

Deposits of sand and gravel are numerous throughout eastern Canada, with the exception of Prince Edward Island where gravels are scarce. The local needs for these materials are usually supplied from the nearest deposits, as their cost to the consumer is governed largely by the length of the haul. This accounts for the large number of small pits and the small number of large plants. Every province, except New Brunswick and Prince Edward Island, produces natural bonded sand. By far the greatest part of production comes from the Niagara Peninsula, Ont.

Some grades of sand particularly suitable for certain industries demand a much higher price than ordinary sand. Commercial production of sand and gravel is greatest in Quebec and Ontario, these two provinces contributed 73 p.c. of the total quantity in 1946.

The greater part of the output of gravel and sand is used in road improvement, concrete works and railway ballast, and most of the commercial plants are equipped for producing crushed gravel, a product that can compete with crushed stone.

The stone industry in Canada has two main divisions, stone quarrying and the stone products industry. The kind of stone quarried in Canada includes granite, limestone, marble, sandstone and slate. The products of these quarries yield high-grade structural and decorative materials and also supply requirements for chemical and other allied industries. The gross value of stone of all varieties produced in Canada in 1945 totalled \$8,166,700.

39.—Quantities and Values of Sand, Sand and Gravel, and Stone Produced, 1943-45

| Material and Purpose | 1943 | | 1944 | | 1945 | |
|--|-------------------|------------------|-------------------|-------------------|-------------------|-------------------|
| | Quantity | Gross Value | Quantity | Gross Value | Quantity | Gross Value |
| | tons | \$ | tons | \$ | tons | \$ |
| Sand— | | | | | | |
| Moulding sand..... | 42,656 | 76,199 | 31,947 | 65,168 | 31,611 | 57,842 |
| For building, concrete, roads, etc..... | 1,970,316 | 775,392 | 1,605,514 | 743,191 | 2,247,887 | 918,739 |
| Other..... | 77,223 | 17,609 | 50,513 | 18,761 | 191,510 | 68,468 |
| Sand and Gravel— | | | | | | |
| For railway ballast..... | 3,837,111 | 712,140 | 4,428,721 | 900,610 | 4,625,512 | 1,116,297 |
| For concrete, roads, etc..... | 16,060,686 | 6,155,625 | 16,648,511 | 6,898,582 | 17,582,686 | 6,573,527 |
| For mine filling..... | 1,486,585 | 270,863 | 3,007,422 | 397,578 | 1,974,888 | 376,935 |
| Crushed gravel..... | 2,269,892 | 998,029 | 2,627,358 | 1,256,226 | 3,096,611 | 1,456,555 |
| Totals, Sand, Sand and Gravel.... | 25,744,469 | 9,005,857 | 28,399,986 | 10,280,118 | 29,750,703 | 10,568,363 |
| Stone— | | | | | | |
| Building..... | 17,087 | 314,428 | 23,142 | 396,202 | 56,711 | 751,401 |
| Monumental and ornamental..... | 11,235 | 514,263 | 15,942 | 737,564 | 16,229 | 786,403 |
| Limestone for agriculture..... | 271,036 | 533,217 | 316,945 | 601,042 | 419,579 | 891,802 |
| Chemical Uses— | | | | | | |
| Flux..... | 837,554 | 682,635 | 626,052 | 523,554 | 538,798 | 489,055 |
| Pulp and paper..... | 215,382 | 374,880 | 208,665 | 374,137 | 212,051 | 413,055 |
| Other..... | 276,290 | 272,612 | 274,645 | 272,681 | 300,665 | 313,059 |
| Rubble and riprap..... | 540,627 | 418,925 | 201,601 | 187,823 | 241,780 | 237,018 |
| Crushed..... | 4,942,578 | 4,421,787 | 4,219,635 | 3,641,959 | 4,282,286 | 3,742,506 |
| Totals, Stone¹..... | 7,222,950 | 7,964,179 | 5,994,992 | 7,159,177 | 6,205,555 | 8,166,700 |

¹ Totals include minor items not specified.