

**31.—Production, Imports, Exports and Apparent Consumption of Portland Cement, by Quantities and Values, calendar years 1916-32.**

Year.	Production. <sup>1</sup>		Imports.		Exports. <sup>2</sup>		Apparent Consumption.	
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
	brl. <sup>1</sup>	\$	brl. <sup>1</sup>	\$	brl. <sup>1</sup>	\$	brl. <sup>1</sup>	\$
1910.....	4,753,975	6,412,215	349,415	468,395	—	12,914	5,103,285	6,867,696
1911.....	5,692,915	7,644,537	660,532	840,986	—	4,067	6,354,831	8,481,456
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	264,093	409,303	—	1,736	8,912,895	11,426,965
1914.....	7,172,480	9,187,324	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.....	5,869,560	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	—	16,867	4,777,068	7,727,035
1918.....	3,591,481	7,076,503	5,913	19,851	—	18,752	3,597,394	7,082,602
1919.....	4,995,257	9,802,433	14,066	51,314	177,506	465,954	4,831,817	9,387,793
1920.....	6,651,980	14,798,070	32,963	112,466	835,687	2,193,626	5,849,276	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.....	6,943,972	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	493,751	824,811	7,067,535	14,315,144
1924.....	7,498,624	13,398,411	27,672	69,320	153,520	213,845	7,372,776	13,253,886
1925.....	8,116,897	14,046,704	21,849	63,067	997,915	1,498,495	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.....	10,085,865	14,391,937	19,354	87,541	249,694	308,144	9,835,525	14,171,384
1928.....	11,028,928	16,739,163	34,047	146,164	267,325	340,624	10,780,650	16,544,703
1929.....	12,284,081	19,337,236	55,980	189,169	254,111	252,955	12,105,590	19,273,449
1930.....	11,032,538	17,713,067	143,436	569,848	198,736	212,071	10,977,238	18,070,844
1931.....	10,161,658	15,826,243	38,392	143,491	114,064	124,267	10,085,985	15,845,467
1932 <sup>4</sup> .....	4,498,721	6,930,721	21,351	53,092	53,333	38,921	4,466,739	6,949,892

<sup>1</sup>The barrel of cement=350 lb. or  $\frac{3}{4}$  cwt. <sup>2</sup>"Production" as used here means quantity and value of sales. <sup>3</sup>Quantities of exports were not recorded prior to 1921 and were insignificant prior to 1919. <sup>4</sup>Preliminary 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 in 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 1932 for stone are 4,803,910 tons and for sand and gravel, 12,599,706 tons. These figures reflect in general the curtailment of construction activities in 1932. Among the developments in Canada which have resulted in the increased production of these materials prior to the current depression may be mentioned: (1) the tendency 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.

The provincial distribution of the 1931 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 32. The production of sand and gravel came chiefly from Quebec with 35 p.c., Ontario with 34 p.c. and British Columbia with 13 p.c. Of the stone Quebec produced 51 p.c. and Ontario 40 p.c., while Saskatchewan reported no stone production and Alberta less than 0.1 p.c. of the Dominion total.