

28.—Production, Imports, Exports and Apparent Consumption of Portland Cement, by Quantities and Values, calendar years 1910-31.

Year.	Production. ¹		Imports.		Exports. ²		Apparent Consumption.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
	brl. ³	\$	brl. ³	\$	brl. ³	\$	brl. ³	\$
1910.....	4,753,975	6,412,215	349,415	468,395	—	12,914	5,103,285	6,867,696
1911.....	5,692,015	7,644,537	669,532	840,986	—	4,067	6,354,831	8,481,466
1912.....	7,132,732	9,106,556	1,434,413	1,969,529	—	2,436	8,567,145	11,073,649
1913.....	8,658,805	11,019,418	254,093	409,303	—	1,736	8,912,898	11,426,985
1914.....	7,172,486	9,187,924	98,022	147,158	—	2,223	7,270,502	9,332,859
1915.....	5,681,032	6,977,024	28,190	40,426	—	5,161	5,709,222	7,012,289
1916.....	5,389,560	6,547,728	20,596	31,621	—	2,424	5,390,156	6,576,925
1917.....	4,768,488	7,724,246	8,580	19,646	—	16,857	4,777,068	7,727,035
1918.....	3,591,481	7,076,503	5,913	19,851	—	13,752	3,597,394	7,032,602
1919.....	4,995,257	9,802,433	14,066	51,314	—	465,954	4,831,817	9,337,793
1920.....	6,681,980	14,798,070	32,963	112,466	—	2,193,626	6,849,276	12,716,910
1921.....	5,752,885	14,195,143	12,057	75,670	242,345	650,658	5,522,597	13,620,155
1922.....	8,943,972	15,438,481	30,914	83,037	425,137	699,738	6,549,749	14,821,780
1923.....	7,543,589	15,064,661	17,697	75,294	463,751	824,811	7,067,535	14,315,144
1924.....	7,498,824	13,398,411	27,672	69,320	153,520	213,845	7,372,776	13,253,886
1925.....	8,116,597	14,046,704	21,849	63,067	997,915	1,492,495	7,140,531	12,611,276
1926.....	8,707,021	13,013,283	21,114	77,866	285,932	358,231	8,442,203	12,732,918
1927.....	10,065,865	14,391,937	19,354	87,541	249,694	308,144	9,835,525	14,171,334
1928.....	11,023,928	16,739,163	34,047	146,164	267,325	340,624	10,790,650	16,544,703
1929.....	12,284,081	19,337,235	55,980	189,189	234,111	252,955	12,105,950	19,273,449
1930.....	11,082,538	17,713,067	143,436	569,848	198,736	212,071	10,977,238	18,070,844
1931 ⁴	10,161,668	15,826,243	38,392	143,491	114,064	124,267	10,085,986	15,845,467

¹The barrel of cement=350 lb. or 3½ cwt. ²"Production" as used here means quantity and value of sales. ³Quantities of exports were not recorded prior to 1921. ⁴Preliminary figures.

Stone, Sand and Gravel.—While the Mineral Branch of the Dominion Bureau of Statistics presents details of the production and industrial organization of the stone industry separately from that of sand and gravel, for the sake of brevity they are here discussed together. Production of these materials has increased greatly in recent years and the expansion in the stone industry has been chiefly in crushed stone. Thus a production of crushed stone in 1922 of 3,044,399 tons had increased in 1930 to 8,062,330 tons, while during the same period the production of sand and gravel increased from 11,666,374 tons to 28,547,511 tons, used chiefly for railway ballast, concrete and road work and building sand. The preliminary figures for 1931 for stone are 8,223,799 tons and for sand and gravel, 24,608,413 tons. Among the developments in Canada which appear to have resulted in the increased production of these materials may be mentioned: (1) the tendency in construction work for brick to be replaced by reinforced concrete, cement blocks, etc., as indicated above by a decline in brick production and an increase in that of cement; (2) the vast improvement during the past decade in the mileage and character of roads and highways in Canada; and (3) the improvement of railway road-beds, since, in addition to the ordinary requirements of gravel for mere maintenance of railways, lines are being better constructed to provide for heavier traffic and many of the most important stretches of railway are being re-ballasted with crushed stone.

The provincial distribution of the 1930 production of stone, sand and gravel is shown in Table 5, while the chief purposes for which these materials were produced are shown in Table 29. The production of sand and gravel came chiefly from Ontario with 42 p.c., Quebec with 23 p.c. and Saskatchewan with 13 p.c. Of the stone Ontario produced 54 p.c. and Quebec 38 p.c., Saskatchewan reported no stone production and Alberta less than 0.1 p.c. of the Dominion total.