

Sand and Gravel, and Stone.—The Mining, Metallurgical and Chemical Branch of the Bureau of Statistics presents details of production and organization of the stone industry separately from that of sand and gravel, but for the sake of brevity they are here discussed together. However, the figures of stone production shown do not include the limestone used to produce lime and cement, nor the quartz and other rock minerals, which are shown separately in Table 2, p. 293. The production of these materials increased greatly up to the world depression that began in 1930. The expansion in the stone industry was chiefly in crushed stone. Thus a production of crushed stone in 1922 of 3,044,399 tons had increased by 1930 to 8,062,330 tons, while in the same period the production of sand and gravel increased from 11,666,374 tons to 28,547,511 tons. During the depression the output contracted sharply, but since 1933 there has been some recovery. Among the developments 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. 323, 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 1942 production of sand and gravel, and stone, is shown in Table 6, p. 299, while the chief purposes for which these materials were produced are shown in Table 33.

The quantities and values of stone produced, given in the following table, 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.

33.—Production of Sand and Gravel, and Stone in Canada, 1940-42

Material and Purpose	1940		1941		1942	
	Quantity	Gross Value	Quantity	Gross Value	Quantity	Gross Value
	tons	\$	tons	\$	tons	\$
Sand—						
Moulding sand.....	29,602	30,538	38,309	40,066	35,807	41,825
For building, concrete, roads, etc.....	1,961,604	537,937	2,192,405	729,901	2,535,366	934,777
Other.....	53,455	23,514	129,559	43,734	56,723	16,204
Sand and Gravel—						
For railway ballast.....	3,834,904	699,518	4,836,908	916,979	4,610,323	957,781
For concrete, roads, etc.....	21,465,961	9,100,612	19,769,798	7,135,258	16,139,859	6,010,412
For mine filling.....	1,031,046	150,209	1,363,317	190,504	836,757	147,602
Crushed gravel.....	2,998,843	1,216,917	3,274,510	1,319,281	2,135,072	896,813
Totals, Sand and Gravel.....	31,375,415	11,759,245	31,604,806	10,375,723	26,349,907	9,005,414
Stone—						
Building.....	97,336	722,514	54,262	653,077	24,897	361,781
Monumental and ornamental.....	7,956	282,381	12,429	376,687	10,956	461,332
Limestone for agriculture.....	175,554	275,231	217,137	454,388	286,184	641,200
Chemical Uses—						
Flux.....	331,154	240,402	530,916	401,459	759,410	1,043,283
Pulp and paper.....	248,755	315,080	240,365	305,691	207,994	330,933
Other.....	145,776	126,314	194,409	182,424	273,907	280,817
Rubble and riprap.....	452,714	298,635	581,589	367,173	412,528	330,274
Crushed.....	5,870,099	4,799,003	5,986,701	4,792,967	5,883,760	4,829,644
Totals, Stone¹.....	7,447,665	7,398,959	7,940,801	8,000,684	7,978,066	8,746,594

¹ Totals include minor items not specified.