

velopments in Canada that resulted in increased production of these materials prior to the depression may be mentioned: (1) the tendency for brick to be replaced by reinforced concrete, cement blocks, etc., as indicated at p. 270 by a decline in brick production and an increase in that of cement; (2) the extensive improvement during that period in the mileage and character of roads and highways in Canada; and (3) the improvement of railway roadbeds.

The provincial distribution of the 1939 production of sand and gravel, and stone, is shown in Table 6, p. 243, while the chief purposes for which these materials were produced are shown in Table 37. Sand and gravel production in 1939 totalled 31,294,341 tons valued at \$11,241,102, and stone production including slate amounted to 5,443,522 tons valued at \$6,455,696.

37.—Production of Sand and Gravel and Stone in Canada, 1937-39

Material and Purpose	1937		1938		1939	
	Quantity	Gross Value	Quantity	Gross Value	Quantity	Gross Value
	tons	\$	tons	\$	tons	\$
Sand—						
Moulding sand.....	100,668	44,551	18,845	19,698	17,618	18,652
For building, concrete, roads, etc.....	1,356,269	476,824	1,750,187	685,976	1,169,899	364,829
Other.....	59,007	13,087	67,595	22,909	55,019	15,547
Sand and Gravel—						
For railway ballast.....	2,764,639	533,876	2,359,703	443,936	3,223,718	603,288
For concrete, roads, etc.....	19,453,188	8,340,764	22,513,256	9,101,882	22,899,751	8,988,114
For mine filling.....	1,170,260	146,811	1,852,323	256,380	1,452,993	194,332
Crushed gravel.....	2,097,270	936,783	3,661,973	1,471,773	2,475,343	1,056,340
Totals, Sand and Gravel.....	27,001,301	10,492,696	32,223,882	12,002,554	31,294,341	11,241,102
Stone—						
Building.....	49,098	746,370	49,666	725,402	71,288	1,334,340
Monumental and ornamental.....	8,301	278,325	22,382	448,328	8,296	313,019
Limestone for agriculture.....	112,628	131,071	129,689	146,557	192,505	271,294
Chemical Uses—						
Flux.....	345,742	266,780	314,604	233,671	273,970	203,672
Pulp and paper.....	200,893	219,461	114,572	126,980	175,154	206,126
Other.....	147,312	140,056	122,561	107,349	128,154	113,781
Rubble and riprap.....	699,586	608,453	501,216	359,232	429,205	341,002
Crushed.....	5,309,039	4,306,867	3,789,680	3,197,797	4,076,208	3,405,247
Totals, Stone¹.....	6,935,612	6,939,360	5,116,022	5,556,026	5,443,522	6,455,696

¹ Totals include minor items not specified.

The quantities and values of stone produced, given in the table above, represent only the production of those establishments that actually quarry their own stone and are exclusive of the products of the stone-dressing industry comprising those establishments that buy rough stone and dress, polish, or finish it; although dressing operations are frequently carried on right at the quarry and to that extent cannot be separated from the primary production. Of the total quantity of stone produced in 1939 about 76 p.c. was limestone, 20 p.c. granite, 3.2 p.c. sandstone, and 0.3 p.c. marble. The average value per ton was \$0.92 for limestone, \$1.92 for granite, \$1.88 for sandstone, and \$14.16 for marble. The marble was used chiefly for terrazzo chips and stucco dash, for poultry grit, and rubble and riprap; large quantities of limestone were used for fluxing and other chemical purposes, but by far the largest part of all stone except marble was used as crushed stone.