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# CANADA

# DOMINION BUREAU OF STATISTICS

+ + + Census of Industry + + +

MINING, METALLURGICAL & CHEMICAL STATISTICS

# THE

# STONE INDUSTRY

IN

# CANADA

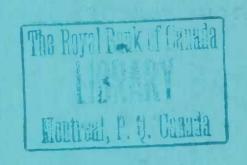
# 1945

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



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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, 1945

The Stone Industry in Canada comprises two main divisions: 1. The Stone quarrying Industry, including quarries and dressing works operated in conjunction with quarries, and 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 \$11,472,518, 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 1945 numbered 3,209, and their combined earnings amounted to \$4,780,240.

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 1945 amounted to \$8,166,700, compared with \$7,159,177 in 1944. The tonnage shipped in 1945 included 221,630 tons of granite (igneous rock) valued at \$1,284,748; 5,677,192 tons of limestone valued at \$6,284,379; 13,388 tons of marble valued at \$113,337; 291,430 tons of sandstone valued at \$466,397 and 1,915 tons of slate valued at \$17,839. Quarries in Quebec contributed 47.8 percent of the total value in 1945; Ontario accounted for 35.7 percent; British Columbia for 5.7 percent; New Brunswick for 4.6 percent; Nova Scotia for 4.3 percent; Manitoba for 1.1 percent and Alberta for 0.8 percent.

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Table 1 - Principal Statistics of the Stone Quarrying Industry in Canada, 1943-1945

	1943	1944	1945
0.0	407	405	361
umber of firms			
apital employed	10,954,939	(x)	(x)
umber of employees - On salary	320	255	242
On wages	2,153	1,909	1,912
Total	2,473	2,164	2,154
alaries and wages - Salaries \$	484,990	441,257	412,711
Wages \$	3,044,765	2,713,432	2,701,936
Total \$	3,529,755	3,154,689	3,114,647
elling value of products (Gross) \$	7,964,179	7,159,177	8,166,700
ost of fuel and electricity \$	678,409	671,056	711,111
rocess supplies used	855,218	826,824	740,604
elling value of products (Net) \$	6,430,552	5,661,297	6,714,985

(x) Not recorded in 1944 or 1945.

Table 2 - Principal Statistics of the Stone Quarrying Industry, By Provinces, 1944 and 1945

Province	Number of quarries	Average number of em- ployees	Salaries and wages	Cost of fuel and electricity	Process supplies	Gross value of production
				\$	*	\$
1944						
Nova Scotia	39	57	56,132	12,871	7,700	225,113
New Brunswick	8	84	113,390	20,634	9,074	244, 187
Quebec	151	1,260	1,642,193	354,877	492,990	3,334,811
Ontario	189	641	1,165,191	255, 249	304,971	2,909,980
Manitoba	7	16	15,464	4,386	2,181	53,554
Saskatchewan		***				
Alberta	2					43,049
British Columbia	70	106	162,319	23,039	9,908	348,483
Canada	466	2,164	3,154,689	671,056	826,824	7,159,177
1945	D.C.	100	22 OB:	19 450	0.000	215 120
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

Table 3 - Average Number of Wage-Earners, By Months, 1944 and 1945

		1 9	4 4			1 9	4 5	
Month	Quarry		Dressi	Morks	gue	rry	Dressing Works	
	Male	Female	Male	Female	Male	Female	Male	Femel
January	1,143	1	255	5	990	1	263	3
February	1,160	1	242	5	990	1	264	13
March	1,190	1	239	5	1,076	1	315	3
April	1,415	1	268	5	1,353	1	293	3
May	1,753	2	313	5	1,717	1	323	3
June	1,957	4	345	5	1,810	1	331	3
July	1,936	4	364	5	1,837	1	369	3
August	1,943	4	330	5	1,915	1	346	3
September	1,869	4	336	5	1,943	1	341	3
October	1,789	4	344	5	1,994	1	386	3
November	1,609	2	354	5	1,719	1	382	3
December	1,242	1	320	5	1,316	1	373	3
Average	1,590	3	311	5	1.572	1	336	3

Hours	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada
				(Numb	per)			
30 hours or less		4	103	28	1		7	143
31-43 hours	1	9	163	33	11		9	226
44 hours	1	1	80	33	4		11	130
45-47 hours	3	2	90	28	1		2	126
48 hours	1	30	269	26			43	369
49-50 hours	2	8	112	103			1	226
51-54 hours	12	21	153	48	7		15	256
55 hours		8	107	50	***		4	169
56-64 hours	49	6	436	197	7		1	696
65 hours and over	2	3	120	50			14	189
Total	71	92	1,633(x)	596	31		107	2,530(x
Total wages paid in								
selected week: Male \$	1,935	2,332	55, 265	19,885	1,432		4,047	34,896
Female 1			977					0.77

selected week: Ma	ale \$ 1,9	35 2,3	332	55, 265	19,885	1,432		4,047 8	34,896
Fe	emale \$ .			97					97
(x) Includes 3 fema	les.						1111111111111		
Teble 5 - Fuel and	Electricity	The second name of the last of							
10.	Unit of	Nova Sc		New Bru		Que		Onte	
Kind	measure	Quantity	Cost at	Quantity	Cost at	Quantity	Cost at	Quantity	Cost at
		-	works	-	works	emmor of	works	Quantit of	works
Diaminous sool			\$		\$		*		*
Bituminous coal -	ahamt tan	3 770	1 000	0.7	0.00	0.445	07 000	244	0 880
Canadian	short ton	130	1,062	21	220	2,447	27,209	744	9,778
Imported	short ton		* * *	3	63	2,313	23,763	7,328	63,142
Anthracite coal .	short ton		***		* * *	17	279	3	51
Lignite coal	short ton	***			• • •	477		***	400
Gasoline		10 400	5 050	10 300	0 405	47	654	34	426
	Imp. gal.	18,498	5,056	10,189	2,465	432,329	132, 469	200,072	58,479
Kerosene	Imp. gal.	7 500	40.4	0 500	# P +	19,325	5,864	326	50
Fuel oil	Imp. gal.	3,568	404	2,500	300	241,614	35,720	170,301	14,565
Wood	cord	21	126	85	640	486	3,205	364	1,831
Gas: Natural	M cu. ft.			0 0 4			* * *	2,746	1,992
Other fuel						***	* * *		
Electricity pur-	K.W.H.	270 250	5 909	304 700	2 410	0 000 011	300 500	30 400 707	330 000
chased		270,250	5,802	104,300	3,418	8,973,711	177,532	12,402,393	119,097
Total	* * *	100	12,450	***	7,106	* * *	406,695	771	269,411
Electricity gener- ated for own use	K.W.H.							440 100	
aced for own dae	D. Walls	* * *	***	0.0.0	***		***	448,100	***
		Manit	nhe	Albe	wt a	British	Columbia	CAN	ADA
Bituminous coal -		- AGILA (	.000	ALUG	160	DITCIBLE	COLUMNIA	CAN	N D A
Canadian	short ton	12	186			73	603	3,427	39,058
Imported	short ton	0 0 0	100	* * *	* * *			9,644	
Anthracite coal .	short ton	43	648			• • •		63	86,968 978
Lignite coal	Shore ton	10	040				***		
Coke	short ton	• • • •						81	1,080
Gasoline	Imp. gal.	1,350	472		* * *	17,082	4,773	679,520	203,714
	Imp. gal.	1,540	570	* * *		2,120	436		
Kerosene					***			23,311	6,920
Wood	Imp. gal.	18	140		***	26,436	2,461	444,419	53,450
Gas: Natural	M cu. ft.			***	• • •				6,069
Other fuel		* * *		- 0 0	***		* * *	2,746	1,992
Electricity pur-			* * *			***	• • •	* * *	
	K.W.H.	179 900	3 976			47, 230	1,057	21,930,684	330 000
chased		132,800	3,976 5,992	(x)	(x)		9,457		310,882 711,111
Electricity gener-	* * *		0,000	(4)	14/		3,407	* * * *	144,444
ated for own use	K.W.H.							448,100	
(x) Not available.	Il. o Holle	* * *	***	***		* * 1	***	440,100	* * *
(x) NOU avaitable.									

Table 6 - Power Equipment, 1945

	Ordi	narily in Use	In Re	serve or Idle
	Number of units	Total h.p. (according to manufacturers' rating)	Number of units	Total h.p. (according to manufacturers' rating)
Steam engines	36	1,636	7	345
Steam turbines	1	2	1	2
Diesel engines	56	4,493	1	75
Gasoline, gas and oil engines other than diesel	180	6,329	13	505
Hydraulic turbines or water wheels	9	344	4	150
Electric motors run by purchased power	872	24,467	116	4,681
Electric motors run by own power	34	1,104	5 4 9	
Stationary boilers	33	1,688	2	65
Motor generator sets			1	16

Province		Granite	Limestone	Marble	Sandstone	Slate	Total
10111100		(a)	(b)	1010			
1944							
Nova Scotia	tons	1,886	50,734		45,813		98,43
1014 00014 11111111111	4	37,532	123,613		63,968		225,11
New Brunswick	tons	1,857	66,731		1,400		69,98
of my drought on the state of t	3	47,504	165,258		31,425		244,18
Quebec	tons	127,544	2,370,141	6,489	89,470	198	2,593,84
£40000 *********************************	8	830,238	2,349,177	50,569	104,629	198	3,334,81
Ontario	tons	125,604	2,852,241	5,215	5,223		2,988,28
Mudilo	\$	307,497	2,549,402	32,650	20,431		2,909,98
danitoba	tons	357	31,572	0~,000			31,92
EGILL COND	2	4,967	48,587				53,55
Uberta	tons	2,007	12,726				12,72
There	2		43,049		• • •		43,04
British Columbia	tons	12.716	181,141	125	4.860	949	199,79
OFICISH COLUMNIE	\$	76.052	249,373	2,155	3,000	17,903	348,48
Canada	tons	269,964	5,565,286	11.829	146,766	1,147	5,994,99
Cenada	0000	1,303,790	5,528,459	85,374	223,453	18,101	7,159,17
	-	1,000,750	0,020,400	00,074	200,400	10,101	1100111
					a		
1945							
lova Scotia	tons	379	60,387		62,668		123,43
	\$	25,695	158,644		130,840		315,1
New Brunswick	tons	4,669	84,639		10,020		99,3
	2	41,983	198,326		88,200		328,50
Quebec	tons	77,145	2,372,758	7,410	211,902	946	2,670,16
(40000	2	887,113	2,877,684	65,556	224,352	1,567	4,056,2
Ontario	tons	109,286	2,833,573	5,818	3,680		2,952,38
	\$	279,105	2,582,663	45,081	19,845		2,926,69
Manitoba	tons	425	62,201				62,6
	\$	6,130	79,668				85,7
Alberta	tons	0,200	13,528				13,5
200201 100000000000000000	2		54,962				54.9
British Columbia	tons	29.726	250,106	160	3,160	969	284,1
DITERED OUT MINE CONTROL OF CONTR	\$	44,722	332, 432	2,700	3,160	16,272	399.28
Canada	tons	221,630	5,677,192	13,388	291,430	1,315	6,205,55
Vandua , , , , , , , ,	00113	1,284,748	6,284,379	113,337	466,397	17,839	8,166,70

<sup>(</sup>a) All igneous rocks included.

Note: Not included in the above limestone statistics are 1,849,258 tons of limestone consumed in the cement industry in 1945 and 1,865,597 tons in 1944. Also, the limestone used in the lime industry is not included; it is estimated that approximately 1,482,077 tons of limestone were burned in the manufacture of lime in 1945 and 1,571,451 tons in 1944.

<sup>(</sup>b) Includes dolomite, also marl for agricultural purposes.

Table 8 - Production (Sales) of Stone(x) From Canadian Quarries, By Provinces, Showing Purposes For Which

P	11	Nova	New	1944 and 1		Mani-	4.7.1	British	-
For use as follows:		Scotia	Brunswick	Quebec	Ontario	toba	Alberta	Columbia	Canada
1944									
Building stone - Rough .	tons	372	80	7,275	3,414	245		1,436	12,822
	\$	4,719	962	23,391	11,096	2,003		3,624	45,795
Dressed	tons		620	6,136	3,337	227		***	10,320
	\$		31,890	261,228	47,325	9,964			350,407
Monumental and ornamen-	tons	37	1,488	6,777	***			1,305	9,607
tal stone - Rough	\$	552	11,625	96,552				13,800	122,529
Dressed	tons	349	188	5,200	174	120		304	6,335
	\$	33,980	33,074	491,894	918	4,575		50,594	615,035
Flagstone	tons			***	1,315	27			1,342
	\$	***			4,748	180			4,928
Curbstone	tons		* * *	200			0 0 0		200
	*			1,298	***				1,298
Paving blocks	tons			1,250	300	0.00	4 4 9		1,550
T. J.	*	0 070	* * *	7,874	600	* * *	***	- • •	8,474
Lining open-hearth	tons	8,930							0,930
furnaces	\$	16,967	• • •	* * *	4 4 4	* * *	* * *	* * *	16,967
Chemical - Flux in iron and steel	tong		57	1,005	414,625	4,457	1,000	589	421,733
furnaces	tons		110	854	373,334	7,480	2,500	976	385,254
Flux in non-ferrous	tons		110	49,729	117,099	*, 400	2,000	37,491	204, 319
smelters	\$			26,706	87,188			24,406	138,300
Glass factories	tons		* * *	391	.,		3,742		4,133
	\$			1,466	***		5,613		7,079
Pulp and paper mills	tons	***	4,188	129,642	25,375	1,741		47,719	208,665
	\$		7,748	179,815	82,986	1,913		101,675	374,137
Sugar refineries	tons	* * *			4,978				4,978
	\$			4,231	4,231				4,231
Other chemical uses	tons	* * *			244,592			20,942	265,534
	\$	* * *		D + 4	240,107		* * *	21,264	261,371
Pulverized Stone -					0.500				0.000
Whiting (substitute)	tons			0.00	2,732	0 0 P	0.0 0	233	2,965
4 1 11 0/12	*	000		0.071	16,611			2,996	1.9,607
Asphalt filler	tons	277	a 9 b	9,031	4,153	• • •		966	14,427
Ducting coal minor	* ODG	2,493		32,910	14,853		3,030	4,830	55,086 3,503
Dusting coal mines	tons	***		* * *			12,120	3,193	15,313
Agricultural purposes	tons	41,454	62,467	171,637	32,074	1,833	1,514	5,966	316,945
and fertilizer plants.	\$	103,367	157,353	239,521	74,337	4,923	6,056	15,485	601,042
Other uses	tons			80	10,547	2,282		23	12,932
00102 0000 010000	\$			465	35,090	2,028		207	37,790
Crushed stone for manu-									
facture of artificial	tons			172	82				254
stone	\$			786	255				1,041
Roofing granules	tons				35,031			952	35,983
	\$	***			126,135			17,975	144,110
Poultry grit	tons	73		1,910	8,318		3,440	1,466	15,207
	\$	786		10,628	49,752		16,760	7,31?	85,243
Stucco dash	tons		b 6 0	531	97	0 0 0	* * *	522	1,150
	\$	* * *		3,439	582			5,314	9,335
Terrazzo chips	45	* * *		1,327	1,465	0.00	4.6.4	* * *	2,792
20	\$	* * *	0.00	7,283	10,850	0 4 5			18,133
Rock wool	tons		* * *	b @ 0	7,130 6,890			4 4 4	7,130 6,890
Dubble and winner	1070	6,441	900	101,598	84,207	1,600	***	6,855	201,601
Rubble and riprap	tons	10,949	1,425	88,722	80,683	1,810	***	4,234	187,823
Crushed stone -		10,343	7,400	00,100	00,000	2,020	***	*, 202	201,000
Concrete aggregate	tons	30,000	444	1,293,101	514,841	14,393	4 4 7	9.00	1,852,335
CONTRACTOR OFFICE OF THE PROPERTY OF THE PROPE	\$	33,300		1,152,845	400,144	14,403			1,600,698
Road metal	tons	10,500		382,773	1,030,303	4,443			1,498,258
	\$	18,000	4 0 9	351,067	911,685	3,761			1,352,796
Railroad ballast	tons	***		424,077	442,094	561			869,042
	\$			356,067	329,580	514	1 + +	2,310	688,471
Total Canada	tons	98,433	69,988	2,593,842	2,988,283	31,929	12,726	199,791	5,994,992
The last term of the la	\$	225,113		3,334,811	2,909,980	53,554		348,483	7,159,177
Per cent of total Que	antity	1.64	1.17	43.27	49.85	. 53	.21	3.33	100.00
TOT COND OF CARCON ALL CO.		3.14	3,41	46.58	40.65	.75	.60	4.87	100.00

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Table 8 - Production (Sales) of Stone(x) From Canadian Quarries, By Provinces, Showing Purposes For Which

		Nova	New			Mani-		British	
For use as follows:		Scotia	Brunswi c	Quebec	Onterio	toba	Alberta	Columbia	Canada
1945	A	600	CR	6 560	00 304	071		0.710	80.01
Building stone - Rough .	tons	600	67	6,568	29,194	271	* * *	2,319	39,019
	*	6,848	101	33, 278	44,308	2,309		6,324	93,668
Dressed	tons		1,040	11,225	5,058	359	* * *	10	17,69
	+		80,000	485,918	75,580	15,821		414	657,73
onumental and ornamen-	tons	50	336	8,213	91			1,600	10,290
tal stone - Rough	\$	800	3,063	121,096	2,957			16,000	143,91
Dressed	tons	329	190	5,223		150		47	5,939
	\$	24,895	27,766	575,912		5,700		8,214	642,48
lagstone	tons		20	540	1,710	65			2,33
	*		200	2,700	7,662	395			10,95
urbstone	tons			90					90
M D D O O O O O O O O O O O O O O O O O	4	***		668		***	***	4 9 9	66
	4				700	* * *			
aving blocks	tons			411	300			* * *	71.
	*			3,126	3,600				6,72
ining open-hearth	tons	14,760	0 6 6					* * *	14,76
furnaces	\$	28,042	8.9.0				* * *	* * *	28,04
hemical -									
Flux in iron and steel	tons		* * *	168	385,662	3,966	800	10	390,60
furnaces	\$			168	341,165	6,603	2,000	200	350,13
Flux in non-ferrous	tons			3,110	99,861			45,221	148,19
smelters	\$	0 0 0		2,872	74,869			61,178	138,91
Glass factories	tons			1,192	***		4,346		5,53
	\$			5,673			17,380		23,05
Pulp and paper mills	tons	3,650	3,077	128,895	27,561	1,860	***	47,008	212,05
turp and paper milis	6	18,714	5,693	189,567	85,114	2,044		111,923	413,05
Comment of the contract of the	*****		11						
Sugar refineries	tons				8,213	***	• • •	1	8,22
	4		52	* * *	6,981	4 0 0		12	7,04
Other chemical uses	tons		+ 5 5		257,376			29,526	286,90
	3				253,435		* * *	29,526	282,96
ulverized Stone -									
Whiting (substitute)	tons		4 8 6	3,662	4,309			232	8,20
	\$			36,617	26,165			2,702	65,48
Asphalt filler	tons	1		6,023	4,310			517	10,85
	3	29	0 0 0	21,581	14,973			2,585	39,16
Dusting coal mines	tons						2,992	313	3,30
	4	• • •					11,970	2,112	14,08
Agricultural purposes	tons	41,067	81,319	258,828	31,649	1,664		3,572	419,57
and fertilizer plants	\$	109,277	192,400	495,851	74,579	3,730	5,920	10,045	891,80
		869						30	28,90
Other uses	tons			10,846	13,769	3,391	0 0 0		
	*	2,173		39,704	44,252	3,411	- 4 -	270	89,81
rushed stone for manu-									
facture of artificial	tons	* * *	9 4 6	394	668				1,06
stone	\$			2,330	2,489				4,81
oofing granules	tons			100	43,261			969	44,33
	\$			150	125,016			16,272	141,43
oultry grit	tons	40		1,243	7,178		3,490	1,617	13,56
	\$	409		5,374	39,883		16,960	8,280	70,90
tucco dash	tons			1,350	291			1,488	3,12
	8			9,500	2,778			17,307	29,58
errazzo chips	tons	***		2,657	2,127				4.78
orrange our he elections	\$			17,106	21,724				38,83
ook wool	tons	***	* * * *		1,423				1,42
lock wool	\$ 00118	* * *		e a 4	1,886				1,88
	4	1 100	17 000	106.004		1.90	* * *	99 699	
Rubble and riprap	tons	1,168	13,268	125,004	73,598	120		28,622	241,78
	\$	2,192	19,234	124,469	76,480	240	9 6 9	14,403	237,01
rushed stone -						C1 (2)			2 000
Concrete aggregate	tons			1,302,572	567,811	37,657			1,908,46
	*			1,142,020	417,242	36,262	732		1,596,25
Road metal	tons	60,900		430,226	931,143	12,711		117,859	1,552,83
		121,800		426,000	822,998	8,888		88,359	1,468,04
Railroad ballast	tons			361,621	455,794	412		3,160	820,98
	8			314,592	360,058	395		3,160	678,20
Total Canada	tons	123,434	99,328	2,670,161	2,952,357	62,626	13,528	284,121	6,205,55
TOTAL VARIAGE	4					85,798		399,286	8,166,700
2	*	315,179	328,509	4,056,272	2,926,694			4.58	100.00
Per cent of total Que		1.98	1.60	43.03	47.58	1.01	0.22		
Val	. ue	3.86	4.02	49.67	35.84	1.05	0.67	4.89	100.00

Table 9 - Production (Sales) of Stone From Canadian Quarries, By Kinds, Showing Purposes For Which Used,

			and 1945				
For use as follows:		Grenite (a)	Limestone (b)	Marble	Sandstone	Slate	Total
1044							
Building stone - Rough	tons	4,260	4,770	142	3,650		10.000
Dullulag stone - hough titters	d d	10,033	11,149			* * *	12,822
Dressed	tona			9,268	15,345	* * *	45,795
Dressed	tons	1,592	7,458	120	1,150	***	10,320
Monamental and apparental stone	Ф	83,485	214,037	18,135	34,750	* * *	350,407
Monumental and ornamental stone -	A	0.000					
Rough	tons	9,607	* * *	4 1 4	***		9,607
2		122,529	1.00				122,529
Dressed	tons	6,041	120		174		6,335
773	*	609,542	4,575		918	***	615,035
Flagstone	tons		907		435		1,342
	*	* * *	1,336		3,592	* * *	4,928
Curbstone	tons	200	***	• • •		***	200
	\$	1,298		4 9 4	* * *	***	1,298
Paving blocks	tons	1,235		0.00	315	* * *	1,550
	\$	7,770	0 0 0		704		8,474
Lining open-hearth furnaces	tons		8,930				8,930
	\$	* * *	16,967				16,967
Chemical -							
Flux in iron and steel furnaces	tons		421,713	50			421,733
	\$		384,924	330	p 0 0		385,254
Flux in non-ferrous smelters	tons		204,319				204,319
	8	* * *	138,300				138,300
Glass factories	tons		4,133				4,133
	\$	***	7,079		* * *		7,079
Pulp and paper mills	tons		208,665				208,665
	\$		374,137				374,137
Sugar refineries	tons		4,978				4,978
	\$		4,231				4,231
Other chemical uses	tons		265,534				265,534
	\$		261,371				261,371
Pulverized stone -	7						
Whiting (substitute)	tons		2,915	50	* * *		2,965
	2		18,807	800	• • •		19,607
Asphalt filler	tons	4 4 4	14,427		* * *		14,427
	\$	• • •	55,086				55,086
Dusting coal mines	tons		3,503				3,503
	2		15,313				15,313
Agricultural purposes and	tons	400	316,545				316,945
fertilizer plants	\$	2,825	598,217		* * *	* * *	601,042
Other uses	tons		12,502	430	* * *		12,932
Outof (Bob)	\$		35,925	1,865	4 4 4	* * *	37,790
Crushed stone for manufacture of	tone	* * *	82	172		* * *	254
artificial stone	& Caro		255	786	• • •	• • •	
	tons	33,039	1,995		* * *	949	1,041
months Standards	6	123,732	2,475				35,983
Poultry grit	tons	279	10,251	4,677	***	17,903	144,110
control RTIO	¢ OMO	2,800			* * *		15, 207
Stucco dash	*****	4	53,930	28,513		* * *	85,243
Jucco dash	tons		565	581	* * *		1,150
7		70	4,826	4,439		* * *	9,335
Terrazzo chips	tons		270	2,522			2,792
	\$	* * *	810	17,323		6 9 0	18,133
Rock wool	tons		7,130	* * *			7,130
	#	* * * *	6,890	* * * *	***		6,890
Rubble and riprap	tons	29,265	153,892	3,115	15,131	198	201,601
	\$	24,021	136,294	3,915	23,395	198	187,823
Crushed stone -							
Concrete aggregate	tons	54,476	1,751,849		46,010		1,852,335
	\$	83,951	1,455,549		61,192		1,600,692
Road metal	tons	129,566	1,350,374		18,318		1,498,258
	\$	231,734	1,090,968	* * *	30,094		1,352,796
Railroad ballast	tons		807,459		61,583		869,042
	\$		635,008		53,463	***	688,471
Total Canada (b)	tons	269,964	5,565,286	11,829	146,766	1,147	5,994,992
Total canada (o)							

Stone -8-

Table 9 - Production (Sales) of Stone From Canadian Quarries, By Kinds, Showing Purposes For Which Used,

		(a)	(b)	Marble	Sandstone	Slate	Total
1945							
uilding stone - Rough	tons	3,117	33,431	135	2,336		39,019
WIGHTH SCORE - WORD	\$	14,198	57,930	8,809	12,731		93,668
Dmongad	tons	1,267	15,056	119	1,250	***	17,69
Dressed	¢ COILS						657,73
	*	97,098	464,411	18,224	78,000	* * *	001,10
onumental and ornamental stone-	A	20 200		- 01			10 200
Rough	tons	10,199		91			10,29
2	*	140,959	250	2,957	* * *		143,91
Dressed	tons	5,789	150		* * *		5,93
	*	636,787	5,700	4 4 5	3 004		642,48
lagstone	tons		1,071	* * *	1,264	* * *	2,33
	*		3,845		7,112		10,95
urbstone	tons	90			* * *	0.0	91
	\$	668			* * *		661
aving blocks	tons	411		***	300	***	71
	\$	3,126			3,600		6,72
ining open-hearth furnaces	tons	0.00	14,760				14,76
	\$		28,042			* * *	28,04
hemical -			H-11AF				
Flux in iron and steel furnaces	tons	***	390,596	10	* * *	***	390,60
	\$	***	349,936	200		***	350,130
Flux in non-ferrous smelters	tons		148,192				148,19
	\$		138,919				138,91
Glass factories	tons		4,496	1,042	4 9 9		5,536
	\$		17,943	5,110		4	23,05
Pulp and paper mills	tons	***	212,051				212,05
tarp and popul marks its its its	*		413,055				413,05
Sugar refineries	tons		8,225				8,22
Sold Torruption	*	• • •	7,045	* * *			7,04
Other chemical uses	tons	* * *	286,902	* * *	***	* * *	286,90
Action Chamical mass	6	1.6.4	282,961		+ + 4		
ul-owlead stone	4	0 0 0	202,301	4	* * *	* * *	282,96
ulverized stone -	***		0 157	60			0 90
Mhiting (substitute)	tons	n n 0	8,153	50		* * *	8,20
A		* * *	64,984	500		9 5 9	65,48
Asphalt filler	tons	* * *	10,851	• • •	A = 0		10,85
D 1440 - 1112 - 1400 - 1		1 0 0	39,168	0.0.0	6 0 0	0 6 9	39,16
Dusting coal mines	tons	6 o 6	3,305		4 0 0		3,30
1 -1 - 141	4	* * *	14,082	9 0 0	6 6 5		14,08
Agricultural purposes and	tons	0.00	419,579		9 4 5	* * *	419,57
fertilizer plants	\$	4 + 4	891,802	***	0.00	* * *	891,80
Other uses	tons	n n d	28,305	600			28,90
	¥	* * *	87,410	2,400	* * *		89,81
rushed stone for manufacture of	tons		668	394		* * *	1,06
artificial stone	*	P 8 8	2,489	2,330		000	4,81
oofing granules	tons	43,261	100		• • •	969	44,33
	*	125,016	150		* * *	16,272	141,43
oultry grit	tons	485	9,000	4,083			13,56
	*	4,445	43,862	22,599			70,90
tucco dash	tons	240	1,439	1,450			3,12
	\$	2,526	15,559	11,500		B & +	29,58
errazzo chips	tons		520	4,264	n n n		4,78
	\$		1,560	37,270	n & *	* * *	38,83
ock wool	tons		1,423				1,42
	*		1,886				1,88
ubble and riprap	tons	40,231	186,561	1,150	12,892	946	241,78
	\$	31,530	182,907	1,438	19,576	1,567	237,01
rushed stone -							
Concrete aggregate	tons	38,871	1,849,865		19,724		1,908,46
	\$	61,977	1,502,390		31,889		1,596,25
Road metal	tons	77,669	1,392,566		82,604		1,552,83
	\$	166,418	1,143,079		158,548		1,468,04
Railroad ballast	tons	100,413	649,927	• • •	171,060		820,98
CALLON	*		523,264		154,941	***	678,20
	Y	0.00	020,202			***	
Total Canada (b)	tons	221,630	5,677,192	13,388	291,430	1,915	6,205,55

<sup>(</sup>a) Includes all igneous rock.

<sup>(</sup>b) Does not include limestone used in Canadian lime and cament industries but includes marl used for agricultural purposes.

Stone

Table 10 - Production of Stone For Building Purposes, Chemical Use, Cement Manufacture, Concrete Aggregate,

Year Building stone(a)				Road Metal and	Railroad Ballast,	1935-1945		
\$ 1,258,741 483,709 523,847 1,987,351 211,993  1936 tons 42,335 615,207 1,014,14 1,903,927 784,081 1,180,358 714,616 553,597 730,617 1,653,134 659,656  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 8 722,514 681,796 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	Year			chemical	concrete	road	railroad	4 1
1936 tons	1935	tons						818,443
\$ 714,616 553,597 730,611 1,653,134 659,656  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		¥		,				0.1.0
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	1936	tons					,	1,180,358
\$ 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	The state of the state of	7		,			,	
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	1937	tons		,				1,465,168
\$ 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		\$		· ·	,		570,606	***
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	1938	tons	49,666	551,737	981,739	2,721,922	86,019	1,358,689
\$ 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		\$	725,402		791,971	2,347,010	58,816	• • •
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	1939	tons	71,288	577,278	1,344,636	2,131,306	600,266	1,407,099
\$ 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		\$	1,344,340	523,579	1,109,028	1,773,337	522,882	
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	1940	tons	97,336	725,685	2,673,078	2,300,613	896,408	1,784,291
\$ 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		\$	722,514	681,796	2,171,487	1,885,744	741,772	
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	1941	tons	54,262	965,690	2,581,583	2,958,613	446,505	2,113,618
\$ 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		\$	653,077	889,574	1,986,226	2,484,393	322,348	
1943 tons 17,087 1,329,226 1,981,222 2,108,428 852,928 1,994,202	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	
\$ 314,428 1,330,127 1,727,889 1,989,509 704,389	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	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		3	396,202			1,352,796		
1945 tons 56,711 1,051,514 1,908,460 1,552,839 820,987 1,919,858	1945	tons						
\$ 751,401 1,215,169 1,596,256 1,468,045 678,205		\$						

(a) Does not include monumental or ornamental stone.

(b) Does not include limestone used in Canadian lime industry which totalled 1,482,077 tons in 1945.
(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; 1944 - 74,303 tons; 1945 - 70,600 tons.

Mehle 11 - Importe Into Consde and Exporte of Stone By Kinds 1944 and 1945

		1 9	4 4	1 9	4 5
		Quantity	Value	Quantity	Value
			\$		\$
Imports					
Building stone, n.o.p	cwt.	36,972	15,120	106,159	48,99
Curling stones and handles therefor	pair	396	10,667	231	5,98
Granite, rough, not hammered or chiselled			53,707		42,94
Granite, sawn only			15,783		22,96
Granite, monuments	***				n 6
Granite, manufactures of, n.o.p			9,430		9,87
Marble, rough, not hammered or chiselled			8,844		9,13
Marble, sawn or sand rubbed, not polished			22,653		41,22
Marble, not further manufactured than sawn					
for tomostones			38,036		62,04
Marble, manufactures of, n.o.p			7,869		10,25
Refuse stone	ton	734,141	398,378	705,716	481,34
Mate roofing	square	720	7,986	439	5,27
late mantels and manufactures of slate, n.o.p.			28,075		26,13
Chalk, china, cornwall or cliff stone and mice					
schist			26,107		16.96
ineral wool	ton	1,310	147,862	4,495	460,67
whiting, gilders' whiting and Paris white	ton	13,432	279,112	14,159	307,20
lanufactures of stone, n.o.p.			25,067	P 0 0	27,01
Chalk, prepared			19,525		6,42
Pumice and pumice stone and lava tufa		999	27,880	p q 4	45,04
Frindstones, not mounted and not less than			,		,
36 inches in diameter	No.	578	59,211	466	45,49
Grindstones, n.o.p.	No.	672	2,098	549	2,38
Burrstones, rough, in blocks	No.	62	1,062	27	71
Ganister	ton	347	2,463	425	3, 38
Total	2 0 1	111	1,206,935		1,681,54
2000A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					-100-10
Exports					
Crushed stone	ton	597	735	904	85
Granite and marble, unwrought	ton	3,871	42,567	3,835	48,60
Dressed stone of all kinds		0,0.2	5,713		7,3
Grindstones, manufactured			211		19,51
GII MUSCOMES, MANUI MOVED	-		49 296		76 31

## GRANITE

Table 12 - Production of Granite(x) in Canada, 1935-1945

Year	Short tons	\$	Year	Short tons	\$
1935	326,354	1,126,287	1940	1,147,747	1,884,410
1936	941,743	1,319,313	1941	600,922	1,498,786
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
			1945	221,630	1,284,748

(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 fevourably situated were able to supply any demand for rip-rap 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.

"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 Breas 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

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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 Granville in Granville county; and in the vicinity of Donnacons, 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 Manitoba and British Columbia, there were no developments of special importance during the year under review."

## LIMESTONE

Table 13 - Production of Limestone(x) in Canada, 1935-1945

Year	Short tons	\$	Year	Short tons	
1935	3,631,665	3,253,573	1940	6,108,591	5,126,075
1936	3,731,548	3,143,872	1941	7,151,049	6,057,727
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
			1945	5,677,192	6,284,379

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

With regard to limestone production, the Bureau of Mines has reported as follows:

"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 sewn 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.

"During the war the construction of buildings of the type requiring cut stone was drastically curtailed and the production of building stone declined almost to the vanishing point, and such shipments as were made were from stock. Stocks are now depleted and with the construction of many buildings planned for the coming years the outlook for the industry engaged in the production of structural limestone is distinctly promising.

"In Quebec, the quarries yielding heavily bedded building stone are at St. Marc descarrieres in Portneuf county, and in the vicinity of Montreak. 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 varugated 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, but the quarries have been inactive during the past several years.

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

"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.

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"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 chifly 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 14 - Production of Marble in Canada, 1935-1945

Cear	Short tons	*	Year	Short tons	\$
1935	15,975	85,369	1940	13,739	75,409
1936	22,866	169,698	1941	17,649	126,081
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
	444 75 76 8		1945	13,388	113,337

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 perparations 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."

Stone

"In Quebec, clouded grey marbles and also a black marble are obtained in the quarries of Missisquoi 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 serpentinous 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 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."

## SANDSTONE

Ta	ble	15	-	Product	ion	of	Sandstone	in	Canada.	1935-1	945

Year	Short tons	\$	Year	Short tons	*
1935	342.824	838,005	1940	176,475	305,543
1936	285,508	495,856	1941	169,885	305,528
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
			1945	291,430	466,397

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 1945 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 16 - Production of Slate in Canada, 1935-1945

(eur	Short tons	\$	Year	Short tons	*
1935	1.129	4,329	1940	1,113	7,522
1936	1,247	5,414	1941	1,296	12,562
1937	900	5.519	1942	1,369	16,801
1938	979	6,311	1943	1,336	17,733
1939	1,149	6,760	1944	1,147	18,101
2000 0000000000000000000000000000000000	-,	,	1945	1,915	17,839

Canadian slate production in 1945 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)

During the past decade the roofing granule industry in Canada has increased over four fold and the growth has been particularly rapid in the past three years. Canadian made granules are obtained from 7 deposits, 3 of which are in Ontario and 4 in British Columbia.

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 eest and north of Toronto. These 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 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 end, 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.

Small quantities of granules that were made from slate deposits at Madoc proved to be too soft and their colour was too light a grey to be suitable for use. Red and green slates from the dumps of old slate quarries near Granby and Richmond in the Eastern Townships of Quebec have been used also to a small extent. Tests were made recently on the slate that occurs near Kentville, Nova Scotia.

Some of the leading manufacturers of granule roofings, as well as individuals, have been making tests and searching certain areas in Canada for rocks suitable for making the best type of granules, but the specifications are rigid. Apart from slates, there appear to be few such rocks in areas where they can be economically mined, crushed, and shipped to producing plants.

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 odium 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 estent '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 range in price from \$16 to \$20 per ton, f.o.b. eastern Canadian plants, for natural rocks and slates; from \$20 to \$26 for artificially coloured reds and greens; from \$36 to \$40 for blues; and from \$22 to \$25 for buffs and browns.

### 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 manuufacture 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 emplosives, 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 clayey 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, 1945

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

(/) Did not ship in 1945.

Head Office Address Location Granite Nova Scotia -Bower, A. R. Box 255, Shelburne Shelburne Dauphinee, W. T. (x) Shelburne Shelburne Nictaux West Nixon, W. H. & Sons (x) R.R. 3, Middleton Nictaux West Rice Bros. (x) Lawrencetown Nictaux West Rice, W. D. (x) Middleton New Brunswick -Milne Coutts & Co. Ltd. (x) St. George St. George Granite Street Pavement & Box 1137, Saint John Construction Co. Ltd. Hampstead O'Brien & Baldwin (x) St. George St. George Spinney's Querry Box 96, St. George St. George Quebec -Beebe Anderson, James (x) Box 125, Beebe Brownsburg Chatham Tp. Berube, Lucien (x) Bolduc, Antonio (x) Boyer, Herve St. Sebastien Beauce New Glasgow Mont Royal Brodies' Ltd. (x) 1070 Bleury St., Montreal Guenette Graniteville Mount Johnson Bussiere & Frere (x) St. Sebastien Ste. Cecile 57a First St., Shawinigan Falls Ste. Flore Carrière Shawinegan Cie de Marbre & de Tuile de Quebec Ltee Ste. Cecile 327 Dorchester St., Quebec Beebe Cloutier, R. L. (x) Beebe 1365 St. Valier St., Quebec Delevaide & Goffin (x) Chicoutimi St. Gerard Deschembault Quarry Corp. (x) 56 St. Pierre St., Quebec Drummond, La Compagnie Pierre Box 712, Sherbrooke Drummond Concassee Riviere a Pierre Dubois, Honore (x) Rivière à Pierre Gaboriault & Nevers (x) Grenville Tp. Box 65, Grenville 1740 Fourth St., Grand'Mere Grand Mère Gagnon, Arthur Giguere, H. Camille Rouvn Rouyn Gosselin, Oscar Lac Megantic St. Samuel St. Gédéon Granit National Ltée (x) St. Joseph d'Alma St. Joseph d'Alma Glenada Grenier, Elie Glenada Rivière à Pierre Rivière è l'ierre Jacques, Arthur Beebe Lacasse & Boulais Box 23, Beebe Laforce, H. & Fils (x) 1327 St. Valier St., Quebec Chicoutimi St. Joseph d'Alma Malteis, Charles St. Joseph d'Alma 680 Sherbrooke St. W., Montreal Baie Comeau Quebec North Shore Paper Co. Chicoutimi Riverin & Riverin Chicoutimi St. Charles 283 Heriot St., Drummondville Rousseau, Ben St. Bruno Quarry & Paving Co. Ltd. 636 Ave. Querbes, Outremont St. Bruno Cap St. Martin Scotstown Granite Co. Ltd. (x) Cap St. Martin Box 754, Sherbrooke Sherbrooke Sherbrooke, City of

Stanstead Granite Quarries Co. Ltd. (/) Beebe

Building Products Ltd. (x)
Hewitson Construction Co. Ltd.

Silver Granite Co. Ltd. (x)

Box 6063, Montreal, Quebec 509 Public Utilities Bldg., Port Arthur

2331 rue Provençal, Montreal

Madoc McIntyre Tp.

St. Semuel St. Gédéon

Beebe

Durocher, Cyrille

Filion Aldege

# DIRECTORY OF THE STONE QUARRYING INDUSTRY, 1945 (Continued)

Head Office Address Name Location Granite (Con.) Ontario (Con.) -Ontario Rock Co. Ltd. 2 Colleg St., Toronto Peterboro Co. Verona Rock Products Ltd. Verona Verona Manitoba -1180 Wall St., Winnipeg Winnitoba Marble Co. Ltd. (x) West Hawk Lake British Columbia -Canadian National Railways Montreal, Que. Skeena Coast Quarries Ltd. 1840 West Georgia St., Vancouver Granite Falls 501 Front St., Nelson Nelson M.D. Nelson, City of Nelson Granite and Monumental Co.(x) 505 Front St., Welson Welson M.D. Prince Rupert, City of (/) Prince Rupert Skeena 308 Pacific Bldg., Vancouver Nelson Island Vancouver Granite Co. Ltd. Vernon Granite & Marble Co. (x) Box 265, Vernon Vernon M.D. Sirdar Nelson M.D. Wilson, James (x) Limestone Nova Scotia -Admiral Rock Admiral Rock Dillman Bros. Windsor Eastern Lime Co. Ltd. (x) Box 60, Windsor East River Point Mersey Paper Co. Ltd. Liverpool Mosher Limestone Co. Ltd. Upper Musquodoboit Upper Musquodoboit Scotch Lake Nairn, J. S. 24 Whitney Ave., Sydney Nova Scotia Department of Agriculture Halifax Various Windsor Windsor Foundry Windsor New Brunswick -Butternut Ridge Springhill Alward, Roy M. Brookville Brookville Manufacturing Co. Ltd. Brookville Petit Rocher North Elm Tree Limestone Co-operative Co.(x) Petit Rocher North 3 Pokiok Rd., Saint John Saint John Snowflake Lime Ltd. Quebec -Rivière-Bleue Amendemente Calcaires de R-B, Les Rivière-Bleue Andorno, Jean (x) Cap St. Martin Cap St. Martin Joliette Joliette Beaudry, J. P. Beauregard, La Compagnie Ltd. Stukely North Stukely North Caugh nawaga 82 - 33rd Ave., Lachine Bédard, Jean Ltée (x) Gaspe Co. Perce Boucher, Louis Notre Dame de la Salette Boucher, Telesphore Notre Dame de la Salette Gaspe Co. Deforceville Bourget, John D. Hull Canada Cement Co. Ltd. Box 290, Montreel St. Michel 2251 Chemin de la Côte, St. Michel Canadian Quarries Co. Carrière Bernier Enrg. R.R. 2, St. Jean St. Jean Cap St. Martin 636 Ave. Querbes, Outremont Carrière du Cap St. Martin Chateau Richer Chateau Richer Carriere Gravel Ltee Beaconsfield Dorion-Vaudreuil Carrière Pointe-Claire St. Barthelemi St. Barthelemi Carrière St. Barthelemi Ltee St. Dominique 555 - 16th Ave., St. Hyacinthe Carrières de St. Dominique Ltee (x) 1497 Craig St., Trois Rivières St. Louis de France Carriere St. Maurice Inc. St. Louis de France St. Louis de France Carrière Trois Rivières Ltee Laval Co. St. François de Sales Charbonneau, L. & Cie Roberval Cie de Construction de Roberval Ltee Roberval Iles de la Madeleine Havre Aubert Construction de L'Est Enrg., Les St. Vincent de Paul Department de la Justice (x) Ottawa, Ontario St. Marc des Carrières 56 rue St. Pierre, Quebec Deschambault Quarry Corp. (x) Lime Ridge Lime Ridge Dominion Lime Ltd.

11021 Notre Dame E., Montreal

Lachute

Montreal East

Lachute

Name

## DIRECTORY OF THE STONE QUARRYING INDUSTRY, 1945 (Continued)

Quebec (Con.) -Fiset, Eliodore Fortin, Camille Fuger & Smith Ltd. Gagne, Octave Gagnon & Leclero Gaspesian Fertilizer Co. Gauthier, J. O. (x) Gosselin, Alphonse Kennedy Construction Co. Ltd. Lagace Quarry Lakeshore Construction Co. Ltd. Landry, J. P. A. Langlois, Adjutor Larouche, J.B. Lasalle Quarry Ltd. Laurentian Stone Co. Ltd. Leclerc, J. J. Martineau, La Cie de Pierre de Taille Ltee (x) McDonald, R. & Co. Ltd. Mercure, Camille Miner, R. H. Co. Ltd.

Ministère de la Voirie

Montreal Cut Stone Co. (x) Montreal Quarry & Cut Stone Co. National Quarries Ltd. Paquette, Levis Pelletier, Jos. E. Pulverized Products Ltd. Rioux, Louis St. Francis Rock Products & Equipment Ltd. St. Laurent Stone Froducts & Supplies Ltd. Salaberry de Valleyfield, La Cité Shawinigan Chemicals Ltd. Standard Lime Co. Ltd. Syndicat Co-operatif de la Carrière de Ferme Neuve Syndicat de Broyage de Levis Tanguay & Royer Enrg. Trappe de N.D. de Mistassini, La Tremblay, Napoleon Tremblay, Welley Turcotte & Asselin Union des Carrières & Pavages Ltee Varin, Joseph Verreault, Elz. Ltée Viau, Paul

Abitibi Power & Paper Co. Ltd. Bonter Marble & Calcium Co. Ltd. Bonter, W. F. Brunner Mond Canada Ltd. Canada Cement Co. Ltd. Canada Crushed Stone Ltd.

Head Office Address

Location

## Limestone (Con.)

St. Marc des Carrières Chambord Junction 78 Victoria Ave., Pointe Claire St. Ulric St. Joachim Port Daniel E. St. Marc des Carrières St. Laurent 407 McGill St., Montreal 130 Blvd. Labelle, L'Abord-a-Plouffe 137 Cartier Ave., Pointe Claire St. Andre, Matapedia St. Marc des Carrières Baie St. Paul 8413 Blvd. St. Michel, Montreal 195 Nicholas St., Ottawa, Ontario Drapeau

Box 10, Rosemont, Montreal 2020 Union Ave., Montreal 555 - 16th Ave., St. Hyacinthe Room 719, Sun Life Bldg., Montreal

Quebec

9301 rue Foucher, Montreal 2020 Union Ave., Montreal 6301 Park Ave., Montreal Cap St. Martin Ste. Anne des Monts 4820 Fourth Ave., Rosemount Cowansville

St. Laurent

St. Laurent Valleyfield Montreal Joliette

Ferme Neuve St. Joseph de Levis Ste. Justine La Village des Pères (Roberval) 31 rue Joffre, Hull Ste. Anne 370 Dorchester St., Quebec 48 Second Ave., Quebec 3275 Chemin St. Michel, St. Michel 194 du Pont, Quebec 340 Blvd. du Havre, Valleyfield

408 University Ave., Toronto Box 61, Marmora Malone Canadian Bank of Commerce Bldg., Toronto Anderdon Tp. Box 290, Montreal, Que. 72 Sun Life Bldg., Hamilton

St. Alban Lac St. Jean Pointe Claire St. Ulric St. Joachim Port Daniel F. St. Marc des Carrières St. Laurent Actonvale L'Abord-a-Plouffe Pointe Claire St. Andre St. Marc des Carrieres Baie St. Paul Ville St. Michel Hull Drapeau

> Pont Viau Wakefield St. Dominique de Bagot Belanger Village St. Laurent St. Charles de Bellechasse St. François de Sales St. Michel Laval Co. Cap St. Martin Gespe N. St. Armand Cowansville

St. Laurent

St. Laurent Valleyfield Bedford St. Paul de Joliette

Ferme Neuve St. Joseph de Levis Ste. Justine Mistassini Hull Canton Tremblay Chateau Richer Charlesbourg St. Michel Gifford Grande Isle

> Bucke Tp. Marmore Malone Belleville Dundes Hagersville

# DIRECTORY OF THE STONE QUARRYING INDUSTRY, 1945 (Continued)

Head Office Address Location Name Limestone (Con.) Ontario (Con.) -Carleton Lime Products Co. Box 26, Carleton Place Ramsay Tp. Chemical Lime Ltd. Beachville Beachville Chem-Ore Mines Ltd. 156 Yonge St., Toronto Bobcaygeon Cook, J. S. Stone Quarries (x) Amabel Tp. Wiarton Cypsum, Lime & Alabastine, Canada, Ltd. Paris Beachville Hespeler Hagersville Hagersville Quarries Ltd. Hagersville Haldimand Quarries & Construction 137 Wellington St. W., Toronto Hagersville Box 22, Kingston Kingston Kingston Penitentiary 2700 Dufferin St., Toronto Kirkfield Kirkfield Crushed Stone Ltd. Lapierre, M. C. Law, R. E. Crushed Stone Ltd. Owen Sound 1949 - 8th Ave. E., Owen Sound Port Colborne Port Colborne N. Orillia Tp. 1109 Millwood Rd., Toronto Limestone Products Ltd. Marlbank Thorold Merlhill Mines Ltd. McDonald, A. G. Lake Ontario Bronte 394 King St., Kingston Pittsburg Tp. McGinnis & O'Connor Bancroft Bancroft Mica & Stone Products North American Cyanamid Ltd. Niagara Falls Ingersoll Belmont Tp. 2 College St., Toronto Ontario Rock Co. Ltd. Pembroke Pembroke Pembroke, Town of Queenston Quarries Ltd. (x) 72 Sun Life Bldg., Hamilton St. Davids Verona Verona Verone Rock Products Ltd. Stamford Tp. Walker Bros. Box 586, Thorold Kingston Tp. 578 Division St., Kingston Wehman, John R. R. 2, Niagara Falls Stamford Tp. Welland Crushed Stone & Building Co. Building Products & Coal Co. Ltd. 111 Christie St., Winnipeg Inwood 1591 Erin St., Winnipeg Garson Tyndall Quarry Co. Ltd. (x) 223 James Ave., Winnipeg 812 Boyd Bldg., Winnipeg Stoney Mountain Winnipeg, City of Moosehorn Winnipeg Supply & Fuel Co. Ltd. Stonewall Alberta -Cadomin Cadomin Errico, M. Kananaakia Kananaskis, Exshaw P.O. Loder's Lime Co. Ltd. Box 273, Lethbridge Lethbridge Summit Lime Works Ltd. British Columbia -New Westminster M.D. Box 178, Agassiz Agassiz Lime Quarry Van Anda 744 West Hastings St., Vancouver Beale Quarries Ltd. British Columbia Department of Various Victoria Highway s Quatsino Sound British Columbia Pulp & Paper Co. Ltd. Bank of Nova Scotia Bldg, Vancouver Montreal, Quebec Golden M.D. Canadian Pacific Railway Co. Consolidated Mining & Smelting Grand Forks Company of Canada Ltd. Trail Fernie Fernie Fernie, City of Koeye River Koeye Limestone Co. Namu Blubber Bay 602 Pacific Bldg., Vancouver

## Marble

Canadian Dolomite Co. MAR Ltee Missisquoi Stone & Marble Co. Ltd.(x) Orford Marble Co. Ltd. (/)

Pacific Lime Co. Ltd.

Portage du Fort 77 Cremazie, Quebec Philipsburg 65 Beaudet, St. Laurent Portage du Fort St. Joseph de Beauce Philipsburg St. Laurent

# DIRECTORY OF THE STONE QUARRYING INDUSTRY, 1945 (Concluded)

Vame	Head Office Address	Location
	Marble (Con.)	
Ontario -		
Silvertone Black Marble Quarries Ltd.	328 Waverley St., Ottawn	St. Albert
Stockloser, K. & Son	Madoc	Madoc
White Star Mines	Haliburton	Eagle Lake
HILLO CALL METOD	1100 20 000 0000	
British Columbia -	EOR TRALES CA. Tricanada	Malahat
Marble & Associated Products	507 Ellice St., Victoria	Malanat
	Sandstone	
lova Scotia -	CTRA Cattingen Ct. Unlike	Halifax
Fairview Crushed Stone Ltd. (/)	637A Gottingen St., Halifax	
Wallace Quarries Ltd.	Wallace	Wallace
New Brunswick -		
Read Stone Company Ltd. (/)	Sackville	Stonehaven
Smith, E. A. (x)	Shediac	Shediac
Quetec -		
Blais, Joseph	32 Mont-Marie Ave., Levis	St. Romusld
Cote & Forbes	Matane	Matane
Gagmon, L. P.	St. David de Levis	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
Ontario -	D-3-6	Inglewood
Austin Corner	Belfountain	
Campbell Sandstone Quarries Ltd. (x)	Box C19, Westboro	Bells Corners
Martin, E.	Glen Williams	Halton
Norton, A. W.	Limehouse	Limehouse
Sinfield, E. W.	Cheltenham	Terra Cotta
Sykes Quarries	Young St., Georgetown	Glen Williams
British Columbia -		
Consolidated Mining & Smelting Co.		Vimbori
of Canada Ltd.	Trail	Kimberley
	Slate	
Thermo Coal Compound	7465 St. Denis, Montreal	Granby
Williamson & Crombie	Kingsbury	Kingsbury
THE RESIDENCE OF THE STATE OF T		
British Columbia -	1007 Tanadama Da Wateria	Leachtown
Brown, O.M.	1903 Lansdowne Rd., Victoria	reacurown



## 2. SECONDARY PRODUCTION -- THE STONE PRODUCTS INDUSTRY, 1945

In 1945 there were 144 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. Eight producers of rock wool were also included in this industry.

Output from this industry was valued at \$5,199,120 in 1945, an increase of 19.0 percent over the total of \$4,370,430 reported for the previous year. The 62 works in Ontario accounted for 54.3 percent of the total output and the 39 plants in Quebec for 24.9 percent. The average number of employees was 1,055 and \$1,665,593 were paid in salaries and wages. Materials used in the cutting and dressing processes, including stone, cost \$1,706,599. The latter figure also includes the cost of materials used in the production of rock wool. Expenditures for fuel and electricity amounted to \$196,703.

Table 17 - Principal Statistics of the Stone Products Industry, 1935-1945

Year	Number of plants	Average number of em- ployees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross sell- ing value of products at works
			\$	\$	\$	
1935	222	1,066	1,174,229	107,836	1,010,999	3,079,118
1936	227	1,245	1,257,808	127,151	1,070,902	3,309,911
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
L940	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	1.42	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
Percent change						
1945 from 1944 .		+23.5	+16.8	+22.4	+2.1	+19.0

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 18 - Principal Statistics of the Stone Products Industry, By Provinces, 1944 and 1945.

Province	Number Number numb of of explants ploy		Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	ing value of products at works	
1944			\$	*			
Prince Edward Island New Brunswick	1) 5)	34	49,692	3,457	30,302	136,172	
lova Scotia	8	32	34,242	3,773	38,696	108,993	
Quebec	39	201	292,607	29,149	440,987	1,020,771	
Intario	59	452	846,883	108,983	979,130	2,473,876	
lanitoba	9	42	54,175	4,032	37,287	134,790	
Saskatchewan	7	33	56,759	3,868	52,432	183,068	
Alberta	5	34	53,136	4,487	56,111	188,101	
British Columbia	9	26	38,768	2,976	35,773	124,659	
Canada	142	854	1,426,262	160,725	1,670,718	4,370,430	

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Stone

Table 18 - Principal Statistics of the Stone Products Industry, By Provinces, 1944 and 1945 (Concluded)

Province	Number Average number of of emplants ployees		Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross sell- ing value of products at works
			\$	\$	*	*
1945						
Prince Edward Island	1)	65	98,707	12,770	77,191	306,671
New Brunswick	6)					
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

Table 19 - Employees, Salaries and Wages in the Stone Products Industry, By Provinces, 1944 and 1945

		Average N			08			Total
Province	On S	alaries	On	Nages	m-1-3	Salaries	Wages	Salaries
	Male	Female	Male	Female	Total			and Wages
						\$	\$	\$
1944								
Prince Edward Island)	5	2	47		34	10,318	39,374	49,69;
New Brunswick ,)		~	141		O.S.	10,010	03,074	43,03
Nova Scotia	9	2	21		32	1.2,977	21,265	34,24
Quebec	47	3	140	11	201	77,504	215,103	292,607
Ontario	86	21	31.4	31	452	212,340	634, 543	846,883
Manitoba	15	2	24	1	42	22,983	31,192	54,175
Saskatchewan	10	3	20		33	27,214	29,545	56,759
Alberta	9	5	19	1	34	20,404	32,732	53,136
British Columbia	10		16		26	14,650	24,118	38,768
Canada	191	38	581	44	854	398,390	1,027,872	1,426,262
1945								
Prince Edward Island)						10 000		
New Brunswick)	9	2	48	6	65	18,703	80,004	98,707
Nova Scotia	7	2	22		31	10,464	27.942	38,406
Quebec	65	8	202	11	286	118,113	315,782	433,895
Ontario	106	21	371	15	513	267,757	582,932	850,689
anitoba	13	1	21	1	36	24,010	30,824	54,834
Saakatchewan	10	3	31	4	48	28,011	43,588	71,599
Alberta	10	9	22	2	43	27,918	35,218	63,136
British Columbia	14	1	18		33	22,850	31,477	54, 327
Canada	234	47	735	39	1,055	517,826	1,147,767	1,665,593

Table 20 - Wage-Earners, By Months, In the Stone Products Industry, 1944 and 1945 (Number on payroll on

the last work day of each month) 1 9 4 5 Month Male Male Female Total Female Total January ..... February ..... March ..... April ...... May ...... June ..... July ..... August ..... September ..... October ..... November ..... December ..... Average ......

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Table 21 - Hours Worked Per Week By Wage-Earners in the Stone Products Industry, 1944 and 1945 (In one week of highest employment; overtime included)

		Number of	Wage-Earners		
lours Worked per Week	1 9	4 4	1 9	4.5	
	Male	Female	Male	Female	
00 hours or less	70	6	65	8	
1-43 hours	91	17	157	22	
4 hours	176	1	210	9	
5-47 hours	37	3	79	5	
8 hours	135	8	206	7	
9-50 hours	18	1	60		
1-54 hours	59	1	53	2	
5 hours	6	1	15	1	
6-64 hours	65	6	59		
5 hours and over	45		101		
Total	702	44	1,005	54	
otal wages paid in selected week	22,423	1.059	31,782	1,076	

Table 22 - Fuel and Electricity Used in the Stone Products Industry, 1944 and 1945

	77	19	4 4	1945		
Cind	Unit of measure	Quantity	Cost at works	Quantity	Cost at works	
			\$			
Bituminous coal - Canadian	ton	258	3,123	1,228	11,732	
Imported	ton	4,741	38,624	4,232	39,014	
Anthracite coal	ton	197	2,707	1,934	18,485	
Lignite coal	ton	12	143	13	90	
Coke	ton	477	6,520	206	2,844	
Gasoline	Imp. gal.	48,283	16,177	50,077	16,167	
Kerosene or coal oil	Imp. gal.	818	212	8	2	
Fuel oil	Imp. gal.	24, 256	2,696	145,464	14,942	
Wood	cord	166	1,384	192	1,864	
Gas - Manufactured	M cu. ft.	191	187	258	258	
Natural	M cu. ft.	515	285	1,449	649	
Other fuel		* * *	18,423		89	
Electricity purchased	K. W. H.	5,989,250	70,244	7,422,679	90,567	
Total		• • •	160,725		196,703	

	Ordinar	lly in Use	ln Rese	rve or Idle
	Number	Total rated	Number	Total rated
	of units	horse power	of units	horse power
1 9 4 4				
Steam engines and steam turbines	2	157	• • •	
Diesel engines	3	147	1	16
asoline, gas and oil engines (other				
than diesel)	12	185		
vdraulic turbines or water wheels	1	25		
Total Primary Equipment	18	514	1	16
lectric motors run by purchased power	523	5.728	24	325
Total	541	6,236	25	341
tationary power boilers	4	294	* * *	
otor generator sets	1	1		0 0 b
1 9 4 5			3.0	
team engines and steam turbines	2	210		***
iesel engines	2	84	2	116
asoline, gas and oil engines (other				
than diesel)	12	227	1	6
ydraulic turbines or water wheels	1	20		
Total Primary Equipment	17	541	3	122
lectric motors run by purchased power	625	6,847	41	635
Total	642	7,388	44	757
Stationary power boilers	5	504		
Notor generator sets	12	480	6	285

Table 24 - Output of the Stone Products Industry, 1944 and 1945

Product	Total Selling Value at Works				
Product	1944	1945			
	\$				
Granite, cut and polished -					
(e) Monuments	1,871,157	2,183,799			
(b) For building purposes	31,430	58,829			
Marble, cut and polished -					
(a) Monuments	290,638	317,197			
(b) For building purposes	80,803	132,498			
Marble chips and dust	23,815	24,826			
Limestone -					
(a) Monuments and bases	48,870	48,715			
(b) For building purposes	98,866	290,618			
Finished monuments, lettered only	228,169	219,483			
Other products (x)	1,638,763	1,858,102			
Repairs and custom work (re-lettering, etc.)	57,919	65,053			
Total	4,370,430	5,199,120			

<sup>(</sup>x) Includes rock wool, etc.

	Gra	nite	Ma	rble		Lime	estone	Finished		
	Monu- ments	For building purposes	Monu- ments	For building purposes	Marble chips and dust	Monu- ments and bases	For building purposes	monu- ments, lettered only	Other products	Total
	\$	\$	\$	*	\$	\$	\$	\$	\$	\$
Prince Edward										
Island and										
New Brunswick	k -									
1944	108,662		23,612	450				2,275	1,173	136,172
1945	115,497		20,121	0 0 0			y 5 0	2,265	168,788	306,671
Nova Scotia -										
1944	41,442	4,000	25,000				4 7 0	35,840	2,711	108,993
1945	46,402	6,000	29,241	3,460	***			41,325	795	127,223
Quebec -										
1944	557,591	15,471	7,506	26,668	4,679	3,007	650	15,241	389,958	1,020,771
1945	759,186	39,367	11,243	47,932	5,178	400	770	13,309	419,622	1,297,007
Ontario -										
1944	795,525	7,073	147,677	35,497	411	33,763	97,459	80,468	1,276,003	2,473,876
1945	928,194	6,500	166,747	54, 184	1,500	29,725	289,543	70,294	1,277,106	2,823,793
Manitoba -										
1944	79,045		13,733	5,870	100	2,078		33,785	179	134,790
1945	61,218	2,122	12,095	14,064	8	2,340	:25	29,881	868	122,82
Saskatchewan										
1944	92,260	4,650	50,855	3,342	585	7,422	757	9,415	13,782	183,068
1945	79,185	4,500	41,438	5,300	590	13,830		5,595	38,822	189,260
Alberta -										
1944	96,737		21,810		18,040	2,600		41,988	6,926	188,103
1945	85,087	0 0 0	35,498		17,550	2,420		47,580	7,989	196,124
British										
Columbia -				0.00				0.155	E 055	164 65
1944	99,895	236	445	8,976			4 + +	9,157	5,950	124,659
1945	109,030	340	814	7,558			80	9,234	9,165	136,221
CANADA -					00.01-		00.000	000 140	2 000 000	4 900 49
1944			290,638	80,803	23,815	48,870	98,866	228,169	1,696,682	4,370,430
1945	2,183,799	58,829	317,197	132,498	24,826	48,715	290,618	219,483	1,923,155	5,199,120

Table 26 - Total Production in Canada of Dressed Building Stone, 1928-1945

	Gra	nite	Ma	rble	Lime	stone	Sand-	
Year	From quarries	From dressing works	From quarries	From dressing works	From quarries	From dressing works	stone from quarries	Total
	\$	\$	\$	\$	\$	\$	\$	
1928	667,050	314,553	340,585	883,076	702,081	2,861,336	18,000	5,786,681
1929	746,537	465,185	347,256	1,621,112	944,491	2,739,504	92,500	6,956,585
1930	1,189,120	902,519	687,115	1,339,108	1,416,277	2,706,390	286,972	8,527,501
1931	1,011,499	1,032,202	576,458	1,054,952	1,085,767	1,372,131	686,616	6,819,615
1932	336,632	79,136	188,743	339,627	348,187	636,294	20,580	1,949,199
1933	114,318	40,224	27,377	73,445	111,235	281,074	19,300	666,973
1934	216,574	35,957		137,902	173,536	280,279	5,500	849,748
1935	403,951	184,033	16,000	130,227	425, 247	837,985	97,400	2,094,843
1936	171,858	330,306	104,738	175,834	189,064	514,375	167,859	1,654,034
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	50,829	18,224	132,498	464,411	290,618	78,000	1,139,678

	Gran	ite	Mar	ble	Lime	stone	Sand-	
Year	From quarries	From dressing works	From quarries	From dressing works	From quarries	From dressing works	stone from quarries	Total
	\$	\$	\$	\$	\$	*	\$	*
1927	147,510	1,728,293	449,717	420,651	1,523	97,264		2,844,958
1928	125,744	1,718,988	9,700	404,058	2,237	132,406		2,393,133
1929	149,810	1,815,463		391,947	4,722	325,876		2,687,818
1930	111,504	1,815,143		350,323	3,577	319,472		2,600,019
1931	251,379	1,584,099	* * *	257,668	6,300	43,584		2,143,030
1932	196,071	1,164,283		180,323	2,532	43,652		1,586,861
1933	215,616	1,111,354		200,313	2,868	30,370		1,560,521
1934	244,286	1,271,009	24,342	168,201	3,488	27,036		1,738,362
1935	277,568	1,268,414		158,249	1,680	26,690		1,732,601
1936	231,482	1,517,005		150,629		35,162		1,734,278
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		1,839,365
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

(x) Sandstone.

			in	Canada	and	Imports	01	Rock	WOOT,	1934-1945	
<b>PROPERTY</b>	The second second	spaces annual little	 _	-	-		40				7

	Production	Impo	rts	
ear	\$	Pounds		
934	1,709	2,987,611	69,267	
935	66,459	1,922,938	57,877	
36	265,472	2,391,504	101,592	
37	346,460	2,030,144	81,050	
38	396,261	1,337,954	45,109	
39	525,998	1,820,763	44,860	
40	935,229	2,082,589	52, 233	
41	1.185,324	2,633,544	74,791	
42	1,417,258	1,613,914	54,776	
43	1,707,501	1,839,670	72,780	
44	1,617,420	2,619,513	147,862	
945	1,839,122	8,989,862	460,677	

Stone

Table 29 - Production of Rock Wool in Canada, By Grades, 1945

		Quantity	Selling Value at Works
			\$
3-inch betts (x)	sq.ft.	13,784,980	481,514
-inch batts	sq.ft.	18,868,015	508,769
-inch batts	sq.ft.	1,714,078	35,157
ranulated	cu.ft.	4,754,179	689,989
ulk or loose wool	cu.ft.	603,782	65,521
ndustrial wool (both loose and granulated)	cu.ft.	453,115	58,172
Total			1,839,122

(x) Includes four-inch batts.

Table 30 - Sales of Rock Wool By Canadian Producers, 1944 and 1945

	Three inch	Two inch	One inch	Granulated	Bulk or	Industrial
	batta (x)	batts	batts	wool	loose wool	wool
	sq.ft.	sq.ft.	sq.ft.	cu.ft.	cu.ft.	cu.ft.
1944						
January	1,528,585	1,859,980	120,600	320,047	69,015	34,827
February	1,641,605	1,881,968	67,260	311,762	58,855	33,319
larch	1,512,415	1,854,435	27,142	321,803	63,397	27,714
pril	1,170,415	1,703,400	62,916	267,158	48,709	27,095
lay	622,795	1,232,785	3,000	343,732	39,183	12,816
une	1,212,110	1,123,709	36,540	321,332	37,994	24,161
uly	1,013,060	1,225,835	1,350	305,303	65,734	16,071
lugust	1,240,800	1,458,870	9,200	313,670	58,934	27,487
September	1,147,975	1,335,309	76,556	354,737	67,261	18,568
ctober	1,385,650	1,607,160	253,702	351,528	65,376	28,318
lovember	1,238,085	1,967,945	139,102	401,343	50,139	17,279
ecember	1,268,450	1,598,155	106,316	266,473	50,744	15,235
Total .	14,981,945	18,849,551	903,684	3,878,888	675,341	282,890
1945						
anuary	1,432,465	1,713,680	129,119	359,365	50,632	34,854
ebruary	1,012,810	1,478,400	83,040	308,230	32,910	42,930
larch	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
lay	1,060,108	1,405,315	48,360	322,498	47,382	17,840
Tume	1,185,460	1,555,945	62,760	413,174	50,528	18,327
uly	1,013,000	1,578,200	25,230	398,258	20,456	31,532
lugust	904,000	1,465,435	95,400	409,033	63,976	37,530
eptember	1,003,575	1,927,435	108,720	393,463	44,021	38,670
ctober	1,181,305	1,949,960	211,940	454,003	61,510	41,533
lovember	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

(x) Includes some four-inch batts.

Table 31 - Cost of Materials Used in the Stone Products Industry, 1944 and 1945

	Cost at	Works
	1944	1945
		\$
tone - (a) From Canadian quarries	409,677	522,878
(b) Imported	218,367	264,784
numents, cut and polished, for lettering only	124,383	135,977
llica sand or ground quartz	4,679	7.379
ag and stone for rock wool	167,808	160,500
oke for rock wool	136,253	114,382
ll other materials	609,551	500,699
Total	1,670,718	1,706,599

## PRODUCERS OF ROCK WOOL, 1945

Name

Canadian Gypsum Company Ltd.
Canadian Johns Manville Co. Ltd.
Gypsum, Lime & Alabastine, Canada, Ltd.
Insulation Products Ltd.
Spun Rock Wools Ltd.
Elmac Company
Thermotex Insulation Ltd.

Address

Weston, Ontario
Asbestos, Quetec
Caledonia, Ontario
Todmorden, Toronto, Ontario
Thorold, Ontario
Saint John, New Brunswick
Granite Falls, Burrard Inlet, British Columbia
Township 17, Moose Jaw, Sasketchewan

#### DIRECTORY OF FIRMS IN THE STONE PRODUCTS INDUSTRY, 1945

Name of Company

Prince Edward Island -Beck, Vere & Son

Nova Scotia Coughlan, James S., Marble and Granite Works
Kelly Monumental Works
Nixon's Granite Works
Steele, John D., & Sons
Tingley, Harold W.
Tingley, J. A., Granite Works

Glacial Rock Insulation Ltd.

New Brunswick Elmac Co.
Kane, M. T., & Co. Ltd.
Miramichi Granite & Marble Works
St. Stephen Granite Works
Sherrard, T. F., & Son
Stults Monument Works

Quebec -Anderson, James Beaubien, Elzear & Fils Ltee Reg'd. Bergstrand, N. Berson, L. & Son Brault, A. Brodle's, Limited Brunet, J., Limitee Brunet, A. Buckland, D. E. Canadian Johns-Manville Co. Ltd. Caron, Eugene Chabot, J. Ray Chausse, Edouard & Fils Crete, James Dalceggio, F. Daudelin, Rolland Ducharme, J. Maurice Fortin, Dollard Frenette, P. E. Gingras, Roch Gignac, Joseph Godin & Delisle Gordon Stone Monument Reg'd.

Location of Plant

Main St., Montague

Simpson's Siding, Halifax Bridgewater R. R. 3, Middleton Commercial St., North Sydney 13 Merkel St., Halifax Amherst

48 Celebration St., Saint John Westmoreland Rd., Saint John Chatham Queen St., St. Stephen 135 Victoria St., Moncton Rothesay Ave., Saint John

Beebe Ste. Hélène, Co. Kamouraska Waterville 3884 St. Lewrence Blvd., Montreal 3 Champlain St., Valleyfield 9th Ave., Iberville 4485 Cote des Neiges, Montreal Ormstown Beebe Manville St., Asbestos Ste. Anne de Beaupre Scott Junction, Co. Beauce 524 King St. West, Sherbrooke 190 Sophie St., Sorel 4588 Chemin Cote des Neiges, Montreal 1395 St. Antoine St., St. Hyacinthe 257 Notre Dame St., Victoriaville St. David de Lévis 351 St. Jean Baptiste, Rimouski Ste. Foy St. Alban Village 1253 St. Vallier St., Quebec 4374 St. Lawrence Blvd., Montreal

# DIRECTORY OF FIRMS IN THE STONE PRODUCTS INDUSTRY, 1945 (Continued)

#### Name of Company

Location of Plant

Quebec - (Con.) Gosselin, Arsene, Enrg. Houde & Frere Enrg. Jacques, Andre Jeune, E. H. Laforce, H. & Fils, Enrg. Liben, A. M. Anco Granites Ltd. Picard, Wilfred Provost, J. A. Rousseau, O., Enrg. Smith Bros. Memorial Art Ltd. Smith Marble & Construction Co. Ltd. Stanstead Granite Quarries Co. Ltd. Thuot & Denicourt Todoro & Bigras Vincent, Chas. A., & Sons

Angers, B. & Son Ambroise Monuments Ambroise, J. D. Bayview Memorial Co. Bradfield, W., & Son Brown, Geo., & Sons Campbell, A. C. Canadian Art Memorials Canadian Cut Stone Co. (Louis H. Gavard) Canadian Gypsum Co. Limited Creber Son & Company Central Granite & Marble Works Chesley Memorial Works Davis Monument Co. Eglinton Monumental Works Excelsior Granite & Marble Works Gladstone & Ross Geard Brothers George, John J. Cypsum, Lime and Alabastine, Canada, Limited Hargrave's Monumental Works Humberstone Cut Stone and Monument Works Insulation Products Ltd. Johnston & Cranston Kemp & Ronald Kilvington Granite Company Kingsway Monument Works
Kitchener Monument Works Lake Superior Granite and Marble Works Laurin, J. P. London Marble & Granite Co. Ltd. McIntosh Granite Company Ltd. McIntyre Monument Co. Mckey Cut Stone Co. McMillan Granite Co. Ltd. Memorial Company of Toronto Memorial Craftsmen Co. Monumental Art Co. Oakville Monument Works Ontario Marble Co. Ltd.

Orillia Monument Co.

Beauceville Est 404 Notre Dame, Cop de la Madelaine 20 Desjardins St., Levis Sutton 1327 St. Valier, Quebec 12 Bagg Ave., Montreal Iberville 3285 Desautels, Montreal 187 Belmont, Sherbrooke St. Fabien, P.Q: 1195 Ducharme St., Montreal 207 Van Horne Ave. W., Montreal Beebe 87 Fourth St., Iberville 3275 Desautels, Montreal 5731 St. Denis St., Montreal

140 Montreal Rd., Eastview 48 Alma St., Guelph Montreal Road, Eastview Willow Cove 335 Main St., Simcoe 473 Bronson Ave., Ottawa 21 Bridge St. W., Belleville Joseph St., Port Credit 7 Isabella St., Ottawa Oak St., Weston 1333 St. Clair Ave. W., Toronto 1283 Dundas St. W., Toronto Chesley 3205 Danforth Ave., Toronto 1702 Eglinton Ave. W., Toronto 163 Pitt St. E., Windsor 388 East Block St., Fort William 612 William St., London Port Elgin Caledonia 30 Ottawa St. N., Hamilton Haileybury, Ont. 590 King St., Humberstone Beechwood Drive, Toronto 6 1849 Yonge St., Toronto Listowel 2A Caledonia Rd., Tomonto 3673 Dundas St., Toronto 1015 King St. E., Kitchener Sault Ste. Marie 103 George St., Ottawa 493 Richmond St., London 1623 Yonge St., Toronto 60 Danforth Ave., Toronto 65 Shalmar Ave., Forest Hill 105 Ontario St., Sarnia 2299 Bloor St. W., Toronto 429 Spadina Ave., Toronto 2168 Dundas St. W., Toronto 19 Colborne St. W., Oakville Maria St., Peterborough 252 Coldwater Rd. W., Orillia

## DIRECTORY OF FIRMS IN THE STONE PRODUCTS INDUSTRY, 1945 (Concluded)

#### Name of Company

#### Location of Plant

Onterio - (Con.) Patterson & Cornelius Pellook & Ingham Miggs Memorial Works The Ritchie Cut Stone Co., Ltd. Rivercourt Memorials Sanderson, J. R., Marble Co. Sault Granite & Marble Works Sinclair Cut Stone Sharp Bros. Cut Stone Company Limited Skelton, E. J., & Son Smith Monument Works Smith Monument Co. Spun Rock Wools Limited Standard Stone Company, Limited Strathroy Granite & Marble Co. Ltd. Sudbury Memorial Works Twin City Monument Company Wardell Monument Works Wilcox Granite Co.

Manitoba Brooke, J. H., & Sons
Brunet, Joseph O.
Cassan Monumental Co.
Fort Rouge Monumental
Guinn & Simpson Company Limited
MacIntyre, A. L.
Memorial Marble & Tile Co. Ltd.
Neepawa Marble & Granite Works

Saskatchewan Best Monumental Co.
Glacial Rock Insulation Ltd.
Molaro Marble & Stone Works
Moose Jaw Marble & Granite Works Ltd.
Regina Monumental Co.
Yorkton Monumental Works
Young, Alex., Ltd.

Alberta Alberta Granite, Marble & Stone Co. Ltd.
Hart, Albert J.
Maclean Granite Co.
McDonald Granite Co. Ltd.
Somerville Calgary Monumental Co.

British Columbia Art Monument Co. Ltd.
Burnaby Monumental Works
Chandler, W. R., Memorials & Western Granite Co.
Continental Marble Company Limited
Forster Monumental Works
Kingsway Monumental Works
Mortimer, J., & Son
Stewart Monumental Works Ltd.
Thermotex Insulation Ltd.
Westaway's Monumental Works

428 Queenston Rd., St. Catharines 151 Main St., Galt 605 Queen St., Niagara Falls 203 New Toronto St., New Toronto 300 O'Connor Drive, Toronto 33 Peter St. S., Orillia 715 Queen St. E., Sault Ste. Marie Frid St., Hamilton 516 Kenilworth St. N., Hamilton Yonge St., Walkerton 1539 Main St. E., Hamilton 349 Weston Road, Toronto 65 Ormand St., Thorold 1704 Howard Ave., Windsor Strathroy 453 Annley St., Sudbury 541 King St. E., Kitchener 2696 Dundas St. W., Toronto Plains Road, Hamilton

266 Main St., Winnipeg
26 Lyndale Drive, Norwood
402 - 10th St., Brandon
465 Gertrude St., Winnipeg
52 Tupper St. N., Portage la Prairie
361 Bannatyne Ave., Winnipeg
1180 Wall St., Winnipeg
Neepawa

721 Caribou St. W., Moose Jaw Township 17, Moose Jaw 23 St. & Pacific Ave., Saskatoon 706 Athabasca St. E., Moose Jaw 2536 Railway St., Regina 20 Agricultural Ave., Yorkton Scarth St. and 4th Ave., Regina

10702 - 101st St., Edmonton 1821 Second St. E., Calgary Red Deer 2313 Second St. E., Calgary 121 - 13th Ave. W., Calgary

602 Kingsway, Vancouver
2655 Patterson Ave., Burnaby
5498 Fraser St., Vancouver
1002 Georgia St. E., Vancouver
5528 Fraser St., Vancouver
3070 Kingsway St., Vancouver
633 David St., Victoria
1401 May St., Victoria
996 Powell St., Vancouver
143 Columbia St. E., New Westminster

