

562.1-2071  
44-204  
1945 C.3

Historical File Copy

Published by Authority of the Hon. James A. MacKINNON, M.P.,  
Minister of Trade and Commerce

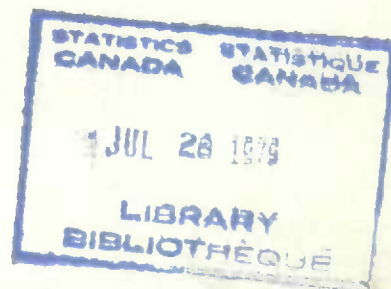
**CANADA**

**DEPARTMENT OF TRADE AND COMMERCE**

**DOMINION BUREAU OF STATISTICS**

**CENSUS OF INDUSTRY AND MERCHANDISING**

**MINING, METALLURGICAL & CHEMICAL STATISTICS**

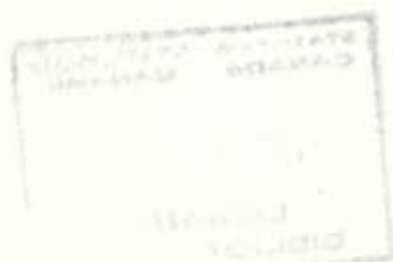


**THE CEMENT (MANUFACTURING) INDUSTRY**  
**IN**  
**CANADA**  
**1945**



**OTTAWA**  
**1946**

Price 25 cents



553.68071

C16 b  
1945  
Vol. 1

Dominion Statistician:	Herbert Marshall
Director - Division of Census of Industry and Merchandising:	W. H. Losee
Chief - Mining, Metallurgical and Chemical Branch:	H. McLeod

### THE CEMENT MANUFACTURING INDUSTRY, 1945

Shipments of Portland cement by Canadian producers amounted to 8,471,679 barrels valued at \$14,246,480 in 1945, an increase of 18 per cent in quantity and 23 per cent in value over the 1944 shipments of 7,190,851 barrels at \$11,621,372. Production by provinces in 1945 was as follows: Quebec 3,872,273 barrels; Ontario 2,460,996 barrels; Manitoba 959,398 barrels; Alberta 620,337 barrels, and British Columbia 558,575 barrels.

The same 8 plants were in operation during 1945 as in the previous year. The Canada Cement Company Limited had works at Hull and Montreal East in Quebec, at Port Colborne and Belleville in Ontario, at Fort Whyte in Manitoba, and at Exshaw in Alberta. The St. Mary's Cement Company operated a mill at St. Mary's, Ontario, and the British Columbia Cement Company had a plant at Bamberton, British Columbia. These mills had 19 kilns with total rated capacity of 33,250 barrels per day. Raw materials used in 1945 included 70,600 tons of shale, 1,849,258 tons of limestone, 45,883 tons of gypsum, 29,424 tons of silica sand, 161,980 tons of clay and 3,197 tons of pyrite cinder. There is also one plant in Canada, operated by Medusa Products Company of Canada Limited at Paris, Ontario, which makes white Portland cement, cement paints, etc., but since this works uses imported clinker its operations have not been included in this review, which is concerned only with the establishments which operate on domestic raw materials.

An average of 1,317 workers were employed in this industry in 1945 and salaries and wages totalled \$2,398,117. Raw materials, process supplies and containers cost \$2,794,676, fuel and electricity cost \$3,210,929, and the gross value of shipments, f.o.b. works, including containers, was \$15,422,031.

Imports of ordinary Portland cement into Canada amounted to 32,653 barrels valued at \$141,539, and the imports of white Portland cement clinker totalled 16,728 barrels at \$35,023. Exports of Portland cement in 1945 amounted to 281,944 barrels at \$535,012.

Table 1 - PRINCIPAL STATISTICS FOR THE CEMENT MANUFACTURING INDUSTRY IN CANADA, 1936-1945

Year	Plants	Em- ployees	Salaries and wages	Cost of fuel and electri- city	Cost of process supplies, materials and con- tainers(x)	Gross value of products sold during year including con- tainers (f.o.b. works)
	No.	No.	\$	\$	\$	\$
1936 ...	9	1,052	1,196,664	1,576,142	592,929	6,908,192(x)
1937 ...	9	1,083	1,373,444	1,904,413	540,915	9,095,867(x)
1938 ...	8	1,034	1,306,331	1,764,427	1,369,173	9,081,366
1939 ...	8	1,001	1,297,542	1,705,981	1,372,238	9,351,391
1940 ...	8	1,052	1,515,766	2,347,730	1,943,491	13,006,643
1941 ...	8	1,235	1,860,931	2,897,383	2,146,825	14,323,372
1942 ...	8	1,241	2,059,337	3,127,264	2,287,223	15,628,403
1943 ...	8	1,209	2,154,218	3,089,380	2,467,709	12,709,852
1944 ...	8	1,207	2,254,775	3,197,955	2,566,432	12,646,741
1945 ...	8	1,317	2,398,117	3,210,929	2,794,676	15,422,031

Note: For FOOTNOTE see Page 2.



## Footnote to Table 1

(x) Includes only process supplies for 1936 and 1937; both process supplies and containers for 1938 to 1942 inclusive; and process supplies, containers, and raw materials for later years.

Table 2 - EMPLOYEES, SALARIES AND WAGES IN THE CEMENT MANUFACTURING INDUSTRY IN CANADA, 1940-1945

CANADA, 1940-1945								
Year	Number of Employees				Total	Salaries	Wages	Total salaries and wages
	On Salaries		On Wages					
	Male	Female	Male	Female				
						\$	\$	\$
1940 ...	79	4	969	...	1,052	191,548	1,324,218	1,515,766
1941 ...	79	8	1,148	...	1,235	190,771	1,670,160	1,860,931
1942 ...	79	10	1,152	...	1,241	200,779	1,858,558	2,059,337
1943 ...	75	16	1,091	27	1,209	215,137	1,939,081	2,154,218
1944 ...	76	16	1,066	49	1,207	229,490	2,025,285	2,254,775
1945 ...	87	15	1,159	56	1,317	248,365	2,149,752	2,398,117

Table 3 - WAGE-EARNERS IN THE CEMENT MANUFACTURING INDUSTRY IN CANADA, BY MONTHS, 1944 and 1945

Month	1 9 4 4			1 9 4 5		
	Quarry		Mill	Quarry		Mill
	Male	Female		Male	Female	
January .....	136	903	12	129	942	39
February .....	138	915	11	120	928	30
March .....	139	930	11	122	930	31
April .....	140	940	43	126	928	39
May .....	157	917	64	149	936	72
June .....	141	896	69	151	993	73
July .....	162	941	73	156	1,027	79
August .....	151	936	75	152	1,033	72
September .....	157	895	66	153	1,047	64
October .....	161	911	65	146	1,123	61
November .....	145	927	59	147	1,161	54
December .....	136	908	45	165	1,126	45
AVERAGE .....	147	919	49	144	1,015	56

Table 4 - NUMBER OF WAGE-EARNERS WHO WORKED THE NUMBER OF HOURS SPECIFIED, DURING ONE WEEK IN MONTH OF HIGHEST EMPLOYMENT, 1945

Hours	Male		Hours	Female	
	No.	No.		No.	No.
30 hours or less	29	6	51-54 hours ....	59	1
31-43 hours ....	94	14	55 hours .....	9	...
44 hours .....	168	1	56-64 hours ....	134	5
45-47 hours ....	45	3	65 hours or over	21	...
48 hours .....	734	45	Total .....	1,345	76
49-50 hours ....	52	1	Total wages paid in that week \$	45,902	1,847

Table 5 - FUEL AND ELECTRICITY USED IN THE CEMENT MANUFACTURING INDUSTRY,  
1944 and 1945

	Unit of measure	1 9 4 4		1 9 4 5	
		Quantity	Value	Quantity	Value
			\$		\$
Bituminous coal--Canadian short ton		108,292	731,706	121,299	823,388
Imported short ton		219,302	1,634,690	206,995	1,566,420
Gasoline .....	Imp.gal.	136,170	36,893	141,359	38,025
Kerosene .....	Imp.gal.	6,943	1,304	8,996	1,673
Fuel oil and diesel oil..	Imp.gal.	51,392	6,249	65,272	7,741
Wood (cords of 128 cu.ft.)	cord	48	348	72	422
Electricity purchased, in- cluding service charges.	K.W.H.	137,259,162	786,765	146,034,925	772,660
TOTAL .....	...	...	3,197,955	...	3,210,929
Electricity generated for own use .....	K.W.H.	394,218	...	417,869	...

Table 6 - POWER EQUIPMENT IN CEMENT PLANTS IN CANADA, 1945

Description	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power (x)	Number of units	Total horse power (x)
Steam engines .....	1	50	...	...
Diesel engines .....	5	1,176	...	...
Gasoline, gas and oil engines, other than diesel engines .....	42	1,306	6	442
Electric motors -				
(a) Operated by purchased power	1,470	76,136	291	13,409
Total .....	1,518	78,668	297	13,851
(b) Operated by power generated by the establishment .....	26	968	6	210
Stationary boilers .....	8	475	1	40
Motor-generator sets .....	13	1,284	1	160

(x) According to manufacturers' rating.

Table 7 - PRODUCTION, IMPORTS AND EXPORTS OF PORTLAND CEMENT, 1944 and 1945

	1 9 4 4		1 9 4 5	
	Barrels(x)	Value	Barrels(x)	Value
		\$		\$
Output .....	7,601,007	...	7,819,412	...
Shipments (sold or used by pro- ducers) .....	7,190,851	11,621,372	8,471,679	14,246,480
Stocks on hand December 31 .....	2,006,799	...	1,354,532	...
Imports -				
Portland cement and hydraulic or water lime .....	14,004	76,838	32,653	141,539
Portland cement clinker (white)	9,872	21,130	16,728	35,023
Manufactures n.o.p. ....	...	21,128	...	31,306
Exports -				
Portland cement .....	210,449	377,434	231,944	535,012
APPARENT CONSUMPTION .....	6,994,406(/)	...	8,222,388(/)	...

(x) 1 barrel = 350 pounds.

(/) Exclusive of clinker imported.



Table 8 - PRODUCERS' SHIPMENTS AND APPARENT CONSUMPTION OF CEMENT IN CANADA, 1930-1945

Year	Shipments (sold or used)		Apparent Consumption(x)
	Barrels	\$	Barrels
1930 .....	11,032,538	17,713,067	10,977,238
1931 .....	10,161,658	15,826,243	10,085,986
1932 .....	4,498,721	6,930,721	4,466,738
1933 .....	3,007,432	4,536,935	2,974,020
1934 .....	3,783,226	5,667,946	3,727,521
1935 .....	3,648,086	5,580,043	3,610,217
1936 .....	4,508,718	6,908,192	4,479,656
1937 .....	6,168,971	9,095,867	6,157,485
1938 .....	5,519,102	8,241,350	5,478,180
1939 .....	5,731,264	8,511,211	5,591,328
1940 .....	7,559,648	11,775,345	7,272,886
1941 .....	8,368,711	13,063,588	8,069,824
1942 .....	9,126,041	14,365,237	8,878,481
1943 .....	7,302,289	11,599,033	7,148,265
1944 .....	7,190,851	11,621,372	6,994,406
1945 .....	8,471,679	14,246,480	8,222,388

(x) Shipments plus imports less exports.

Table 9 - PRODUCERS' SHIPMENTS OF CEMENT IN CANADA, BY PROVINCES, 1943-1945

Province	1	9	4	3	1	9	4	4	1	9	4	5
	Barrels		Value(x)		Barrels		Value(x)		Barrels		Value(x)	
			\$				\$				\$	
Quebec .....	3,394,895		4,899,578		3,249,302		4,736,004		3,872,373		5,985,077	
Ontario .....	1,972,009		2,872,732		1,863,210		2,730,381		2,460,996		3,805,131	
Manitoba ...	793,913		1,503,416		865,756		1,698,567		959,398		2,027,629	
Alberta ....	606,703		1,176,442		699,989		1,370,502		620,337		1,246,346	
British Columbia ..	534,769		1,146,865		512,594		1,085,918		558,575		1,182,297	
CANADA ...	7,302,289		11,599,033		7,190,851		11,621,372		8,471,679		14,246,480	

(x) Less value of containers.

Table 10 - SELLING PRICE PER BARREL OF CANADIAN CEMENT, F.O.B. WORKS, 1936-1945

Year	High	Low	Year	High	Low
	\$	\$		\$	\$
1936 .....	2.68	1.25	1941 .....	2.70	1.25
1937 .....	2.68	1.25	1942 .....	2.70	1.25
1938 .....	2.35	1.25	1943 .....	2.70	1.25
1939 .....	2.35	1.25	1944 .....	2.70	1.25
1940 .....	2.35	1.32	1945 .....	2.70	1.38

Table 11 - SPECIFIED MATERIALS USED IN CANADIAN CEMENT PLANTS, 1936-1945

Year	Shale	Limestone	Gypsum	Silica sand (tons)	Clay	Iron oxides (x)
1936 .....	(x)	1,180,358	25,447	8,549	94,943	(x)
1937 .....	(x)	1,465,168	33,691	9,281	195,877	444
1938 .....	13,821	1,344,868	51,975	9,465	143,421	22
1939 .....	27,241	1,379,858	31,492	7,942	105,982	16
1940 .....	18,347	1,765,944	38,903	15,238	144,152	170
1941 .....	26,837	2,086,781	49,031	16,110	185,954	614
1942 .....	30,498	2,155,750	49,816	20,711	188,202	2,094
1943 (a) ...	75,460(b)	1,918,742	47,034	19,473	165,345	1,502
1944 .....	74,303	1,865,597	42,672	23,942	173,728	3,924
1945 (c) ...	70,600	1,849,258	45,883	29,424	161,980	3,197

(x) Data not recorded.

(x) Produced from iron pyrites by the chemical industry.

(a) Value of these materials purchased in 1943 totalled \$408,289.

(b) Prior to 1943 shale consumed in British Columbia plants was included with limestone.

(c) Value of these materials purchased in 1945 totalled \$349,195.

Table 12 - COAL USED IN PORTLAND CEMENT PLANTS IN CANADA, 1936-1945

Year	Canadian		Foreign	
	Tons	\$	Tons	\$
1936 .....	119,903	635,631	66,460	367,740
1937 .....	145,791	760,766	90,925	513,417
1938 .....	127,812	656,187	89,172	499,812
1939 .....	190,538	1,010,071	16,141	82,336
1940 .....	185,325	1,108,287	85,885	513,224
1941 .....	125,740	772,829	203,905	1,331,448
1942 .....	156,544	1,003,490	192,105	1,305,383
1943 .....	98,135	595,385	225,741	1,664,546
1944 .....	108,292	731,706	219,802	1,634,690
1945 .....	121,299	823,988	206,995	1,566,420

Table 13 - NUMBER AND CAPACITY OF KILNS IN PORTLAND CEMENT PLANTS IN CANADA, 1936-1945

Year	Total Kilns		Kilns in Use During the Year	
	Number	Total capacity Barrels per 24 hours	Number	Total capacity Barrels per 24 hours
1936 .....	19	33,000	(x)	(x)
1937 .....	18	33,900	(x)	(x)
1938 .....	21	35,200	10	23,100
1939 .....	21	35,000	11	23,700
1940 .....	21	35,000	13	27,950
1941 .....	20	33,050	16	30,350
1942 .....	19	34,650	17	32,450
1943 .....	19	33,750	15	30,296
1944 .....	19	33,250	15	30,150
1945 .....	19	33,250	15	30,150

(x) Data not recorded.

## DIRECTORY OF PORTLAND CEMENT PRODUCERS IN CANADA, 1945

Name of Firm	Head Office Address	Location of Plant
<u>Quebec</u> - Canada Cement Company Ltd.	Box 290, Station B, Montreal	Hull Montreal East
<u>Ontario</u> - Canada Cement Company Ltd.	Box 290, Station B, Montreal, Que.	Belleville Port Colborne
St. Mary's Cement Company Ltd.	357 Bay St., Toronto	St. Mary's
<u>Manitoba</u> - Canada Cement Company Ltd.	Box 290, Station B, Montreal, Que.	Fort Whyte
<u>Alberta</u> - Canada Cement Company Ltd.	Box 290, Station B, Montreal, Que.	Exshaw
<u>British Columbia</u> - British Columbia Cement Co. Ltd.	500 Fort St., Victoria, B.C.	Bamberton





STATISTICS CANADA LIBRARY  
BIBLIOTHEQUE STATISTIQUE CANADA



1010669981