

5535
C16
D
1946

26 217
3

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

CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

+ + + *Census of Industry* + + +

MINING, METALLURGICAL & CHEMICAL STATISTICS

THE

STONE INDUSTRY

IN

CANADA

1946

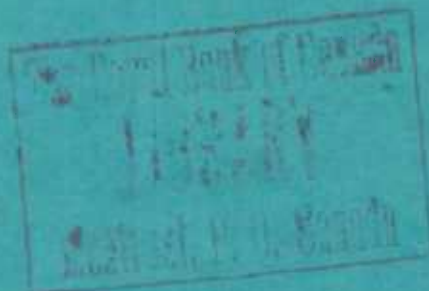
Including: 1. The Stone Quarrying Industry;
2. The Stone Products Industry.



OTTAWA
1948

Price 50 cents





553.5'

C16

D

1946

(4 Aug. '46)

Dominion Statistician:
 Director - Division of Census of Industry and Merchandising:
 Chief - Mining, Metallurgical and Chemical Statistics:

Herbert Marshall
 W. H. Losee
 H. McLeod

THE STONE INDUSTRY IN CANADA, 1946

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 \$20,849,606, 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 1946 numbered 4,261, and their combined earnings amounted to \$6,613,702.

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 during 1946 amounted to \$11,185,711 compared with \$8,166,700 in 1945. The tonnage shipped in 1946 included 319,354 tons of granite (igneous rock) valued at \$2,006,297; 7,217,600 tons of limestone worth \$8,178,513; 21,796 tons of marble valued at \$201,817; 495,777 tons of sandstone valued at \$778,213; and 1,733 tons of slate valued at \$20,871. Of the total value of production, the quarries of Quebec contributed 50.3 per cent; Ontario accounted for 35.1 per cent; Nova Scotia for 4.6 per cent; British Columbia for 3.9 per cent; New Brunswick for 3.5 per cent; Manitoba for 2.1 per cent and Alberta for 0.5 per cent;

Table 1 - PRINCIPAL STATISTICS OF THE STONE QUARRYING INDUSTRY IN CANADA, 1944-1946

	1944	1945	1946
Number of firms	405	361	411
Number of employees - On salary	255	242	176
On wages	1,909	1,912	2,544
TOTAL ...	2,164	2,154	2,720
Salaries and wages - Salaries	\$ 441,257	412,711	316,722
Wages	\$ 2,713,432	2,701,936	3,653,682
TOTAL ...	\$ 3,154,689	3,114,647	3,970,404
Selling value of products (Gross) ..	\$ 7,159,177	8,166,700	11,185,711
Cost of fuel and electricity	\$ 671,056	711,111	834,824
Process supplies used	\$ 826,824	740,604	856,774
Selling value of products (Net)	\$ 5,661,297	6,714,985	9,494,113

This report has been 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, 1945 and 1946

Province	Number of quarries	Average number of em- ployees	Salaries and wages	Cost of fuel and electricity	Process supplies	Gross value of production
			\$	\$	\$	\$
<u>1945</u>						
Nova Scotia	36	100	77,076	12,450	9,229	315,179
New Brunswick	9	68	75,003	7,106	1,926	328,509
Quebec	140	1,274	1,738,960	406,695	440,339	4,056,272
Ontario	169	604	1,050,331	269,411	272,711	2,926,694
Manitoba	7	24	32,194	5,992	6,082	85,798
Saskatchewan .....	...	...	...	...	...	...
Alberta	3	...	...	...	...	54,962
British Columbia	65	84	141,083	9,457	10,317	399,286
CANADA	429	2,154	3,114,647	711,111	740,604	8,166,700
<u>1946</u>						
Nova Scotia	28	104	126,209	30,571	31,783	515,453
New Brunswick	8	104	132,394	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

Table 3 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES, BY KINDS AND BY PROVINCES, 1945 and 1946

Province		Granite (a)	Limestone (b)	Marble	Sandstone	Slate	Total
<u>1945</u>							
Nova Scotia	tons	379	60,387	...	62,668	...	123,434
	\$	25,695	158,644	...	130,840	...	315,179
New Brunswick	tons	4,669	84,639	...	10,020	...	99,328
	\$	41,983	198,326	...	88,200	...	328,509
Quebec	tons	77,145	2,372,758	7,410	211,902	946	2,670,161
	\$	887,113	2,877,684	65,556	224,352	1,567	4,056,272
Ontario	tons	109,286	2,833,573	5,818	3,680	...	2,952,357
	\$	279,105	2,582,663	45,081	19,845	...	2,926,694
Manitoba	tons	425	62,201	...	...	...	62,626
	\$	6,130	79,668	...	...	...	85,798
Alberta	tons	...	13,528	...	...	...	13,528
	\$	...	54,962	...	...	...	54,962
British Columbia	tons	29,726	250,106	160	3,160	969	284,121
	\$	44,722	332,432	2,700	3,160	16,272	399,286
CANADA	tons	221,630	5,677,192	13,388	291,430	1,915	6,205,555
	\$	1,284,748	6,284,379	113,337	466,397	17,839	8,166,700
<u>1946</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	...	...	...	55,132
	\$	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	8,178,513	201,817	778,213	20,871	11,185,711

(a) All igneous rocks included. (b) Includes dolomite, also marl for agricultural purposes.

Note: Not included in the above limestone statistics are 2,525,653 tons of limestone consumed in the cement industry in 1946 and 1,849,258 tons in 1945. Also, the limestone used in the lime industry is not included; it is estimated that approximately 1,487,140 tons of limestone were burned in the manufacture of lime in 1946 and 1,482,077 tons in 1945.

Table 4 - PRODUCTION (SALES) OF STONE(x) FROM CANADIAN QUARRIES, BY PROVINCES, SHOWING PURPOSES FOR WHICH USED, 1945 and 1946

For use as follows:		Nova Scotia	New Brunswick	Quebec	Ontario	Mani- toba	Alberta	British Columbia	Canada
<u>1945</u>									
Building stone - Rough .	tons	600	67	6,568	29,194	271	...	2,319	39,019
	\$	6,848	101	33,278	44,808	2,309	...	6,324	93,668
Dressed	tons	...	1,040	11,225	5,058	359	...	10	17,692
	\$	...	80,000	485,918	75,580	15,821	...	414	657,733
Monumental and ornamen- tal stone - Rough	tons	50	336	8,213	91	...	...	1,600	10,290
	\$	800	3,063	121,096	2,957	...	...	16,000	143,916
Dressed ...	tons	329	190	5,223	...	150	...	47	5,939
	\$	24,895	27,766	575,912	...	5,700	...	8,214	642,487
Flagstone	tons	...	20	540	1,710	65	...	...	2,335
	\$	...	200	2,700	7,662	395	...	...	10,957
Curbstone	tons	...	...	90	...	...	...	...	90
	\$	...	...	668	...	...	...	...	668
Paving blocks	tons	...	...	411	300	...	...	...	711
	\$	...	...	3,126	3,600	...	...	...	6,726
Lining open-hearth furnaces	tons	14,760	...	...	...	...	...	...	14,760
	\$	28,042	...	...	...	...	...	...	28,042
Chemical -									
Flux in iron and steel furnaces	tons	...	...	168	385,662	3,966	800	10	390,606
	\$	...	...	168	341,165	6,603	2,000	200	350,136
Flux in non-ferrous smelters	tons	...	...	3,110	99,861	...	...	45,221	148,192
	\$	...	...	2,872	74,869	...	...	61,178	138,919
Glass factories	tons	...	...	1,192	...	...	4,346	...	5,538
	\$	...	...	5,673	...	...	17,380	...	23,053
Pulp and paper mills ..	tons	3,650	3,077	128,895	27,561	1,860	...	47,008	212,051
	\$	18,714	5,693	189,567	85,114	2,044	...	111,923	413,055
Sugar refineries	tons	...	11	...	8,213	...	...	1	8,225
	\$	...	52	...	6,981	...	...	12	7,045
Other chemical uses ...	tons	...	...	...	257,376	...	...	29,526	286,902
	\$	...	...	...	253,435	...	...	29,526	282,961
Pulverized Stone -									
Whiting (substitute) ..	tons	...	...	3,662	4,309	...	...	232	8,203
	\$	...	...	36,617	26,165	...	...	2,702	65,484
Asphalt filler	tons	1	...	6,023	4,310	...	...	517	10,851
	\$	29	...	21,581	14,973	...	...	2,585	39,168
Dusting coal mines	tons	...	...	...	...	...	2,992	313	3,305
	\$	...	...	...	...	...	11,970	2,112	14,082
Agricultural purposes and fertilizer plants	tons	41,067	81,319	258,828	31,649	1,664	1,480	3,572	419,579
	\$	109,277	192,400	495,851	74,579	3,730	5,920	10,045	891,802
Other uses	tons	869	...	10,846	13,769	3,391	...	30	28,905
	\$	2,173	...	39,704	44,252	3,411	...	270	89,810
Crushed stone for manu- facture of artificial stone	tons	...	...	394	668	...	...	...	1,062
	\$	...	...	2,330	2,489	...	...	...	4,819
Roofing granules	tons	...	...	100	43,261	...	...	969	44,330
	\$	...	...	150	125,016	...	...	16,272	141,438
Poultry grit	tons	40	...	1,243	7,178	...	3,490	1,617	13,568
	\$	409	...	5,374	39,883	...	16,960	8,280	70,906
Stucco dash	tons	...	...	1,350	291	...	...	1,488	3,129
	\$	...	...	9,500	2,778	...	...	17,307	29,585
Terrazzo chips	tons	...	...	2,657	2,127	...	...	...	4,784
	\$	...	...	17,106	21,724	...	...	...	38,830
Rock wool	tons	...	...	...	1,423	...	...	...	1,423
	\$	...	...	...	1,886	...	...	...	1,886
Rubble and riprap	tons	1,168	13,268	125,004	73,598	120	...	28,622	241,780
	\$	2,192	19,234	124,469	76,480	240	...	14,403	237,018
Crushed stone -									
Concrete aggregate ...	tons	...	...	1,302,572	567,811	37,657	420	...	1,908,460
	\$	...	...	1,142,020	417,242	36,262	732	...	1,596,256
Road metal	tons	60,900	...	430,226	931,143	12,711	...	117,859	1,552,839
	\$	121,800	...	426,000	822,998	8,288	...	88,359	1,468,045
Railroad ballast	tons	...	...	361,621	455,794	412	...	3,160	820,987
	\$	...	...	314,592	360,058	395	...	3,160	678,205
TOTAL CANADA	tons	123,434	99,328	2,670,161	2,952,357	62,626	13,528	284,121	6,205,555
	\$	315,179	328,509	4,056,272	2,926,694	85,798	54,962	399,286	8,166,700
Per cent of total	Quantity	1.98	1.60	43.03	47.58	1.01	0.22	4.58	100.00
	Value	3.86	4.02	49.67	35.84	1.05	0.67	4.89	100.00

Table 4 - PRODUCTION (SALES) OF STONE(x) FROM CANADIAN QUARRIES, BY PROVINCES, SHOWING PURPOSES FOR WHICH USED, 1945 and 1946 (Concluded)

For use as follows:		Nova Scotia	New Brunswick	Quebec	Ontario	Mani- toba	Alberta	British Columbia	Canada
1946									
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 ornamen- tal 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
Lining 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
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 manu- facture of artificial	tons	...	...	336	1,600	...	...	...	1,936
stone .....	\$	...	...	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 CANADA	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

(x) Includes the production of slate and marl.

Table 5 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES, BY KINDS, SHOWING PURPOSES FOR WHICH USED, 1945 and 1946

For use as follows:		Granite (a)	Limestone (b)	Marble	Sandstone	Slate	Total
1945							
Building stone - Rough	tons	3,117	33,431	135	2,336	...	39,019
	\$	14,198	57,930	8,809	12,731	...	93,568
Dressed	tons	1,267	15,056	119	1,250	...	17,692
	\$	97,098	464,411	18,224	78,000	...	657,733
Monumental and ornamental stone-							
Rough	tons	10,199	...	91	...	...	10,290
	\$	140,959	...	2,957	...	...	143,916
Dressed	tons	5,789	150	...	...	...	5,939
	\$	636,787	5,700	...	...	...	642,487
Flagstone	tons	...	1,071	...	1,264	...	2,335
	\$	...	3,845	...	7,112	...	10,957
Curbstone	tons	90	...	...	...	...	90
	\$	668	...	...	...	...	668
Paving blocks	tons	411	...	...	300	...	711
	\$	3,126	...	...	3,600	...	6,726
Lining open-hearth furnaces	tons	...	14,760	...	...	...	14,760
	\$	...	28,042	...	...	...	28,042
Chemical -							
Flux in iron and steel furnaces	tons	...	390,596	10	...	...	390,606
	\$	...	349,936	200	...	...	350,136
Flux in non-ferrous smelters ..	tons	...	148,192	...	...	...	148,192
	\$	...	138,919	...	...	...	138,919
Glass factories	tons	...	4,496	1,042	...	...	5,538
	\$	...	17,943	5,110	...	...	23,053
Pulp and paper mills	tons	...	212,051	...	...	...	212,051
	\$	...	413,055	...	...	...	413,055
Sugar refineries	tons	...	8,225	...	...	...	8,225
	\$	...	7,045	...	...	...	7,045
Other chemical uses	tons	...	286,902	...	...	...	286,902
	\$	...	282,961	...	...	...	282,961
Pulverized stone -							
Whiting (substitute)	tons	...	8,153	50	...	...	8,203
	\$	...	64,984	500	...	...	65,484
Asphalt filler	tons	...	10,851	...	...	...	10,851
	\$	...	39,168	...	...	...	39,168
Dusting coal mines	tons	...	3,305	...	...	...	3,305
	\$	...	14,082	...	...	...	14,082
Agricultural purposes and	tons	...	419,579	...	...	...	419,579
fertilizer plants .....	\$	...	891,802	...	...	...	891,802
Other uses	tons	...	28,305	600	...	...	28,905
	\$	...	87,410	2,400	...	...	89,810
Crushed stone for manufacture of	tons	...	668	394	...	...	1,062
artificial stone .....	\$	...	2,489	2,330	...	...	4,819
Roofing granules	tons	43,261	100	...	...	969	44,330
	\$	125,016	150	...	...	16,272	141,438
Poultry grit	tons	485	9,000	4,083	...	...	13,568
	\$	4,445	43,862	22,599	...	...	70,906
Stucco dash	tons	240	1,439	1,450	...	...	3,129
	\$	2,526	15,559	11,500	...	...	29,585
Terrazzo chips	tons	...	520	4,264	...	...	4,784
	\$	...	1,560	37,270	...	...	38,830
Rock wool	tons	...	1,423	...	...	...	1,423
	\$	...	1,886	...	...	...	1,886
Rubble and riprap	tons	40,231	186,561	1,150	12,892	946	241,780
	\$	31,530	182,907	1,438	19,576	1,567	237,018
Crushed stone -							
Concrete aggregate	tons	38,871	1,849,865	...	19,724	...	1,908,460
	\$	61,977	1,502,390	...	31,889	...	1,596,256
Road metal	tons	77,669	1,392,566	...	82,604	...	1,552,839
	\$	166,418	1,143,079	...	158,548	...	1,468,045
Railroad ballast	tons	...	649,927	...	171,060	...	820,987
	\$	...	523,264	...	154,941	...	678,205
TOTAL CANADA (b)	tons	221,630	5,677,192	13,388	291,430	1,915	6,205,555
	\$	1,284,748	6,284,379	113,337	466,397	17,839	8,166,700

Stone

- 6 -

Table 5 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES, BY KINDS, SHOWING PURPOSES FOR WHICH USED, 1945 and 1946 (Concluded)

For use as follows:		Granite (a)	Limestone (b)	Marble	Sandstone	Slate	Total
1946							
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
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	tons	...	480,639	...	...	...	480,639
fertilizer plants .....	\$	...	1,044,651	...	...	...	1,044,651
Other uses	tons	...	47,155	...	...	...	47,155
	\$	...	158,388	...	...	...	158,388
Crushed stone for manufacture of	tons	...	700	1,236	...	...	1,936
artificial stone .....	\$	...	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 CANADA (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

(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

- 7 -

Table 6 - PRODUCTION OF STONE FOR BUILDING PURPOSES, CHEMICAL USE, CEMENT MANUFACTURE, CONCRETE AGGREGATE, ROAD METAL AND RAILROAD BALLAST, 1937-1946

Year	Building stone(a)	For chemical purposes(b)	For concrete aggregate	For road metal	For railroad ballast	For cement manufacture(c)
1937	tons 49,098	693,947	1,497,655	3,169,136	642,248	1,465,168
	\$ 746,370	626,297	1,214,181	2,522,080	570,606	...
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	...

(a) Does not include monumental or ornamental stone.

(b) Does not include limestone used in Canadian lime industry which totalled 1,487,140 tons in 1946.

(c) Includes shale in 1938-1945: 1938 - 13,821 tons; 1939 - 27,241 tons; 1940 - 18,347 tons; 1941 - 26,837 tons; 1942 - 30,498 tons; 1943 - 75,460 tons; 1944 - 74,303 tons; 1945 - 70,600 tons; 1946 - 99,355 tons.

Table 7 - IMPORTS INTO CANADA AND EXPORTS OF STONE, BY KINDS, 1945 and 1946

		1 9 4 5		1 9 4 6	
		Quantity	Value	Quantity	Value
			\$		\$
<u>Imports</u>					
Building stone, n.o.p.	cwt.	106,159	48,997	293,352	144,722
Curling stones and handles therefor	pair	231	5,982	1,084	28,740
Granite, rough, not hammered or chiselled ....	...	...	42,942	...	158,556
Granite, sawn only ....	...	...	22,964	...	44,169
Granite, monuments ....	...	...	...	...	...
Granite, manufactures of, n.o.p. ....	...	...	9,877	...	16,811
Marble, rough, not hammered or chiselled ....	...	...	9,139	...	43,343
Marble, sawn or sand rubbed, not polished ....	...	...	41,229	...	91,077
Marble, not further manufactured than sawn for tombstones ....	...	...	62,045	...	53,068
Marble, manufactures of, n.o.p. ....	...	...	10,252	...	6,560
Refuse stone	ton	705,716	481,348	614,573	567,865
Slate roofing	square	439	5,276	436	8,461
Slate mantels and manufactures of slate, n.o.p. ....	...	...	26,131	...	39,754
Chalk, china, cornwall or cliff stone and mica schist ....	...	...	16,967	...	58,645
Mineral wool	ton	4,495	460,677	5,866	464,880
Whiting, gilders' whiting and Paris white	ton	14,159	307,201	18,038	359,693
Manufactures of stone, n.o.p. ....	...	...	27,010	...	41,518
Chalk, prepared ....	...	...	6,425	...	5,445
Pumice and pumice stone and lava tufa ....	...	...	45,041	...	71,607
Grindstones, not mounted and not less than 36 inches in diameter	No.	466	45,494	675	65,814
Grindstones, n.o.p.	No.	549	2,381	2,304	6,500
Burrstones, rough, in blocks	No.	27	779	6	112
Ganister	ton	425	3,384	5,184	3,367
TOTAL .....	...	...	1,681,541	...	2,280,707
<u>Exports</u>					
Crushed stone	ton	904	858	777	2,083
Granite and marble, unwrought	ton	3,835	48,606	5,277	82,008
Dressed stone of all kinds ....	...	...	7,331	...	6,311
Grindstones, manufactured ....	...	...	19,519	...	35,204
TOTAL .....	...	...	76,314	...	125,606

Table 8 - AVERAGE NUMBER OF WAGE-EARNERS, BY MONTHS, 1945 and 1946

Month	1 9 4 5				1 9 4 6			
	Quarry		Dressing Works		Quarry		Dressing Works	
	Male	Female	Male	Female	Male	Female	Male	Female
January	990	1	263	3	1,155	1	455	1
February	990	1	264	3	1,159	2	479	1
March	1,076	1	315	3	1,287	2	527	1
April	1,353	1	293	3	1,767	2	570	2
May	1,717	1	323	3	2,242	3	653	2
June	1,810	1	331	3	2,397	3	648	2
July	1,837	1	369	3	2,454	3	640	2
August	1,915	1	346	3	2,455	4	649	2
September	1,943	1	341	3	2,378	4	666	2
October	1,994	1	386	3	2,303	4	631	2
November	1,719	1	382	3	2,053	4	626	2
December	1,316	1	373	3	1,580	4	583	2
AVERAGE	1,572	1	336	3	1,938	3	601	2

Table 9 - FUEL AND ELECTRICITY USED, 1946.

[illegible]

Table 10 - POWER EQUIPMENT, 1946

	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	39	1,676	5	265
Steam turbines	1	2	1	2
Diesel engines	70	6,030	3	165
Gasoline, gas and oil engines other than diesel	174	6,561	19	790
Hydraulic turbines or water wheels	6	280	4	150
Electric motors run by purchased power	1,038	27,116	139	4,772
Electric motors run by own power	39	1,116	2	3
Stationary boilers	42	2,005	4	140
Motor generator sets	3	67	1	16

GRANITE

Table 11 - PRODUCTION OF GRANITE (x) IN CANADA, 1937-1946

Year	Short tons	\$	Year	Short tons	\$
1937	1,135,099	1,827,433	1942	1,366,425	1,946,249
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

(x) Includes all igneous rock.

The annual review by the Bureau of Mines gives the following information with regard to the quarrying of granite in Canada:

Large areas in Canada are underlain by granite and other related crystalline igneous rocks, and in a number of localities quarries in such rocks have been opened up for the production of building stone, monumental stock, riprap, etc. More than 90 percent of the Canadian output of granite in 1945 was supplied by Ontario and Quebec, and the remainder came from Nova Scotia, New Brunswick, Manitoba and British Columbia.

Prior to the war most of the Canadian production of granite was used for riprap and crushed stone and in the construction of public and semi-public buildings, and smaller quantities for monumental stock, but during the war there was little demand for dimensioned stone for building so that many of the quarries producing only this type of stone were forced to close. There was sufficient demand, however, for monumental stock for the domestic market and for export to enable a number of firms to keep their dressing sheds in operation on a small scale, and some of the larger quarries favourably situated were able to supply any demand for riprap that arose. With the prospects of extensive building construction, these companies can turn again to the production of building stone with little loss of time.

Many of the Canadian granites are suitable for monumental use, and prior to the war much of this material was used within a limited radius of various quarries, but appreciable quantities of special monumental stock such as 'reds' and 'black granites' were imported from the Scandinavian countries, notably Finland and Sweden. When shipments were cut off, Canada and the United States had to depend on their own quarries. In Canada a number of quarries produce granite of pleasing characteristics for monumental use and in the past few years there has been a small but steady increase in the domestic demand for such stone. Moreover, numerous requests from the United States for samples have been received by Canadian firms, and exports to that country have shown an appreciable increase.

Quebec continued to furnish most of the granite used in building, road foundation and other heavy construction, the leading producing areas being Stanstead, Stanstead county; St. Samuel, Frontenac county; Riviere-a-Pierre, Portneuf county; and Lake St. John district. Granite 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 and from quarries along the north shore of Lake Superior. A quarry of this type of granite has been recently opened in Rouyn district, Quebec.

In Nova Scotia and New Brunswick the industry was again comparatively quiet. Production in Nova Scotia came from well established firms in Shelbourne and Nictaux West areas and most of the material was monumental stock. In New Brunswick, the granite quarry at Hampstead was in production, and two firms at St. George produced for the monumental trade. A few tons of 'black granite' was produced from the quarry at Lake Digdequash.

In Quebec, grey granite comprises over half the total output for the province and is quarried mainly in Stanstead district. At St. Gedeon and at St. Joseph d'Alma in the Lake St. John district, Le Granit National Ltée produces 'black granite', which finds a ready market for monumental use and for building trim. Brodies Limited, Montreal, has its new cutting shed, erected to replace the shed destroyed by fire, in full operation. The company obtains its granite from Graniteville, Stanstead county; from Guenette, Labelle county; and 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. Prospecting for some of the coloured granites that are in demand for monumental use was active in the province. Granite of deep red colour and pleasing texture is being developed in several districts, notably, near Grenville in Grenville county; and in the vicinity of Donnacona, Portneuf county.

In Ontario, the Ontario Rock Company, Toronto, quarried a trap rock at Havelock, Peterborough county, which is used mainly for road foundations, railroad ballast, and concrete aggregate.

In British Columbia, granite was produced from several well established properties. A large proportion of the B.C. stone production was andesite produced from Heddington Island for the building trade.

LIMESTONE

Table 12 - PRODUCTION OF LIMESTONE (x) IN CANADA, 1937-1946

Year	Short tons	\$	Year	Short tons	\$
1937	5,542,806	4,673,942	1942	6,442,583	6,468,525
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

(x) Includes dolomite and marl; production of marl totalled 22,913 tons in 1943; 19,848 tons in 1944; 14,148 tons in 1945 and 20,363 tons in 1946.

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 Warton 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.

MARBLE

Table 13 - PRODUCTION OF MARBLE IN CANADA, 1937-1946

Year	Short tons	\$	Year	Short tons	\$
1937	21,642	88,595	1942	13,824	88,209
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

The following excerpt is from the annual review by the Bureau of Mines:

The marble industry in Canada, in common with all belligerent countries, was relatively inactive during the war because most of the buildings erected were of the strictly utilitarian type, in which very little marble was used. With the resumption of construction of the ornamental type of buildings the demand for marble is increasing and preparations were made late in 1945 for the reopening in 1946 of quarries that have been closed for several years. Foreign marble, which has always largely dominated the Canadian market, is now obtainable only with difficulty and at higher prices than formerly because of depleted European stocks, damage to quarries and equipment during the war, and because of labour trouble. Thus the outlook for increased production of domestic marble in the near future is good.

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 terrazzo chips, stucco dash, poultry grit, marble flour, whiting substitute, rubble and material for making artificial stone, but some squared blocks for sawing into slabs for interior decorative use have also been produced.

In Quebec, clouded grey marbles and also a black marble are obtained in the quarries of Misesisquoi Stone and Marble Co. Ltd., at Phillipsburg, near the foot of Lake Champlain. Brown marble for counters and wainscoting is obtained from the building-stone quarries in the Trenton limestone at St. Marc des Carrières, Portneuf county. Red and green marble for use as terrazzo is quarried by MAB Ltée at St. Joseph de Beauce. Orford Marble Co. Ltd., a new company, commenced preparations for quarrying a variegated red, green and grey serpentine marble near North Stukely, Shefford county, late in 1945. 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 minor products.

In Ontario, black marble from beds up to 40 inches thick, is produced by Silverton 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, for use as terrazzo. White Star Mine (Bolender Bros.) produces 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, but there is no activity at present.

In British Columbia, there are many deposits of marble, but there is only a small production of white marble 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.

SANDSTONE

Table 14 - PRODUCTION OF SANDSTONE IN CANADA, 1937-1946

Year	Short tons	\$	Year	Short tons	\$
1937	235,165	343,871	1942	153,865	236,810
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

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 1946 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 1945 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.

SLATE

Table 15 - PRODUCTION OF SLATE IN CANADA, 1937-1946

Year	Short tons	\$	Year	Short tons	\$
1937	900	5,519	1942	1,369	16,801
1938	979	6,311	1943	1,336	17,753
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

Canadian slate production in 1946 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.

ROOFING GRANULES

(From the annual review by the Bureau of Mines, Ottawa)

There has been a marked expansion in the granule roofing industry in Canada during the past twelve years and particularly during the past three years. About 64 per cent of the granules used are imported, however, though some of the leading manufactures of granule roofings, as well as individuals, have been searching certain areas in Canada 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. Present production comes from three deposits in Ontario and four in British Columbia. In 1946, Canadian consumption of granules used for roofing showed a 39.5 per cent increase over that of 1945, and a further increase is expected in 1947.

The granules consist of small broken particles of rock or slate in their natural state or artificially coloured, that are affixed to asphalt sheeting. The underside of the sheeting is coated with a film of talc or fine mica and is then cut into shapes for roofing shingles or for sidings (resembling rows of bricks separated by mortar). The exposed portion of the improved shingle has an inner coating, usually of natural granules, upon which another coating of the required coloured granules is spread.

In Ontario three deposits are being quarried for granules in the vicinity of Madoc, 100 air miles east and north of Toronto. These are: a grey rhyolite deposit 5 miles north-east 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 Company, the leading Canadian manufacturer, crushes and screens the rock from these quarries at a mill near Madoc, and artificially colours the granules at a plant at Havelock, the only granule colouring plant in Canada.

In British Columbia, G.W. Richmond is quarrying 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 is mining 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.

In 1946, as in the previous four 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.

Processes for colouring granules are covered by many patents. A few of the methods employed consist of: heating, which darkens the colour; adding oxides of iron and chromium and then burning; addition of sodium silicate, clay, and the required pigment; addition of zinc oxide, clay, and liquid phosphoric acid, heating and then adding the pigment. Many combinations are employed and generally the formulae used by individual companies are closely guarded secrets.

Specifications for the types of rock that make the best granules are somewhat exacting and samples must pass severe tests. At one time they called for flat granules, and nearly all were made from slate. The present trend, however, is toward more solid angular fragments, and the use of true slate is decreasing, though in 1945, 36 percent of the total used in Canada was slate granules (21 percent natural and 15 percent artificially coloured). Rocks suitable for granules should be fairly hard, of low porosity, fine grained, opaque, possess a high melting point, and break well. They should be composed mainly of silica or silicates and should be free of metallic minerals, flaky minerals, minerals with fibrous partings, and the carbonates. They should withstand weathering action over long periods, and prevent "blistering" of the underlying asphalt caused by combination of the penetration of water and actinic rays of the sun. Coloured rocks are generally preferred and the colours (reds and greens) are often intensified artificially, but the granules must have the physical properties that will enable them to maintain the colour permanently. Slates suitable for granules should be hard and their colour should be as dark (blue-black) as possible, or else greens and reds. All granules are oiled to improve adhesion to the asphalt and to intensify the colour, but for the latter the effect is not permanent. Two mesh grades of granules are used, namely 'coarse' (10 to 28 mesh) and to a much smaller extent 'fine' (28 to 35 mesh).

Prices vary considerably depending upon the type of granule and upon whether the colour is natural or artificial. Imported granules average \$17.00 a ton, f.o.b. eastern Canadian plants for natural rocks and slates; \$21.15 for artificially coloured reds; \$23.40 for greens and browns; and \$33.15 for blues.

WHITING SUBSTITUTE

(From the annual review by the Bureau of Mines, Ottawa)

Whiting substitute, also referred to as domestic whiting and as marble flour, is finely pulverized white limestone, or white marble or marl. It also may be made from lime or from waste calcium carbonate sludge resulting from the manufacture of caustic soda.

White marble and white limestone when used for whiting substitutes are pulverized to degrees of fineness ranging from 200 to 400 mesh. Only marble and limestone containing very little magnesium carbonate are used for making whiting substitute, and in Canada most of it is made from white marble, though two plants have been built in Ontario to make it from marl.

By-product precipitated chalk, made from waste sludge resulting from the manufacture of caustic soda from dead ash and lime, is classed as whiting substitute, but its usefulness is restricted by the fact that it almost invariably contains a small amount of free alkali. The raw materials for its manufacture are available, but it is not made in Canada.

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.

Marl suitable for making whiting substitute should be white or nearly so, nearly free from grit and calyey material, and be very low in organic matter. This matter is present to some extent in all deposits of marl and renders the product unsuitable for use as a filler in products such as putty and paint where it will come in contact with oils. The oil-absorptive capacity of whiting substitute made from marl is usually greater than that of whiting, but otherwise the physical properties are much the same.

DIRECTORY OF THE STONE QUARRYING INDUSTRY, 1946

(x) Firms operating dressing works in conjunction with quarry.

(/) Did not ship in 1946

Name	Head Office Address	Location
<u>Granite</u>		
<u>Nova Scotia -</u>		
Bower, A. R.	Box 255, Shelburne	Shelburne
Dauphinee, W. T. (x)	Shelburne	Shelburne
Nixon, W. H. & Sons (x)	R. R. 3, Middleton	Nictaux West
Rice Bros. (x)	Lawrencetown	Nictaux West
Rice, W. D. (x)	Middleton	Nictaux West
<u>New Brunswick -</u>		
Granite Street Pavement & Construction Co. Ltd.	Box 1137, Saint John	Hampstead
Milne Coutts & Co. Ltd. (x)	St. George	St. George
Mooney & Sons Realty Ltd., B.	Box 727, Saint John	Hampstead
O'Brien & Baldwin (x)	St. George	St. George
Spinney's Quarry	Box 96, St. George	St. George
<u>Quebec -</u>		
Adru Granite Inc.	4023 Dorchester St.W., Montreal	Beebe
Anderson, James (x)	Box 125, Beebe	Beebe
Bérubé, Lucien (x)	Brownsburg	Chatham Tp.
Bolduc, Antonio (x)	St. Sebastien	Beauce
Bourbonnais, J. A.	Rigaud	Rigaud
Boyer, Herve	Mount Royal	New Glasgow
Brodies' Ltd. (x)	1070 Bleury St., Montreal	Guenette
		Graniteville
		Mount Johnson
Bussière & Frère (x)	St. Sebastien	Ste. Cecile
Canada Black Granite Co. Ltd.	Box 550, Rouyn	Beauchastel Tp.
Canadian Red Granite Reg'd	Box 19, Grenville	Scotch Road
Carrière Shawinigan	57a First St., Shawinigan Falls	Ste. Flore
Cie de Marbre & de Tuile de Quebec Ltée	327 Dorchester St., Quebec	Ste. Cecile
Cloutier, R. L. (x)	Beebe	Beebe
Delwaide & Goffin (x)	1365 St. Valier St., Quebec	Chicoutimi
Deschambault Quarry Corp. (x)	56 St. Pierre St., Quebec	St. Gerard
Dostie & Trepanier Engg.	R.R.1, Megantic Ville	Ste. Cecile
Drummond, La Compagnie Pierre Concasse	Box 712, Sherbrooke	Drummond
Dubois, Honore (x)	Rivière à Pierre	Rivière à Pierre
Dumas & Voyer	Rivière à Pierre	Portneuf Co.
Gaboriault & Nevers (x)	Box 65, Grenville	Grenville Tp.
Gagnon, Arthur	1740 Fourth St., Grand'Mere	Grand'Mere
Giguere, H. Camille	Rouyn	Rouyn
Gosselin, Oscar	Lac Megantic	St. Samuel
Granit National Ltée (x)	St. Joseph d'Alma	St. Gédéon
		St. Joseph d'Alma
Granit Noir Du Canada Ltée.	Box 550, Rouyn	Beauchastel Tp.
Granit St. Jerome Ltée.	Box 10, Rosemount, Montreal	St. Eustache, Est.
Grenier, Elie	Glenada	Glenada
Haselton Granite Quarries	Beebe	Beebe
Jacques, Arthur	Rivière à Pierre	Rivière à Pierre
Lacasse & Boulais	Box 23, Beebe	Beebe
Laforce, H. & Fils (x)	1327 St. Valier St., Quebec	Chicoutimi
Laroche, Omer	Rivière à Pierre	Portneuf Co.
Maltais, Charles	St. Joseph d'Alma	St. Joseph d'Alma
Marvel Granite Reg.	17 Notre Dame Donnacona	St. Raymond
Pare, Elzear	441 Lagachetiere E., Montreal	Guenette
Perron, Arthur	Rivière à Pierre	Portneuf Co.
Quebec North Shore Paper Co.	680 Sherbrooke St. W., Montreal	Baie Comeau

Directory of the Stone Quarrying Industry, 1946 (Continued)

Name	Head Office Address	Location
<u>Granite (Concluded)</u>		
<u>Quebec (Concluded)</u>		
Riverin & Riverin	Chicoutimi	Chicoutimi
Rousseau, Ben	283 Heriot St., Drummondville	St. Charles
St. Bruno Quarry & Paving Co. Ltd.	636 Ave. Querbes, Outremont	St. Bruno
St. Samuel Granite	St. Samuel Station	Frontenac Co.
Scotstown Granite Co. Ltd. (x)	Cap St. Martin	Cap St. Martin
Sherbrooke, City of	Box 754, Sherbrooke	Sherbrooke
Silver Granite Co. Ltd. (x)	2251 Rue Delormier	St. Gédéon
Stanstead Granite Quarries Co. Ltd. (x)	Beebe	Beebe
Super Service Inc.	77 Perrault Est., Rouyn	Rouyn
<u>Ontario -</u>		
Bancroft Mica & Stone Products		
Mining Synd. Ltd.	Selby	Hastings Co.
Building Products Limited	Box 6063, Montreal	Madoc
Hall, Wilfred J. R.	36 Burritt St., Parry Sound	McDougall Tp.
Horne Granite Quarries	Butler via Ignace	Butler
Ontario Rock Co., Limited	Room 303, 2 College St., Toronto	Belmont Tp.
<u>Manitoba -</u>		
Winnitoba Marble Co. Ltd. (x)	1180 Wall St., Winnipeg	West Hawk Lake
<u>British Columbia -</u>		
B. C. Monumental Works Ltd.	27 Kingsway, Vancouver	Granite Island
Canadian National Railways	Montreal	Skeena
		Ashcroft
Canadian Pacific Railway Co.	Montreal	Albert Canyon
Coast Quarries Ltd.	1840 West Georgia St., Vancouver	Granite Falls
Corporation of the City of Nelson	501 Front St., Nelson	Nelson, M.D.
Nelson Granite and Monumental Co.	505 Front St., Nelson	Nelson, M.D.
Prince Rupert, City of (x)	Prince Rupert	Skeena
Valley Granite Ltd.	Cheam-View	Yale Dist.
Vancouver Granite Co. Ltd.	308 Pacific Bldg., Vancouver	Nelson Island
Vernon Granite & Marble Co.	Box 265, Vernon	Yale Dist.
Wilson Son & Co. Ltd., James	Sirdar	Nelson
<u>Limestone</u>		
<u>Nova Scotia -</u>		
Dillman Bros.	Admiral Rock	Admiral Rock
Dominion Steel and Coal Co. Ltd.	Sydney	Sydney
Eastern Lime Co. Ltd. (x)	Box 60, Windsor	Windsor
Mersey Paper Co. Ltd.	Liverpool	East River Point
Mosher Limestone Co. Ltd.	Upper Musquodoboit	Upper Musquodoboit
Nairn, J. S.	24 Whitney Ave., Sydney	Scotch Lake
Nova Scotia Department of Agriculture	Halifax	Various
Windsor Foundry	Windsor	Windsor
<u>New Brunswick -</u>		
Alward, Roy M.	Butternut Ridge	Springhill
Brookville Manufacturing Co. Ltd.	Brookville	Brookville
Elm Tree Limestone Co-operative Co. (x)	Petit Rocher North	Petit Rocher North
Havelock Lime Works	Havelock	Havelock
Snowflake Lime Limited	3 Pokiok Rd., Saint John	Saint John
<u>Quebec -</u>		
Amendements Calcaires de R-B, Les	Rivière-Bleue	Rivière-Bleue
Andoro, Jean (x)	Cap St. Martin	Cap St. Martin
Beaudry, J.P.	Joliette	Joliette
Beauregard, La Compagnie Ltd.	Stukely North	Stukely North
Beco Enrg.	Box 219, Rimouski	Laflèche Co.

Directory of the Stone Quarrying Industry, 1946 (Continued)

Name	Head Office Address	Location
<u>Limestone (Continued)</u>		
<u>Quebec (Continued)</u>		
Bédard, Jean Ltée (x)	270 - 33rd Ave., Lachine	Lachine
Boucher, Louis	Perce	Gaspé Co.
Boucher, Telesphore	Notre Dame de la Salette	Notre Dame de la Salette
Bourget, John D.	De forceville	Gaspé Co.
Canada Cement Co. Ltd.	Box 290, Montreal	Hull
Canadian Quarries Co.	2251 Chemin de la Côte, St. Michel	St. Michel
Carrière Bernier Enrg.	R.R. 2, St. Jean	St. Jean
Carrière du Cap St. Martin	636 Ave. Querbes, Outremont	Cap St. Martin
Carrière Gravel Ltée	Chateau Richer	Chateau Richer
Carrière Pointe-Claire	Pointe Claire	Pointe Claire
Carrière St. Barthelemy Ltée	St. Barthelemy	St. Barthelemy
Carrières de St. Dominique Ltée (x)	555 - 16th Ave., St. Hyacinthe	St. Dominique
Carrière St. Maurice Inc.	1497 Craig St., Trois Rivières	St. Louis de France
Carrière Trois Rivières Ltée	St. Louis de France	St. Louis de France
Charbonneau, L. & Cie	St. François de Sales	Laval Co.
Charron Ferdinand	Canton Belanger	Laval Co.
Charron & Fils	3896 St. Dominique St., Montreal	Belanger Village
Cyr, Arsene	St. Alphonse de Caplan	Bonaventure
Department de la Justice (x)	Ottawa, Ontario	St. Vincent de Paul
Deschambault Quarry Corp. (x)	56 rue St. Pierre, Quebec	St. Marc des Carrières
Dominion Lime Ltd.	Lime Ridge	Lime Ridge
Durocher, Cyrille	11021 Notre Dame E. Montreal	Montreal East
Eastern Quarries Co.	1043 Blvd. des Forges, Three Rivers	Portneuf
Filion, Aldege	Lachute	Lachute
Fiset, Eliodore	St. Marc des Carrières	St. Alban
Fortin, Camille	Chambord Junction	Lac St. Jean
Fuger & Smith Ltd.	78 Victoria Ave., Pointe Claire	Pointe Claire
Gagné, Octave	St. Ulric	St. Ulric
Gagnon & Leclerc	St. Joachim	St. Joachim
Gaspesian Fertilizer Co.	Port Daniel E.	Port Daniel E.
Gauthier, J. O. (x)	St. Marc des Carrières	St. Marc des Carrières
Gingras & Frere Ltée	St. Marc des Carrières	St. Marc des Carrières
		Portneuf
Goulet, Sarto	242 Blvd. Benoit XV, Quebec	Trinity Bay
Gosselin, Alphonse	St. Laurent	St. Laurent
Hargate Quarries Limited	Cap St. Martin	Laval Co.
Kennedy Construction Co. Ltd.	407 McGill St., Montreal	Actonvale
Laberge & Marchand Enrg.	Chateaguay	Chateaguay
Lagace Quarry	130 Blvd. Labelle, L'Abord-a-Plouffe	L'Abord-a-Plouffe
Lakeshore Construction Co. Ltd.	137 Cartier Ave., Pointe Claire	Pointe Claire
Landry, J. P. A.	St. André, Metapedia	St. André
Langlois, Adjutor	St. Marc des Carrières	St. Marc des Carrières
Larouche, J. B.	Baie St. Paul	Baie St. Paul
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, La Cie de Pierre de Taille Ltée (x)		
McDonald, R. & Co. Ltd.	Box 10, Rosemont, Montreal	Pont Viau
Mercure, Camille	2020 Union Ave., Montreal	Wakefield
Miner, R. H. Co. Ltd.	555 - 16th Ave., St. Hyacinthe	St. Dominique de Bagot
	Room 719, Sun Life Bldg., Montreal	Belanger Village
Ministère de la Voirie	Quebec	St. Laurent
		St. Charles de Bellechasse
Montreal Cut Stone Co. (x)	1869 rue St. Andre, Montreal	St. François de Sales
Montreal Quarry & Cut Stone Co.	2020 Union Ave., Montreal	St. Michel
National Quarries Ltd.	6301 Park Ave., Montreal	Laval Co.
Paquette, Levis	Cap St. Martin	Cap St. Martin
Pelletier, Jos. E.	Ste. Anne des Monts	Gaspé N.
Pulverized Products Ltd.	4820 Fourth Ave., Rosemount	St. Armand

Directory of the Stone Quarrying Industry, 1946 (Continued)

Name	Head Office Address	Location
<u>Limestone (Continued)</u>		
<u>Quebec (Concluded)</u>		
Rioux, Raul & Maurice	Cowansville	Cowansville
Roberval Construction, Ltée	Roberval	Roberval
St. Francis Rock Products & Equipment Ltd.	St. Laurent	St. Laurent
St. Laurent Stone Products & Supplies Ltd.	St. Laurent	St. Laurent
Salaberry de Valleyfield, La Cité	Valleyfield	Valleyfield
Shawinigan Chemicals Ltd.	Montreal	Bedford
Standard Lime Co. Ltd.	Joliette	St. Paul de Joliette
Syndicat Co-opératif de la Carrière de Ferme Neuve	Ferme Neuve	Ferme Neuve
Syndicat de Broyage de Lévis	St. Joseph de Lévis	St. Joseph de Lévis
Tanguay & Royer Enrg.	Ste. Justine	Ste. Justine
Trappe de N.D. de Mistassini, La	La Village des Pères (Roberval)	Mistassini
Tremblay, Napoleon	31 rue Joffre, Hull	Hull
Tremblay, Wellie	Ste. Anne de Chicoutimi	Canton Tremblay
Turcotte & Asselin	370 Dorchester St., Quebec	Chateau Richer
Union des Carrières & Pavages Ltée	48 Second Ave., Quebec	Charlesbourg
Varin, Joseph	3275 Chemin St. Michel, St. Michel	St. Michel
Verreault, Elz. Ltée	194 du Pont, Quebec	Gifford
Viau, Paul	340 Blvd. du Havre, Valleyfield	Grande Isle
<u>Ontario -</u>		
Abitibi Power & Paper Co. Ltd.	408 University Ave., Toronto	Bucke Tp.
Bonter Marble & Calcium Co. Ltd.	Box 61, Marmora	Marmora
Bonter, W. F.	Malone	Malone
Brunner Mond Canada Ltd.	Canadian Bank of Commerce Bldg., Toronto	Anderson Tp.
Canada Cement Co. Ltd.	Box 290, Montreal, Que.	Belleville
Canada Crushed Stone Ltd.	72 Sun Life Bldg., Hamilton	Dundas
Carleton Lime Products Co.	Box 26, Carleton Place	Hagersville
Chemical Lime Ltd.	Beachville	Ramsay Tp.
Chem-Ore Mines Ltd.	156 Yonge St., Toronto	Beachville
Cook, J. S. Stone Quarries (x)	Warton	Bobcaygeon
Gypsum, Lime & Alabastrine, Canada, Ltd.	Paris	Amabel Tp.
Hagersville Quarries Ltd.	Hagersville	Beachville
Haldimand Quarries & Construction Ltd.	137 Wellington St. W., Toronto	Hespeler
Kingston Penitentiary	Box 22, Kingston	Hagersville
Kirkfield Crushed Stone Ltd.	2700 Dufferin St., Toronto	Hagersville
Lapierre, M. C.	1949 - 8th Ave., E., Owen Sound	Kingston
Law, R. E. Crushed Stone Ltd.	Port Colborne	Kirkfield
Limestone Products Ltd.	1109 Millwood Rd., Toronto	Owen Sound
Marlhill Mines Ltd.	Thorold	Port Colborne
McDonald, A. G.	Bronte	N. Orillia Tp.
McGinnis & O'Connor	394 King St., Kingston	Marlbank
Mica & Stone Products	Bancroft	Lake Ontario
Mitchell, William	Limehouse	Pittsburg Tp.
North American Cyanamid Ltd.	Niagara Falls	Bancroft
Ontario Rock Co. Ltd.	2 College St., Toronto	Limehouse
Pembroke, Town of	Pembroke	Ingersoll
Queenston Quarries Ltd. (x)	72 Sun Life Bldg., Hamilton	Belmont Tp.
Verona Rock Products Ltd.	Verona	Pembroke
Walker Bros.	Box 586, Thorold	St. David
Wahman, John	578 Division St., Kingston	Verona
Welland Crushed Stone & Building Co.	R. R. 2, Niagara Falls	Stamford Tp.
		Stamford Tp.

Directory of the Stone Quarrying Industry, 1946 (Continued)

Name	Head Office Address	Location
<u>Limestone (Concluded)</u>		
<u>Manitoba -</u>		
Building Products & Coal Co. Ltd.	111 Christie St., Winnipeg	Inwood
Gillis Quarries Ltd.	Richard & Spruce Streets, Winnipeg	Garson
Tyndall Quarry Co. Ltd. (x)	1591 Erin St., Winnipeg	Garson
Winnipeg, City of	223 James Ave., Winnipeg	Stoney Mountain
Winnipeg Supply & Fuel Co. Ltd.	812 Boyd Bldg., Winnipeg	Moosehorn
		Stonewall
<u>Alberta -</u>		
Errico, M.	Cadomin	Cadomin
Loder's Lime Co. Ltd.	Kananaskis, Ershaw P.O.	Kananaskis
Summit Lime Works Ltd.	Box 273, Lethbridge	Lethbridge
<u>British Columbia -</u>		
Agassiz Lime Quarry	Box 178, Agassiz	New Westminster M.D.
Beale Quarries Ltd.	744 West Hastings St., Vancouver	Van Anda
British Columbia Department of Highways	Victoria	Various
Canadian Pacific Railway Co.	Montreal, Quebec	Golden M.D.
Consolidated Mining & Smelting Company of Canada Ltd.	Trail	Grand Forks
Cutter, Hiram & Ethel	Agassiz	Agassiz
Fernie, City of	Fernie	Fernie
Koeys Limestone Co.	Namu	Koeys River
Pacific Lime Co. Ltd.	602 Pacific Bldg., Vancouver	Blubber Bay
<u>Marble</u>		
<u>Quebec -</u>		
Canadian Dolomite Co.	Portage du Fort	Portage du Fort
MAB Ltée	77 Grenazie, Quebec	St. Joseph de Beauce
Missisquoi Stone & Marble Co. Ltd. (x)	Philipsburg	Philipsburg
Orford Marble Co. Ltd. (x)	65 Beaudet, St. Laurent	St. Laurent
Pulverized Products Ltd.	4820 - 4th Avenue, Rosemount, Montreal 36	St. Armand
<u>Ontario -</u>		
Silvertone Black Marble Quarries Ltd.	328 Waverley St., Ottawa	St. Albert
Stockloser, K. & Son	Madoc	Madoc
White Star Mines	Haliburton	Eagle Lake
<u>British Columbia -</u>		
Marble & Associated Products	507 Ellice St., Victoria	Malahat
<u>Sandstone</u>		
<u>Nova Scotia -</u>		
Arsenault, F. W.	Antigonish	North Grant
Department of Highways	Halifax	Halifax
Dillman Bros.	Admiral Rock	Hants Co.
Fairview Crushed Stone Ltd. (x)	637A Gottingen St., Halifax	Halifax
Wallace Quarries Ltd.	Wallace	Wallace
<u>New Brunswick -</u>		
Read Stone Company Ltd. (x)	Sackville	Stonehaven
Smith, E. A. (x)	Shediac	Shediac
<u>Quebec -</u>		
Bissonnette, Alfred	Ville St. Laurent, Montreal	Montebello
Blaiss, Joseph	32 Mont-Marie Ave., Lévis	St. Romuald
Cote & Forbes	Matane	Matane

Directory of the Stone Quarrying Industry, 1946 (Concluded)

Name	Head Office Address	Location
<u>Sandstone (Concluded)</u>		
<u>Quebec (Concluded)</u>		
Gagnon, L. P.	St. David de Lévis	St. David de Lévis
Peel Construction Co. Ltd.	Brampton	Trois Pistoles
Rousseau, T. E.	105 Cote de la Montagne, Quebec	New Carlisle
Sherbrooke, City of	Sherbrooke	Sherbrooke
Simard, Adjutor	Pointe-au-Pic	Pointe-au-Pic
Vezina, Joseph	St. Foy	St. Foy
<u>Ontario -</u>		
Austin Corner	Belfountain	Inglewood
Campbell Sandstone Quarries Ltd. (x)	Box C19, Westboro	Bells Corners
Kingston Silica Mines Ltd.	R.R.6, Kingston	Kingston
Mather, E.	Glen Williams	Halton
McHarg, B.	Georgetown	Georgetown
Mountain Sandstone Quarry	Box 307, Georgetown	Inglewood
Norton, A. W.	Limehouse	Limehouse
Sinfield, E. W.	Cheltenham	Terra Cotta
Sykes Quarries	Young St., Georgetown	Glen Williams
<u>British Columbia -</u>		
Consolidated Mining & Smelting Co. of Canada Ltd.	Trail	Kimberley
<u>Slate</u>		
<u>Quebec -</u>		
Bombardier, Geo.	Kingsbury	Richmond
Thermo Coal Compound	7465 St. Denis, Montreal	Granby
Williamson & Crombie	Kingsbury	Kingsbury
<u>British Columbia -</u>		
Brown, O. M.	1903 Lansdowne Rd., Victoria	Leachtown

- - - - -

2. SECONDARY PRODUCTION--THE STONE PRODUCTS INDUSTRY, 1946

In 1946 there were 147 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. Nine producers of rock wool were also included in this industry.

Output from this industry was valued at \$9,063,895 in 1946, an increase of 74.3 percent over the total of \$5,199,120 reported for the previous year. The 60 works in Ontario accounted for 61.5 percent of the total output and the 43 plants in Quebec for 21.7 percent. The average number of employees was 1,541 who were paid \$2,643,298 in salaries and wages. Materials used in the cutting and dressing processes, including stone, cost \$2,906,528. The latter figure also includes the cost of materials used in the production of rock wool. Expenditures for fuel and electricity amounted to \$293,538.

Table 16 - PRINCIPAL STATISTICS OF THE STONE PRODUCTS INDUSTRY, 1937-1946

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
			\$	\$	\$	\$
1937	229	1,159	1,352,566	122,209	1,142,885	3,371,242
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
Percent change						
1946 from 1945.	...	+46.1	+58.7	+49.2	+70.3	+74.3

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, 1945 and 1946

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
			\$	\$	\$	\$
1945						
Prince Edward Island	1)					
New Brunswick	6)	65	98,707	12,770	77,191	306,671
Nova Scotia	6	31	38,406	4,201	36,708	127,223
Quebec	39	286	433,895	53,261	488,045	1,297,007
Ontario	62	513	850,689	106,830	915,879	2,823,793
Manitoba	8	36	54,834	4,701	41,388	122,821
Saskatchewan	7	48	71,599	6,926	63,883	189,260
Alberta	5	43	63,136	4,708	54,162	196,124
British Columbia ...	10	33	54,327	3,306	29,343	136,221
CANADA	144	1,055	1,665,593	196,703	1,706,599	5,199,120
1946						
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 18 - EMPLOYEES, SALARIES AND WAGES IN THE STONE PRODUCTS INDUSTRY, BY PROVINCES, 1945 and 1946

Province	Average Number of Employees					Salaries	Wages	Total Salaries and Wages
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
1945								
Prince Edward Island)	9	2	48	6	65	\$ 18,703	\$ 80,004	\$ 98,707
New Brunswick	7	2	22	...	31	10,464	27,942	38,406
Nova Scotia	65	8	202	11	286	118,113	315,782	433,895
Quebec	106	21	371	15	513	267,757	582,932	850,689
Ontario	13	1	21	1	36	24,010	30,824	54,834
Manitoba	10	3	31	4	48	28,011	43,588	71,599
Saskatchewan	10	9	22	2	43	27,918	35,218	63,136
Alberta	14	1	18	...	33	22,850	31,477	54,327
British Columbia ...	234	47	735	39	1,055	517,826	1,147,767	1,665,593
CANADA								

Table 18 - EMPLOYEES, SALARIES AND WAGES IN THE STONE PRODUCTS INDUSTRY, BY PROVINCES, 1945 and 1946
(Concluded)

Province	Average Number of Employees					Salaries	Wages	Total Salaries and Wages
	On Salaries		On Wages		Total			
	Male	Female	Male	Female				
1 9 4 6						\$	\$	\$
Prince Edward Island)	7	2	30	1	40	17,323	44,839	62,162
New Brunswick	11	5	65	7	88	22,679	89,817	112,496
Nova Scotia	76	8	348	...	432	140,152	652,163	792,315
Quebec	132	20	620	5	777	360,256	1,013,836	1,374,092
Ontario	15	3	29	2	49	26,626	31,092	57,718
Manitoba	11	5	44	1	61	31,515	62,028	93,543
Saskatchewan	10	9	30	2	51	32,910	48,617	81,527
Alberta	16	1	26	...	43	25,296	44,149	69,445
British Columbia ...								
CANADA	278	53	1,192	18	1,541	656,757	1,986,541	2,643,298

Table 19 - WAGE-EARNERS, BY MONTHS, IN THE STONE PRODUCTS INDUSTRY, 1945 and 1946 (Number on payroll on the last work day of each month)

Month	1 9 4 5			1 9 4 6		
	Male	Female	Total	Male	Female	Total
January	646	48	694	883	13	896
February	662	47	709	892	13	905
March	612	39	651	922	15	937
April	624	31	655	1,031	14	1,045
May	635	35	670	1,129	16	1,145
June	698	35	733	1,170	10	1,180
July	740	38	778	1,291	17	1,308
August	756	41	797	1,320	21	1,341
September	800	42	842	1,386	24	1,410
October	856	30	886	1,407	16	1,423
November	886	32	918	1,416	21	1,437
December	835	31	866	1,391	18	1,409
AVERAGE	735	39	774	1,192	18	1,210

Table 20 - FUEL AND ELECTRICITY USED IN THE STONE PRODUCTS INDUSTRY, 1945 and 1946

Kind	Unit of measure	1 9 4 5		1 9 4 6	
		Quantity	Cost at works	Quantity	Cost at works
			\$		\$
Bituminous coal - Canadian ..	ton	1,228	11,732	1,858	17,455
Imported ..	ton	4,232	39,014	2,695	25,453
Anthracite coal	ton	1,934	18,485	2,676	24,163
Lignite coal	ton	13	90	25	193
Coke	ton	206	2,844	141	1,957
Gasoline	Imp. gal.	50,077	16,167	164,443	45,215
Kerosene or coal oil	Imp. gal.	8	2	503	141
Fuel oil	Imp. gal.	145,464	14,942	633,242	51,623
Wood	cord	192	1,864	222	2,310
Gas - Manufactured	M cu. ft.	258	258	166	164
Natural	M cu. ft.	1,449	649	1,355	717
Other fuel .....	...	...	89	...	80
Electricity purchased	K.W.H.	7,422,679	90,567	9,633,688	124,067
TOTAL .....	...	...	196,703	...	293,538

Table 21 - POWER EQUIPMENT IN THE STONE PRODUCTS INDUSTRY, 1945 and 1946

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
1 9 4 5				
Steam engines and steam turbines	2	210	...	...
Diesel engines	2	84	2	116
Gasoline, gas and oil engines (other than diesel)	12	227	1	6
Hydraulic turbines or water wheels	1	20	...	...
Total Primary Equipment	17	541	3	122
Electric motors run by purchased power ..	625	6,847	41	635
TOTAL	642	7,388	44	757
Stationary power boilers	5	504	...	...
Motor generator sets	12	480	6	285

Table 21 - POWER EQUIPMENT IN THE STONE PRODUCTS INDUSTRY, 1945 and 1946 (Concluded)

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
1 9 4 6				
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	450 k.v.a.	6	285 k.v.a.

Table 22 - COST OF MATERIALS USED IN THE STONE PRODUCTS INDUSTRY, 1945 and 1946

	Cost at Works	
	1 9 4 5	1 9 4 6
Stone - (a) From Canadian quarries	\$ 522,878	\$ 770,620
(b) Imported	264,784	528,673
Monuments, cut and polished, for lettering only	135,977	173,217
Silica sand or ground quartz	7,379	8,791
Slag and stone for rock wool	160,500	290,139
Coke for rock wool	114,382	238,442
All other materials	500,699	896,646
TOTAL	1,706,599	2,906,528

Table 23 - OUTPUT OF THE STONE PRODUCTS INDUSTRY, 1945 and 1946

Product	Total Selling Value at Works	
	1 9 4 5	1 9 4 6
Granite, cut and polished -	\$	\$
(a) Monuments	2,183,799	2,855,781
(b) For building purposes	58,829	117,656
Marble, cut and polished -		
(a) Monuments	317,197	401,197
(b) For building purposes	132,498	169,759
Marble chips and dust	24,826	27,464
Limestone -		
(a) Monuments and bases	48,715	63,047
(b) For building purposes	290,618	909,370
Finished monuments, lettered only	219,483	337,710
Other products (x)	1,858,102	4,120,068
Repairs and custom work (re-lettering, etc.)	65,053	61,843
TOTAL	5,199,120	9,063,895

(x) Includes rock wool, etc.

Table 24 - PRODUCTION FROM THE STONE PRODUCTS INDUSTRY, BY PROVINCES, 1945 and 1946

Table 27 - Production from the Stone Process Industry, by Province, 1945 and 1946										
Granite			Marble		Marble chips and dust	Limestone		Finished monuments, lettered only	Other products	Total
Monu-ments	For building purposes	Monu-ments	For building purposes	Monu-ments and bases		For building purposes				
(Dollars)										
Prince Edward Island and New Brunswick -										
1945	115,497	...	20,121	...	...	...	...	2,265	168,788	306,671
1946	138,371	...	21,255	...	50	...	...	2,360	805	162,841
Nova Scotia -										
1945	46,402	6,000	29,241	3,460	...	...	...	41,325	795	127,223
1946	64,940	1,930	32,836	...	...	...	...	32,376	285,711	417,793
Quebec -										
1945	759,186	39,367	11,243	47,932	5,178	400	770	13,309	419,622	1,297,007
1946	1,032,244	65,403	8,915	65,531	...	8,123	266,076	23,366	495,503	1,965,161

Table 24 - PRODUCTION FROM THE STONE PRODUCTS INDUSTRY, BY PROVINCES, 1945 and 1946 (Concluded)

Table 24 - PRODUCTION FROM THE STONE PROCESSING INDUSTRY, BY PROVINCES, 1945 and 1946 (continued)											
		Granite		Marble		Marble chips and dust	Limestone		Finished monuments, lettered only	Other products	Total
		Monu-ments	For building purposes	Monu-ments	For building purposes		Monu-ments and bases	For building purposes			
(Dollars)											
Ontario -											
1945	....	928,194	6,500	166,747	54,184	1,500	29,725	289,543	70,294	1,277,106	2,823,793
1946	....	1,214,413	33,941	208,126	74,298	137	28,000	642,739	93,518	3,284,915	5,580,087
Manitoba -											
1945	....	61,218	2,122	12,095	14,064	8	2,340	225	29,881	868	122,821
1946	....	68,452	3,762	25,563	8,905	323	445	135	46,201	2,396	156,182
Saskatchewan -											
1945	....	79,185	4,500	41,438	5,300	590	13,830	...	5,595	38,822	189,260
1946	....	108,919	11,420	48,325	5,800	1,429	22,375	90	5,654	102,993	307,005
Alberta -											
1945	....	85,087	...	35,498	...	17,550	2,420	...	47,580	7,989	196,124
1946	....	144,239	...	54,167	...	25,425	4,104	...	69,500	4,392	301,827
British Columbia -											
1945	....	109,030	340	814	7,558	...	...	80	9,234	9,165	136,221
1946	....	84,203	1,200	2,010	15,225	100	...	330	64,735	5,196	172,999
CANADA -											
1945	....	2,183,799	58,829	317,197	132,498	24,826	48,715	290,618	219,483	1,923,155	5,199,120
1946	....	2,855,781	117,656	401,197	169,759	27,464	63,047	909,370	337,710	4,181,911	9,063,895

Table 25 - TOTAL PRODUCTION IN CANADA OF DRESSED BUILDING STONE, 1937-1946

Table 25 - TOTAL PRODUCTION IN CANADA OF DRESSED BUILDING STONE, 1937-1946								
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)							
1937	252,346	179,557	18,297	347,405	248,659	438,450	51,893	1,536,607
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

Table 26 - TOTAL PRODUCTION IN CANADA OF DRESSED MONUMENTAL AND ORNAMENTAL STONE, 1937-1946

TABLE 35.—TOTAL PRODUCTION IN QUARRIES OF GRANITE, MARBLE, AND LIMESTONE, 1937-1946								
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)								
1937	278,140	1,468,895	(x) 900	176,101	2,335	117,404	...	1,983,775
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

(x) Sandstone

Table 27 - PRODUCTION IN CANADA AND IMPORTS OF ROCK WOOL, 1937-1946

Year	Production		Imports	
	\$	Pounds	\$	
1937	346,460	2,030,144	81,050	
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	

Table 28 - PRODUCTION OF ROCK WOOL IN CANADA, BY GRADES, 1946

		Quantity	Selling Value at works
4-inch batts	sq. ft.	1,228,908	61,405
3-inch batts	sq. ft.	17,749,245	729,938
2-inch batts	sq. ft.	34,538,438	980,395
1-inch batts	sq. ft.	1,299,020	28,413
Granulated	cu. ft.	8,995,090	1,929,655
Bulk or loose wool	cu. ft.	1,142,984	212,499
Industrial wool (both loose and granulated)	cu. ft.	877,662	155,794
TOTAL .....	...	...	4,098,099

Table 29 - SALES OF ROCK WOOL BY CANADIAN PRODUCERS, 1945 and 1946

	Four inch batts	Three inch batts	Two inch batts	One inch batts	Granu- lated wool	Bulk or loose wool	Indus- trial wool
	Sq. ft.	Sq. ft.	Sq. ft.	Sq. ft.	Cu. ft.	Cu. ft.	Cu. ft.
<u>1945</u>							
January		1,432,465	1,713,680	129,119	359,365	50,632	34,854
February		1,012,810	1,478,400	83,040	308,230	32,910	42,930
March		1,179,655	1,494,375	119,606	333,558	39,566	48,231
April		1,026,320	1,315,225	51,317	343,222	52,875	37,842
May		1,060,108	1,405,315	48,360	322,498	47,382	17,840
June	(x)	1,185,460	1,555,945	62,760	413,174	50,528	18,327
July		1,013,000	1,578,200	25,230	398,258	20,456	31,532
August		904,000	1,465,435	95,400	409,033	63,976	37,530
September		1,003,575	1,927,435	108,720	393,463	44,021	38,670
October		1,181,305	1,949,960	211,940	454,003	61,510	41,533
November		932,685	1,968,220	517,160	445,463	52,406	47,185
December		624,770	1,475,850	296,960	469,992	35,713	44,422
TOTAL		12,556,133	19,328,040	1,749,612	4,650,259	551,975	440,896
<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	2,497,320	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

(x) Included in figures for 3-inch batts.

PRODUCERS OF ROCK WOOL, 1946

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

DIRECTORY OF FIRMS IN THE STONE PRODUCTS INDUSTRY, 1946

Name of Company	Location of Plant
<u>Prince Edward Island -</u>	
Beck, Vers & Son	Main St., Montague
<u>Nova Scotia -</u>	
Coughlan, James S., Marble and Granite Works	Simpson's Siding, Halifax
Elmac Co., The	Box 130, Amherst
Kelly Monumental Works	Bridgewater
Nictaux Granite Canada Limited	Middleton
Nixon's Granite Works	R. R. 3, Middleton
Steele, John D., & Sons	Commercial St., North Sydney
Tingley, Harold W.	13 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	Rothessay Ave., Saint John
<u>Quebec -</u>	
Anco Granites Limited	72 Fifth Ave., Iberville
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, 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
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.
Gosselin, Oscar	Rue Maisonneuve, Megantic

Directory of Firms in the Stone Products Industry, 1946, (Continued)

Name of Company	Location of Plant
<u>Quebec (Concluded)</u>	
Houde & Frere Enrg.	404 Notre Dame, Cap de la Madeleine
Jacques, André	20 Desjardins St., Lévis
Jeune, E. H.	Sutton
La Cie de Pierre de Taille Martineau Ltée	5000 - 13th Avenue, Rosemont, Montreal
Laforce, H. & Fils, Enrg.	1327 St. Valier, Quebec
Liben, A.M.	12 Bagg Ave., Montreal
Parent, G. H.	349 rue Montigny, St. Jerome
Picard, Wilfred	3285 Desautels, Montreal
Provost, J. A.	187 Belmont, Sherbrooke
Quebec Granite & Marble Reg'd	7877 Chateaubriand, Montreal
Quinlan, Harold Cut Stone Ltd.	Wanklyn St., Ville La Salle
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
St. Louis & Fils	Cap St. Martin
Thuot & Denicourt	87 Fourth St., Iberville
Todoro & Bigras	Sherbrooke E., Montreal
Vincent, Chas. A., & Sons	5731 St. Denis St., Montreal
<u>Ontario -</u>	
Angers, B. & Son	140 Montreal Rd., Eastview
Ambroise Monuments	48 Alma St., Guelph
Ambroise, J. D.	Montreal Road, Eastview
Bayview Memorial Co.	Willow Cove
Brown, Geo., & Sons	473 Bronson Ave., Ottawa
Campbell, A. C.	21 Bridge St. W., Belleville
Canadian Art Memorials	Joseph St., Port Credit
Canadian Cut Stone Co. (Louis H. Gavard)	7 Isabella St., Ottawa
Canadian Gypsum Co. Limited	Oak St., Weston
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
Gypsum, Lime and Alabastine, Canada, Limited	Caledonia
Hardwick, H. G., & Son	676 King St. W., Hamilton
Hargrave's Monumental Works	Haileybury,
Humberstone Cut Stone and Monument Works	590 King St., Humberstone
Insulation Products Ltd.	Beechwood Drive, Toronto 6
Johnston & Cranston	1849 Yonge St., Toronto
Kilvington Granite Company	2A Caledonia Rd., Toronto
Kingsway Monument Works	3673 Dundas St., Toronto
Kitchener Monument Works	1015 King St. E., Kitchener
Laurin, J. P.	95 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
Ontario Marble Co. Ltd.	Maria St., Peterborough
Orillia Monument Co.	252 Coldwater Rd. W., Orillia
Patterson & Cornelius	428 Queenston Rd., St. Catharines
Pollock & Ingham	151 Main St., Galt
Rhodes Memorials Ltd.	Box 61, Cayuga
Riggs Memorial Works	605 Queen St., Niagara Falls

Directory of Firms in the Stone Products Industry, 1946 (Concluded)

Name of Company	Location of Plant
<u>Ontario - (Concluded)</u>	
The Ritchie Cut Stone Co., Ltd.	203 New Toronto St., New Toronto
Rivercourt Memorials	296 O'Connor Drive, Toronto
Ronald, Wellington	Listowel
Sanderson, J. R., Marble Co.	33 Peter St. S., Orillia
Sault Granite & Marble Works	715 Queen St. E., Sault Ste. Marie
Sinclair Cut Stone	Frid St., Hamilton
Sharp Bros. Cut Stone Company Limited	516 Kenilworth St. N., Hamilton
Skelton, E. J., & Son	Yonge St., Walkerton
Smith Monument Works	1539 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
Strathroy Granite & Marble Co. Ltd.	Strathroy
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
<u>Manitoba -</u>	
Brooke, J. H. & Sons	266 Main St., Winnipeg
Brunet, Joseph O.	26 Lyndale Drive, Norwood
Cassan Monumental Co.	1417 Rosser Ave., Brandon
Guinn & Simpson Company Limited	52 Tupper St. N., Portage la Prairie
Hooper's Memorial Co.	481 Notre Dame Ave., Winnipeg
MacIntyre, A. L.	361 Bannatyne Ave., Winnipeg
Memorial Marble & Tile Co. Ltd.	1180 Wall St., Winnipeg
Neepawa Marble & Granite Works	Neepawa
Somerville Marble & Granite Works	1417 Rosser Ave., Brandon
<u>Saskatchewan -</u>	
Best Monumental Co.	721 Caribou St. W., Moose Jaw
Glacial Rock Insulation Ltd.	Township 17, Moose Jaw
Molaro Marble & Stone Works	23 St. & 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
<u>Alberta -</u>	
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
<u>British Columbia -</u>	
Art Monument Co. Ltd.	609 East 16th Ave., Vancouver
Burnaby Monumental Works	2655 Patterson Ave., Burnaby
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

1



STATISTICS CANADA LIBRARY
BIBLIOTHEQUE STATISTIQUE CANADA



1010522853