sons Realty Ltd. (✓)	Box 727, Saint John	Hampstead
O'Brien & Baldwin (✓)	St. George	St. George
<u>QUEBEC -</u>		
Adru Granite Inc.	4023 Dorchester St. W., Montreal	Beebe
Anderson, James (x)	Box 125, Beebe	Beebe
Berube, Lucien (x)	Brownsburg	Chatham Tp.
Bolduc, Antonio (x)	St. Sebastien	Ste. Cecile
Brodies Ltd. (x)	1070 Bleury St., Montreal	Graniteville, Guenette and Mount Johnson
Bussiere & Frère Enrg. (x)	St. Sebastien	St. Sebastien
Canada Black Granite Co. Ltd. (x)	Box 550, Rouyn	Beauchastel Tp.
Cloutier, R. L. (x)	Beebe	Beebe
Delwaide & Goffin Enrg. (x)	1365 St. Valier St., Quebec	Ste. Anne
Deschambault Quarry Corp. (x)	56 St. Pierre St., Quebec	St. Gerard
Dostee & Trepanier Enrg.	Lac Megantic	Ste. Cecile
Dumas & Voyer (x)	Rivière à Pierre	Rivière à Pierre
Gaborieault & Nevers Enrg. (x)	Box 65, Grenville	Grenville
Gagnon, Arthur	1740 Fourth St., Grand'Mère	Grand'Mère
Gingras & Freres Ltée. (x)	Stanhope	Stanhope
Gosselin, Oscar (x)	Lac Megantic	St. Samuel
Granit National Ltée., Le (x)	St. Joseph d'Alma	St. Gedeon and St. Joseph d'Alma
Grenier, Elie	Glenada	Glenada
Haselton Granite Quarries (x)	Beebe	Beebe
Laforce, H., & Fils Enrg. (x)	1327 St. Valier St., Quebec	Ste. Anne
Lambert, Alcide	57(a) First St., Shawinigan Falls	Ste. Flore
Laroche, Omer	Rivière à Pierre	Rivière à Pierre
Marvel Granite Reg'd.	17 Notre Dame St., Donnacona	St. Raymond
Moreau, P. (x)	Hebertville Station	Hebertville Station
Pare, Elzear (x)	441 Lagauchetière St. E., Montreal	Guenette
Perron, Arthur	Rivière à Pierre	Rivière à Pierre
Quebec North Shore Paper Co.	680 Sherbrooke St. W., Montreal	Baie Comeau
Robertson, Angus Ltd.	5035 Western Ave., Montreal	Lac Dozois
St. Bruno Quarry & Paving Co. Ltd.	636 Ave. Querbes, Outremont	St. Bruno
St. Samuel Granite (x)	St. Samuel Station	St. Samuel Station
Scotstown Granite Co. Ltd. (x)	Cap St. Martin	Cap St. Martin
Shawinigan Engineering Co. Ltd.	Box 6072, Montreal	Shawinigan Falls
Sherbrooke, City of	Sherbrooke	Sherbrooke
Silver Granite Co. Ltd.	2251 rue Delorimier, Montreal	St. Gedeon and St. Samuel
Super Service Inc.	77 rue Perrault, Rouyn	Rouyn
Vandreuil Construction Co. Ltd.	235 rue St. Jacques, Montreal	Rigaud
White Diamond Granite Co. Ltd.	1043 Blvd. des Forges, Trois Rivières	St. Gerard

Directory of the Stone Quarrying Industry - 1947 (Continued)

Name	Head Office Address	Location
<u>G R A N I T E (Concluded)</u>		
<u>ONTARIO -</u>		
Building Products Ltd.	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
Marathon Prospecting Syndicate	807 Lindsay Bldg., Winnipeg, Manitoba	Marathon
Ontario Rock Co. Ltd.	Room 303, 2 College St., Toronto	Belmont Tp.
Smith & Hokanson	75 Hickory St., Gananoque	Gananoque
Verona Rock Products Ltd.	Verona	Verona
<u>MANITOBA -</u>		
Winnitoba Marble Co. Ltd. (x)	1180 Wall St., Winnipeg	West Hawk Lake
<u>BRITISH COLUMBIA -</u>		
B. C. Monumental Works Ltd. (x)	27 Kingsway, Vancouver	Granite Island
Canadian National Railways	Montreal, Quebec	Ashcroft and Skeena
Coast Quarries Ltd.	1840 West Georgia St., Vancouver	Granite Falls
Gilley Bros. Ltd.	902 Columbia St., New Westminster	New Westminster
Nelson, Corporation of the City of	501 Front St., Nelson	Nelson
Nelson Granite & Monumental Co. (x)	505 Front St., Nelson	Nelson
Trail, City of	1394 Pine Ave., Trail	Trail
Valley Granite Products	Cheam-View	New Westminster
Vancouver Granite Co. Ltd. (x)	744 Hastings St. W., Vancouver	Nelson Island
Vernon Granite & Marble Co. (x)	Box 265, Vernon	Vernon
Wilson, James S. & Son Co. Ltd. (x)	Sirdar	Sirdar
<u>L I M E S T O N E</u>		
<u>NOVA SCOTIA -</u>		
Dillman Bros.	Admiral Rock	Admiral Rock
Eastern Lime Distributors Ltd.	Windsor	Windsor
Mersey Paper Co. Ltd.	Liverpool	East River Point
Mosher, O.P. & Sons	Musquodoboit Harbour	Musquodoboit Harbour
Navin, J. S.	24 Whitney Ave., Sydney	Scotch Lake
Nova Scotia Department of Highways	Halifax	Various
Windsor Foundry	O'Brien St., Windsor	Windsor
<u>NEW BRUNSWICK -</u>		
Brookville Manufacturing Co. Ltd.	Brookville	Brookville
Elm Tree Limestone Co. Operative Ltd.	Petit Rocher Nord	Petit Rocher Nord
Havelock Lime Works	Havelock	Havelock
Snowflake Lime Ltd.	3 Pokiok Rd., Saint John	Saint John
<u>QUEBEC -</u>		
Amendements Calcaires de Rivière		
Bleue Enrg.	Rivière Bleue	Rivière Bleue
Beauseigle, T.	Notre Dame de la Salette	Notre Dame de la Salette
Beaudry, Joseph P.	133 Tache St., Joliette	Joliette
Beco Inc.	Rimouski	Rimouski
Bedard, Jean, Ltée.	270 -33ieme Ave., Lachine	Lachine
Boucher, Louis	Perce	Perce

Directory of the Stone Quarrying Industry - 1947 (Continued)

Name	Head Office Address	Location
<u>L I M E S T O N E (Continued)</u>		
<u>QUEBEC - (Continued)</u>		
Canada Cement Co. Ltd.	Box 290, Station "B", Montreal	Hull
Canadian Quarries Co.	2251 Chemin de la Cote, St. Michel	St. Michel
Carriere Andorno (x)	Cap St. Martin	Cap St. Martin
Carriere Bernier Enrg.	R. R. 2, St. Jean	St. Jean
Carriere du Cap St. Martin Enrg.	636 Ave. Querbes, Outremont	Cap St. Martin
Carriere Gravel Ltee, La	Chateau Richer	Chateau Richer
Carriere Pointe Claire	235 Montee St.Charles, Ste. Genevieve	Pointe Claire
Carriere de St. Barthelemi Ltee.	St. Barthelemi	St. Barthelemi
Carrieres de St. Dominique Ltee., Les	555 - 16ieme Ave., St. Hyacinthe	St. Dominique
Carriere St. Maurice Inc.	1497 Craig St., Trois Rivieres	St.Louis de France
Carriere Trois Rivieres Ltee.	St. Louis de France	St. Louis de France
Charbonneau, Lucien & Cie.	St. Francois de Sales	St. Francois de Sales
Charron, Ferdinand	Belanger Village	Belanger Village
Charron & Fils	3896 St.Dominique St., Montreal	Belanger Village
Cie de Construction de Roberval Ltee.	Roberval	Roberval
Departement de la Justice (x)	Ottawa, Ontario	St. Vincent de Paul
Deschambault Quarry Corp. (x)	56 rue St.Pierre, Quebec	St.Marc des Carrieres
Dominion Lime Ltd.	Lime Ridge	Lime Ridge
Filion, Aldege	Lachute	Lachute
Fiset, Eliodore	63 rue Principale, St.Marc des Carrieres	St. Alban
Fuger & Smith	78 Victoria Ave., Pointe Claire	Pointe Claire
Gagnon & Leclerc	St. Joachim	St. Joachim
Gaspesian Fertilizer Reg'd.	Port Daniel East	Port Daniel East
Gauthier, Jos. O. (x)	St. Marc des Carrieres	St.Marc des Carrieres
Gingras & Freres Ltee. (x)	St. Marc des Carrieres	St.Marc des Carrieres
Hargate Quarries Ltd.	Cap St. Martin	Cap St. Martin
Kennedy Construction Co. Ltd.	407 McGill St., Montreal	Actonvale
Laberge & Marchand Enrg.	Chateauguay	Chateauguay
Lagace Quarries Ltd.	130 Blvd. Labelle, L'Abord-a-Plouffe	L'Abord-a-Plouffe
Lakeshore Construction Co. Ltd.	137 Cartier Ave., Pointe Claire	Pointe Claire
Langlis, Adjuter	St. Marc des Carrieres	St.Marc des Carrieres
Lasalle Quarry Ltd.	8413 Blvd. St. Michel, Montreal	Ville St. Michel
Laurentian Stone Co. Ltd.	195 Nicholas St., Ottawa, Ontario	Hull
Leclerc, J. J.	Drapeau	Drapeau
Martineau Cut Stone Co. Ltd. (x)	5000 - 13ieme Ave., Rosemont	Rosemont
Mercure, Camille	555 rue St.Denis, St. Hyacinthe	St.Dominique de Bagot
Miner, R. H. Co. Ltd.	Room 718 Sun Life Bldg., Montreal	Belanger Village
Ministere de la Voirie	Quebec	St. Charles de Belle-chasse
Montreal Cut Stone Ltd. (x)	1869 rue St.Andre, Montreal	St.Francois de Sales
Montreal Quarry Ltd.	2020 Ave. Union, Montreal	St. Michel
National Quarries Ltd.	6301 Park Ave., Montreal	Cote St. Michel
Pic Construction Co. Ltee.	Box 400, Arvida	Arvida
Quebec Department of Roads	Quebec	Various
Rioux, Raoul & Maurice	Cowansville	Cowansville
St.Francis Rock Products & Equipment Ltd.	Cote Ste.Marguerite, Montreal	St. Laurent
St.Laurent Stone Products & Supplies Ltd.	Cote Ste.Marguerite, Montreal	St. Laurent
Salaberry de Valleyfield, La Cite	Salaberry de Valleyfield	Salaberry de Valleyfield
Shawinigan Chemicals Ltd.	Montreal	Bedford
Societe Cooperative Agricole	St. Andre	St. Andre
Standard Lime Co. Ltd.	Joliette	St. Paul de Joliette
Syndicat de Broyage de Lévis	St. Joseph de Lévis	St. Joseph de Lévis
Syndicat de St. Godefroi	St. Godefroi	St. Godefroi
Tanguay & Royer Enrg.	St. Justine	St. Justine
Trappe de N.D. de Mistassini, La	Village des Peres	Mistassini

Directory of the Stone Quarrying Industry - 1947 (Continued)

Name	Head Office Address	Location
<u>L I M E S T O N E (Continued)</u>		
<u>QUEBEC - (Concluded)</u>		
Tremblay, Wilfrid	Baie St. Paul	Baie St. Paul
Union des Carrières & Pavages Ltée.	496 - 21eme, Quebec	Charlesbourg
Verreault, Eliezer Ltée.	194 du Pont, Quebec	Gifford
Viau, Paul	340 Blvd. du Havre, Valleyfield	Valleyfield
<u>ONTARIO -</u>		
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.	Box 592, Alliston	Stevensville
Canada Cement Co. Ltd.	Box 290 Station "B", Montreal, Que.	Thurlow Tp.
Canada Crushed Stone Ltd.	72 Sun Life Bldg., Hamilton	Dundas and Hagersville
Carleton Lime Products Co.	Box 26, Carleton Place	Ramsay Tp.
Chemical Lime Ltd.	Box 122, Beachville	Beachville
Coleman, Gordon T.	235 Sydney St., Cornwall	Bonville
Cook, J. S., Stone Quarries	Warton	Amabel Tp.
Cope, A., & Sons Ltd.	19 Albert St., Hamilton	Saltfleet Tp.
Dibblee Construction Co. Ltd.	248 Albert St., Ottawa	Bowesville
Dominion Crushed Stone Co.	R. R. 1, Bartonville	Vinemount
Frazer-Duntile Co. Ltd.	130 Sparks St., Ottawa	Nepean Tp.
Gypsum, Lime & Alabastine, Canada, Ltd.	Paris	Beachville and Hespeler
Hagersville Quarries Ltd.	Hagersville	Hagersville
Haldimand Quarries & Construction Ltd.	137 Wellington St.W., Toronto	Hagersville
Jamieson Lime Co.	92 Hall St., Renfrew	Horton Tp.
Kingston Penitentiary	Kingston	Kingston
Kirkfield Crushed Stone Ltd.	2700 Dufferin St., Toronto	Kirkfield
Lapierre, M. C.	1949 - 8th Ave E., Owen Sound	Owen Sound
Law, R.E., Crushed Stone Ltd.	Port Colborne	Port Colborne
Limestone Products Ltd.	1109 Millwood Rd., Toronto	Orillia Tp.
Marlhill Mines Ltd.	Thorold	Robertsville
MacDonald, Ivan L.	Bronte	Bronte
North American Cyanamid Ltd.	Niagara Falls	Ingersoll
Ontario Rock Co. Ltd.	2 College St., Toronto	Belmont Tp.
Parisien, Fernand	Alfred	Alfred
Pembroke, Corporation of	Pembroke	Pembroke
Pirson, John Estate	Stevensville	Stevensville
Queenston Quarries Ltd. (x)	72 Sun Life Bldg., Hamilton	Niagara Falls
Rieger Bros. Construction Ltd.	Scudder P.O.	Pelee Island
Verona Rock Products Ltd.	Verona	Verona
Walker Bros.	Box 586, Thorold	Stamford Tp.
Wehman, John	578 Division St., Kingston	Kingston Tp.
Welland Crushed Stone & Building Co.Ltd.	R. R. 2, McLeod Rd., Niagara Falls	Stamford Tp.
<u>MANITOBA -</u>		
Building Products & Coal Co. Ltd.	111 Christie St., Winnipeg	Inwood
Garson Limestone Co.	251 Machray Ave., Winnipeg	Garson
Gillis Quarries Ltd. (x)	Richard & Spruce Sts., Winnipeg	Garson
Tyndall Quarry Co. Ltd. (x)	1591 Erin St., Winnipeg	Tyndall
Winnipeg, City of	223 James Ave., Winnipeg	Stony Mountain
Winnipeg Supply & Fuel Co. Ltd.	812 Boyd Bldg., Winnipeg	Moosehorn and Stonewall

Directory of the Stone Quarrying Industry - 1947 (Continued)

Name	Head Office Address	Location
<u>L I M E S T O N E (Concluded)</u>		
<u>ALBERTA -</u>		
Errico, Mike	Cadomin	Cadomin
Loder's Lime Co. Ltd.	Kananaskis, Exshaw P.O.	Kananaskis
Summit Lime Works Ltd.	Box 273, Lethbridge	Lethbridge
<u>BRITISH COLUMBIA -</u>		
Adanac Lime Corp. Ltd.	503 Randall Bldg., Vancouver	New Westminster
Agassiz Lime Quarry	Box 187, Agassiz	Agassiz
Beale Quarries Ltd.	744 West Hastings St., Vancouver	Van Anda
B. C. Lime, Marl, & Colloidal Clay Co. Ltd.	Princeton	Coalmont
Capilano Crushing Co. Ltd.	107 East First Ave., Vancouver	West Vancouver
Consolidated Mining & Smelting Co. of Canada Ltd.	Trail	Kimberley and Fife
Knox, Beale	2546 Granville St., Vancouver	Port Alice
Koeys Limestone Co.	Namu	Koeys River
Pacific Lime Co. Ltd.	744 W. Hastings St., Vancouver	Blubber Bay
<u>M A R B L E</u>		
<u>QUEBEC -</u>		
Canadian Dolomite Co. Reg'd.	Portage du Fort	Portage du Fort
Industrial Fillers Ltd.	4820 - 4th Ave., Montreal	St. Armand
Missisquoi Stone & Marble Co. Ltd. (x)	Philipsburg	Philipsburg
Orford Marble Co. Ltd.	65 Beaudet St., St. Laurent	St. Laurent
<u>ONTARIO -</u>		
Bonter, W. F. & Co. Ltd.	Malone	Malone
Bonter Marble & Calcium Co. Ltd.	Box 61, Marmora	Marmora
Silvertone Black Marble Quarries Ltd.	305 O'Connor St., Ottawa	St. Albert
Stockloser Marble Quarries	Box 13, Madoc	Madoc
<u>BRITISH COLUMBIA -</u>		
Marble & Associated Products	507 Ellice St., Victoria	Malahat
<u>S A N D S T O N E</u>		
<u>NOVA SCOTIA -</u>		
Arsenault, F. W. (x)	Antigonish	North Grant
Municipal Spraying & Construction Co. Ltd.	Halifax	Glace Bay and Grand Lake
Wallace Quarries Ltd.	Wallace	Wallace
<u>NEW BRUNSWICK -</u>		
Read Stone Co. Ltd. (x)	Sackville	Stonehaven
Smith, E. A. (x)	Shediac	Shediac

Directory of the Stone Quarrying Industry - 1947 (Con

Name	Head Office Address	Location
<u>S A N D S T O N E (Concluded)</u>		
<u>QUEBEC -</u>		
Blais, Joseph Enrg.	32 Ave. Mont-Marie, Lévis	St. Romuald
Gagnon, L. P.	7 Avenue Gagnon, Lévis	St. David de Lévis
Peel Construction Co. Ltd.	Brampton, Ontario	Trois Pistoles
Poirier, Wellie	Montebello	Montebello
Rousseau, T. E.	Val Brilliant	New Carlisle
Royalmount Construction Ltd.	1440 St. Catherine St. W., Montreal	Ste. Felicite
Sherbrooke, City of	Sherbrooke	Sherbrooke
Simard, Adjutor	Pointe-au-Pic	Pointe-au-Pic
<u>ONTARIO -</u>		
Austin Corner	Belfountain	Belfountain
Barnes, Wm. R. Co. Ltd.	243 Cumberland Ave., Hamilton	Inglewood
Campbell Sandstone Quarries Ltd. (x)	155 Ruskin St., Ottawa	Bells' Corners
Cavlovic, J.	Georgetown	Inglewood
Clarke & Roe	Georgetown	Georgetown
Martin, Ed.	Glen Williams	Glen Williams
McHarg, B.	Georgetown	Georgetown
Mitchell, W.	Limehouse	Credit Valley
Mountain Sandstone Quarry	Georgetown	Inglewood
Rice, Joseph	Georgetown	Inglewood
Shelbourne & Norrie	Georgetown	Georgetown
Sykes Quarries	Georgetown	Glen Williams
<u>BRITISH COLUMBIA -</u>		
Canadian Pacific Railway Co.	Montreal, Quebec	Revelstoke, M.D.
<u>S L A T E</u>		
<u>QUEBEC -</u>		
Bombardier, Geo. & A.	Kingsbury	Kingsbury
<u>BRITISH COLUMBIA -</u>		
Brown, O. M.	1903 Lansdowne Rd., Victoria	Leachtown

2. SECONDARY PRODUCTION - THE STONE PRODUCTS INDUSTRY

In 1947 there were 151 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. Ten producers of rock wool were also included in this industry.

Output from this industry was valued at \$11,634,684 in 1947, an increase of 28.4 per cent over the total of \$9,063,895 reported for the previous year. The 63 works in Ontario accounted for 61 per cent of the total output and the 43 plants in Quebec for 22.6 per cent. The average number of employees was 1,815 who were paid \$3,426,534 in salaries and wages. Materials used in the cutting and dressing processes, including stone, cost \$4,207,405. The latter figure also includes the cost of materials used in the production of rock wool. Expenditures for fuel and electricity amounted to \$414,430.

Table 16 - PRINCIPAL STATISTICS OF THE STONE PRODUCTS INDUSTRY, 1938-1947

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
			\$	\$	\$	\$
1938	234	1,261	1,560,931	138,259	1,271,650	3,902,774
1939	190	1,257	1,458,780	139,438	1,259,547	3,805,989
1940	182	1,061	1,236,825	133,417	1,183,112	3,592,623
1941	173	987	1,296,534	137,842	1,244,013	3,883,496
1942	174	925	1,267,382	147,972	1,423,387	3,939,764
1943	151	857	1,256,415	138,127	1,521,308	4,098,100
1944	142	854	1,426,262	160,725	1,670,718	4,370,430
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
Per cent change 1947 from 1946	...	17.8	29.6	41.2	44.7	28.4

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 17 - PRINCIPAL STATISTICS OF THE STONE PRODUCTS INDUSTRY, BY PROVINCES, 1946 and 1947

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
			\$	\$	\$	\$
<u>1 9 4 6</u>						
Prince Edward Island	1)					
New Brunswick	5)	40	62,162	4,427	37,033	162,841
Nova Scotia	8	88	112,496	15,951	98,053	417,793
Quebec	43	432	792,315	80,670	769,483	1,965,161
Ontario	60	777	1,374,092	164,361	1,690,996	5,580,087
Manitoba	9	49	57,718	5,249	57,884	156,182
Saskatchewan	7	61	93,543	13,178	114,036	307,005
Alberta	5	51	81,527	4,982	93,991	301,827
British Columbia ...	9	43	69,445	4,720	45,052	172,999
CANADA	147	1,541	2,643,298	293,538	2,906,528	9,063,895

Table 17 - PRINCIPAL STATISTICS OF THE STONE PRODUCTS INDUSTRY, BY PROVINCES, 1946 and 1947 (Concluded)

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
			\$	\$	\$	\$
<u>1 9 4 7</u>						
Prince Edward Island	1)					
New Brunswick	5)	47	76,157	6,629	53,120	217,323
Nova Scotia	11	115	174,324	24,989	184,010	550,716
Quebec	43	471	869,602	102,798	885,412	2,636,663
Ontario	63	944	1,927,419	248,592	2,668,331	7,084,984
Manitoba	8	50	65,285	5,961	56,002	152,107
Saskatchewan	7	71	122,045	14,904	163,642	416,984
Alberta	5	57	93,041	5,329	127,264	323,205
British Columbia ...	8	60	98,661	5,228	69,624	252,702
CANADA	151	1,815	3,426,534	414,430	4,207,405	11,634,684

Table 18 - EMPLOYEES, SALARIES AND WAGES IN THE STONE PRODUCTS INDUSTRY, BY PROVINCES, 1946 and 1947

Province	Average Number of Employees					Salaries	Wages	Total Salaries and Wages
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
						\$	\$	\$
<u>1 9 4 6</u>								
Prince Edward Island)								
New Brunswick	7	2	30	1	40	17,323	44,839	62,162
Nova Scotia	11	5	65	7	88	22,679	89,817	112,496
Quebec	76	8	348	...	432	140,152	652,163	792,315
Ontario	132	20	620	5	777	360,256	1,013,836	1,374,092
Manitoba	15	3	29	2	49	26,626	31,092	57,718
Saskatchewan	11	5	44	1	61	31,515	62,028	93,543
Alberta	10	9	30	2	51	32,910	48,617	81,527
British Columbia ...	16	1	26	...	43	25,296	44,149	69,445
CANADA	278	53	1,192	18	1,541	656,757	1,986,541	2,643,298
<u>1 9 4 7</u>								
Prince Edward Island)								
New Brunswick	6	2	38	1	47	15,671	60,486	76,157
Nova Scotia	15	2	94	4	115	36,609	137,715	174,324
Quebec	77	8	378	8	471	187,223	682,379	869,602
Ontario	147	22	768	7	944	447,941	1,479,478	1,927,419
Manitoba	14	1	34	1	50	25,041	40,244	65,285
Saskatchewan	14	5	51	1	71	36,522	85,523	122,045
Alberta	10	10	34	3	57	29,925	63,116	93,041
British Columbia ...	16	1	43	...	60	31,295	67,366	98,661
CANADA	299	51	1,440	25	1,815	810,227	2,616,307	3,426,534

Table 19 - WAGE-EARNERS, BY MONTHS, IN THE STONE PRODUCTS INDUSTRY, 1946 and 1947 (Number on payroll on the last work day of each month)

Month	1 9 4 6			1 9 4 7		
	Male	Female	Total	Male	Female	Total
January	883	13	896	1,407	24	1,431
February	892	13	905	1,389	24	1,413
March	922	15	937	1,411	17	1,428
April	1,031	14	1,045	1,448	20	1,468
May	1,129	16	1,145	1,409	20	1,429
June	1,170	10	1,180	1,459	18	1,477
July	1,291	17	1,308	1,456	23	1,479
August	1,320	21	1,341	1,478	25	1,503
September	1,386	24	1,410	1,478	34	1,512
October	1,407	16	1,423	1,492	32	1,524
November	1,416	21	1,437	1,462	23	1,485
December	1,391	18	1,409	1,399	22	1,421
AVERAGE	1,192	18	1,210	1,440	25	1,465

Table 20 - FUEL AND ELECTRICITY USED IN THE STONE PRODUCTS INDUSTRY, 1946 and 1947

Kind	Unit of measure	1 9 4 6		1 9 4 7	
		Quantity	Cost at works \$	Quantity	Cost at works \$
Bituminous coal - Canadian ..	ton	1,858	17,455	2,355	24,186
Imported ..	ton	2,695	25,453	3,495	34,900
Sub-bituminous coal (from Alberta mines only)	ton	1	6	103	1,189
Anthracite coal	ton	2,676	24,163	340	5,640
Lignite coal	ton	25	193	4	28
Coke	ton	141	1,957	99	1,509
Gasoline	Imp. gal.	164,443	45,215	222,396	59,335
Kerosene or coal oil	Imp. gal.	503	141	1,410	415
Fuel oil	Imp. gal.	633,242	51,623	1,300,385	134,371
Wood	cord	222	2,310	195	2,427
Gas - Manufactured	M cu. ft.	166	164	129	129
Natural	M cu. ft.	1,355	717	2,521	1,326
Other fuel .....	...	...	74	...	286
Electricity purchased	K.W.H.	9,633,688	124,067	9,880,387	148,689
TOTAL .....	...	...	293,538	...	414,430

Table 21 - POWER EQUIPMENT IN THE STONE PRODUCTS INDUSTRY, 1946 and 1947

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 4 6</u>				
Steam engines and steam turbines	5	255	1	35
Diesel engines	3	144	2	116
Gasoline, gas and oil engines (other than diesel)	15	314	2	12
Hydraulic turbines or water wheels .....	...	...	...	...
Total Primary Equipment	23	713	5	163
Electric motors run by purchased power ..	800	9,536	49	676
TOTAL	823	10,249	54	839
Stationary power boilers	4	410	...	...
Motor-generator sets	11	450k.v.a.	6	285k.v.a.
<u>1 9 4 7</u>				
Steam engines and steam turbines	3	370	...	...
Diesel engines	3	144	2	116
Gasoline, gas and oil engines (other than diesel)	14	293	4	37
Hydraulic turbines or water wheels .....	...	...	...	...
Total Primary Equipment	20	807	6	153
Electric motors run by purchased power ..	912	10,190	53	688
TOTAL	932	10,997	59	841
Stationary power boilers	3	294	...	...
Motor-generator sets	11	450k.v.a.	6	285k.v.a.

Table 22 - COST OF MATERIALS USED IN THE STONE PRODUCTS INDUSTRY, 1946 and 1947

	Cost at Works	
	1 9 4 6	1 9 4 7
	\$	\$
Stone - (a) From Canadian quarries	770,620	905,384
(b) Imported	528,673	1,008,195
Monuments, cut and polished, for lettering only ..	173,217	152,718
Silica sand or ground quartz	8,791	9,437
Slag and stone for rock wool	290,139	376,722
Coke for rock wool	238,442	325,448
All other materials	896,646	1,429,501
TOTAL	2,906,528	4,207,405

Table 23 - OUTPUT OF THE STONE PRODUCTS INDUSTRY, 1946 and 1947

Product	Total Selling Value at Works	
	1 9 4 6	1 9 4 7
	\$	\$
Granite, cut and polished -		
(a) Monuments	2,855,781	3,345,304
(b) For building purposes	117,656	230,715
Marble, cut and polished -		
(a) Monuments	401,197	432,927
(b) For building purposes	169,759	253,906
Marble chips and dust	27,464	5,354
Limestone -		
(a) Monuments and bases	63,047	94,819
(b) For building purposes	909,370	1,921,113
Finished monuments, lettered only	337,710	253,322
Other products (x)	4,120,068	5,019,175
Repairs and custom work (re-lettering, etc.)	61,843	78,049
TOTAL	9,063,895	11,634,684

(x) Includes rock wool, etc.

Table 24 - TOTAL PRODUCTION IN CANADA OF DRESSED BUILDING STONE, 1938-1947

Year	Granite		Marble		Limestone		Sand- stone from quarries	Total
	From quarries	From dressing works	From quarries	From dressing works	From quarries	From dressing works		
	(Dollars)							
1938	244,501	216,485	1,440	369,698	227,324	832,123	83,692	1,975,263
1939	561,253	438,619	145,618	174,275	349,547	664,270	101,448	2,435,030
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

Table 25 - PRODUCTION FROM THE STONE PRODUCTS INDUSTRY, BY PROVINCES, 1946 and 1947

	Granite			Marble			Limestone			Finished monu- ments, lettered only	Other products	Total
	Monu- ments	For building purposes	Monu- ments	For building purposes	Marble chips and dust	Monu- ments and bases	For building purposes	For building purposes				
(Dollars)												
Prince Edward Island and New Brunswick -												
1946	138,371	...	21,255	...	50	...	...	...	2,360	805	162,841
1947	185,062	...	28,931	...	...	...	...	...	2,210	1,120	217,323
Nova Scotia -												
1946	64,940	1,930	32,836	...	...	...	...	...	32,376	285,711	417,793
1947	185,816	4,000	31,764	...	...	...	...	...	9,217	319,919	550,716
Quebec -												
1946	1,032,244	65,403	8,915	65,531	...	8,123	266,076	23,366	23,366	495,503	1,965,161	
1947	1,151,453	86,435	22,878	64,135	...	960	441,323	29,532	29,532	839,947	2,636,663	
Ontario -												
1946	1,214,413	33,941	208,126	74,298	137	28,000	642,739	93,518	93,518	3,284,915	5,580,087	
1947	1,313,567	57,060	248,208	123,484	49	46,568	1,427,497	84,901	84,901	3,783,650	7,084,984	
Manitoba -												
1946	68,452	3,762	25,563	8,905	323	445	135	46,201	46,201	2,396	156,182	
1947	62,089	9,154	11,561	18,601	15	1,810	608	47,146	47,146	1,123	152,107	
Saskatchewan -												
1946	108,919	11,420	48,325	5,800	1,429	22,375	90	5,654	5,654	102,993	307,005	
1947	95,008	6,205	78,516	3,980	2,854	45,481	39,730	6,175	6,175	139,035	416,984	
Alberta -												
1946	144,239	...	54,167	...	25,425	4,104	...	69,500	69,500	4,392	301,827	
1947	268,737	15,000	9,339	5,000	2,211	...	11,651	4,100	4,100	7,167	323,205	
British Columbia -												
1946	84,203	1,200	2,010	15,225	100	...	330	64,735	64,735	5,196	172,999	
1947	83,572	52,861	1,730	38,706	225	...	304	70,041	70,041	5,263	252,702	
CANADA -												
1946	2,855,781	117,656	401,197	169,759	27,464	63,047	909,370	337,710	337,710	4,181,911	9,063,895	
1947	3,345,304	230,715	432,927	253,906	5,354	94,819	1,921,113	253,322	253,322	5,097,224	11,634,684	

Table 26 - TOTAL PRODUCTION IN CANADA OF DRESSED MONUMENTAL AND ORNAMENTAL STONE, 1938-1947

Year	Granite		Marble		Limestone		Sand- stone from quarries	Total
	From quarries	From dressing works	From quarries	From dressing works	From quarries	From dressing works		
	(Dollars)							
1938	294,001	1,515,000	2,644	127,803	79,156	109,036	...	2,127,640
1939	260,375	1,513,958	800	129,623	3,321	53,309	325	1,961,711
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

Table 27 - PRODUCTION IN CANADA AND IMPORTS OF ROCK WOOL, 1938-1947

Year	Production \$	Imports	
		Pounds	\$
1938	396,261	1,337,954	45,109
1939	525,998	1,820,763	44,860
1940	935,229	2,082,589	52,233
1941	1,185,324	2,633,544	74,791
1942	1,417,258	1,613,914	54,776
1943	1,707,501	1,839,670	72,780
1944	1,617,420	2,619,513	147,862
1945	1,839,122	8,989,862	460,677
1946	4,098,099	11,733,377	464,880
1947	4,966,388	8,663,106	417,450

Table 28 - PRODUCTION OF ROCK WOOL IN CANADA, BY GRADES, 1947

		Quantity	Selling Value at works
			\$
4-inch batts	sq. ft.	1,377,103	87,665
3-inch batts	sq. ft.	27,337,420	1,255,405
2-inch batts	sq. ft.	53,598,774	1,775,231
1-inch batts .....	...	...	...
Granulated	cu. ft.	8,782,353	1,630,914
Bulk or loose wool	cu. ft.	1,060,397	153,954
Industrial wool (both loose and granulated) ..	cu. ft.	339,671	63,219
TOTAL .....	...	...	4,966,388

Table 29 - PRODUCTION OF ROCK WOOL BY MONTHS, 1946 and 1947

	Four inch batts Sq. ft.	Three inch batts Sq. ft.	Two inch batts Sq. ft.	One inch batts Sq. ft.	Granu- lated wool Cu. ft.	Bulk or loose wool Cu. ft.	Indus- trial wool Cu. ft.
<u>1946</u>							
January	51,700	724,450	2,013,550	394,680	514,672	46,999	40,319
February	49,115	1,018,170	2,061,990	245,260	506,948	70,525	77,091
March	62,375	1,251,150	2,466,140	178,670	633,778	89,491	76,470
April	58,655	1,260,790	2,404,865	...	622,500	93,256	57,546
May	120,140	1,267,235	2,497,220	18,600	685,985	63,778	49,925
June	74,275	1,283,440	2,877,660	...	506,788	72,600	39,378
July	125,230	1,349,230	3,194,830	...	660,883	73,913	55,761
August	165,090	1,881,785	4,001,030	...	889,437	81,353	50,795
September	72,940	1,611,200	3,717,680	...	1,031,250	67,157	40,846
October	124,645	2,063,250	3,909,285	...	1,268,182	83,756	48,795
November	133,790	2,276,620	3,417,525	1,560	1,242,182	97,892	52,354
December	147,240	2,240,285	3,702,655	2,760	959,203	150,895	41,508
TOTAL	1,185,195	18,227,605	36,264,430	841,530	9,521,808	991,615	630,788

<u>1947</u>							
January	134,005	2,852,320	4,262,720	...	702,705	100,044	35,379
February	155,290	2,224,310	4,436,005	...	705,540	101,657	49,650
March	102,155	2,458,860	4,398,635	...	639,112	79,522	41,997
April	121,110	2,777,416	4,485,260	...	532,553	96,916	26,818
May	81,660	2,331,910	4,681,135	...	659,548	82,671	29,770
June	49,440	1,923,530	4,536,645	...	606,587	57,706	21,728
July	155,545	1,488,860	3,809,295	...	679,587	37,922	12,857
August	77,210	1,624,740	4,184,910	...	680,938	59,487	23,711
September	102,230	1,997,685	4,857,900	...	811,873	48,886	29,612
October	117,410	2,557,182	4,204,125	...	1,018,059	94,100	15,110
November	160,313	2,288,700	4,939,840	...	976,615	111,683	25,069
December	126,555	2,417,625	5,705,740	...	890,483	93,168	27,970
TOTAL	1,382,923	26,943,138	54,502,210	...	8,903,600	963,762	339,671

PRODUCERS OF ROCK WOOL - 1947

Name	Address
Canadian Johns-Manville Co. Ltd.	Asbestos, Quebec
The Elmac Company Limited	Amherst, Nova Scotia
Electric Reduction Co. of Canada Ltd.	Buckingham, Quebec
Insulation Products Ltd.	Toronto, Ontario
Spun Rock Wools Ltd.	Thorold, Ontario
Crang Industries	Toronto, Ontario
Canadian Gypsum Company, Ltd.	Weston, Ontario
Gypsum, Lime and Alabastine, Canada, Limited	Caledonia, Ontario
Glacial Rock Insulation, Ltd.	Moose Jaw, Saskatchewan
Rock Wool Eastern, Limited	Windsor Junction, Nova Scotia

DIRECTORY OF FIRMS IN THE STONE PRODUCTS INDUSTRY - 1947

Name of Company	Location of Plant
<u>PRINCE EDWARD ISLAND -</u>	
Beck, Vere & Son	Main St., Montague
<u>NOVA SCOTIA -</u>	
Coughlan, James S., Marble and Granite Works	Simpson's Siding, Halifax
Elmac Co., The	Ansan Ave., Amherst
Keddy, C. L., Monument Works	171-173 Kempt Road, Halifax
Kelly Monumental Works	Bridgewater
Nictaux Granite Canada Limited	Nictaux Falls
Nixon's Granite Works	Nictaux Falls
Rock Wool Eastern, Limited	Windsor Junction
Scott, T. W.	School St., Middleton
Steele, John D., & Sons	Commercial St., North Sydney
Tingley, Harold W.	17 Merkel St., Halifax
Tingley, J. A., Granite Works	Amherst
<u>NEW BRUNSWICK -</u>	
Kane, M. T., & Co. Ltd.	Westmoreland Rd., Saint John
Miramichi Granite & Marble Works	Chatham
St. Stephen Granite Works	Queen St., St. Stephen
Sherrard, T. F., & Son	135 Victoria St., Moncton
Stults Monument Works	Hampstead
<u>QUEBEC -</u>	
Anderson, James	Beebe
Beaubien, Elzear & Fils Ltée. Reg'd.	Ste. Hélène, Co. Kamouraska
Bergstrand, N.	Waterville
Berson, L. & Son	3884 St. Lawrence Blvd., Montreal
Brault, A.	3 Champlain St., Valleyfield
Brodie's Limited	9th Ave., Iberville
Brunet, A.	Ormstown
Brunet, J., Limitée	4485 Cote des Neiges, Montreal
Canadian Johns-Manville Co. Ltd.	Manville St., Asbestos
Caron, Eugene	Ste. Anne de Beaupre
Chabot, J. Ray	Scott Junction, Co. Beauce
Chausse, Edouard & Fils	524 King St. West, Sherbrooke
Crete, James	190 Sophie St., Sorel
Dalceggio, F.	4588 Chemin Cote des Neiges, Montreal
Daudelin, Rolland	1395 St. Antoine St., St. Hyacinthe
Dominion Granite Works Co. Reg'd.	Beebe
Ducharme, J. Maurice	257 Notre Dame St., Victoriaville
Electric Reduction Co. of Canada Ltd.	Buckingham
Fortin, Dollard	St. David de Lévis
Gingras, Roch	Ste. Foy
Gignac, Joseph	St. Alban Village
Godin & Delisle	1253 St. Vallier St., Quebec
Gosselin, Omer	Beauceville Est.
Houde & Frère Enrg.	404 Notre Dame, Cap de la Madeleine
Jacques, Andre	20 Desjardins St., Lévis
Jeune, E. H.	Sutton
Laforce, H. & Fils, Enrg.	1327 St. Valier, Quebec
Liben, A. M.	12 Bagg Ave., Montreal
Martineau Cut Stone Co. Limited	5000 - 13th Ave., Rosemount, Montreal
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

Directory of Firms in the Stone Products Industry - 1947 (Continued)

Name of Company	Location of Plant
QUEBEC (Concluded) -	
Rolland, J. A.	1285 rue St. Valier, Quebec
Rousseau, O., Enrg.	St. Fabien
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
Thuot & Denicourt	84 - Fourth St., Iberville
Thodoro & Bigras	3275 Desautels, Montreal
Villeneuve, Paul, Enrg.	1055 De La Carnardiere, Quebec
Vincent, Chas. A.	5731 St. Denis St., Montreal
ONTARIO -	
Angers, B. & Son	214 Montreal Rd., Eastview
Ambroise Monuments	48 Alma St., Guelph
Ambroise, J. D.	263 Montreal Road, Eastview
Bayview Memorial Co.	Willow Cove
Brown, Geo., & Sons	473 Bronson Ave., Ottawa
Brown, R. & Son	376 Sparks St., Ottawa
Campbell, A. C.	21 Bridge St. W., Belleville
Canadian Art Memorials	28 Lakeshore Rd. W., Port Credit
Canadian Cut Stone Co. (Louis H. Gavard)	7 Isabella St., Ottawa
Canadian Gypsum Co. Limited	Oak St., Weston
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
Excelsior Granite & Marble Works	163 Pitt St. E., Windsor
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	Haileybury
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
Laurin, J. P.	103 George St., Ottawa
London Marble & Granite Co. Ltd.	493 Richmond St., London
McIntosh Granite Company Ltd.	1623 Yonge St., Toronto
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	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
Pollock & Campbell	62 Water St., Galt
Rhodes Memorials Ltd.	Box 61, Cayuga
Riggs Memorial Works	605 Queen St., Niagara Falls
The Ritchie Cut Stone Co., Ltd.	203 New Toronto St., New Toronto
Rivercourt Memorials	296 O'Connor Drive, Toronto
Ronald, Wellington	Listowel

Directory of Firms in the Stone Products Industry - 1947 (Concluded)

Name of Company

Location of Plant

ONTARIO (Concluded) -

Sanderson, J. R., Marble Co.	33 Peter St. S., Orillia
Sault Granite & Marble Works	715 Queen St. E., Sault Ste. Marie
Sinclair Cut Stone & Construction Co. Ltd.	Frid St., Hamilton
Sharp Bros. Cut Stone Company Limited	516 Kenilworth St. N., Hamilton
Skelton, C. R.	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
Wilcox Granite Co.	Plains Road, Hamilton
Wilson's Cut Stone	100 Broadway, Hamilton

MANITOBA -

Brooke, J. H. & Sons	266 Main St., Winnipeg
Brunet, Joseph O.	26 Lyndale Drive, Norwood
Guinn & Simpson Company Limited	52 Tupper St. N., Portage la Prairie
Hooper's Memorial Co.	481 Notre Dame Ave., 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
Somerville Marble & Granite Works	1417 Rosser Ave., Brandon

SASKATCHEWAN -

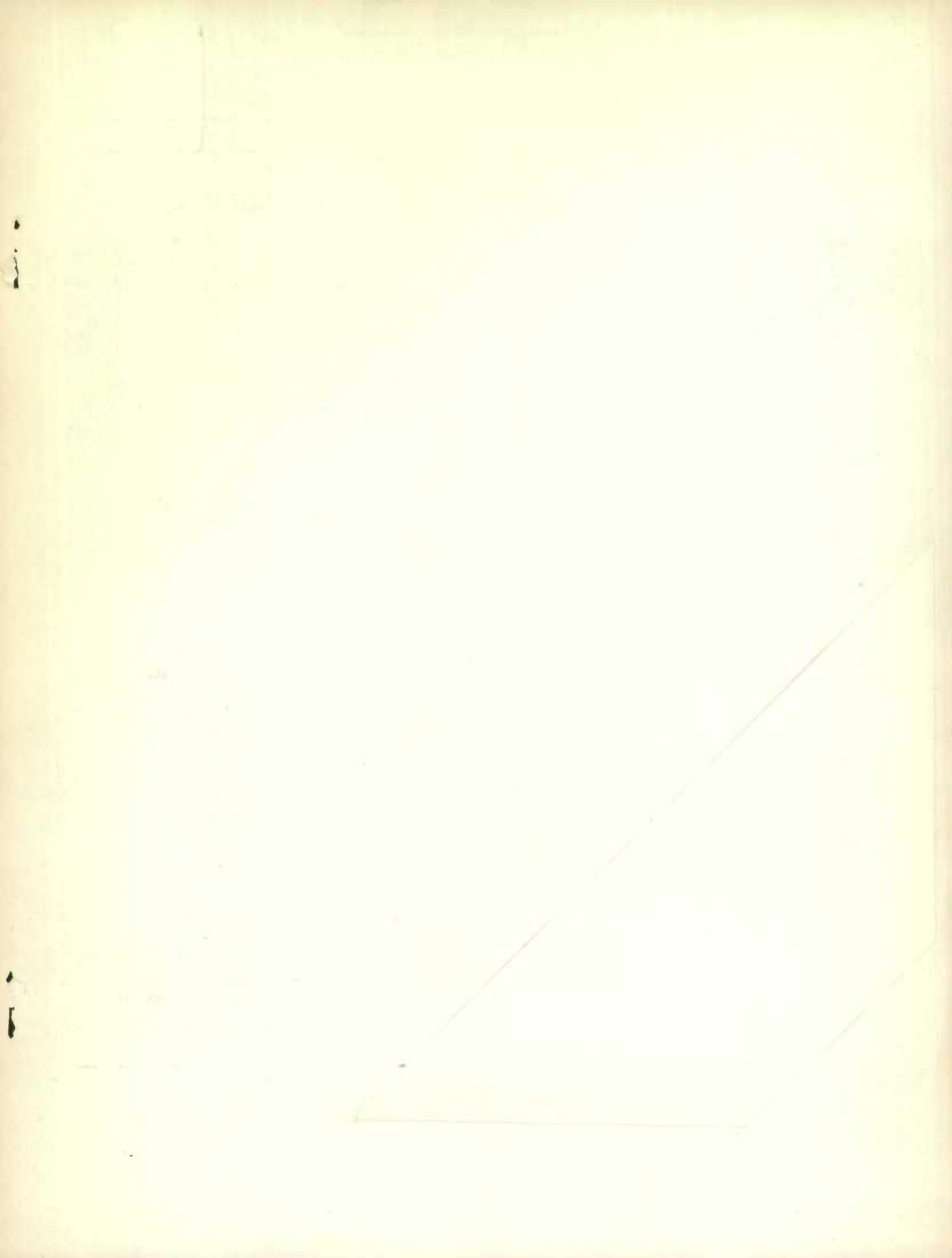
Best Monumental Co.	721 Caribou St. W., Moose Jaw
Glacial Rock Insulation Ltd.	Township 17, Moose Jaw
Molaro Marble & Stone Works	23rd St. and Pacific Ave., Saskatoon
Moose Jaw Marble & Granite Works Ltd.	706 Athabasca St. E., Moose Jaw
Regina Monumental Co.	2536 Railway St., Regina
Yorkton Monumental Works	20 Agricultural Ave., Yorkton
Young, Alex., Ltd.	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.	2313 Second St. E., 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



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