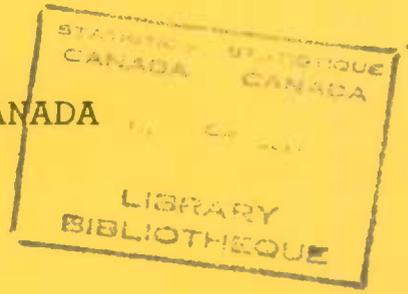


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GOVERNMENT OF CANADA



# THE STONE INDUSTRY

1951



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DOMINION BUREAU OF STATISTICS—DEPARTMENT OF TRADE AND COMMERCE

## THE STONE INDUSTRY, 1951

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## NOTICE

The annual reports prepared by the Industry and Merchandising Division of the Bureau of Statistics are divided into 4 volumes, as follows: **Volume I**—The Primary Industries, including mining, forestry and fisheries; **Volume II**—Manufacturing; **Volume III**—Construction; **Volume IV**—Merchandising and Services. The volumes are made up of parts, and the parts in turn are subdivided according to the industries which they comprise.

Volume I consists of the following parts:

Part I—Mineral Statistics

Part II—Forestry Statistics—Operations in the Woods

Part III—Fisheries Statistics

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

- A—General Review of the Mining Industry, 50¢.
- B—The Gold Mining Industry, 50¢.
- C—The Silver-Lead-Zinc Mining Industry, 25¢.
- D—The Nickel-Copper Mining, Smelting and Refining Industry, 25¢.
- E—The Miscellaneous Metal Mining Industry, 25¢.
- F—The Non-ferrous Smelting and Refining Industry, 25¢.
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- R—The Lime Industry, 25¢.
- S—The Sand and Gravel Industry, 25¢.
- T—The Stone Industry, 25¢.
- U—Contract Diamond Drilling in the Mining Industry, 25¢.

# THE STONE INDUSTRY, 1951

The Stone Industry is made up of two main divisions: (1) The Stone Quarrying Industry, including quarries and dressing works operated in conjunction with quarries; (2) The Stone Products Industry, comprising the operations of firms having no quarries but which operate dressing works where stone for building and monumental purposes is cut, polished

or otherwise finished. In the Census of Industry, statistics on the stone quarrying industry are included under Mining, while statistics of the stone products industry are included under Manufactures. For convenience, this report carries data for both of these industries.

## PRIMARY PRODUCTION — THE STONE QUARRYING INDUSTRY

The kinds of stone quarried in Canada include granite (trap rock, syenite and other igneous rock), limestone, marble, sandstone, and slate. Rocks of the igneous areas of British Columbia, Manitoba, Ontario, Quebec and Maritime Provinces exhibit a wide range of physical characteristics, some varieties being especially noted for their richness of colour and beauty of crystallization. Sedimentary rocks, including limestones, sandstones and marbles are worked at various locations, and the quarries operating in these different formations not only yield high class structural and decorative products but also provide materials for the chemical and allied industries.

The stone quarrying industry shipped 18,676,706 short tons of stone valued at \$28,649,768 during 1951, compared with 18,087,064 tons valued at \$25,895,357 in 1950. These figures do not include the stone used in the manufacture of cement and

lime. Shipments of granite and other igneous rock amounted to 1,950,564 tons valued at \$6,014,121. Shipments of sedimentary rock included 15,531,948 tons of limestone valued at \$20,901,704; marble, 63,982 tons worth \$492,820; sandstone, 1,124,551 tons worth \$1,173,665; and slate, 5,661 tons valued at \$67,458.

Quebec's quarries contributed 44.7 per cent of the total value of production and Ontario's quarries accounted for 36.3 per cent.

There were 536 operating quarries in 1951. The average number of employees was 3,861 to whom \$9,218,694 were distributed in salaries and wages. Fuel cost \$1,194,172 and 46,964,748 k.w.h. of electricity were purchased for \$721,776. Process supplies, which include explosives, drill steel, etc., cost \$2,761,374.

TABLE 1. Principal Statistics of the Stone Quarrying Industry, 1950 and 1951

	1950	1951
Number of firms .....	457	435
Number of employees:		
Administrative and office .....	270	270
Workmen .....	3,292	3,591
<b>Total</b> .....	<b>3,562</b>	<b>3,861</b>
Earnings:		
Administrative and office .....	\$ 708,222	\$ 770,139
Workmen .....	\$ 6,840,019	\$ 8,448,555
<b>Total</b> .....	<b>\$ 7,548,241</b>	<b>\$ 9,218,694</b>
Man — hours worked:		
Workmen .....	7,591,449	8,484,456
Administrative and office .....	691,295	623,059
Gross selling value of products at quarries .....	\$ 25,895,357	\$ 28,649,768
Cost of fuel and electricity .....	\$ 1,595,111	\$ 1,915,948
Process supplies used .....	\$ 2,019,474	\$ 2,761,374
Net value of products <sup>1</sup> .....	\$ 22,280,772	\$ 23,972,446

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

TABLE 2. Principal Statistics of the Stone Quarrying Industry, by Provinces, 1950 and 1951

Province	Number of quarries	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of process supplies at works	Gross selling value of products at works
			\$	\$	\$	\$
<b>1950</b>						
Newfoundland .....	5	107	232,418	51,368	16,823	787,228
Nova Scotia .....	29	139	278,227	75,603	90,400	755,060
New Brunswick .....	8	90	149,596	30,687	15,554	3,530,687
Quebec .....	179	1,884	3,737,971	782,103	1,075,282	10,741,698
Ontario .....	219	998	2,361,791	575,404	692,710	7,843,124
Manitoba .....	12	112	218,274	32,036	44,437	459,059
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	2	—	—	—	—	54,197
British Columbia .....	135	232	569,964	47,910	84,268	1,724,304
<b>Canada .....</b>	<b>589</b>	<b>3,562</b>	<b>7,548,241</b>	<b>1,595,111</b>	<b>2,019,474</b>	<b>25,895,357</b>
<b>1951</b>						
Newfoundland .....	4	127	335,798	36,598	33,002	792,319
Nova Scotia .....	24	129	264,987	64,761	149,036	746,919
New Brunswick .....	8	87	150,974	34,105	14,078	689,524
Quebec .....	156	2,048	4,596,539	975,650	1,495,546	12,811,218
Ontario .....	225	1,082	2,884,581	687,004	874,606	10,396,650
Manitoba .....	10	146	324,096	45,690	79,111	996,239
Saskatchewan .....	—	—	—	—	—	—
Alberta .....	2	—	—	—	—	46,820
British Columbia .....	107	242	661,719	72,140	115,995	2,170,079
<b>Canada .....</b>	<b>536</b>	<b>3,861</b>	<b>9,218,694</b>	<b>1,915,948</b>	<b>2,761,374</b>	<b>28,649,768</b>

TABLE 3. Production (Sales) of Stone From Canadian Quarries, by Kinds and by Provinces, 1950 and 1951

Province	Granite <sup>1</sup>	Limestone <sup>2</sup>	Marble	Sandstone	Slate	Total	
<b>1950</b>							
Newfoundland .....	—	443,336	—	26,315	—	469,651	
	\$	734,599	—	52,629	—	787,228	
Nova Scotia .....	131,871	99,581	—	23,345	—	254,797	
	\$	404,344	—	112,615	—	755,060	
New Brunswick .....	817	104,726	—	2,955,399	—	3,060,942	
	\$	21,307	—	3,219,958	—	3,530,687	
Quebec .....	488,073	5,585,155	20,602	632,454	445	6,726,729	
	\$	2,485,460	7,175,454	250,114	830,225	445	10,741,698
Ontario .....	405,636	5,254,219	34,227	21,977	—	5,716,059	
	\$	1,298,836	6,192,498	174,738	177,052	—	7,843,124
Manitoba .....	24,187	215,672	—	—	—	239,859	
	\$	6,125	452,934	—	—	—	459,059
Alberta .....	—	12,894	—	—	—	12,894	
	\$	—	54,197	—	—	—	54,197
British Columbia .....	1,020,468	551,849	350	25,580	7,886	1,606,133	
	\$	755,072	827,412	11,650	25,580	104,590	1,724,304
<b>Canada .....</b>	<b>2,071,052</b>	<b>12,267,432</b>	<b>55,179</b>	<b>3,685,070</b>	<b>8,331</b>	<b>18,087,064</b>	
	\$	<b>4,971,144</b>	<b>15,964,617</b>	<b>436,502</b>	<b>4,418,059</b>	<b>105,035</b>	<b>25,895,357</b>
<b>1951</b>							
Newfoundland .....	3,546	462,894	—	—	—	466,440	
	\$	13,135	779,184	—	—	792,319	
Nova Scotia .....	143,039	102,460	—	24,682	—	270,181	
	\$	436,116	243,164	67,639	—	746,919	
New Brunswick .....	7,298	142,948	—	729,258	—	879,504	
	\$	12,647	384,259	—	292,618	—	689,524
Quebec .....	576,230	6,240,553	25,637	334,017	826	7,177,263	
	\$	3,141,177	8,782,815	289,334	597,066	826	12,811,218
Ontario .....	487,496	7,531,536	38,113	22,942	—	8,080,087	
	\$	1,485,446	8,513,829	196,986	200,389	—	10,396,650
Manitoba .....	206	382,928	—	—	—	383,134	
	\$	4,231	992,008	—	—	—	996,239
Alberta .....	—	13,310	—	—	—	13,310	
	\$	—	46,820	—	—	—	46,820
British Columbia .....	732,749	655,319	232	13,652	4,835	1,406,787	
	\$	921,369	1,159,625	6,500	15,953	66,632	2,170,079
<b>Canada .....</b>	<b>1,950,564</b>	<b>15,531,948</b>	<b>63,982</b>	<b>1,124,551</b>	<b>5,661</b>	<b>18,676,706</b>	
	\$	<b>6,014,121</b>	<b>20,901,704</b>	<b>492,820</b>	<b>1,173,665</b>	<b>67,458</b>	<b>28,649,768</b>

1. All igneous rocks included.
2. Includes dolomite, also marl for agricultural purposes.

Note. Not included in the above limestone statistics are 4,119,316 tons of limestone consumed in the cement industry in 1950 and 4,240,001 tons in 1951. Also, the limestone used in the lime industry is not included; it is estimated that approximately 1,928,127 tons of limestone were burned in the manufacture of lime in 1950 and 2,164,298 tons in 1951.

TABLE 4. Production (Sales) of Stone<sup>1</sup> From Canadian Quarries, by Provinces, Showing Purposes For Which Used, 1950 and 1951

For use as follows	Newfound-land	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada
1950									
Building stone:									
Rough .....	tons	8,145	200	15,239	42,402	2,641	—	1,908	68,535
	\$	50,810	300	151,637	352,081	28,694	—	19,705	603,227
Dressed .....	tons	406	1,674	31,243	11,975	2,599	—	2,408	50,305
	\$	52,078	94,415	1,977,241	208,137	187,142	—	144,697	2,663,710
Monumental and ornamental stone:									
Rough .....	tons	—	224	4,888	1,402	—	—	1,500	8,014
	\$	—	3,584	119,407	22,305	—	—	23,210	168,506
Dressed .....	tons	—	426	40	5,246	—	—	73	5,785
	\$	—	120,812	8,708	763,690	—	—	11,965	905,175
Flagstone .....	tons	—	35	625	6,379	—	—	—	7,039
	\$	—	500	3,945	50,144	—	—	—	54,589
Curbstone .....	tons	—	—	452	—	—	—	—	452
	\$	—	—	7,201	—	—	—	—	7,201
Paving blocks .....	tons	—	—	2,127	—	—	—	—	2,127
	\$	—	—	26,717	—	—	—	—	26,717
Chemical and metallurgical:									
Lining open-hearth furnaces .....	tons	—	26,750	—	—	28,584	2,916	—	58,250
	\$	—	69,550	—	—	34,301	6,218	—	110,069
Flux in iron and steel furnaces .....	tons	392,055	—	93	5,766	349,463	1,214	—	807,447
	\$	588,082	—	336	8,576	368,651	3,450	—	1,049,679
Flux in non-ferrous smelters .....	tons	—	—	—	—	91,279	—	—	38,899
	\$	—	—	—	—	95,535	—	—	130,178
Glass factories .....	tons	—	—	—	880	5,890	—	5,997	15,267
	\$	—	—	—	2,908	16,730	—	11,095	33,733
Pulp and paper mills .....	tons	23,778	3,600	12,378	146,767	81,978	7,456	—	381,513
	\$	55,551	11,160	33,729	389,993	188,092	24,951	—	955,066
Sugar refineries .....	tons	—	—	22	—	—	—	—	22
	\$	—	—	125	—	—	—	—	125
Other chemical uses .....	tons	—	—	—	177	1,365	—	—	1,542
	\$	—	—	—	221	1,050	—	—	1,271
Mulverized stone:									
Whiting (substitute) .....	tons	—	—	—	10,487	6,756	—	—	360
	\$	—	—	—	125,848	40,832	—	—	5,780
Asphalt filler .....	tons	—	14,000	600	11,829	14,478	—	—	3,454
	\$	—	14,000	4,400	54,177	63,492	—	—	29,610
Dusting coal mines .....	tons	—	—	—	—	—	—	2,805	200
	\$	—	—	—	—	—	—	14,025	1,450
Agricultural purposes and fertilizer plants .....	tons	3,099	69,231	69,799	298,345	101,630	252	24,841	569,234
	\$	29,927	157,391	210,471	570,757	206,768	1,260	87,199	1,258,503
Other uses .....	tons	—	—	—	27,141	18,813	—	—	110
	\$	—	—	—	96,013	76,503	—	—	2,570
Crushed stone for manufacture of artificial stone .....	tons	—	—	—	1,194	2,323	—	—	3,517
	\$	—	—	—	7,194	13,703	—	—	20,897
Roofing granules .....	tons	—	—	—	—	34,922	—	—	4,552
	\$	—	—	—	—	228,440	—	—	75,560
Poultry grit .....	tons	—	—	—	55	6,979	—	2,588	2,052
	\$	—	—	—	330	53,092	—	25,502	23,855
Stucco dash .....	tons	—	—	—	2,525	3,070	—	—	2,678
	\$	—	—	—	23,736	31,198	—	—	38,367
Terrazzo chips .....	tons	—	—	—	4,039	6,979	—	—	11,018
	\$	—	—	—	50,653	90,335	—	—	140,988
Rock wool .....	tons	—	—	—	—	1,476	—	—	1,478
	\$	—	—	—	—	2,061	—	—	2,061
Rubble and riprap .....	tons	—	5,069	1,279	379,364	376,088	23,890	1,252	1,059,031
	\$	—	10,051	1,600	546,731	822,868	21,920	2,315	602,486
Crushed stone:									
Concrete aggregate .....	tons	16,505	20,000	6,748	4,618,607	1,504,231	37,129	—	6,203,220
	\$	47,611	50,000	13,494	4,599,910	1,794,887	44,140	—	6,550,042
Road metal .....	tons	34,214	99,170	2,967,850	914,729	2,764,202	—	297,155	7,232,983
	\$	74,057	199,208	3,159,025	980,475	2,874,170	—	283,757	7,705,133
Railroad ballast .....	tons	—	10,000	—	245,004	253,395	47	—	508,448
	\$	—	20,000	—	230,338	207,749	59	—	458,146
<b>Total .....</b>	<b>tons</b>	<b>469,651</b>	<b>254,797</b>	<b>3,060,942</b>	<b>6,726,729</b>	<b>5,716,059</b>	<b>12,894</b>	<b>1,606,133</b>	<b>18,087,064</b>
	<b>\$</b>	<b>767,228</b>	<b>755,060</b>	<b>3,530,687</b>	<b>10,741,698</b>	<b>7,843,124</b>	<b>54,197</b>	<b>1,724,304</b>	<b>25,895,357</b>
Per cent of total .....	Quan.	2.60	1.41	16.92	37.19	31.60	1.33	8.88	100.00
	\$	3.04	2.91	13.63	41.48	30.29	1.77	6.67	100.00

1. Includes the production of slate and marl.

TABLE 4. Production (Sales) of Stone<sup>1</sup> From Canadian Quarries, by Provinces, Showing Purposes For Which Used, 1950 and 1951 - Concluded

For use as follows	Newfound-land	Nova Scotia	New Brunswick	Quebec	Ontario	Manitoba	Alberta	British Columbia	Canada
1951									
Building stone:									
Rough..... tons	—	280	200	15,580	46,101	93	—	1,612	63,866
\$	—	4,130	400	163,664	535,156	2,050	—	17,100	723,100
Dressed..... tons	—	336	1,098	48,642	1,200	7,231	—	1,812	60,319
\$	—	35,243	67,447	2,826,632	19,379	649,520	—	254,000	3,852,221
Monumental and ornamental stone:									
Rough..... tons	320	—	200	5,401	384	—	—	1,300	7,605
\$	1,002	—	3,200	141,611	13,291	—	—	20,500	179,604
Dressed..... tons	—	903	—	5,505	—	—	—	103	6,511
\$	—	111,993	—	782,012	—	—	—	12,550	906,555
Flagstone..... tons	—	—	30	1,875	5,448	—	—	—	7,353
\$	—	—	600	39,566	44,778	—	—	—	84,944
Curbstone..... tons	—	—	—	28	—	—	—	10	38
\$	—	—	—	652	—	—	—	1,000	1,652
Paving blocks..... tons	—	—	—	865	—	—	—	—	865
\$	—	—	—	13,148	—	—	—	—	13,148
Chemical and metallurgical:									
Lining open-hearth furnaces..... tons	—	3,200	—	—	32,081	3,283	—	—	38,564
\$	—	8,310	—	—	38,497	7,515	—	—	54,322
Flux in iron and steel furnaces..... tons	410,806	28,639	54	3,809	442,157	1,073	—	14,404	900,942
\$	652,723	57,278	162	5,298	518,969	3,240	—	28,000	1,265,670
Flux in non-ferrous smelters..... tons	—	—	—	—	100,858	—	—	36,850	137,708
\$	—	—	—	—	108,981	—	—	36,850	145,831
Glass factories..... tons	—	—	—	1,284	5,935	—	—	7,572	20,471
\$	—	—	—	4,145	18,022	—	5,680	9,220	42,747
Pulp and paper mills..... tons	24,638	5,410	7,514	166,569	98,890	10,813	—	150,939	464,773
\$	75,517	17,000	20,710	441,513	190,490	37,699	—	375,170	1,158,099
Sugar refineries..... tons	—	—	56	—	—	—	—	—	56
\$	—	—	319	—	—	—	—	—	319
Other chemical uses..... tons	—	—	—	162	8,580	—	—	—	8,742
\$	—	—	—	203	10,742	—	—	—	10,945
Pulverized stone:									
Whiting (substitute)..... tons	—	—	—	12,030	6,050	—	—	300	18,380
\$	—	—	—	144,360	41,724	—	—	4,643	190,727
Asphalt filler..... tons	—	5,000	861	7,779	25,932	2,632	—	1,958	44,162
\$	—	5,000	3,188	33,054	90,360	3,038	—	17,330	151,970
Dusting coal mines..... tons	—	—	—	—	—	—	1,185	275	1,460
\$	—	—	—	—	—	—	5,925	1,633	7,558
Agricultural purposes and fertilizer plants..... tons	218	65,211	94,503	287,290	91,345	2,337	900	29,214	571,018
\$	655	160,576	278,014	565,912	216,171	3,132	4,500	119,360	1,368,320
Other uses..... tons	—	—	—	19,145	16,532	3,041	—	120	40,838
\$	—	—	—	66,868	84,684	4,589	—	2,750	158,891
Crushed stone for manufacture of artificial stone..... tons	—	—	—	1,515	2,100	—	—	—	3,615
\$	—	—	—	9,756	16,400	—	—	—	26,156
Roofing granules..... tons	—	—	—	—	49,625	—	—	3,769	53,394
\$	—	—	—	—	236,109	—	—	56,437	292,546
Poultry grit..... tons	—	—	—	150	6,927	—	3,315	2,117	12,509
\$	—	—	—	1,770	66,818	—	20,575	30,291	119,454
Stucco dash..... tons	—	—	—	1,700	2,612	—	—	2,946	7,258
\$	—	—	—	22,100	26,747	—	—	40,306	89,153
Terrazzo chips..... tons	—	—	—	5,840	7,109	—	—	—	12,949
\$	—	—	—	69,188	94,073	—	—	—	163,261
Rock wool..... tons	—	—	300	—	—	—	—	—	300
\$	—	—	425	—	—	—	—	—	425
Rubble and riprap..... tons	—	16,767	13,000	345,198	346,525	9,048	2,230	867,412	1,600,180
\$	—	33,450	13,000	369,688	826,470	12,498	4,460	864,139	2,123,705
Crushed stone:									
Concrete aggregate..... tons	18,972	10,000	10,395	4,415,330	1,155,759	—	—	—	5,610,456
\$	31,940	20,000	31,815	4,968,187	1,364,390	—	—	—	6,416,332
Road metal..... tons	11,486	134,435	751,293	1,370,150	5,175,439	343,536	—	283,142	8,069,481
\$	30,482	293,939	270,244	1,522,739	5,440,682	272,299	—	275,567	8,105,952
Railroad ballast..... tons	—	—	—	461,416	450,498	47	—	932	912,893
\$	—	—	—	599,152	393,717	59	—	3,233	996,161
<b>Total..... tons</b>	<b>466,440</b>	<b>270,181</b>	<b>879,504</b>	<b>7,177,263</b>	<b>8,080,087</b>	<b>383,134</b>	<b>13,310</b>	<b>1,406,787</b>	<b>18,676,706</b>
<b>\$</b>	<b>792,319</b>	<b>746,919</b>	<b>689,524</b>	<b>12,811,218</b>	<b>10,396,650</b>	<b>996,230</b>	<b>46,820</b>	<b>2,170,079</b>	<b>28,649,768</b>
Per cent of total..... Quan.	2.50	1.45	4.71	38.43	43.26	2.05	.07	7.53	100.00
\$	2.76	2.61	2.41	44.71	36.29	3.48	.16	7.58	100.00

1. Includes the production of slate and marl.

TABLE 5. Production (Sales) of Stone From Canadian Quarries, by Kinds, Showing Purposes For Which Used, 1950 and 1951

For use as follows	Granite <sup>1</sup>	Limestone <sup>2</sup>	Marble	Sandstone	Slate	Total
1950						
Building stone:						
Rough..... tons	11,706	37,250	101	19,478	—	68,535
\$	136,079	302,550	6,125	158,473	—	603,227
Dressed..... tons	13,068	35,013	82	2,142	—	50,305
\$	1,003,510	1,500,511	21,812	137,877	—	2,663,710
Monumental and ornamental stone:						
Rough..... tons	6,741	—	273	1,000	—	8,014
\$	145,725	—	12,781	10,000	—	168,506
Dressed..... tons	5,755	—	—	30	—	5,785
\$	903,098	—	—	2,077	—	905,175
Flagstone..... tons	765	611	—	5,663	—	7,039
\$	1,120	4,121	—	49,348	—	54,589
Curbstone..... tons	452	—	—	—	—	452
\$	7,201	—	—	—	—	7,201
Paving blocks..... tons	2,127	—	—	—	—	2,127
\$	26,717	—	—	—	—	26,717
Chemical and metallurgical:						
Lining open-hearth furnaces..... tons	—	58,250	—	—	—	58,250
\$	—	110,069	—	—	—	110,069
Flux in iron and steel furnaces..... tons	—	806,034	—	1,413	—	807,447
\$	—	1,039,146	—	10,533	—	1,049,679
Flux in non-ferrous smelters..... tons	—	130,178	—	—	—	130,178
\$	—	134,434	—	—	—	134,434
Glass factories..... tons	—	15,267	—	—	—	15,267
\$	—	33,733	—	—	—	33,733
Pulp and paper mills..... tons	—	358,613	22,900	—	—	381,513
\$	—	901,787	53,279	—	—	955,066
Sugar refineries..... tons	—	22	—	—	—	22
\$	—	125	—	—	—	125
Other chemical uses..... tons	—	1,542	—	—	—	1,542
\$	—	1,271	—	—	—	1,271
Pulverized stone:						
Whiting (substitute)..... tons	—	7,016	10,587	—	—	17,603
\$	—	44,212	128,248	—	—	172,460
Asphalt filler..... tons	14,020	29,754	—	—	3,454	47,228
\$	14,110	125,267	—	—	29,610	168,987
Dusting coal mines..... tons	—	3,005	—	—	—	3,005
\$	—	15,475	—	—	—	15,475
Agricultural purposes and fertilizer plants..... tons	—	568,280	954	—	—	569,234
\$	—	1,256,094	2,409	—	—	1,258,503
Other uses..... tons	—	45,411	2,053	—	—	47,464
\$	—	160,435	18,657	—	—	179,092
Crushed stone for manufacture of artificial stone..... tons	—	1,800	1,717	—	—	3,517
\$	—	11,000	9,897	—	—	20,897
Roofing granules..... tons	34,922	120	—	—	4,432	39,474
\$	228,440	600	—	—	74,980	304,020
Poultry grit..... tons	574	8,906	2,194	—	—	11,674
\$	9,196	82,478	11,105	—	—	102,779
Stucco dash..... tons	1,609	2,474	4,190	—	—	8,273
\$	23,058	30,862	39,381	—	—	93,301
Terrazzo chips..... tons	—	890	10,128	—	—	11,018
\$	—	8,180	132,808	—	—	140,988
Rock wool..... tons	—	1,476	—	—	—	1,476
\$	—	2,061	—	—	—	2,061
Rubble and riprap..... tons	1,392,948	421,742	—	30,638	445	1,845,973
\$	1,551,675	424,895	—	32,956	445	2,009,971
Crushed stone:						
Concrete aggregate..... tons	321,748	5,281,533	—	599,939	—	6,203,220
\$	352,752	5,464,403	—	732,887	—	6,550,042
Road metal..... tons	254,617	3,953,799	—	3,024,567	—	7,232,983
\$	548,463	3,872,762	—	3,283,908	—	7,705,133
Railroad ballast..... tons	10,000	498,446	—	—	—	508,446
\$	20,000	438,146	—	—	—	458,146
Total <sup>2</sup> ..... tons	2,071,052	12,267,432	55,179	3,685,070	8,331	18,087,064
\$	4,971,144	15,964,617	436,502	4,418,059	105,035	25,895,357

1. Includes all igneous rock.

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

TABLE 5. Production (Sales) of Stone From Canadian Quarries, by Kinds, Showing Purposes For Which Used, 1950 and 1951 (Concluded)

For use as follows	Granite <sup>1</sup>	Limestone <sup>2</sup>	Marble	Sandstone	Slate	Total
1951						
Building stone:						
Rough .....	9,668	42,767	121	11,310	—	63,866
tons						
\$	124,156	457,594	7,442	133,908	—	723,100
Dressed .....	18,934	38,066	82	3,237	—	60,319
tons						
\$	1,458,910	2,252,313	21,812	119,186	—	3,852,221
Monumental and ornamental stone:						
Rough .....	6,973	348	284	—	—	7,605
tons						
\$	164,963	1,897	12,944	—	—	179,604
Dressed .....	6,411	—	—	100	—	6,511
tons						
\$	898,439	—	—	8,116	—	906,555
Flagstone .....	1,019	1,854	—	4,480	—	7,353
tons						
\$	3,585	39,142	—	42,217	—	84,944
Curbstone .....	38	—	—	—	—	38
tons						
\$	1,652	—	—	—	—	1,652
Paving blocks .....	865	—	—	—	—	865
tons						
\$	13,148	—	—	—	—	13,148
Chemical and metallurgical:						
Lining open-hearth furnaces .....	—	38,564	—	—	—	38,564
tons						
\$	—	54,322	—	—	—	54,322
Flux in iron and steel furnaces .....	—	899,206	—	1,736	—	900,942
tons						
\$	—	1,251,490	—	14,180	—	1,265,670
Flux in non-ferrous smelters .....	—	137,628	80	—	—	137,708
tons						
\$	—	145,591	240	—	—	145,831
Glass factories .....	—	20,471	—	—	—	20,471
tons						
\$	—	42,747	—	—	—	42,747
Pulp and paper mills .....	—	441,900	22,873	—	—	464,773
tons						
\$	—	1,085,427	72,672	—	—	1,158,099
Sugar refineries .....	—	56	—	—	—	56
tons						
\$	—	319	—	—	—	319
Other chemical uses .....	—	8,742	—	—	—	8,742
tons						
\$	—	10,945	—	—	—	10,945
Pulverized stone:						
Whiting (substitute) .....	—	6,280	12,100	—	—	18,360
tons						
\$	—	44,687	146,040	—	—	190,727
Asphalt filler .....	5,000	37,204	—	—	1,958	44,162
tons						
\$	5,000	129,640	—	—	17,330	151,970
Dusting coal mines .....	—	1,460	—	—	—	1,460
tons						
\$	—	7,558	—	—	—	7,558
Agricultural purposes and fertilizer plants....	18	567,300	3,700	—	—	571,018
tons						
\$	216	1,361,215	6,889	—	—	1,368,320
Other uses .....	—	39,368	1,470	—	—	40,838
tons						
\$	—	144,971	13,920	—	—	158,891
Crushed stone for manufacture of artificial stone	—	2,000	1,615	—	—	3,615
tons						
\$	—	16,000	10,156	—	—	26,156
Roofing granules .....	49,625	892	—	—	2,877	53,394
tons						
\$	236,109	7,135	—	—	49,302	292,546
Poultry grit .....	2,441	9,077	991	—	—	12,509
tons						
\$	35,237	77,818	6,399	—	—	119,454
Stucco dash .....	1,072	2,822	3,364	—	—	7,258
tons						
\$	15,397	36,856	36,900	—	—	89,153
Terrazzo chips .....	—	901	12,048	—	—	12,949
tons						
\$	—	7,753	155,508	—	—	163,261
Rock wool .....	—	—	—	300	—	300
tons						
\$	—	—	—	425	—	425
Rubble and riprap .....	1,022,908	492,597	—	83,849	826	1,600,180
tons						
\$	1,367,964	836,646	—	118,269	826	2,123,705
Crushed stone:						
Concrete aggregate .....	418,685	5,140,100	—	51,671	—	5,610,456
tons						
\$	701,430	5,594,003	—	120,899	—	6,416,332
Road metal .....	368,881	6,928,410	5,254	766,936	—	8,069,481
tons						
\$	892,850	6,887,972	1,898	323,232	—	8,105,952
Railroad ballast .....	38,026	673,935	—	200,932	—	912,893
tons						
\$	95,065	607,863	—	293,233	—	996,161
<b>Total<sup>2</sup></b> .....	<b>1,850,564</b>	<b>15,531,948</b>	<b>63,982</b>	<b>1,124,551</b>	<b>5,661</b>	<b>18,676,706</b>
tons						
\$	<b>6,014,121</b>	<b>20,901,704</b>	<b>492,820</b>	<b>1,173,665</b>	<b>67,458</b>	<b>28,649,768</b>

1. Includes all igneous rock.

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

**TABLE 6. Production of Stone For Building Purposes, Chemical Use, Cement Manufacture, Concrete Aggregate, Road Metal and Railroad Ballast, 1942-1951**

Year		Building stone	For chemical purposes <sup>1</sup>	For concrete aggregate	For road metal	For railroad ballast	For cement manufacture <sup>2</sup>
1942	tons	24,897	1,236,044	2,924,737	2,275,706	683,317	2,186,248
	\$	361,781	1,651,982	2,424,357	1,877,473	527,814	—
1943	tons	17,087	1,329,226	1,981,222	2,108,428	852,928	1,994,202
	\$	314,428	1,330,127	1,727,889	1,989,509	704,389	—
1944	tons	23,142	1,109,362	1,852,335	1,498,258	869,042	1,939,900
	\$	396,202	1,170,372	1,600,692	1,352,796	688,471	—
1945	tons	56,711	1,051,514	1,908,460	1,552,839	820,987	1,919,858
	\$	751,401	1,215,169	1,596,256	1,468,045	678,205	—
1946	tons	70,928	871,148	2,473,643	2,472,033	1,127,775	2,625,008
	\$	1,411,298	1,064,065	2,154,069	2,215,167	971,595	—
1947	tons	102,841	1,204,601	3,178,063	4,177,636	898,612	3,100,829
	\$	2,098,865	1,746,172	3,336,871	4,007,730	774,878	—
1948	tons	80,113	975,661	2,997,809	4,568,701	978,325	3,528,324
	\$	2,296,320	1,452,611	3,116,424	4,558,882	974,371	—
1949	tons	89,702	1,330,110	3,541,542	5,119,559	777,584	4,061,607
	\$	2,439,600	2,060,085	3,607,349	5,305,286	737,237	—
1950	tons	118,840	1,335,969	6,203,220	7,232,933	508,446	4,198,641
	\$	3,266,937	2,174,303	6,550,042	7,705,133	458,146	—
1951	tons	124,185	1,532,692	5,610,456	8,069,481	912,893	4,333,582
	\$	4,575,321	2,623,611	6,416,332	8,105,952	996,161	—

1. Does not include limestone used in Canadian lime industry which totalled 2,164,298 tons in 1951.  
 2. Includes shale. In 1951 the shale production totalled 87,081 tons.

**TABLE 7. Imports and Exports of Stone, by Kinds, 1950 and 1951**

		1950		1951	
		Quantity	Value \$	Quantity	Value \$
<b>IMPORTS</b>					
Building stone, n.o.p.	cwt.	192,363	146,622	362,271	298,018
Curling stones and handles therefor	pairs	1,889	67,667	3,247	118,930
Granite, rough, not hammered or chiselled	—	—	146,089	—	146,562
Granite, sawn only	—	—	39,464	—	41,799
Granite, manufactures of, n.o.p.	—	—	123,119	—	176,073
Marble, rough, not hammered or chiselled	—	—	124,187	—	103,930
Marble, sawn or sand rubbed, not polished	—	—	125,720	—	200,820
Marble, not further manufactured than sawn for tombstones	—	—	63,153	—	54,009
Marble for churches	—	—	55,958	—	18,092
Marble, manufactures of, n.o.p.	—	—	98,529	—	59,176
Refuse stone	tons	6,056	8,092	6,567	13,744
Slate roofing	squares	1,282	30,371	970	20,653
Slate mantels and manufactures of slate, n.o.p.	—	—	61,308	—	49,756
Chalk, china, cornwall or cliff stone and mica schist	—	—	15,458	—	19,382
Mineral wool	tons	104	77,848	264	64,443
Whiting, gilders' whiting and Paris white	"	21,336	457,390	20,565	468,998
Manufactures of stone, n.o.p.	—	—	481,111	—	258,775
Chalk, prepared	—	—	6,531	—	4,811
Pumice and pumice stone and lava tufa	—	—	127,885	—	128,957
Grindstones, not mounted and not less than 36 inches in diameter	No.	333	30,150	575	54,992
Grindstones, n.o.p.	"	1,343	5,949	2,257	9,865
Burrstones, rough, in blocks	"	57	1,449	32	1,252
Ganister	cwt.	2,555	1,517	2,886	2,091
Roofing granules	tons	93,055	1,550,788	83,380	1,416,211
Stone, crushed	"	42,024	65,269	674,161	567,780
<b>Total</b>	—	—	<b>3,511,624</b>	—	<b>4,299,099</b>
<b>EXPORTS</b>					
Building stone, unwrought	tons	128	2,951	295	7,205
Crushed stone	"	2,330	3,470	5,755	13,247
Granite and marble, unwrought	"	5,579	76,184	3,715	89,001
Dressed stone of all kinds	—	—	4,561	—	5,578
Grindstones, manufactured	—	—	55,010	—	72,128
<b>Total</b>	—	—	<b>142,176</b>	—	<b>187,159</b>

TABLE 8. Workmen in the Stone Quarrying Industry, by Months, 1950 and 1951

Month	1950			1951		
	Quarry		Dressing works	Quarry		Dressing works
	Male	Female	Male	Male	Female	Male
	Number					
January .....	1,473	3	672	1,665	1	726
February .....	1,439	5	712	1,565	1	738
March .....	1,590	6	759	1,728	1	783
April .....	2,122	6	823	2,379	3	851
May .....	2,919	6	854	3,041	3	873
June .....	3,221	6	862	3,310	3	868
July .....	3,200	6	868	3,331	3	898
August .....	3,174	5	880	3,394	3	934
September .....	2,980	4	847	3,301	2	955
October .....	2,872	4	801	3,273	2	970
November .....	2,563	3	763	2,941	2	931
December .....	2,044	3	706	2,393	2	885
<b>Average</b> .....	<b>2,489</b>	<b>5</b>	<b>798</b>	<b>2,719</b>	<b>3</b>	<b>869</b>
Man-hours worked, 1951:						
Administrative and office .....						623,059
Workmen .....						8,484,456
<b>Total</b> .....						<b>9,107,515</b>

### GRANITE

Granite as applied to commercial stone, includes nearly all igneous rocks as well as metamorphic rocks of igneous origin, which may be quarried for use as building, monumental or crushed stone. In

the quarrying of granite for building or monumental stone there is a large quantity of irregularly shaped pieces which are used for breakwaters, road fill and crushed rock for concrete aggregate.

TABLE 9. Production of Granite<sup>1</sup>, 1942-1951

Year	Short tons	\$	Year	Short tons	\$
1942 .....	1,366,425	1,946,249	1947 .....	551,527	3,175,364
1943 .....	780,422	1,522,072	1948 .....	1,042,928	3,779,436
1944 .....	269,964	1,303,790	1949 .....	2,321,017	5,110,024
1945 .....	221,630	1,284,748	1950 .....	2,071,052	4,971,144
1946 .....	319,354	2,006,297	1951 .....	1,950,564	6,014,121

1. Includes all igneous rock.

### LIMESTONE

Quarries for the production of limestone for building purposes are worked in Quebec, Ontario, and Manitoba. Modern requirements of the building stone industry call for blocks of stone of large dimensions from which are sawn slabs and blocks of the exact size required for constructing the building. Although limestone is abundant in Canada the heavily bedded variety of desirable texture, free from cracks and other defects, and capable of being carved and otherwise worked, is not plentiful.

For industrial use limestone is marketed in a variety of forms ranging from huge squared blocks of dimension stone used in construction to extremely fine dust chiefly as a mineral filler. For certain uses (in the wood pulp industry, for example) the limestone quarried required little or no processing, but most of the output is crushed and screened for use as road metal, concrete aggregate, railroad bal-

last, and as flux in metallurgical plants. Large quantities are used in the manufacture of Portland cement, lime and various chemical products. Most of the limestone used in chemical and metallurgical industries is of high calcium variety, but dolomite is rapidly increasing in importance as an industrial raw material.

The use of limestone in agriculture is capable of very extensive development. Though the necessity for applying limestone or lime to agricultural land to remedy deficiencies of calcium and magnesium, to neutralize soil acidity, and to maintain or increase soil fertility has been emphasized for many years, the quantity so used in Canada is still relatively small, whereas the agricultural use of limestone could well constitute one of its most important uses both from the economic and tonnage viewpoints.

TABLE 10. Production of Limestone<sup>1</sup>, 1942-1951

Year	Short tons	\$	Year	Short tons	\$
1942.....	6,442,583	6,468,525	1947.....	9,497,754	11,966,520
1943.....	6,265,181	6,105,749	1948.....	10,003,142	12,523,275
1944.....	5,565,286	5,528,459	1949.....	10,951,312	13,876,845
1945.....	5,677,192	6,284,379	1950.....	12,267,432	15,964,617
1946.....	7,217,600	8,178,513	1951.....	15,531,948	20,901,704

1. Includes dolomite and marl; production of marl totalled 22,913 tons in 1943; 19,848 tons in 1944; 14,148 tons in 1945; 20,363 tons in 1946; 27,368 tons in 1947; 22,323 tons in 1948; 43,181 tons in 1949; 48,918 tons in 1950 and 37,799 tons in 1951.

## MARBLE

Ontario quarries produce about two-thirds of the Canadian output, the balance being produced in Quebec and British Columbia. Most of the marble is crushed or ground for use as terrazzo chips, poultry grit, stucco dash, whiting substitute, and as an aggregate in artificial stone.

In Quebec, clouded grey marbles and a black marble are obtained in the quarries of Missisquoi Stone and Marble Company, Limited, at Philipsburg, near the foot of Lake Champlain. Brown marble for counters and wainscoting is obtained from the building stone quarries in the Trenton limestone at St. Marc des Carrières, Portneuf county. The Orford Marble Company, Limited, produces red, green and grey serpentinous marble near North Stukely, Shefford county. The product is mainly terrazzo, but some blocks have been produced. The South Stukely Marble and Terrazzo Company, in Shefford county, produced terrazzo chips and marble dust for agricultural use. White dolomite is quarried and crushed by Canadian Dolomite Company, Limited, at Portage du Fort, Pontiac county, for terrazzo chips, stucco dash, artificial stone, and various other products.

In Ontario, black marble in blocks up to 40 inches thick is produced by Silvertone Black Marble Quarries, Limited, Ottawa, at St. Albert, 30 miles southeast of Ottawa. Buff, red, white, green and black marbles are quarried north of Madoc by Stocklosar Marble Quarries. The Verona Rock Products Limited, at Verona, about 20 miles northwest of Kingston, produces poultry grit and stucco dash from white limestone. Bolender's Limited produces poultry grit, stucco dash and plaster aggregate from a deposit eight miles north of Haliburton at Eagle Lake. The Pulverized Marble Products, Limited, shipped from a crystalline dolomite deposit near Kaladar.

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.

In British Columbia there are many deposits of marble, but there is only a small production of white by Marble and Associated Products from a quarry near Victoria.

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

TABLE 11. Production of Marble, 1942-1951

Year	Short tons	\$	Year	Short tons	\$
1942.....	13,824	88,209	1947.....	45,574	326,605
1943.....	11,848	68,022	1948.....	68,347	528,529
1944.....	11,829	85,374	1949.....	52,152	446,905
1945.....	13,388	113,337	1950.....	55,179	436,502
1946.....	21,796	201,817	1951.....	63,982	492,820

## SANDSTONE

Canadian sandstone has been utilized extensively in the construction of many important public buildings in Canada, and is finding increasing favour as a material in the construction of the better type home. The rock occurs in Canada in a variety of colours, including white, reddish brown, yellow and grey. Shipments of sandstone were made in 1951 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 1951 was employed as rubble and riprap and in the crushed state for concrete, highway construction and railroad ballasting. Sandstone in New Brunswick and Nova Scotia has been employed in the manufacture of abrasive wheels and sharpening stones; such production is included with natural abrasives manufacture. Crude, crushed or ground quartzite sold for fluxing purposes or as silica sand is included under quartz as production.

TABLE 12. Production of Sandstone, 1942-1951

Year	Short tons	\$	Year	Short tons	\$
1942 .....	153,865	236,810	1947 .....	792,900	975,394
1943 .....	164,163	250,603	1948 .....	577,887	1,065,829
1944 .....	146,766	223,453	1949 .....	596,989	1,014,084
1945 .....	291,430	466,397	1950 .....	3,685,070	4,418,059
1946 .....	495,777	778,213	1951 .....	1,124,551	1,173,665

## SLATE

Canadian slate production in 1951 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 13. Production of Slate, 1942-1951

Year	Short tons	\$	Year	Short tons	\$
1942 .....	1,369	16,801	1947 .....	1,633	20,866
1943 .....	1,336	17,733	1948 .....	4,339	51,484
1944 .....	1,147	18,101	1949 .....	6,569	80,215
1945 .....	1,915	17,839	1950 .....	8,331	105,035
1946 .....	1,733	20,871	1951 .....	5,661	67,458

## ROOFING GRANULES

The greater part of the roofing granules output in Canada comes from Ontario deposits, the remainder from Quebec and British Columbia. More than half of the tonnage used is imported from the United States. Rock suitable for roofing granules is quarried in the Madoc area in Ontario, and in British Columbia. The only plant in Canada which colours the granules is located at Havelock, Ontario. The Wendell Mineral Products, Limited, has built a plant at Landrienne, east of Amos, Quebec, where a grey rhyolite is to be crushed to size and artificially coloured.

Rocks suitable for granules should be fairly hard, and tough enough to withstand breakage and

dusting through handling with mechanical equipment; should be fine-grained with low porosity to withstand weathering effects from freezing and thawing; and should contain no "foreign materials" such as carbonates, feldspars, mica, sulphides, fibrous minerals, etc., that would deteriorate through natural weathering agencies or through poor adhesion to the asphalt. They should be opaque to the transmission of the actinic rays of the sun, and not allow the passage of ultra-violet or infra-red rays to the underlying asphalt; should "break well"; and should be uniformly textured to take "artificial colouring" well so that no blotchy effect is apparent in the shingles on a roof; light coloured rock being preferable to dark coloured.

List of Firms in the Stone Quarrying Industry - 1951

Name	Head office address	Location
<b>NEWFOUNDLAND</b>		
Newfoundland Department of Highways	St. John's	Various
<b>NOVA SCOTIA:</b>		
Dauphinee, W.T. <sup>1</sup>	P.O. Box 68, Shelburne	Birchtown
Municipal Spraying and Contracting Ltd.	1350 Barrington St., Halifax	Bedford
Nictaux Granite Canada Ltd. <sup>2</sup>	P.O. Box 299, Middleton	Nictaux
Nixon Granite Works <sup>2</sup>	R.R. 3, Middleton	Nictaux West
Scott, T.W., & Co. <sup>2</sup>	Box 336, Middleton	Nictaux West
<b>NEW BRUNSWICK:</b>		
Connolly, J.E. & D.P. <sup>1</sup>	Bathurst	South Bathurst
Granite Street Pavement & Construction Co.	P.O. Box 1137, Saint John	Hampstead
Milne Coutts & Co. Ltd. <sup>2</sup>	St. George	St. George
<b>QUEBEC:</b>		
Adu Granite Inc. <sup>2</sup>	P.O. Box 83, Montreal	Beebe
Angus Robertson Ltd.	5035 Western Ave., Montreal	Baie Comeau
Atlas Granite Co. Ltd.	Guenette	Guenette
Belanger, Philippe	10 Bellevue St., Shawinigan Falls	Shawinigan Falls
Bellefleur, Amedee	Ste. Flore	Ste. Flore
Bolduc, Antonio <sup>2</sup>	St. Sebastien	Ste. Cecile
Brodies Ltd. <sup>2</sup>	1070 Bleury St., Montreal	Graniteville, Guenette and Mount Johnson
Brussiere & Frere Engr. <sup>2</sup>	St. Sebastien	St. Sebastien
Carriere Shawinigan Engr. <sup>2</sup>	Shawinigan Falls	Glenada
Cartier-McNamara-Mannix-Morrison-Knudsen	Seven Islands	Seven Islands
Cloutier, R.L. <sup>2</sup>	Beebe	Beebe
Compagnie de Granit Noir du Canada Ltée. <sup>2</sup>	316 Latulippe St. W., Rouyn	Beauchastel Tp.
Delwaide & Goffin Engr. <sup>2</sup>	1365 St. Valier St., Quebec	Ste. Anne
Deschambault Quarry Corp. <sup>2</sup>	56 St. Pierre St., Quebec	St. Gerard
Dubé, Normand, & Fils	Rawcliffe	Rawcliffe
Dumas & Voyer <sup>2</sup>	Rivière à Pierre	Rivière à Pierre
Dutilly & Frère <sup>1</sup>	Granby	West Shefford
Everlasting Granite Co. Ltd. (The)	Lac Megantic	St. Samuel
Gaboriault & Nevers Reg'd. <sup>2</sup>	P.O. Box 65, Grenville	Grenville
Gagnon, Arthur	1740 Fourth St., Grand'Mère	Grand'Mère
Gingras & Frère Ltée. <sup>2</sup>	Stanhope	Stanhope
Granite Products Ltd. <sup>1</sup>	1070 Bleury St., Montreal	Rigaud
Granit National Ltée., Le <sup>2</sup>	St. Joseph d'Alma	St. Gédéon and St. Joseph d'Alma
Grenier, Elie	Glenade	Glenade
Guerin & Fils Ltée <sup>1</sup>	Rouyn	Rouyn
Haselton Granite Quarries <sup>2</sup>	Beebe	Beebe
Haroux & Robert Ltée. <sup>1</sup>	1414 Crescent St., Montreal	St. Samuel
Hartouge, H., & Fils, Engr. <sup>1</sup>	1327 St. Valier St., Quebec	Ste. Anne
Hartouge, Noé	Ste. Flore	Ste. Flore
Haroche, Omer <sup>2</sup>	Rivière à Pierre	Rivière à Pierre
Maltais, Chas.	St. Joseph d'Alma	St. Joseph d'Alma
Marvel Granite Reg'd.	17 Notre Dame St., Donnacona	St. Raymond
Massicotte, L., & Careau, Ltée <sup>1</sup>	5 Fussey St., Cap de la Madeleine	La Tuque
McNamara Construction Co. Ltd.	42 Industrial St., Toronto, Ontario	Baie Comeau
Moreau, P. <sup>2</sup>	Hebertville Station	Hebertville Station
North Shore Construction Co. Ltd. <sup>1</sup>	Box 107, Station B, Montreal	Saguenay Co
Notre Dame Quarries Company Limited <sup>1</sup>	Bon Conseil	Bon Conseil
Pentagon Construction Co. Ltd.	1225 Bishop St., Montreal	St. Joseph d'Alma
Perron, Arthur	Rivière à Pierre	Rivière à Pierre
Poisson, M.	Guenette	Guenette
Quebec Department of Roads	Quebec	Various
Quebec North Shore Paper Co. <sup>1</sup>	680 Sherbrooke St. W., Montreal	Baie Comeau
St. Bruno Quarry & Paving Co. Inc.	636 Ave. Querbes, Outremont	St. Bruno
St. Pierre, J.	Guenette	Guenette
St. Samuel Granite <sup>2</sup>	St. Samuel Station	St. Samuel Station
Scotstown Granite Co. Ltd. <sup>2</sup>	Cap St. Martin	Cap St. Martin
Shawinigan Engineering Co. Ltd.	600 Dorchester St. W., Montreal	Shawinigan Falls
Silver Granite Co. Ltd. <sup>2</sup>	2251, rue Delorimier, Montreal	St. Samuel
Simard & Frère Cie Ltd. <sup>1</sup>	Amos	Amos
Stanstead Granite Quarries Company Limited <sup>2</sup>	Beebe	Graniteville
Waddell, Arthur <sup>1</sup>	Ste. Thérèse de Blainville	Ste. Thérèse
White Diamond Granite Co. Ltd.	1043 Blvd. des Forges, Trois Rivières	St. Gerard
<b>ONTARIO:</b>		
Building Products Ltd.	P.O. Box 6063, Montreal, Quebec	Madoc and Havelock
Canadian Dredge & Dock Co. Ltd.	302 Harbour Commission Bldg., Toronto	Port Arthur
Hall, Wilfred	36 Burritt St., Parry Sound	Mill Lake
Horne, Wm., Granite Quarries	Butler via Ignace	Butler
Verona Rock Products Ltd.	Verona	Verona
<b>MANITOBA:</b>		
Shoal Lake, Granite Co.	East Braintree	East Braintree
Winnitoba Marble Co. Ltd. <sup>2</sup>	1180 Wall St., Winnipeg	West Hawk Lake
<b>BRITISH COLUMBIA:</b>		
B.C. Monumental Works Ltd. <sup>1</sup>	3096 Main St., Vancouver	Granite Island
Canadian National Railways	Montreal, Quebec	Yale, Pitman, Copper Creek and Ashcroft
Coast Quarries Ltd.	1840 West Georgia St., Vancouver	Granite Falls
Gilley Bros. Ltd.	902 Columbia St., New Westminster	New Westminster
Hedley Granite Quarries Ltd.	Hedley	Hedley
McDonald, J.A. & C.H., Limited <sup>2</sup>	1571 Main St., Vancouver	Sointula
Trail, City of	1394 Pine Ave., Trail	Trail
Valley Granite Products	Cheam-View	New Westminster
Vancouver Granite Co. Ltd. <sup>2</sup>	744 Hastings St. W., Vancouver	Nelson Island
Vernon Granite & Marble Co. <sup>2</sup>	32 Coldstream Rd., Vernon	Vernon
Wilson, James S., & Co. Ltd. <sup>2</sup>	Sirdar	Sirdar

## List of Firms in the Stone Quarrying Industry - 1951 - Continued

Name	Head office address	Location
<b>LIMESTONE</b>		
<b>NEWFOUNDLAND:</b>		
Bowater's Newfoundland Pulp & Paper Mills Ltd. ....	Corner Brook .....	Corner Brook
Dominion Limestone Limited .....	Aguathuna .....	Aguathuna
Newfoundland Lime Mfg. Co. Ltd. ....	St. John's .....	Cobbs Arm
Newfoundland Department of Highways .....	St. John's .....	Various
<b>NOVA SCOTIA:</b>		
Cook, Bruce .....	East River Point .....	East River Point
Dillman Bros. <sup>1</sup> .....	Admiral Rock .....	Admiral Rock
Eastern Lime Distributors Ltd. <sup>1</sup> .....	Windsor .....	Windsor
Mersey Paper Co. Ltd. ....	Liverpool .....	East River Point
Mosher Limestone Co. Ltd. ....	Upper Musquodoboit .....	Upper Musquodoboit
Nairn, J.S. ....	24 Whitney Ave., Sydney .....	Scotch Lake
Windsor Foundry <sup>1</sup> .....	O'Brien St., Windsor .....	Windsor
<b>NEW BRUNSWICK:</b>		
Brookville Manufacturing Co. Ltd. ....	Brookville .....	Brookville
Canada Cement Company Limited .....	Box 490, Station B, Montreal, Que. ....	Havelock
Elm Tree Limestone Co-Operative Ltd. ....	Nigadoo .....	Nigadoo
Havelock Lime Works .....	Havelock .....	Havelock
Industrial Enterprises Inc. <sup>1</sup> .....	P.O. Box 910, Presque Isle, Maine, U.S.A. ....	Randolph
Snowflake Lime Ltd. ....	3 Pokiook Rd., Saint John .....	Saint John
<b>QUEBEC:</b>		
Aluminum Company of Canada Ltd. ....	1700 Sun Life Bldg., Montreal .....	Arvida
Amendements Calcaires de Rivière Bleue Enrg., (Les) .....	Rivière Bleue .....	Rivière Bleue
Archambault Cut Stone Co. Ltd. <sup>2</sup> .....	Bélanger Village .....	Bélanger Village
Beaudet, J.S. ....	Baie St. Paul .....	Baie St. Paul
Beaudry, Joseph P. ....	133 Taché St., Joliette .....	Joliette
Beco Inc. ....	Rimouski .....	Rimouski
Bédard, Jean, Ltée .....	480 Lafleur Ave., La Salle .....	La Salle
Boucher, Louis .....	Percé .....	Percé
Canada Cement Co. Ltd. ....	P.O. Box 290, Station "B", Montreal .....	Hull
Canadian Quarries Co. ....	2251 Chemin de la Côte St. Michel .....	St. Michel
Carrière Andorno <sup>2</sup> .....	Cap St. Martin .....	Cap St. Martin
Carrière Bagot Quarry Inc. <sup>1</sup> .....	St. Hyacinthe .....	St. Dominique
Carrière Bernier Enrg. ....	R.R. 2, St. Jean .....	St. Jean
Carrières Cantin, Enrg, Les .....	St. Jean Chrysostome .....	St. Jean Chrysostome
Carrière du Cap St. Martin Enrg. ....	636 Ave. Querbes, Outremont .....	Cap St. Martin
Carrière Gravel Ltée .....	Chateau Richer .....	Chateau Richer
Carrière Pointe Claire .....	235 Montée St. Charles, Ste. Geneviève .....	Pointe Claire
Carrière de St. Barthélemi Ltée., (Les) .....	St. Barthélemi .....	St. Barthélemi
Carrières de St. Dominique Ltée., (Les) .....	555 St. Denis, St. Hyacinthe .....	St. Dominique
Carrière St. Maurice Inc. ....	1497 Craig St., Trois Rivières .....	St. Louis de France
Carrière Trois Rivières Ltée. ....	St. Louis de France .....	St. Louis de France
Charbonneau, Lucien .....	St. François de Sales .....	St. François de Sales
Charron & Fils .....	Bélanger Village .....	Bélanger Village
Cle de Pierre de Taille Martineau Ltée., La <sup>2</sup> .....	5000 - 13ième Ave., Montreal .....	Pont Viau
Climon & Simard .....	Baie St. Paul .....	Baie St. Paul
Delbo Inc. ....	North Stukely .....	North Stukely
Departement de la Justice <sup>2</sup> .....	Ottawa, Ontario .....	St. Vincent de Paul
Deraiche, Mme. F.X. ....	Port Daniel Station .....	Port Daniel
Deschambault Quarry Corp. <sup>2</sup> .....	5000 - 13ième Ave., Montreal .....	St. Marc des Carrières
Dominion Lime Ltd. ....	Lime Ridge .....	Lime Ridge
Dufresne Engineering Co. Limited .....	1032 Pie IV Blvd., Montreal .....	Coteau Landing
Enterprises de l'Est Ltée .....	1055 Demontigny St., Quebec .....	Pointe Basse and East Cape
Faubert, A. ....	Ville de Léry .....	Chateaugay Co.
Fillon, Aldege .....	Lachute .....	Lachute
Gagnon & Fils .....	St. Joachim .....	St. Joachim
Gagnon, Rosaire .....	Roberval .....	Roberval
Gauthier, Jos. O., Ltée <sup>2</sup> .....	St. Marc des Carrières .....	St. Marc des Carrières
Gauthier, R. & A. ....	Canton Bélanger .....	Canton Bélanger
Gingras & Frère Ltée. <sup>2</sup> .....	St. Marc des Carrières .....	St. Marc des Carrières
Kennedy Construction Co. Ltd. ....	407 McGill St., Montreal .....	Actonvale
Lagacé Quarries Ltd. ....	130 Blvd. Labelle, L'Abord-à-Plouffe .....	L'Abord-à-Plouffe
Lalancette, E. ....	Roberval .....	St. Jean Brébeuf
Langlois, A. ....	St. Marc des Carrières .....	St. Marc des Carrières
Lasalle Quarry Ltd. ....	3413 Blvd. St. Michel, Montreal .....	Ville St. Michel
Leclerc, J.J., & Fils Ltée. ....	Drapeau .....	Drapeau
Mercure, Camille .....	555, rue St. Denis, St. Hyacinthe .....	St. Dominique de Bagot
Miner, R.H., Co. Ltd. ....	Bélanger Village .....	Bélanger Village
Ministère de la Voirie .....	Quebec .....	St. Charles de Bellechasse
Miron Frères Ltée .....	2201 Chemin St. Michel, Montreal .....	Montreal
Montreal Cut Stone Ltd. <sup>2</sup> .....	1869, rue St. André, Montreal .....	St. François de Sales
Montreal Quarry Ltd. ....	2020 Ave. Union, Montreal .....	St. Michel
National Quarries Ltd. ....	6301 Park Ave., Montreal .....	Cote St. Michel
North Shore Construction Co. Ltd. ....	606 Cathcart St., Montreal .....	St. Félicité
Notre Dame Quarries Co. Ltd. ....	Bon Conseil .....	Bon Conseil
Paquet & Fils Enrg. ....	St. Marc des Carrières .....	St. Marc des Carrières
Plourde & Plourde Ltée .....	Chicoutimi .....	Chicoutimi
Port Daniel Quarry Reg'd .....	Port Daniel Station .....	Port Daniel Station
Poulin, A. ....	St. Ferreol .....	St. Ferreol
Quebec Department of Roads .....	Quebec .....	Various
Rioux, Raoul & Maurice .....	Cowansville .....	Cowansville
Rousseau, T.E. ....	Val Brilliant .....	Val Brilliant
St. Francis Rock Products & Equipment Ltd. ....	Cote Ste. Marguerite, Montreal .....	St. Laurent
St. Laurent Stone Products & Supplies Ltd. ....	Cote Ste. Marguerite, Montreal .....	St. Laurent
St. Marc Lime Reg'd .....	St. Marc des Carrières .....	St. Marc des Carrières
Salaberry de Valleyfield, La Cité .....	Salaberry de Valleyfield .....	Salaberry de Valleyfield
Shawinigan Chemicals Ltd. ....	600 Dorchester St. W., Montreal .....	Bedford

List of Firms in the Stone Quarrying Industry - 1951 - Continued

Name	Head office address	Location
<b>LIMESTONE - continued</b>		
<b>QUEBEC - concluded:</b>		
Standard Lime Co. Ltd.	Joliette	St. Paul de Joliette
Syndicat de Broyage de Lévis	St. Joseph de Lévis	St. Joseph de Lévis
Tanguay, J.	St. Justine	St. Justine
Toussaint, Paul	Charlesbourg East	Charlesbourg East
Trappe de N.D. de Mistassini, La	Village des Pères	Mistassini
Union des Carrières & Pavages Ltée.	496-2ième Ave., Québec	Charlesbourg
Union Construction Limitée	St. Jean	St. Jean
Verreault, Elzear, Ltée	194 du Pont, Québec	Gifford
Viau, Paul	340 Blvd. du Havre, Valleyfield	Valleyfield
Wallingford, J.H.A.	15 Main St., Hull	East Alfred
<b>ONTARIO:</b>		
Abitibi Power & Paper Co. Ltd.	408 University Ave., Toronto	Bucke Tp.
Armstrong Bros. Construction	Brampton	Vinemount
Bertrand & Frère Cons. Co. Ltd.	L'Original	Plantagenet
Bolender's Ltd.	Haliburton	Eagle Lake
Bourgie, O.E.	Embrun	Embrun
Brunner Mond Canada Ltd.	Bank of Commerce Bldg., Toronto	Anderdon Tp.
Campbell, George, Co.	Fort Erie	Bertie Tp.
Canada Cement Co. Ltd.	P.O. Box 290, Station "B", Montreal, Quebec	Thurlow Tp.
Canada Crushed Stone Ltd.	72 Sun Life Bldg., Hamilton	Dundas and Hagersville
Carleton Lime Products Co.	P.O. Box 26, Carleton Place	Ramsay Tp.
Chemical Lime Ltd.	P.O. Box 122, Beachville	Beachville
Coleman, Munro, Ltd.	628 Pitt St., Cornwall	Bonville
Cook, J.S., Stone Quarry <sup>2</sup>	Warton	Amabel Tp.
Cope, A., & Sons Ltd.	19 Albert St., Hamilton	Saltfleet Tp.
Curran & Briggs Limited	61 Haverson Blvd., Toronto	Cooksville
Dibblee Construction Company Limited	248 Albert St., Ottawa	Bowesville
Ebel, C.M.	Warton	Warton
Frazer Duntile Co. Ltd.	130 Sparks St., Ottawa	Nepean Tp.
Frontenac Quarries Ltd.	235 Wellington St., Kingston	Kingston
Gypsum, Lime & Alabastine Canada Ltd.	Paris	Beachville and Hespeler
Hagersville Quarries Ltd.	2700 Dufferin St., Toronto	Hagersville
Haldimand Quarries & Construction Ltd.	137 Wellington St. W., Toronto	Hagersville
Howlett, Walter, & Son	335 Sixth Ave., Niagara Falls	Clinton Tp.
Jackson, P.L.	Dunnville	Dunnville
Jamieson Lime Co.	110 Hall Ave., Renfrew	Horton Tp.
Johnston & Clarke	120 Water St. W., Brockville	Brockville
Kingston Penitentiary	Kingston	Kingston
Kirkfield Crushed Stone Ltd.	2700 Dufferin St., Toronto	Kirkfield
Laurentian Stone Co. Ltd., The	195 Nicholas St., Ottawa	Quarries
Law, R.E., Crushed Stone Ltd.	Port Colborne	Port Colborne
Limestone Products Ltd.	1109 Millwood Rd., Toronto	Orillia Tp.
McGinnis & O'Conner Limited	394 King St. E., Kingston	Barrieffield
Nelson Crushed Stone	Box 36, Oakville	Burlington
Niagara Crushed Stone Co.	149 Burgar St., Welland	Welland
Niagara Cut Stone Quarries Limited	490 Butrey St., Niagara Falls	Thorold
Nicholson, M.	St. Catharines	Beamsville
North American Cyanamid Ltd.	Niagara Falls	Ingersoll
Ottawa Valley Crushed Stone Limited	Box 290, Station "B", Montreal, Quebec	Eastview
Parisien, Fernand	Alfred	Alfred
Pembroke, Corporation of	Pembroke	Pembroke
Queenston Quarries Ltd. <sup>2</sup>	72 Sun Life Bldg., Hamilton	Niagara Falls
Ridgmount Quarries	Stevensville	Bertie Tp.
Rieger Bros. Construction Ltd.	Scudder P.O.	Pelee Island
Roblindale Quarries Limited	Picton	Roblindale
Sauve & Gallpeau	Forbes	Forbes
Savigny Bros.	P.O. Box 143, Merritton	Grantham Tp.
Springvale Lime Products	Hagersville	Springvale
Storey, C.L., Construction Co.	R.R. 2, Bath	Napanee
Verona Rock Products Ltd.	66 King St. W., Toronto	Verona
Walker Bros. Quarries	P.O. Box 586, Thorold	Stanford Tp.
<b>MANITOBA:</b>		
Building Products & Coal Co. Ltd.	111 Christie St., Winnipeg	Inwood
Garson Limestone Co.	251 Machray Ave., Winnipeg	Garson
Gillis Quarries Ltd. <sup>2</sup>	Richard & Spruce Sts., Winnipeg	Garson
Manitoba Department of Highways	Winnipeg	Varlous
Tyndall Quarry Co. Ltd. <sup>2</sup>	1591 Erin St., Winnipeg	Tyndall
Winnipeg, City of	225 James Ave., Winnipeg	Stony Mountain
Winnipeg Supply & Fuel Co. Ltd.	812 Boyd Bldg., Winnipeg	Moosehorn and Stonewall
<b>ALBERTA:</b>		
Loder's Lime Co. Ltd.	Kananaskis, Exshaw P.O.	Kananaskis
Summit Lime Works Ltd.	P.O. Box 273, Lethbridge	Lethbridge
<b>BRITISH COLUMBIA:</b>		
Agassiz Lime Quarry <sup>1</sup>	P.O. Box 187, Agassiz	Agassiz
B.C. Department of Highways	Victoria	Various
B.C. Marl Co. Ltd. <sup>1</sup>	525 Seymour St., Vancouver	Princeton
Beale, W.S.	Van Anda	Van Anda
Beale Quarries Ltd.	744 West Hastings St., Vancouver	Van Anda
Capilano Crushing Co. Ltd.	107 East First Ave., Vancouver	West Vancouver
Cheam Marl Products Ltd.	1137 W. Hastings St., Vancouver	Bridal Falls
Columbia Cellulose Co. Ltd.	Box 1000, Prince Rupert	Prince Rupert
Consolidated Mining & Smelting Co. of Canada, Ltd.	Trail	Pife

## List of Firms in the Stone Quarrying Industry - 1951 - Concluded

Name	Head office address	Location
<b>LIMESTONE - concluded</b>		
<b>BRITISH COLUMBIA - concluded:</b>		
Fernie, City of <sup>1</sup>	Fernie	Fernie
Fraser Valley Lime Supplies	693-17th Ave., New Westminster	Popkum
Gilpin-Nash Ltd.	2265 W. 41st Ave., Vancouver	Elsay Creek
Koeye Limestone Co.	Namu	Koeye River
Marlime Ltd.	50 Sixth St., New Westminster	Solsqua
Martinson & McKay	Jeune Landing	Jeune Landing
Munro, W.A. <sup>1</sup>	Bridal Falls	Bridal Falls
Pacific Lime Co. Ltd.	744 W. Hastings St., Vancouver	Blubber Bay
<b>MARBLE</b>		
<b>QUEBEC:</b>		
Canadian Dolomite Co. Reg'd	Portage du Fort	Portage du Fort
Industrial Fillers Ltd.	4820-4th Ave., Montreal	St. Armand
Messier Terrazzo & Stone Products	348 Fraser St., North Bay	St. Armand
Missisquoi Stone & Marble Co. Ltd. <sup>2</sup>	Philipsburg	Philipsburg
Orford Marble Co. Ltd.	65 Beaudet St., St. Laurent	St. Laurent
South Stukely Marble & Terrazzo	South Stukely	South Stukely
<b>ONTARIO:</b>		
Bonter, W.F., & Co. Ltd.	Malone	Malone
Bonter Marble & Calcium Co. Ltd.	P.O. Box 61, Marmora	Marmora
Pulverized Marble Products Limited	348 Fraser St., North Bay	Kaladar Tp.
Silvertone Black Marble Quarries Ltd.	305 O'Connor St., Ottawa	St. Albert
Stoklosar Marble Quarries	P.O. Box 208, Madoc	Madoc
<b>BRITISH COLUMBIA:</b>		
Marble & Associated Products	507 Ellice St., Vancouver	Malahat
<b>SANDSTONE</b>		
<b>NOVA SCOTIA:</b>		
Arsenault Monumental Works <sup>2</sup>	Antigonish	North Grant
Nova Scotia Department of Highways	Halifax	Various
Wallace Quarries Limited	Wallace	Wallace
<b>NEW BRUNSWICK:</b>		
New Brunswick Highways	Fredericton	Various
Smith, E.A.	Shediac	Shediac
<b>QUEBEC:</b>		
Beauharnois Light, Heat & Power Co.	107 Craig St., Montreal	Melocheville
Enterprises de l'Est Limitée, Les	1055 Demontigny, Québec	Cap Vert and Pointe Basse
Gagnon, L.P.	7 Ave. Gagnon, Lévis	St. David de Lévis
Gulf Maritime Construction Ltd. <sup>1</sup>	Matane	Matane
Peel Construction Co. Ltd.	75 Main St., Brampton, Ontario	Trois Pistoles
Poirier, W.	Montebello	Montebello
Quebec Department of Roads	Quebec	Various
Rousseau, T.E.	Val Brilliant	New Carlisle
St. Lawrence Alloys and Metals Limited	330 University Ave., Toronto 1, Ontario	Melocheville
Sherbrooke, City of	Sherbrooke	Sherbrooke
Simard, Adjutor	Pointe-au-Pic	Pointe-au-Pic
<b>ONTARIO:</b>		
Barnes, Wm. R., Co. Ltd.	243 Cumberland Ave., Hamilton	Inglewood
Campbell Sandstone Quarries Ltd. <sup>2</sup>	466 Highland Ave., Ottawa	Bell's Corners
Cavlovic, J.	Georgetown	Inglewood
Corner, Austin	Belfountain	Belfountain
Deforest Bros.	Terra Cotta	Terra Cotta
McHarg, B.	Georgetown	Georgetown
Mountain Sandstone Quarry	Georgetown	Inglewood
Rice, Joseph	Georgetown	Inglewood
Shelbourne & Norrie	Georgetown	Georgetown
Smithson, C.	122 Church St. E., Brampton	Terra Cotta
Sykes Quarries	Georgetown	Glen Williams
Thompson, Harold	Georgetown	Glen Williams
Walker Bros.	Inglewood	Inglewood
Zillo, A.	Terra Cotta	Terra Cotta
<b>BRITISH COLUMBIA:</b>		
Canadian Pacific Railway Co.	Montreal, Quebec	Revelstoke
Consolidated Mining & Smelting Co. of Canada Ltd.	Trail	Kimberley
<b>SLATE</b>		
<b>QUEBEC:</b>		
Bombardier, J.A.	Valcourt	Valcourt
<b>BRITISH COLUMBIA:</b>		
Richmond, Geo. W., & Co.	2890-12th Ave. E., Vancouver	McNab Creek

1. Did not ship in 1951.

2. Firms operating dressing works in conjunction with quarry.

## SECONDARY PRODUCTION - THE STONE PRODUCTS INDUSTRY

In 1951 there were 161 stone dressing works whose operations were concerned chiefly in cutting or polishing Canadian or imported stone to produce finished monuments or cut and dressed stone for construction purposes. Retail establishments engaged only in selling or lettering monuments and dressing works operated by quarry owners located either at the quarry or elsewhere have not been included. Fourteen producers of mineral wool were also included in the industry.

Output from this industry was valued at \$18,705,651 in 1951, a decline of 6 per cent from the total of \$19,889,745 reported for the previous year. The 70 works in Ontario accounted for 75 per cent of the total output and the 44 plants in Quebec for 8 per cent. The total number of employees was 2,270 who were paid \$6,198,170 in salaries and wages. Materials used in the cutting and dressing processes including stone, cost \$6,733,301. The latter figure also includes the cost of materials used in the production of mineral wool. Expenditures for fuel and electricity amounted to \$766,099.

Note. Dressing works located at the quarries have always been considered as part of the Primary or Stone Quarrying Industry. However, some quarry operators have dressing works at other locations, which prior to 1951 were included as Secondary Production in the Stone Products Industry. In 1951, it was decided to consider the latter as part of Primary Production and data for same, therefore, are included with quarry operations in the Stone Quarrying Industry. On this account, totals for both groups prior to 1951 are not comparable with 1951 and subsequent years.

TABLE 14. Principal Statistics of the Stone Products Industry, 1947-1951

Year	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works	Net <sup>1</sup> value of production
			\$	\$	\$	\$	\$
1947 .....	151	1,815	3,426,534	414,430	4,207,405	11,634,684	7,012,849
1948 .....	150	1,862	4,126,838	578,391	4,547,067	13,550,286	8,424,828
1949 .....	163	2,053	4,542,522	707,081	6,095,824	17,449,330	10,646,525
1950 .....	185	2,429	5,730,817	862,626	6,589,627	19,889,745	12,437,492
1951 .....	161	2,270	6,198,170	766,099	6,733,301	18,705,651	11,206,251
Per cent change 1951 from 1950 .....	-	-6.5	+8.2	-11.2	+2.2	-6.0	-9.9

1. Gross value less cost of materials, fuel and electricity.

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 15. Principal Statistics of the Stone Products Industry, by Provinces, 1950 and 1951

Province	Number of plants	Number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
			\$	\$	\$	\$
<b>1950</b>						
Newfoundland .....	3	27	59,719	4,063	42,153	175,170
Prince Edward Island .....	1					
Nova Scotia .....	10	132	207,811	26,354	219,103	645,711
New Brunswick .....	5	45	75,463	5,926	56,548	160,021
Quebec .....	51	473	1,009,131	96,245	855,071	3,051,348
Ontario .....	63	1,380	3,632,311	653,377	4,322,859	13,269,792
Manitoba .....	9	52	97,163	7,448	78,667	254,523
Saskatchewan .....	8	67	140,982	14,675	292,757	602,911
Alberta .....	7	152	285,890	32,847	423,483	887,124
British Columbia .....	8	101	222,347	19,891	298,986	843,145
<b>Canada .....</b>	<b>165</b>	<b>2,429</b>	<b>5,730,817</b>	<b>862,626</b>	<b>6,589,627</b>	<b>19,889,745</b>
<b>1951</b>						
Newfoundland .....	3	32	67,804	4,891	57,156	171,889
Prince Edward Island .....	1					
Nova Scotia .....	7	66	128,085	21,515	151,770	431,471
New Brunswick .....	5	32	53,961	4,417	32,922	154,922
Quebec .....	44	235	505,113	49,551	480,980	1,459,487
Ontario .....	70	1,559	4,670,827	616,724	4,974,131	14,037,599
Manitoba .....	8	44	95,605	6,393	91,795	223,970
Saskatchewan .....	7	61	129,201	15,143	225,507	530,243
Alberta .....	7	138	279,753	29,756	459,274	986,867
British Columbia .....	9	103	267,821	17,709	259,766	709,203
<b>Canada .....</b>	<b>161</b>	<b>2,270</b>	<b>6,198,170</b>	<b>766,099</b>	<b>6,733,301</b>	<b>18,705,651</b>

TABLE 16. Output of the Stone Products Industry, 1950 and 1951

Product	Total selling value at works	
	1950	1951
	\$	\$
Granite, cut and polished:		
(a) Monuments .....	3,938,770	2,614,118
(b) For building purposes .....	606,336	621,405
Marble, cut and polished:		
(a) Monuments .....	683,915	619,383
(b) For building purposes .....	446,183	562,769
Marble chips and dust .....	4,708	4,784
Limestone:		
(a) Monuments and bases .....	65,209	54,232
(b) For building purposes .....	2,993,135	2,275,205
Semi-finished monuments, bases and markers (all kinds, sold for further processing except lettering)	2	150,511
Finished monuments, lettered only .....	393,818	472,112
Other products <sup>1</sup> .....	10,635,841	11,176,968
Repairs and custom work (re-lettering, etc.) .....	121,830	154,164
<b>Total</b> .....	<b>19,889,745</b>	<b>18,705,651</b>

1. Includes mineral wool, etc.  
2. Not available separately.

TABLE 17. Cost of Materials Used in the Stone Products Industry, 1950 and 1951

	Cost at works	
	1950	1951
	\$	\$
Stone:		
(a) From Canadian quarries .....	1,333,361	1,034,752
(b) Imported .....	984,890	918,391
Semi-finished monuments and slabs for further processing, except lettering .....	1	113,467
Monuments, cut and polished, for lettering only .....	210,792	209,647
Silica sand or ground quartz .....	74,681	94,265
Slag and stone for rock wool .....	419,522	393,478
Coke for rock wool .....	412,552	401,583
All other materials .....	3,153,829	3,567,718
<b>Total</b> .....	<b>6,589,627</b>	<b>6,733,301</b>

1. Not available separately.

TABLE 18. Production<sup>1</sup> of Mineral Wool for Building Insulation, 1942-1951

Year	Selling value at works	Year	Selling value at works
	\$		\$
1942 .....	1,417,258	1947 .....	4,966,388
1943 .....	1,707,501	1948 .....	5,828,896
1944 .....	1,617,420	1949 .....	7,474,227
1945 .....	1,839,122	1950 .....	8,104,832
1946 .....	4,098,099	1951 .....	7,926,859

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

TABLE 19. Imports of Mineral Wool and Glass Wool, 1942-1951

Year	Mineral wool		Glass wool		Total	
	Pounds	\$	Pounds	\$	Pounds	\$
1942 .....	1,613,914	54,776			1,613,914	54,776
1943 .....	1,839,670	72,780			1,839,670	72,780
1944 .....	2,619,513	147,862			2,619,513	147,862
1945 .....	8,989,862	460,677				649,373
1946 .....	11,733,377	464,880				872,948
1947 .....	8,663,106	417,450				938,236
1948 .....	111,152	8,795	20,143,761	1,303,099	20,254,913	1,311,894
1949 .....	168,818	10,472	1,659,936	307,854	1,828,754	318,326
1950 .....	208,738	77,848	820,754	318,216	1,029,492	396,064
1951 .....	527,901	64,443	1,289,002	360,684	1,816,903	425,127

TABLE 20. Production<sup>1</sup> of Mineral Wool for Building Insulation, by Grades, 1951

	Quantity	Selling value at works
		\$
4-inch batts .....	Sq. ft. 2,938,360	184,307
3-inch batts .....	Sq. ft. 39,580,790	1,819,762
2-inch batts .....	Sq. ft. 106,440,478	3,920,972
1-inch batts .....	Sq. ft. -	-
Granulated .....	cu. ft. 10,569,320	1,849,756
Bulk or loose wool .....	cu. ft. 971,679	152,082
<b>Total</b> .....	-	<b>7,926,859</b>

1. See footnote to Table 18.

TABLE 21. Producers<sup>1</sup> Shipments of Mineral Wool for Building Insulation, by Months, 1950 and 1951

	Four-inch batts	Three-inch batts	Two-inch batts	One-inch batts	Granulated wool	Bulk or loose wool <sup>1</sup>
	sq. ft.	sq. ft.	sq. ft.	sq. ft.	cu. ft.	cu. ft.
<b>1950</b>						
January .....	188,603	2,409,056	6,646,979	-	690,793	390,163
February .....	89,772	2,154,344	5,409,300	-	697,969	338,141
March .....	165,470	2,431,187	7,506,029	-	822,533	402,919
April .....	114,624	1,704,123	5,262,645	-	480,787	479,563
May .....	193,317	2,699,109	8,740,214	-	782,404	83,547
June .....	223,695	3,595,278	11,297,460	-	989,371	98,455
July .....	430,455	4,163,622	11,813,251	-	887,078	223,119
August .....	520,693	3,766,319	10,135,664	-	1,000,111	177,550
September .....	260,412	4,492,934	11,997,696	-	1,302,865	241,309
October .....	263,354	4,653,076	12,276,417	-	1,381,497	261,774
November .....	236,126	4,607,144	11,000,453	-	1,322,471	144,586
December .....	185,098	2,271,121	7,111,894	-	942,304	113,996
<b>Total</b> .....	<b>2,871,619</b>	<b>38,947,313</b>	<b>109,198,002</b>	-	<b>11,080,183</b>	<b>2,955,122</b>
<b>1951</b>						
January .....	180,251	3,438,403	9,664,985	-	831,470	120,453
February .....	191,479	2,664,871	7,635,538	-	733,511	82,735
March .....	171,704	2,936,096	8,239,530	-	558,083	81,369
April .....	157,409	2,770,698	9,306,116	-	596,353	71,809
May .....	165,478	2,813,642	8,376,595	15,030	718,500	106,522
June .....	332,963	3,018,312	9,080,618	-	767,323	89,294
July .....	397,781	3,070,078	9,106,190	-	844,425	80,894
August .....	307,343	3,525,691	11,207,762	-	920,591	78,461
September .....	284,008	4,176,429	10,033,602	-	1,107,136	109,568
October .....	315,937	4,529,744	10,069,866	-	1,218,052	139,642
November .....	276,168	3,754,032	8,646,895	-	1,265,878	118,916
December .....	230,253	2,083,157	4,929,372	-	707,531	68,039
<b>Total</b> .....	<b>2,990,774</b>	<b>38,761,153</b>	<b>106,297,069</b>	<b>15,030</b>	<b>10,268,861</b>	<b>1,147,702</b>

1. Shipments under this classification from March 1949 to April 1950 included some mineral wool intended for other than building insulation.

## Producers of Mineral Wool - 1951

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

TABLE 22. Employees, Salaries and Wages in the Stone Products Industry, by Provinces, 1950 and 1951

Province	Number of employees					Earnings		
	Supervisory and office		Production workers		Total	Supervisory and office	Production workers	Total
	Male	Female	Male	Female				
						\$	\$	\$
<b>1950</b>								
Newfoundland								
Prince Edward Island	6	2	19	—	27	21,288	38,431	59,719
New Brunswick	6	1	37	1	45	13,760	61,703	75,463
Nova Scotia	16	4	110	2	132	48,964	158,847	207,811
Quebec	118	10	341	4	473	244,260	764,871	1,009,131
Ontario	216	69	1,084	11	1,380	897,103	2,735,208	3,632,311
Manitoba	17	2	32	1	52	38,668	58,495	97,163
Saskatchewan	18	3	47	1	67	53,098	87,884	140,982
Alberta	13	9	124	6	152	42,570	243,320	285,890
British Columbia	24	1	76	—	101	68,922	153,425	222,347
<b>Canada</b>	<b>432</b>	<b>101</b>	<b>1,870</b>	<b>26</b>	<b>2,429</b>	<b>1,428,633</b>	<b>4,302,184</b>	<b>5,730,817</b>
<b>1951</b>								
Newfoundland								
Prince Edward Island	6	3	23	—	32	22,154	45,650	67,804
Nova Scotia	11	5	49	1	66	44,049	84,036	128,085
New Brunswick	5	1	26	—	32	14,400	39,561	53,961
Quebec	78	6	150	1	235	171,797	333,316	505,113
Ontario	279	123	1,152	5	1,559	1,418,243	3,252,584	4,670,827
Manitoba	13	2	28	1	44	39,308	56,297	95,605
Saskatchewan	13	6	42	—	61	45,593	83,608	129,201
Alberta	14	8	114	2	138	52,669	227,084	279,753
British Columbia	23	1	79	—	103	83,106	184,715	267,821
<b>Canada</b>	<b>442</b>	<b>155</b>	<b>1,663</b>	<b>10</b>	<b>2,270</b>	<b>1,891,319</b>	<b>4,306,851</b>	<b>6,198,170</b>

## Directory of Firms in the Stone Products Industry - 1951

Name of company	Location of plant
<b>NEWFOUNDLAND:</b>	
Cook's Marble Works .....	St. John's
Muir's Marble Works, Ltd. ....	St. John's
Skinner's Monumental Works .....	St. John's
<b>PRINCE EDWARD ISLAND:</b>	
Beck, Vere, & Son Ltd. ....	Main Street, Montague
<b>NOVA SCOTIA:</b>	
Coughlan, James S., Marble and Granite Works .....	Simpson's Siding, Halifax
Elmac Company Limited .....	Anson Ave., Amherst
Keddy, C.L., Monument Works .....	171-173 Kempt Road, Halifax
Kelly Monumental Works .....	Bridgewater
Steele, John D., & Sons .....	Commercial Street, North Sydney
Tingley, Harold W. ....	13 Merkel Street, Halifax
Tingley Granite Works .....	Amherst
<b>NEW BRUNSWICK:</b>	
Kane, M.T., & Co. Ltd. ....	Westmoreland Road, Saint John
Miramichi Granite & Marble Works .....	Chatham
St. Stephen Granite Works .....	Queen Street, St. Stephen
Sherrard, T.F., & Son .....	135 Victoria Street, Moncton
Stults Monument Works .....	Saint John
<b>QUEBEC:</b>	
Aiello, S. ....	6776 Sherbrooke St. E., Montreal
Beaulieu, Elzear, & Fils Ltée. Enrg. ....	Ste. Hélène, Co. Kamouraska
Beebe Granite Works .....	Beebe
Bengstrand, N. ....	Waterville
Berson, L., & Son .....	3884 St. Lawrence Blvd., Montreal
Bouchard, Raoul .....	Port Alfred
Brault, L. ....	3 Champlain St., Valleyfield
Brunet, A. ....	Ormstown
Brunet, J., Limitée .....	4485 Cote des Neiges, Montreal
Caron, Eugene .....	Ste. Anne de Beaupré
Chabot, J. Ray .....	Scott Junction
Chausse, Edouard, & Fils .....	524 King St. West, Sherbrooke
Crete, James .....	Royal St., Sorel
Dalceggio, F. ....	4588 Chemin Cote des Neiges, Montreal
Daudelin, Rolland .....	1395 St. Antoine Street, St. Hyacinthe
Denicourt, Thuot .....	84-4th Ave., Iberville
Dominion Granite Works Co. Reg'd. ....	Beebe
Dominion Memorial Supply Reg'd. ....	1864 Darling, Montreal
Ducharme, J. Maurice .....	231 Notre Dame St., Victoriaville
Dugas, Joseph .....	Joliette
Electric Reduction Co. of Canada Ltd. ....	Buckingham
Emalle, John, & Son .....	Beebe
Fortin, Dollard J. ....	St. David de Lévis
Gingras, Roch .....	Ste. Foy
Gignac, Joseph .....	St. Alban Village
Gosselin, M. ....	12 Narcisse, Valleyfield
Goyette & Bisailon .....	Iberville
Houde & Frère Enrg. ....	404 Notre Dame, Cap de la Madeleine
Jacques, André .....	Lévis
Jenne, E.H. ....	Sutton
Lussier, A., Enrg. ....	3290 Cadillac St., Montreal
Parent, G.H. ....	349 rue Montigny, St. Jerome
Picard, W., & Fils .....	3285 Desautels, Montreal
Provost, J.A. ....	209 Belmont, Sherbrooke
Quinlan, Harold, Cut Stone Ltd. ....	Quinlan Ave., Ville La Salle

## Directory of Firms in the Stone Products Industry - 1951 (Continued)

Name of company	Location of plant
<b>QUEBEC - Concluded:</b>	
Rousseau, O., Engr. ....	St. Fabien
Roxton Granite & Marble Works .....	Roxton Falls, Co. Shefford
Smith Bros. Memorial Art Ltd. ....	1195 Ducharme St., Montreal
Smith Marble & Construction Co. Ltd. ....	207 Van Horne Ave. W., Montreal
St. Louis & Fils .....	Cap St. Martin
St. Martin, R.N., & Fils Engr. ....	359-361, rue Maisonneuve, Hull
Todoro & Bigras .....	6752 Sherbrooke St. E., Montreal
Villeneuve & Frère .....	1055 De la Canardière, Quebec
Vincent, Chas. A. ....	515-24th Ave., Lachine
<b>ONTARIO:</b>	
Ambroise Monuments .....	48 Alma St., Guelph
Ambroise, J.D. ....	263 Montreal Road, Eastview
Bishop Asphalt Papers Limited .....	Lakeshore Road, Mimico
Brown, Geo., & Sons .....	473 Bronson Ave., Ottawa
Brown, R., & Son .....	376 Sparks St., Ottawa
Campbell, A.C. ....	21 Bridge St. W., Belleville
Canadian Art Memorials .....	28 Lakeshore Rd. W., Port Credit
Canadian Gypsum Co., Limited .....	Oak St., Weston
Canadian Johns-Manville Co. Ltd. ....	Port Union
Creber, Son & Company .....	1343 St. Clair Ave. W., Toronto
Central Granite & Marble Works .....	1283 Dundas St. W., Toronto
Chatham Marble & Granite Works .....	39E Market Square, Chatham
Chesley Memorial Works .....	Chesley
Cornelius & Son .....	428 Queenston Rd., St. Catharines
Davis Monument Co. ....	3205 Danforth Ave., Toronto
Dundas Monument Works .....	Dundas
Eglinton Monumental Works .....	1702 Eglinton Ave. W., Toronto
Excelsior Granite & Marble Works, The .....	163 Pitt St., E., Windsor
Fiberglas Canada, Limited .....	Sarnia
Gamble, W., & Sons .....	995 Barton St. E., Hamilton
Gladstone & Ross .....	388 East Brock St., Fort William
Geard Brothers .....	612 William St., London
George, John J. ....	Green St., Port Elgin
Gypsum, Lime and Alabastine, Canada, Limited .....	Caledonia
Hardwick, H.G., & Son .....	676 King St. W., Hamilton
Hargrave's Monument Works .....	Haileybury
Holmes Foundry Company Limited .....	200 Exmouth St., Sarnia
Insulation Products Ltd. ....	Beechwood Drive, Toronto
Johnston & Cranston .....	1849 Yonge St., Toronto
Kilvington Granite Company .....	2A Caledonia Rd., Toronto
Kingsway Monumental Works .....	3673 Dundas St., Toronto
Kitchener Monument Works .....	1015 King St. E., Kitchener
Laing, George .....	403-1st St. W., Cornwall
Lakehead Monument .....	Port Arthur and Fort William
Laurin, J.P. ....	George St., Ottawa
London Marble & Granite Co. ....	493 Richmond St., London
Luckett's Dressed Stone .....	Ulster and Leicester Ave., Toronto
McIntyre Monument Co. ....	60 Danforth Ave., Toronto
McKay Cut Stone Co. ....	65 Shalmar Ave., Forest Hill
McMillan Granite Co. Ltd. ....	105 Ontario St., Sarnia
Memorial Company of Toronto, The .....	2299 Bloor St. W., Toronto
Memorial Craftsman Co. ....	429 Spadina Ave., Toronto
Monumental Art Co. ....	2168 Dundas St. W., Toronto
National Cut Stone Limited .....	355 Logan Ave., Toronto
Oakville Monument Works .....	19 Colborne St., Oakville
Ontario Marble Co. Ltd. ....	Marie St., Peterborough
Orillia Monument Co. ....	252 Coldwater Rd. W., Orillia
Rhodes Memorials Ltd. ....	Cayuga
Rigg Memorial Works .....	605 Queen St., Niagara Falls

## Directory of Firms in the Stone Products Industry - 1951 (Concluded)

Name of company	Location of plant
<b>ONTARIO—Concluded:</b>	
Ritchie Cut Stone Co. Ltd., The .....	203 New Toronto St., New Toronto
Rivercourt Memorials .....	296 O'Connor Drive, Toronto
Ronald, Wellington .....	Listowel
Rutter Granite Company .....	73 Ontario St., Port Hope
Sanderson Monumental Company .....	33 Peter St. S., Orillia
Sault Granite & Marble Works .....	715 Queen St. E., Sault Ste. Marie
Scott, James N., Cut Stone Co. ....	3 Canvarco Rd., Leaside
Sinclair Cut Stone & Construction Co. Ltd. ....	Frid St., Hamilton
Sharp Bros. Cut Stone Company Limited .....	516 Kenilworth St. N., Hamilton
Skelton, E.J., & Son .....	Walkerton
Smith Monument Works .....	1543 Main St. E., Hamilton
Smith Monument Co. ....	349 Weston Road, Toronto
Spun Rock Wools Limited .....	65 Ormond St., Thorold
Stafford Bros. ....	318 Dundas St. E., Whitby
Standard Stone Company, Limited .....	1704 Howard Ave., Windsor
Sudbury Memorial Works .....	453 Arnley St., Sudbury
Thomson Monument Co. Ltd. ....	862 Dupont St., Toronto
Twin City Monument Company .....	541 King St. E., Kitchener
United Marble Co. ....	Rear 46 Shaftesbury Ave., Toronto
Wardell Monument Works .....	2696 Dundas St. W., Toronto
Wilson's Cut Stone .....	100 Broadway, Hamilton
<b>MANITOBA:</b>	
Brunet, Joseph O. ....	405 Bertrand St., St. Boniface
Guinn & Simpson Company Limited .....	52 Tupper St. N., Portage la Prairie
MacIntyre, A.L., & Sons, Art Memorials .....	849 Notre Dame Ave., Winnipeg
Memorial Marble & Tile Co. Ltd. ....	1180 Wall St., Winnipeg
Neepawa Marble & Granite Works .....	Neepawa
Portage Memorials .....	Main and Alfred Sts., Portage la Prairie
Somerville Marble & Granite Works .....	1417 Rosser Ave., Brandon
Wilson Memorials .....	1898 Main St., Winnipeg
<b>SASKATCHEWAN:</b>	
Best Monumental Co. ....	721 Caribou St. W., Moose Jaw
Glacial Rock Insulation Ltd. ....	Township 17, Moose Jaw
Molaro Marble & Stone Works .....	23rd St. and Pacific Ave., Saskatoon
Moose Jaw Marble & Granite Works Ltd. ....	705 Athabasca St. E., Moose Jaw
Regina Monumental Co. Ltd. ....	2536 Railway St., Regina
Yorkton Monumental Works .....	107 West Broadway, Yorkton
Young, Alex, Cut Stone Company .....	Scarth St. and 4th Ave., Regina
<b>ALBERTA:</b>	
Alberta Granite, Marble & Stone Co. Ltd. ....	10702-101st St., Edmonton
Gypsum, Lime & Alabastine Canada Ltd. ....	30th Ave. and 17th St. E., Calgary
Hart, Albert J. ....	1821 Second St. E., Calgary
Maclean Granite Co. ....	Red Deer
McDonald Granite Co. Ltd., The .....	2313 Second St. E., Calgary
Rock Wool Products Limited .....	Gap Lake, via Exshaw, Calgary
Somerville Calgary Monumental Co. ....	121-13th Ave. W., Calgary
<b>BRITISH COLUMBIA:</b>	
Chandler, W.R., Memorials & Western Granite Co. ....	5498 Fraser St., Vancouver
Continental Marble Company Limited .....	1002 Georgia St. E., Vancouver
Kingsway Monumental Works .....	3070 Kingsway St., Vancouver
Mortimer's Monumental Works Ltd. ....	633 David St., Victoria
Nelson Granite & Monumental Co. ....	Nelson
Pacific Coast Granite Ltd. ....	609 East 16th Ave., Vancouver
Stewart Monumental Works Ltd. ....	1401 May St., Victoria
Westaway's Monumental Works .....	143 Columbia St. E., New Westminster
Western Insulation Co. Ltd. ....	576 West 1st Ave., Vancouver

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