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DEPARTMENT OF TRADE AND COMMERCE DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL & CHEMICAL BRANCH

THE

STONE INDUSTRY

IN

CANADA

1941

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



OTTAWA 1943

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THE STONE INDUSTRY IN CANADA, 1941

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.

These two major divisions, constituting the Canadian stone industry, represented a capital investment of \$15,459,244 in 1941. Production during the year totalled \$10,640,167 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 1941 numbered 3,745 and their combined earnings amounted to \$4.192,654.

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. Stone of almost every known variety occurs in Canada; 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. The sedimentary rocks, including limestones, sandstones and marbles are quarried at various points in Canada. The products from quarries operating in these different formations not only yield high class structural and decorative materials but provide the chemical and other allied industries with many of their increasing requirements.

The gross value of all varieties of stone produced in Canada during 1941 totalled \$8,000,684 compared with \$7,398,959 in 1940. Comprising the tonnage shipped in 1941 were 600,922 tons of granite valued at \$1,498,786; 7,151,049 tons of limestone at \$6,057,727; 17,649 tons of marble at \$126,081; 169,885 tons of sandstone at \$305,528 and 1,296 tons of slate worth \$12,562. Of the total value of domestic stone sold in 1941, that of Quebec shipments amounted to 45.1 per cent; Ontario, 41.0 per cent, and British Columbia, 5.1 per cent.

The number of firms in the stone quarrying industry reported as active in 1941 totalled 457; capital employed amounted to \$11,162,036; employees numbered 2,758; salaries and wages paid aggregated \$2,896,100 and the cost of fuel, electricity and process supplies used was reported at \$1,283,183.

Data relating to Canadian imports and exports of stone have not been released for publication since 1939, and any requests for such information should be addressed to the External Trade Branch of the Dominion Extraord Statistics, Ottawa.

Table 1 - PRINCIPAL STATISTICS OF THE STONE QUARRYING INDUSTRY IN CANADA, 1940 and 1941

	1940	1941	
Number of firms	482	457	
Capital employed	12,127,271	11,162,036	
Number of employees - On salary	283	293	
On wages	2,603	2,465	
Total	2,886	2,758	
Salaries and wages - Salaries \$	438,559	445,139	
Wages	2,341,144	2,450,961	
Total\$	2,779,703	2,896,100	
Selling value of products (Gross)	7,398,959	8,000,684	
Cost of fuel and electricity	528,319	642,085	
Process supplies used\$	676,056	641,098	
Selling value of products (Net)	6,194,584	6,717,501	

THE STATE OF THE S				Fuel, elec-			
		Number	Capital	tricity (x)	Number	Salaries	Net
Province	Year	of	employed	and process	of em-	and wages	value of
		firms		supplies used	ployees	paid	production
			\$	\$		\$	*
Nova Scotia	1937	26	195,181	35,191	127	100,823	243,907
	1938	20	31,891	11,573	61	51,176	135, 37]
	1939	18	166,286	18,143	80	67,095	115,774
	1940	47	272,284	30,971	158	128,257	282,673
	1941	40	178,967	25,611	102	88, 597	243,734
iew Brunswick	1937	9	192,761	9,491	93	60,891	129,550
012 0	1938	6	154,258	3,684	75	58,141	116,64
	1939	8	243,358	16,660	136	118,890	249,44
	1940	9	222,471	16,097	146	138,733	294, 20
	1941	11	243,460	17,605	125	120,484	330,25
Quebec	1937	184	5,327,000	373,123	1,438	1,022,174	1,839,898
menec	1938	189	5,219,520	408,199	1,744	1,239,082	2,119,72
	1939	218	5,339,375	531,029	1,903	1,577,265	2,792,57
	1940	199	4,885,498	466,948	1,572	1,280,955	2,360,65
	1941	203	5,267,599	618,873	1,552	1,453,640	2,990,69
	1947	200	0,107,000	00,010	,	-,,	.,,
ntario	1937	163	5,914,613	612,870	1,032	1,139,066	3,050,89
	1938	181	4,882,560	429,202	767	741,251	1,893,96
	1939	175	5,609,524	476,867	754	826,949	1,821.24
	1940	193	5,674,896	638,120	785	995,005	2,7 5,27
	1941	170	4,435,408	572,826	767	395,085	2,705,11
anitoba	1937	6	642,363	11,407	40	54,053	55,82
	1938	6	393,148	13,481	43	56,431	88,13
	1939	5	225, 359	8,454	48	55,558	75,49
	1940	6	390,252	8,998	43	39,528	69,44
	1941	5	591,870	14,331	26	26,333	50,56
lberta	1937	3	6,500	102	1	1,265	27,08
	1938	2	(<i>f</i>)	(/)	(/)	(/)	6,14
	1939	3	6,400	248	5	3,552	14,03
	1940	2	(4)		(/)	(4)	11,99
	1941	2	(4)	(/)	(/)	(4)	24,30
ritish Columbia	1937	27	. 579,119	43,364	167	198,072	508,65
	1938	25	505,897	24, 211	125	152,073	305,60
	1939	25	622,728	30,485	150	167, 269	325, 25
	1940	26	681,870	43,241	182	197, 225	426,34
	1941	26	644,732	33,937	186	211,961	372,83
OTAL - CANADA -	1937	418	12,857,537	1,085,548	2,898	2,576,344	5,853,81
	1938	429	11,187,274	890,350	2,815	2,298,154	4,665,67
	1959	452	12,213,030	1,081,884	3,076	2,816,578	5,393,81
	1940	482	12,127,271	1,204,375	2,886	2,779,703	6,194,58
	1941	457	11,162,036	1,283,185	2,758	2,896,100	6,717,50

⁽x) Exclusive of electricity generated by operator.

^(/) Included with data relating to lime industry.

Table 3 - AVERAGE NUMBER OF WAGE-EARNERS, BY MONTHS, 1940 and 1941

Month		1 9	9 4 1			1941		
	1940	Quarry	Dressing works	Month	1940	Quarry	Dressing works	
January	1.015	1,016	203	July	3,861	2,742	448	
February	1,195	1.036	234	August	3,998	2,775	552	
March	1.309	1.050	269	September	5,619	2,702	555	
April	2,023	1.712	333	October	3,205	2,603	543	
May	2,903	2,490	442	November	2,776	2,231	452	
June	3,212	2,575	449	December	1,937	1,703	309	

Table 4 - NUMBER OF WAGE-EARNERS WHO WORKED THE NUMBER OF HOURS SPECIFIED, DURING ONE WEEK IN MONTH OF

		HIGHE	ST EMPLOY	MENT, 1941				
Hours	Nova Scotia	New Brunswick	Quebec	Ontario	Mani to ba	Alberta	British Columbia	CANADA
	No.	No.	No .	No.	No.	No. (x)	No.	No.
30 hours or less	4	6	191	44			3	248
31 - 43 hours	8	6	212	32			16	274
44 hours	6		155	16	38		21.	256
45 - 47 hours	6	5	96	43	3		5	156
48 hours	6	45	274	194			181	700
49 - 50 hours	4	6	239	44			10	303
51 - 54 hours	20	19	225	33			33	330
55 hours	2	2	152	96	0 4 7		5	255
56 - 64 hours	40	112	624	254			19	1.049
65 hours and over	11		171	169		***	1	352
GRAND TOTAL	107	201	2,339	925	41		290	3,905
Total wages paid in that week	1,847	5,661	53,030	22,617	839	0 4 0	6,301	90,295

⁽x) Information not available.

Table 5 -	POWER	INSTALL	ATION.	1941

	Ordi	narily in use	In reserve or idle		
	Number of units	Total h.p. (according to manufacturers' rating)	Number of units	Total h.p. (according to manufacturers' rating)	
Steam engines and steam turbines	63	2,327	14	725	
iesel engines	51	5,854	2	125	
asoline, gas and oil engines other than					
diesel	190	7,147	30	1,124	
draulic turbines or water wheels	13	1,005	4	150	
ectric motors run by purchased power	843	25,042	82	3,005	
ectric motors run by own power	23	790	5	70	
tationary boilers	37	1.754	6	270	

Table 6 -	FUEL	AND	FLECTRICIT	Y USED.	1941

		Nova S		New Bru		Quebe	3C	Ontar	io
Kind	Unit of measure	Quantity	Cost at	Quentity	Cost at	Quanti ty	Cost at	Quantity	Cost at
			Ş		\$		\$		\$
Bituminous coal -									
Canadian	short ton	198	1,188	1	12	1,090	10,258	16	137
Imported	short ton	***	***	11	211	1,495	15,272	7,296	53, 348
Anthracite coal	short ton					103	1,373	153	1,137
Lignite coal	short ton						* * *		
Coke		25	244			174	1,'906	62	696
Gasoline		14,510	4,175	7,173	1,635	398,708	115,119	376, 222	96,000
Kerosene		* * *				1,542	409	589	104
Fuel oil		5,000	590	7,106	710	111.671	14,631	30,860	3,200
Wood	-	36	196	41	262	1,628	5,262	522	
Gas - Natural								3,000	
Other fuel							2		9
Electricity purchased		238,666	4,388	285,918	8,045	7,890,646	158,030	12,905,609	117,142
TOTAL			11,281		10,975		320,162		277,046
Electricity generated									
for own use	K.W.H.	* * *				3,500		248,800	
Cost of explosives and other process									
supplies used			14,330		6,730		298,711	***	295,780

		Mani	to ba	Alber	ta	British Co	olumbia	CANA	DA
Kind	Unit of measure	Quantity	Cost at	Quanti ty	Cost at	Quanti ty	Cost at	Quentity	Cost at
			\$		\$		\$		\$
Rituminous coal -				(x)	(x)				
Canadian	short ton	20	260			335	3,154	1,660	15,009
Imported	short ton							8,302	68,831
Anthracite coal	short ton		* * *			6	200	262	2,710
Lignite coal	short ton		***					***	
Coke	short ton	4	56					265	2,802
Gasoline	Imp.Gal.	6,623	2,067			27,379	6,923	830,615	224,587
Kerosene	Imp.Gal.	160	25			108	30	2,399	568
Fuel oil	Imp.Gal.				***	30,444	2,500	185,081	21,637
Wood	cord	137	457			***	***	2,364	8,909
Gas - Natural	M cu.ft.	* * *						3,000	1.867
Other fuel						4 0 0	60		71
Electricity purchased	K.W.H.	109,404	4,361			97,280	2,628	21,527,523	295,094
TOTAL	***		7,226	•••		•••	15,495		642,085
Electricity generated									
for own use	K.W.H.	* * *						252,300	
Cost of explosives and other process									
supplies used	9 9 5		7,105			***	18,442	***	641,098

⁽x) Not available.

Table 7 - The following table gives the value of construction contracts awarded in Canada from 1925 to 1941, also index numbers of wholesale prices of building materials, index numbers of wage rates and value of total stone produced.

				Average index	
Year	Value of construction contracts awarded in Canada (a)	Value of Canadian primary stone production (b)	Average index numbers of employment in building construction (1926=100)	numbers of wholesale prices of building materials (1926=100) (d)	Index of wage rates in the building trades (1915-100) (e)
	\$	\$			
1925	297,973,000	7,464,777	75.8	102.9	170.4
1926	372,947,900	7,865,874	100.0	100.0	172.1
1927	418,951,600	9,265,304	108.7	96.1	179.5
1928	472,032,600	10,272,301	112.0	97.4	185.6
1929	576,651,800	12,066,532	135.3	99.0	197.5
1930	456,999,600	13,037,209	134.3	90.8	205.2
1931	315,482,000	11,075,184	104.3	81.9	195.7
1932	132,872,400	4,942,211	54.1	77.2	178.2
1933	97,289,800	3,000,326	38.5	78.3	158.0
1934	125,811,500	4,157,131	47.8	82.5	154.8
1935	160,305,000	5,307,563	55.4	81.2	159.8
1936	162,588,000	5,134,153	55.4	85.5	160.8
1937	224,056,700	6,939,360	60.1	94.4	165.5
1938	187, 277, 900	5,556,026	60.1	89.1	169.4
1939	187,178,500	6,475,696	62.1	89.7	170.7
1940	346,009,800	7,398,959	85.5	95.6	174.6
1941	393,991,300	8,000,684	139.5(e)	107.5	184.6

(a) Compiled by McLean Building Reports Ltd.

(b) Includes all stone except limestone used in making lime and cement.

(c) Employment Statistics Branch, Dominion Bureau of Statistics.

(d) Internal Trade Branch, Dominion Bureau of Statistics.
(e) Labour Department.

Table 8 - PRODUCTION	(SALES)	OF STONE	FROM	CANADIAN	QUARRIES,	BY	KINDS	AND	BY	PROVINCES,	1940	and	1941
		Cranite		Limostor									

Province		Granite (a)	Limestone (b)	Marhle	Sandstone	Slate	TOTAL
1940							
Nova Scotia	tons	87,975	24,160		69,316		181,451
	\$	155,458	46,717		111,469		31.3,644
New Brunswick	tons	1,326	159,812		5,015		166,153
	\$	69,833	206,916	* * *	33,550		310,299
Quebec	tons	366,662	2,287,384	8,767	92,378	659	2,755,850
	\$	792,708	1,854,423	50,652	129,179	659	2,827,601
Ontario	tons	529,440	3,302,596	4,792	5,446		3,840,274
	\$	704,421	2,649,809	22,157	11,008		3,387,395
Manitoba	tons	218	48,488				48,706
	\$	4,524	74,116				78,440
Alberta	tons		3,981				3,981
	\$		11,999				11,999
British Columbia	tons	162,126	282,170	180	6,320	474	451,270
	\$	157,666	282,095	2,600	20,337	6,883	469,581
CANADA	tons	1,147,747	6,108,591	15,739	176,475	1,113	7,447,665
	\$	1,884,410	5,126,075	75,409	305,543	7,522	7,398,959

Table 8 - PRODUCTION (SALES) OF STONE FROM CANADIAN OU SALES, BY KINDS AND BY PROVINCES, 1940 and 1941 (Con.)

Province		Granite (a)	Limestone (b)	Marble	Sandstone	Slate	TOTAL
1941							
lova Scotia	tons	410	46,973		66,219		113,602
	Š	30,537	69,501		169,307		269,345
ew Brunswick	tons	1,529	131,941		4,678		138,149
	\$	63,134	274,000		10,630		347,384
uebec	tons	316,372	3,370,875	10,809	76,928	346	3,775,350
	\$	866,132	2,567,422	92,916	82,701	346	3,609,567
ntario	tons	152,426	3,353,856	6.540	13,420		3,526,242
22 0002 20 0000000	\$	388,325	2,832,056	30,365	27,190		3,277,936
anitoba	tons	244	38,103				38,347
	\$	4,155	60.743				64,898
lberta	tons	444	7,942				7,942
	Š		24,303		0 0 0		24,303
ritish Columbia	tons	129,941	201,359	300	8,640	950	341,190
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	\$	146,403	229,702	2,800	15,650	12,216	406,771
CANADA	tons	600,922	7,151,049	17,649	169,895	1,296	7,940,801
	\$	1,498,736	6,057,727	126,031	305,528	12.562	8,000,684

(a) All igneous rocks included.

Table 9 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES BY PROVINCES, SHOWING PURPOSES FOR WH LA USED,

For use as follows:		Nova Scotia	New Brunswick	Quebec	Ontario	Mani to ba	Alberta	British Columbia	CANADA
1941									
Building stone - Rough	tons	600	962	8,611	9,35	5 111		600	20,239
	\$	3,600	1,630	21,192	29,358	2,595		2,000	60,425
Dressed	tons		120	22,461	9,88	1 972		589	34,023
	*		5,880	466,048	61,43	5 16,822		42,467	592,652
Monumental and ornamental	tons	80	161	6,022	173	2		997	7,432
stone - Rough	\$	800	5,220	63,057	2,81	2		10,416	82,305
Dressed	tons	330	406	4,149	30			. 42	4,997
220000	\$	29,737	56,284	199,119	768	3 1.647		6,827	294,382
Flagstone	tons		58	47	2,33				2,536
TTGED ONTO	\$		700	106	7.08				8,435
Curbstone	tons			3,379	10				3,480
om pp my	6			14,483					14,732
Paving blocks	tons			2,108					2,106
LEATING OTOGES	6			16,931					16,931
Lining open-hearth furnaces	tone			10,501	29,12				29,124
mind operment on 1 or naces	4				20,39				20,893
	G.			• • • •	120,000			* * *	20,000
Chemical -									
Flux in iron and steel	tons			1,234	246,97	3 5,414	741	836	254,998
furnaces	\$			1,164			1,623	1,515	222,916
Flux in non-ferrous	tons			1,135	, _			81,285	275,918
smelters	4		* * *	2,041				49,034	178,543
	tona	***	0 0 0	899	,		2,605		3,504
Glass factories	tons							0 0 0	,
n 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	7 004	5 050	3,428			3,256	F7 000	6,694
Pulp and paper mills	tons	3,624	5,670	128,986				53, 290	240,365
	\$	14,636	10,500	144,646	44,49	,		89,437	305,691
Sugar refineries	tons	0.4.0	30	***	• • •		* * *		6,219
	\$		120	4.0 ×	3.07.00		p 0 p	004	8,024
Other chemical uses	tons			* * *	183,69		0.0 0	994	184,686
	\$				167,120			596	167,716

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

<u>MOTE</u>: Not included in the above limestone statistics are 1,765,944 tons of limestone consumed in the cement industry in 1940 and 2,086,731 tons in 1941. Limestone used in the Canadian lime industry is also not included; it is estimated that approximately 1,230,349 tons of limestone were burned in the manufacture of lime in 1940 and 1,530,200 tons in 1941.

Table 9 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES, BY PROVINCES, SHOWING PURPOSES FOR WHICH USED,

			1941 (:	x) - (Con.)				
For use as follows		Nova Scotia	llew Brunswick	Quebec	Ontario	Mani to ba	Alberta	British Columbia	CANADA
1 9 4 1 (Con.)									
Pulverized Stone -									
Whiting (substitute)	tone				5,315			166	5,481
mid date (bubble bubble)	é.		* * *		30,107	* * *		1,800	31,907
Asphalt filler	tone	279	***	16,054	7,649	* * *	* * *	209	24,191
uphigre iirrer	é	1,674		48,824	22,082	***		1,604	74,184
Dusting coal mines	tons	2,012		20,022	000	***	1,443	451	1,894
Daname cour artitle	*				• • • •		5,772	2,700	8,472
Agricultural purposes and	tone	13,070	60,545	120,531	17,066		1,708	4,217	217,137
	44	29.191			34,875	***			
fertilizer plants			213,700	157,861	-	0.080	6,832	11,929	454, 588
Other uses	tons	***		237	7,151	6,030	80	210	15,708
a 1 1 4 0 0	*	***		1,167	52, 395	5,683	320	1,980	41,545
Crushed stone for manufac-	1			505	4.75				
ture of artificial stone	tons			385	477				862
70 01	1	***	***	1,796	1,915			944	5,711
Roofing granules	tons	***	537		14,624	***	* * *	887	16,048
	₩	***	1,880	***	143,853	2 0 . 0	2 2 2 2	11,712	157,445
Poultry grit	tons	• • •	74	477	2,371	1,041	1,365	781	6,109
	\$	***	740	1,602	11,877	1,987	6,500	4,690	27,596
Stucco dash	tons	***		1,112	150	86		2,766	4,114
	\$		* * *	6,918	800	378	* * *	15,995	24,091
Terrazzo chips	tons			2,796	2,231		* * * *	* * *	5,027
	\$			16,467	12,270				28,757
Rock wool	tons			***	8,315			***	8,515
	\$				8,539				8,559
Rubble and riprap	tons	4,730	16,029	432,091	41,528	530		86,681	581,589
	\$	5,484	9,937	254, 385	33,321	725	***	63, 521	567,175
Crushed stone -									
Concrete aggregate	tons	44.889		1,873,809	662,885				2,581,583
	\$	112,223		1,335,458	538,545			***	1,986,226
Road metal	tons	46,000	53,556	1,062,551		14,894		99,549	2,958,613
	\$	72,000	41,223		1,492,642	14,264		81,908	2,484,595
Railroad ballast	tons	***		86,258	352,228	1,179		6,840	446,505
	\$			70,518	243,857	1,135		6,840	522,548
TOTAL CANADA	tons	113,602	138,148	3,775,330	3,526,242	38,347	7,942	341,190	7,940,801
A STATE OF THE STA	\$	269,345	347,864	3,609,567		64,898	24,303	406,771	8,000,684
Per cent of total Qua	ntity	1.43	1.74	47.54	44.41	0.48	0.10	4.50	100,00
Val	นอ	3.37	4.35	45.11	40.98	0.81	0.30	5.08	100.00

(x) Includes the production of slate and marl.

Table 10 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES, BY KINDS, SHOWING PURPOSES FOR WHICH USED,

For use as follows		Granite (a)	Limestone (b)	Marble	Sandstone	Slate	TOTAL
1940							
Building stone - Rough	tons	54,214	15,095	58	1,514		70,881
	\$	120,372	70,885	3,070	5,658		199,985
Dressed	tons	10,908	13,281	131	2,135		26,455
	\$	255,527	192,183	19,680	55,139		522,529
Monumental and ornamental stone -							WY.F
Rough	tons	5,230	4	52			5,286
	\$	55,176	80	1,704			56,960
Dressed	tons	2,623	47		4 9 4		2,670
	\$	223, 203	2,218		2016		225,421
Flagstone	tons	137	585		401		1,123
	\$	310	1,943		2,886		5,139
Curbstone	tons	844	***		539		1,385
	\$	4,142			1,617		5,759

Table 10 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES, BY KINDS, SHOWING PURPOSES FOR WHICH USED,

or use as follows		Granite (a)	Limestone (b)	Marble	Sandstone	Slate	TOTAL
		(6)	(6)				
1 9 4 0 (Con.)							
aving blocks	tons	8,383					8,383
	\$	17,165			***		17,165
ining open-hearth furnaces	tons	• • •	34,565		***		34,565
	\$	1	24,518				24,518
newical -							
Flux in iron and steel furnaces	tons	***	167,476	166			167,642
	\$.	***	136,598	358	* * *		136,956
Flux in non-ferrous smelters	tons	***	163,512			* * *	163,512
	\$		103,446				103,446
Glass factories	tons		1,613	121			1,734
	\$		2,016	692			2,708
Pulp and paper mills	tons		248,755				248,758
all to the same had been been a	\$		31.5,080				315,080
Sugar refineries	tons		10,164	***			10,164
	\$		12,331	***			12, 331
ther chemical uses	tons		133,878		***	* * *	133,878
	\$		111,275				111,275
ilverized Stone -							
Thiting (substitute)	tons		900				900
	\$		9,600		* * *		9,600
Asphalt filler	tons	70	13,311				13,311
	\$		45,284		***		45, 284
Dusting coal mines	tons		610				610
	\$		2,440		***		2,440
agricultural purposes and							
fertilizer plants	tons		174,114	1,440			175,554
	\$		272,161	3,070			275, 231
ther uses	tons		27,464	378			27,842
	\$	***	55,228	2,112			57,340
rushed stone for manufacture	tons			800			800
of artificial stone	\$.			3,526			3,526
oofing granules	tons	12,406	524			1,113	14,043
	\$	105,709	1,274			7,522	114,505
oultry grit	tons	2	1,877	1,499			3,378
	\$	57	8,211	7,120			15,388
tucco dash	tons	2	55	1,327			1,384
	\$	55	266	9,129			9,450
errazzo chips	tons		1,290	3,484			4,774
	\$		5,650	17,184			22,834
ock wool	tons		5,825				5,825
	\$		6,451			* * *	6,451
ubble and riprap	tons	168,274	267,934	3,980	12,526	• • •	452,714
wire water of accessors	\$	126,302	156,862	7,562	7,909		298,635
	* EII	2.00 9 00 10	200,00%	,,00%	,,000		200,000
rushed stone -							
Concrete aggregate	tons	288,703	2,352,153		32,222		2,673,078
	\$	341,581	1,784,808		45,098		2,171,487
Road metal	tons	160,819	2,018,353	303	121,138		2,300,613
	\$.	186,714	1,517,592	202	181,236		1,885,744
Railroad ballast	tons	435, 202	455, 206	***	6,000		896,408
		448,097	287,675		6,000		741,772
	-						
TOTAL CANADA (b)	tons	1,147,747	6,108,591	13,739	176,475	1,115	7,447,665

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

Table 10 - PRODUCTION (SALES) OF STONE FROM CANADIAN QUARRIES, BY KINDS, SHOWING PURPOSES FOR WHICH USED,

or use as follows		Granite (a)	Limestone (b)	Marble	Sandstone	Slate	TOTAL
2.0.4.2							
1941							
wilding stone - Rough	tons	2,589	15,687	61	1,902		20,23
	\$	11,248	36,557	3,036	9,584		60,42
Dressed	tons	13,772	19,455	422	374	4 4 4	34,02
	\$	284,803	241,298	51,535	15,016		592,65
onumenta_ and ornamental stone -							
Rough	tons	7,260	148	24		***	7,43
	\$	81,073	434	798	***		82,30
Dressed	tons	4,925	52		20		4,99
	\$.	291,643	2,339		400		294, 38
lagstone	tons	150	1,459		927		2,53
zuga vano	\$	336	2,625		5,474		8,43
hambaka wa	tons	3,379	70		31		3, 48
urbstone	4		42		207		,
	4	14,483		***		***	14,73
aving blocks	tons	2,106		***			2,10
	\$	16,931		• • •	***	* * *	16,95
ining open-hearth furnaces	tons		29,124			***	29,12
	\$		20,893	***			20,89
hemical -							
Flux in iron and steel furnaces	tons		254,998		***		254,99
	\$		222,916		***		222,91
Flux in non-ferrous smelters	tons		275,918			***	275,91
	8		178,543		• • •		178,54
Glass factories	tons	• • •	2,605	899	***		3,50
GIGBS IGCOVINGS STREET, TESTINESS	4		3,256	3,428	•••	***	6,68
Pulp and paper mills	tons	• • •	240,031	334			240,36
Litth auto haber milits	4	* * *		668	***		305,69
0 01	₩	***	305,023		• • •		
Sugar refineries	LOUS	***	6,219	***		***	6,21
	\$	***	8,024	***	* * *		8,02
Other chemical uses	tons		184,686			• • •	184,68
	\$	***	167,716	***	•••		167,71
1 04							
ulverized Stone -	,		5 403				F 40
Whiting (substitute)	tons	* * *	5,481		***		5,48
	\$	101	31,907		***	* * *	31,90
Asphalt filler	tons	425	18,463	5,240		63	24,19
	\$	1,635	62,089	9,956		504	74,18
Dusting coal mines	tons	* * *	1,894	* * *			1,89
	\$		8,472				8,47
Agricultural purposes and	tons		216,657	480	***		217,13
fertilizer plants	\$		453,548	840	***		454, 58
Other uses			12,871	837			15,70
	*		37,278	4.267			41,54
rushed stone for manufacture of	tons			862			86
artificial stone	ě.	• • •		3,711			3,71
	toma.	14,274	007		***	007	16,04
oofing granules	tong		887	414	***	887	
	*	143,328	2,405	0.105	***	11,712	157,44
oultry grit	tons	2	3,912	2,195	* * *		6,10
	\$	90	16,397	10,909			27, 59
tucco dash	tons	5	2,697	1,412	***		4,11
	\$	115	14,958	9,018	• • • •		24,09
errazzo chips	tons	4	896	4,131			5,02
	\$		2,688	26,049			28,73
ock wool	tons		8,313		•••		8,31
	\$		8,359	***			8,33
ubble and riprap	tons	118,328	414,827	410	47,678	546	581,58
					,		,

Table 10 - PRODUCTION (SALES) OF STONE FROM CAMADIAN QUARRIES, BY KINDS, SHOWING PURPOSES FOR WHICH USED,

		the state of the s	941 - (Con.)				
For use as follows		Granite (a)	Limestone (b)	Marble	Sandstone	Slate	TOTAL
1941 (Con.)							
Crushed stone -							
Concrete aggregate	tons	178,611	2,350,850		52,122		2,581,583
	Ş	214,956	1,648,057		123,213		1,986,226
Road metal	tons	254,171	2,647,797	342	56,303		2,958,613
	\$	352,378	2,038,208	228	93,579		2,484,393
Railroad ballast	tons	925	435,052		10,528		446,505
	\$	555	310,974		10,819		322, 348
TOTAL CANADA (b)	tons	600,922	7,151,049	17,649	169,885	1,296	7,940,801
	\$	1,498;786	6,057,727	126,081	305,528	12,562	8,000,684

(a) Includes all igneous rock.

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

GRANITE

Table 11 - PRODUCTION OF GRANITE(x) IN CANADA, 1932 - 19	Table	77 -	PRODUCTTON	OF	GRANTTE!	(30)	TN	CANADA.	1932 -	194
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Year	Short tons	\$	Year	Short tons	\$
1932	490,822	1,110,582	1937	1,135,099	1,827,433
1933	256,723	679,585	1938	705,307	1 779,417
1934	200,285	781,739	1939	1,102,395	~,119,501
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

(r) Includes all igneous rock.

"The stone quarried in this industry consists of granite and related crystalline igneous rocks used for building, decorative, ornamental, or constructional purposes. Producing properties are situated in Nova Scotia, New Brunswick, quebec, Ontario, Manitoba, and British Columbia. Large areas in Canada are underlain by granite, and the prospects of finding stone suitable for its various uses are good.

"Much of the granite produced in Canada is used for foundations for highways; for the permanent ballasting of railway roadbeds; for heavy aggregate in large concrete structures; for the filling of breakwaters; and for bridge piers. The marked curtailment of such operations during the past several years has seriously affected production. Production is still far below the record years.

"Granite for monumental use is produced in the Maritime Provinces and in Quebec, Ontario, Manitoba, and British Columbia, and is finding a small but steadily increasing market. Black granite has been quarried in Canada, notably in the vicinity of Lake St. John, Quebec, and from quarries along the north shore of Lake Superior, and stone from these areas should find a ready market for monumental use. Other deposits of black granite' in the Maritime Provinces, Quebec, Ontario, and Manitoba show promise of yielding stone of good quality.

"Now that shipments from the Scandinavian countries to the United States and to Canada have been discontinued, Canadian producers would be well advised to give careful study to the market possibilities of a monumental stock, especially for the black and red varieties.

"In the building trade, coloured granites are being used to an increasing extent in the form of thin polished slabs for trim for buildings in which the main colour scheme calls for contrast.

"Canadian gramites are suitable for all the purposes for which gramite is used, and with persistent advertising there is no reason why this industry should not have a flourishing future." (Bureau of Mines, Ottawa)

LIMESTONE

Table 12 -	PRODUCTION	OF LIMESTONE	IN CANADA.	1932-1941
------------	------------	--------------	------------	-----------

Year	Short tons	\$	Year	Short tons	\$
1932 1933 1934 1935	3,687,241 2,572,311 3,747,779 3,631,665 3,731,548	3,227,715 2,142,516 3,157,832 3,253,573 3,143,872	1937	5,542,806 4,288,507 4,149,589 6,108,591 7,151,049	4,673,942 3,864,619 3,817,551 5,126,075 6,057,727

"Limestone in blocks of large dimensions for sawing into building stone is quarried in Quebec, Ontario, and Manitoba. In Quebec, quarries at St. Marc des Carrières, Portneuf county, produce grey limestone, and several in and near Montreal yield limestone of similar colour. In Ontario, a large quarry near Queenston in the Niagara peninsula yields silver-grey limestone as well as small quantities of buff and of variegated buff and grey. At Longford Mills, near Orillia, buff, silver-grey, and brown limestone for use both as marble and as building stone is available, but has not been quarried for the past several years. The Manitoba quarries are near Tyndall and yield mottled buff, mottled grey and mottled variegated limestone. Besides these large quarries, the products of which have a wide shipping range, small quarries producing building stone for local use are worked near Quebec City, Montreal, and Hull in Quebec; and at Ottawa, Kingston, Erin, and Wiarton in Ontario. Rubble is their chief product.

"Some of the quarry companies market stone in all stages of manufacture, from the mill block to elaborately carved material; others sell stone only in the mill block. Waste material is utilized for crushed stone, rubble, riprap, flagging, chemical and metallurgical purposes, and for lime manufacture.

"There were no developments of importance in 1941. Although building construction is very active owing to defence needs, most of the buildings are of the factory type and require little cut stone; thus, the building-stone industry is relatively inactive and a number of the quarries are either shut down or operated only for a short time each year.

"The limestone deposits being worked for building stone are favourably situated in respect to centres of population and the supply of stone is adequate for present and future demands.

"Prices of limestone in the mill block f.o.b. quarry have remained almost stationary in recent years, and range from 50 cents to \$1 per cubic foot, depending on the size of block and grade of stone.

"Limestone is available in great bedded formations and in massive highly metamorphosed depositsthe former being much more common and yielding most of the production. At present, almost all Canadian limestone is won by open pit methods, though underground mining of the rock has been adopted by several companies producing limestone for chemical and metallurgical uses and for making lime. Underground mining will undoubtedly become more common, particularly for the production of high-grade stone for chemical use, as the readily accessible parts of deposits become worked out.

"Of significance in connection with future production of pure limestone is the progress being made in beneficiation, whereby siliceous material is in part removed from limestone by flotation. This method of purifying limestone is now in use at several Portland cement plants in various parts of the world.

"Limestone is widely distributed and is quarried on a large scale in all industrial countries. Rarely is there any considerable international trade in it, but, because foreign limestone can be obtained more cheaply at certain large consuming centres in Canada than the domestic, considerable quantities are imported from the United States and Newfoundland for use as blast furnace flux, and from the United States alone for road metal, and for use in some pulp mills in Ontario near the International Boundary. Comparatively small tonnages are exported to the United States for use in agriculture and in sugar refineries. No separate record is maintained of the trade in limestone.

"For domestic use, limestone is marketed in a variety of forms ranging from huge squared blocks of dimension stone used in construction, to extremely fine dust used chiefly as a mineral filler. Some of the products are processed but little if at all from the condition in which the rock is obtained from the quarry, as for example limestone used in the wood pulp industry, but the bulk of the output is crushed and screened for use as road metal, concrete aggregate, railroad ballast, and as flux in matallurgical plants. Large

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quantities are used in the manufacture of Portland cement, lime, and various chemical products. Argillaceous dolomite is used in the manufacture of rock wool. This industry is steadily expanding in Canada and in 1941 its output was valued at well over £1,000,000. Pure dolomite is assuming a position of importance as a raw material for the manufacture of magnesium metal. A process has been developed to extract magnesium directly from calcined dolomite, and a plant employing this process is now under construction in Ontario. Calcined dolomite is also used in other countries to precipitate magnesia from sea water and magnesium chloride brines—the magnesia so obtained being used either for the manufacture of magnesium metal or for refractory materials. A present use for limestone, capable of enormous development, is in agriculture. Though the necessity of applying limestone or lime to agricultural land in order to maintain or increase soil fertility has been emphasized for many years by authorities on agriculture, the quantity so used in Canada is still very small, whereas if the proper quantity were applied it would constitute one of the principal outlets for limestone."

(Bureau of Mines, Ottawa)

MARRLE

Table 15 - PRODUCTION OF MARBLE IN CANADA, 1932 - 1941

Year	Short tons	\$	Year ·	Short tons	\$
1982	12,379	250,706	1937	21,642	88,595
953	10,897	65,913	1938	19,375	87,274
934	13,783	69.475	1959	14.124	200,054
935	15,975	85,369	1940	13,739	75,409
1936	22,866	169,698	1941	17,649	126.081

"Marble quarries are operated in the provinces of Quebec, Ontario, Manitoba, and British Columbia. The products include squared blocks for sawing into slabs and for making monuments, and broken marble for rubble and for making terrazzo, stucco dash, whiting substitute, marble flour and artificial stone. Waste from some of the quarries is sold for chemical uses and for road metal.

"In Quebec, several varieties of clouded grey marble and also a black marble are quarried at Philipsburg by Missisquoi Stone and Marble Company, Limited. Some brown marble used for counters and wainscoting is obtained from the building stone quarries in the Trenton limestones at St. Marc des Carrières, Portneuf county. Dolomitic white marble is quarried and crushed by White Grit Company at Portage de Fort, Pontiac county, and by Canada Marble and Lime Company at l'Annonciation, Labelle county, for the making of terrazzo chips, stucco dash, poultry grit, artificial stone, and for chemical and ceramic uses. A small quantity of dark red marble has been quarried at Cap St. Martin near Montreal, chiefly for making tombstones.

"In Ontario, black marble is quarried at St. Albert, near Ottawa, by Silvertone Black Marble Quarries, Limited. Recently a 40-inch bed of marble was uncovered in this quarry which, because of its soundness and uniformity, is suitable for making large monolithic pillars. White marble is quarried at Marmore by Bonter Marble and Calcium Company, Limited, and at Haliburton by Bolender Brothers for making terrazzo chips, poultry grit, stucco dash, and artificial stone. 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.

"In Manitoba, a number of highly coloured marbles are available, but there is only a small production to supply terrazzo chips and building rubble.

"In Alberta, a deposit of Calcareous tufa near Radnor station on the Canadian Pacific Railway has been quarried for terrazzo and a small quantity has also been marketed in block form.

"In British Columbia there are many deposits of marble, but there is only a small production of white marble near Victoria and on Texada Island for use as terrazzo, poultry grit, marble sand, and whiting substitute.

"Many known deposits of beautifully coloured marbles have never been fully investigated, chiefly because the present demand in Canada for marble of any one colour, other than for a steple variety such as white, is comparatively small.

"The war has adversely affected the Canadian marble industry, for though construction activity is again at a high level, most of the buildings erected are of the industrial type in which little or no standing marble is used.

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"The Canadian market calls for interior decorative marble almost entirely, and very little is used for tombstones. In recent years there has been an increasing demand for marble in the form of terrazzo for flooring, and many inquiries have reached the Bureau of Mines, Ottawa, as to where marbles of various colours can be obtained." (Bureau of Mines, Ottawa).

SAMDSTONE

Table 14 - PRODUCTION OF SANDSTONE IN CANADA, 1932 - 1941

Year	Short tons	\$	Year	Short tons	\$
1932	500,480	349,458	1937	235,165	543,871
1933	99,043	108,562	1938	101,854	218,405
1934	115,169	143,283	1939	176,265	331,830
1935	342,824	838,005	1940	176,475	305,543
1956	285,508	495,856	1941	169,885	305,528

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 1941 from quarries located in all of the provinces with the exception of Prince Edward Island, Manitoba and Saskatchewan.

The greater part of the crude output in 1941 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.

SLATE

Table 15 - PRODUCTION OF SLATE IN CANADA, 1932 - 1941

Year	Short tons	\$	Year	Short tons	\$
1932	250	3,750	1937	900	5,519
1933	250	3,750	1938	979	6,311
1934	738	4,802	1939	1,149	6,760
1935	1,129	4,329	1940	1,113	7,522
1935	1,247	5,414	1941	1,296	12,562

Canadian slate production in 1941 came entirely from the provinces of Quebec and British Columbia and represented shipments of the stone in the form of granules for roofing purposes, riprap and asphalt filling. No Canadian deposits of slate suitable for the production of high grade roofing slates or shingles have been reported as being under development in recent years.

Table 16 - PRODUCTION OF STONE FOR BUILDING PURPOSES, CHEMICAL USE, CEMENT MANUFACTURE, CONCRETE AGGREGATE,

		Building stone(a)	For chemical purposes(b)	For concrete aggregate	For road metal	For railroad ballast	For cement manufacture
954	tons	52,665	489,580	821,099	2,062,487	345,802	806,546
	\$	490,095	447,429	608,240	1,668,927	209,296	***
935	tons	200,899	537,799	804,719	1,976,363	351,302	818,443
	\$	1,258,741	483,709	523,847	1,987,351	211,993	
936	tons	42,335	615,207	1,014,145	1,903,927	784,081	1,180,358
	\$	714,616	553,597	730,617	1,653,134	659,656	
937	tons	49,098	693,947	1,497,655	3,169,136	642,248	1,465,168(c)
	\$	746,370	626,297	1,214,181	2,522,080	570,606	
938	tons	49,666	551,737	981,739	2,721,922	86,019	1,358,689(d)
	\$	725,402	468,000	791,971	2,347,010	53,816	
939	tons	71,238	577, 278	1,344,636	2,131,306	600,266	1,407,099(d)
	\$	1,334,340	525,579	1,109,028	1,773,337	522,382	111
940	tons	97,336	725,685	2,673,078	2,300,613	896,408	1,784,291(d)
	\$	722,514	681,796	2,171,487	1,885,744	741,772	
941	tons	54, 262	965,690	2,581,583	2,958,613	446,505	2,113,618(d)
	\$	653,077	889,574	1,986,226	2,484,393	322,348	

For FOOTNOTES see Page 14.

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Stone

Footnotes to Table 16:

(a) Does not include monumental or ornamental stone.

(b) Does not include limestone used in Canadian lime industry.

(c) Includes shale.

(d) Includes 13,821 tons shale in 1938, 27,241 tons in 1939, 18,347 in 1940 and 25,837 in 1941.

WHITING SUBSTITUTE

(Bureau of Mines, Ottawa)

"Whiting substitute, as the name implies, is a material that may be used in place of chalk whiting, all of which originates in England or in Europe. It may be made from white limestone or white marble, marl, lime, or the waste calcium carbonate sludge resulting from the manufacture of caustic soda.

"The principal differences between whiting made from chalk, and whiting substitute made from marble or limestone are that the latter is usually whiter, has a low capacity for absorbing oil, and the individual particles are sub-angular rather than rounded.

"The products made from white marble or white limestone are pulverized to various degrees of fineness ranging from 200 to 400 mesh; and the raw material used contains very little magnesium carbonate, though in the past a whiting substitute made from white dolomite was produced in Eastern Canada for making putty.

"Marl suitable for making whiting substitute should be white or nearly so, be nearly free from grit and clayey material, and have a very low content of organic matter. This last-named constituent, which is present to some extent in all deposits of marl, 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 in other respects the physical characteristics of the two products are much the same.

"Calcium carbonate filler, a product closely akin to whiting substitute and made by introducing carbon dioxide gas into milk-of-lime made from high-calcium quicklime, has been produced in Canada for the past several years. Its use up to the present has been as a filler in newsprint, book, and magazine paper, and its manufacture has been undertaken by the paper companies using it.

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

"Producers of whiting substitute are Pulverized Products, Limited, Montreal; Claxton Manufacturing Company, Toronto; White Valley Chemicals, Limited, Toronto; Gypsum, Lime and Alabastine, Canada, Limited, Winnipeg; and Beale Quarries, Limited, Van Anda, Texada Island, British Columbia.

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

Prices per ton, bagged and in carload lots range from \$8.00 to \$15.00 per ton f.o.b. plants."

2. SECONDARY PRODUCTION

THE STONE PHODUCTS INDUSTRY, 1941

In 1941 there were 174 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. Five producers of rock wool were also included in this industry.

Output from this industry was valued at \$3,883,496 in 1941, an increase of 8.1 per cent over the total of \$5,592,625 reported for the previous year. The 78 works in Ontario accounted for 63.8 per cent of the total output and the 40 plants in Quebec for 19.6 per cent. The average number of employees was 987 and \$1,296,554 were paid in salaries and wages. Materials used in the cutting and dressing processes, including stone, cost \$1,244,015 and expenditures for fuel and electricity amounted to \$137,842.

Table 17 - PRINCIP		200 01 1110 00	Average		951 - 1941 Cost of		Gross sell-
Year	Number of plants	Capital employed	number of em- ployees	Salaries and wages	fuel and electricity at works	Cost of materials at works	ing value of products at works
		\$		8	\$	\$	
1951	223	6,880,835	1,436	2,145,023	136,135	1,770,559	5,989,372
1952	206	5,828,109	1,003	1,200,214	108,053	928,572	2,961,914
1933	21.2	5,461,171	821	841,425	87,562	691,525	2,162,650
1934	21.8	5,194,702	881	886,809	90,874	834,325	2,407,474
1935	222	5,180,887	1,066	1,174,229	107,836	1,010,999	5,079,118
1936	227	5,766,308	1,245	1,257,808	127,151	1,070,902	5,509,911
1957	229	5,213,431	1,159	1,352,566	122,209	1,142,885	3, 571, 242
1938	234	5,172,014	1,261	1,560,951	158,259	1,271,650	5,902,774
1939	190	4,991,636	1,257	1,458,780	139,438	1,259,547	5,805,989
1940	182	4,697,903	1,061	1,236,825	1.53, 417	1,185,112	5,592,625
1941	174	4,297,208	987	1,296,534	137,842	1,244,015	5,885,496
Per cent change							
1941 from 1940.		- 8.5	- 7	+ 4.8	+ 5.5	+ 5.1	+ 8.1

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 S	TATIOTION	OF THE OTORE	Average	INDUSTRE, DE	Cost of	40 and 1941	Gress sell-
	Number	Capi tal	number	Salaries	fual and	Cost of	ing value
Provinces	of	employed	of em-	and	electricity	materials	of products
	plants		ployees	wages	at works	at works	at works
		\$					
1940							
Prince Edward Island	2)						
New Brunswick	5)	103, 345	35	35,914	5,282	20,301	86,801
Nova Scotia	8	132,683	56	36,160	2,787	27, 354	105,189
Quebec	46	1,132,560	259	287, 21.2	25,957	395,028	877,875
Ontario	81	2,592,319	563	689,923	86,762	635,495	2,101,147
Manitoba	13	185,740	55	49,794	4,638	35,964	111,282
Saskatchewan	9	144,745	38	47,280	5,468	30,545	100,821
Alberta	7	252,041	58	46,399	5, 391	25,383	123,891
British Columbia	11	154,470	57	45,643	5,152	15,042	85,617
CANADA	182	4,697,903	1,061	1,236,825	135,417	1,183,112	5,592,625
1941							
Prince Edward Island	1)						
New Brunswick	5)	97,713	50	51,634	3,205	18,752	95, 322
Nova Scotia	9	105,955	51	55.715	5,958	51,227	102,986
Quebec	40	1,093,733	214	252,604	22,292	509,060	761,881
Ontario	78	2,352,811	550	794.841	93,099	774,692	2,477,466
Manitoba	14	144,562	52	50,774	5,454	37,636	116,965
Saskatchewan	9	136,763	51	42,509	5,145	30,167	114,460
Alberta	8	228, 374	39	42,151	3,415	26,051	110,405
British Columbia	12	137,297	40	48, 328	5, 296	16,428	104,111
CANADA	174	4,297,208	987	1,296,534	137,842	1,244,013	5,885,496

Table 19 - CAPITAL EMPLOYED IN	THE STONE PRODUCTS	INDUSTRY, 1940 and 1941		
	Present value	Inventory value	Operating capital	
	of land, build-	of materials on	(cash, bills and	TOTAL
	ings, fixtures,	hand, finished	accounts receiv-	CAPITAL
Province	machinery and	products and	able, prepaid	EMPLOYED
	tools	stocks in process	expenses, etc.)	
	\$	\$	\$	\$
1940				
Prince Edward Island)	AE EOS	80 40 A	10.000	30% %45
New Brunswick)	45,593	58,484	19,268	103,345
Nova Scotia	56,055	46,015	30,615	132,683
Quebec	752,981	240,403	139,176	1,132,560
Ontario	1,649,723	471,772	470,824	2,592,319
Manitoba	57,463	85,052	43, 245	185,740
Saskatchewan	67,639	32, 502	44,804	144,745
Alberta	142,951	31,225	77,865	252,041
British Columbia	88,941	27,409	38,120	154,470
CANADA	2,861,346	972,642	863,915	4,697,903
1941				
Prince Edward Island) New Brunswick)	42,791	32,177	22,745	97,713
Nova Scotia	56,087	18,648	51,220	105,955
Quebec	733,849	230,554	129,330	1,093,783
Ontario	1,473,550	494,058	385,203	2,352,811
Manitoba	80,112	27,555	37,095	144,562
Saskatchewan	60,925	36,191	39,647	136,765
Alberta	135,217	34,682	58,475	228, 574
British Columbia	89,021	30,158	18,118	137,297
CAWADA	2,671,552	903,823	721,833	4,297,208

	A	verage nu	mber of	employee	5			TOTAL
Provinces	The second second	alaries Female	On Male	Wages Female	TOTAL	Salaries	Wages	SALARIES and WAGES
2 4 4 4				1		\$	\$	\$
1940								
Prince Edward Island)	5	5	27		55	9,250	24,664	33,914
Nova Scotia	7	7	28		36			
	71	T		***		7,814	28,346	36,160
Quebec		3	185	***	259	99,394	187,818	287,212
Ontario	144	16	400	3	56 3	232,164	457,759	689,923
lanitoba	20	5	51	1	55	22,588	27,206	49,794
Saskatchewan	19	2	16	1	58	28,098	19,182	47,280
llberta	10	4	25	1	58	17,272	29,627	46,899
British Columbia	17	1	19		57	23, 280	22,363	45,643
CANADA	293	33	729	6	1,061	439,860	796,965	1,236,825
1941 Prince Edward Island) lew Brunswick	5	5	22	• # 0	30	8,61.0	23,024	31,634
iova Scotla	7	1	23		51.	7,088	26.625	33,713
nebec	57	2	155		21.4	80,020	172.584	252,604
ntario	136	17	594	5	550	250,508	564, 333	794,841
lauf toba	25	2	26	1	52	25,795	24,979	50,774
Saskatchewan	16	2	15		51	25,181	17.328	42,509
lberta	7	5	27		59	14,661	27,470	42,151
british Columbia	18	1	21	•••	40	22,967	25,361	48, 328
CANADA	269	33	681	4	987	414,850	881,704	1,296,554

Table 21 - WAGE-EARNERS, BY MONTHS, IN THE STONE PRODUCTS INDUSTRY, 1940 and 1941 (Number on pay-rolls on the

1141-		1 9 4 0			1 9 4 1	
Months	Male	Female	TOTAL	Male	Female	TOTAL
THE RESERVE OF THE PARTY OF THE	ron	77	500	500		
January	563	3	566	508	1	509
February	573	2	575	505	1	500
March	591	2	593	562	1	563
April	728	3	731	671	1	672
*** y ************	773	. 4	777	740	1	741
June	802	6	808	758		758
July	834	6	840	756	3	759
Accust	838	6	844	760	2	762
September	840	. 5	845	753	3	756
October	733	5	738	762	2	764
November	71.6	4	720	716	2	718
December	621	4	625	627	3	630
AVERAGE	729	6	735	681	4	685

Table 22 - HOURS WORKED PER WEEK BY WAGE-EARNERS IN THE STONE PRODUCTS INDUSTRY, 1940 and 1941 (In one week of highest employment; overtime included)

	worked per week Number of wage-carners 1940 1941 Hours worked per week			Number of wage-earners		
Hours worked per week			1940	1941		
30 hours or less	87	35	51 - 54 hours	50	111	
31 - 43 hours	156	105	55 hours	28	22	
14 hours	284	237	56 - 64 hours	110	103	
45 - 47 hours	73	72	65 hours and over	121	79	
8 hours	113	156	Total	1,096	960	
49 - 50 hours	-74	40	Total wages paid in			
			selected week	26,504	33,992	

	Unit of	1 9	4 0	1 9	3 4 1
Ginds	measure	Quanti ty	Cost at works	Quantil ty	Cost at works
			\$		\$
dituminous coal - Canadian	ton	165	1,497	189	1,694
Imported	ton	2,300	14,766	2,689	17,556
inthracite coal	ton	298	3,298	332	3,917
ignite coal	ton	13	72	22	131
oke	ton	146	1,600	190	2,083
Basoline	Imp.gal.	30,268	8,933	60,563	20,249
Gerosene or coal oil	Imp.gal.	119	15	346	40
uel oil	Imp.gal.	94,721	7,539	71,050	5,538
lood	cord	262	1,288	312	1,733
as - Manufactured	M cu.ft.	64	65	68	67
Natural	M cu.ft.	843	389	545	265
ther fuel		***	805		825
lectricity purchased	K.W.H.	6,727,888	93,150	6, 315, 783	83,744
TOTAL			133,417		137.842

	Ordinar	ily in use	In reserve or idle		
	Number of units	Total rated horse power	Number of units	Total rated horse power	
1 9 4 0					
Steam engines and steam turbines	1	150			
Diesel engines	3	106			
Gasoline, gas and oil engines (other than diesel)	10	234			
Total Primary Equipment	14	490			
Electric motors run by purchased power	667	8,445	63	1,042	
TOTAL	681	8,935	63	1,042	
Electric motors run by power generated by above					
orimary units	1	10	0.0.0		
Stationary boilers	5	302	444		

	Ordinari.	ly in use	In reser	ve or idle	
	Number	Total rated	Number	Total rate	
	of units	horse power	of units	horse power	
1 9 4 1					
Steam engines and steam turbines	2	157			
Diesel engines	3	157			
Gasoline, gas and oil engines (other than diesel)	11	224	1	2	
Hydraulic turbines or water wheels	17	1.5 553	1	2	
Slectric motors rum by purchased power	695	8,347	71	1,133	
TOTAL	712	8,900	72	1,135	
Sectric motors run by power generated by above					
primary units			• • •		
Stationary boilers	7	320	1	90	
		1940	at works	9 4 1	
			1		
				\$	
Stone - (a) From Canadian quarries		380,650 235,872		373,780 185,162	
conuments, cut and polished, for lettering only		99,114		73,773	
all other materials		467,476	611,272		
TOTAL		1,183,112	1,:	244,013	
Table 26 - OUTPUT OF THE STONE PRODUCTS INDUSTR:, 1940 as	1941				
and to - United of the broke from the board; resto to		TOTAL SELLING	VALUE AT WORKS		
Products		1940	1 3 4 1		
nunite, cut and polished -		\$	\$		
(a) Monuments		1,416,298	1,582,0	16	
(b) For building purposes		159,427	92,8	99	
Marble, cut and polished -					
(a) Monuments		167,805	186,26	39	
(b) For building purposes		218,271	148,2		
arble chips and dust		14,005	22, 3	26	
imestone -					
(a) Monuments and bases		29,861	51,8	30	
(b) For building purposes		446,441	384,26	55	
inished momments, lettered only		132,775	120,68	31	
			210,00		
ther products (x)		964,112	1,249,06	55	

43,628

3,592,623

65,861

3,883,496

Repairs and custom work (re-lettering, etc.)

(x) Includes rock wool, etc.

TOTAL

Table 27 - PRODUC					, BY PR					
	GRAN	ITE	MAR	ELE			STONE	Finished		
	Monu- ments	For building purposes	Monu- ments	For building purposes		ments and bases	For building purposes	monu- ments, lettered	Other products	TOTAL
	\$	\$	\$	\$	\$	\$	\$	\$	8	8
Prince Edward Island and New Brunswick - 1940	61,634 73,588		13,081 14,411			1,430	•••	6,381 2,260	700 2,7 9 5	86,801 95,522
Nova Scotia -										,
1940	63,015 44,870		11,334		***	75 1,065		26, 201 38,172	1,630 7,505	105,189
Quebec - 1940		109,680		116,835 57,565	4,442 7,862			9,710	242, 344 283, 053	877,875 761,881
Ontario - 1940	738,932 881,220		75,740 85,337	79,305 73,164			591,855 559,559	50,407 36,616	724,519 998,655	2,101,147 2,477,466
Manitoba - 1940	60,514 66,460		8,490 18,366	8,673	3 00 350	2,288	• • •	25,568 26,644	1,361. 925	111,282
Saskatchewan - 1940	42,357 50,134		29,463 57,568	275	875 1,707		295 1,694	13,228	7,950 15,841	100,821
Alberta - 1940 1941	49,373 50,233		17,650 12,328	6,000 8,000	8,000 10,112			641	1,084	125,891 110,405
British Columbia 1940 1941	67,790 79,575	,	2,155 2,276	7,183 9,565	64 125	• • •	180 240	1,190 2,000	3,726 4,613	85,617 104,111
CANADA - 1940	1,416,2 9 8 1,582,016	,		213,271 148,294			-	152,775 120,681	1,007,740 1,514,926	3,592,623 5,883,496

	GRAN	GRANITE		MARBLE		ONE	Sand-	
Years From quarries	From quarries			From dressing works	From quarries	From dressing works	stone from quarries	TOTAL
	\$	\$	\$	\$	\$	\$	\$ 100	\$
1927	267,194	83,877		673,126	716,929	1,713,446	8,784	3,463,355
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	1,539,108	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	19,500	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	2,094,841
1936	171.858	530,306	104,738	175,834	189,064	514,575	167,859	1,654,034
1937	252,346	179,557	18,297	347,405	248,659	438,450	51,893	1,556,607
1938	244,501	216,485	1,440	369,698	227, 324	\$32,123	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

Table 29 - T	the state of the s	TON IN CANADA		BLE	AND	LIMES	Spekerment in the second description of the	1926-1941 Sand-	made majoran danta dinastri da dinastri
Years	From	From dressing	From	From dressing	Ī	From	From dressing	stone from	TOTAL
	quarries	works \$	quarries \$	works	9	uarries \$	works *	quarries \$	8
1926	196,820	1,619,206	466,648	376,859		3,908	94,446		2,757,887
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		2,143,070
1932	196,071	1,164,283	* * *	180,323		2,532	43,652		1,586,881
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		1,732,001
1936	231,482	1,317,005		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	225, 205	1,416,298	• • •	167,805		2,218	29,861		1,839,385
1941	291,643	1,582,016		186,269		2,339	31,820	400	2,094,487

(x) Sandstone.

	Production	IMPORTS		
	\$	Pounds		
332 (From October 12)		309,791	5,301	
33	* * *	2,230,762	38,262	
34	1,709	2,987,611	69,267	
35	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	
941	1,185,324	2,633,544	74,791	

	Full thick batts	Semi-thick batts	Granulated	Bulk or loose wool	Industrial
	sq.ft.	sq.ft.	cu.ft.	cu.ft.	cu.ft.
1940					
amary	331,517	380,178	119,568	73,055	37,288
ebruary	226,740	258,073	105,443	35,988	28,559
arch	179,727	289,391	89,642	16,901	33,766
pril	281,992	355,404	76,995	34,594	42,031
ay	625,862	696,403	125,025	33,190	39,556
une	556,432	673,718	103,257	30,373	25, 263
uly	632,656	1,859,735	94,355	39,306	32,839
ugust	531,399	1,618,573	92,297	35, 237	34,852
eptember	627,456	2,080,996	108,733	53,451	27,155
ctober	843,340	2,212,875	121,545	56,531	40,655
ovember	729,198	2,187,894	192,130	54,161	47,508
ecember	668,037	1,481,434	129,928	28,431	40,183
TOTAL	6,234,356	14.094.674	1.358.916	491,218	429,655

Table 31 - SALES OF ROCK	WOOL BY CANAD	IAN PRODUCERS,	1940 and 1941	(Concluded)		The same of the
	Three inch	Two inch	One inch	Granulated	Bulk or	Industrial
	batts	batts	batta	wool	loose wool	wool
	sq.ft.	sq.ft.	sq.ft.	cu.ft.	cu.ft.	cu.ft.
1 0 4 1						
1941						
January	385,610	1,082,115	***	91,926	26,821	22,960
February	410,422	904,651		79,110	28,416	40,531
March	323,169	660,377		87,438	15,238	43,972
April	430,459	751,183		61,128	23,389	40,964
May	670,589	1,349,373	20,700	102,539	23,785	35,394
June	521,334	1,295,423	84,427	137,030	37,175	33, 579
July	941,247	1,778,731	392,276	126,428	29,587	37,288
August	1,335,141	1,781,498	579,675	149,558	38,496	36,879
September	800,585	1,678,827	644,262	182,157	63,320	32,356
October	1,021,775	3,122,082	661,573	199,697	71,909	39,641
November	1,106,597	3,259,235	780,962	167,487	54,164	28,107
December	728,548	2,701,034	584,795	200,440	35,154	57,327
TOTAL	8,675,476	20, 364, 529	3,748,670	1,584,938	447,454	448,798

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