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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

MINING, METALLURGICAL AND CHEMICAL BRANCH

OTTAWA - CANADA

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I. THE CEMENT MANUFACTURING INDUSTRY, 1938.

Sales of cement as reported by the Canadian Cement industry totalled 5,519,102 barrels valued at \$8,241,350 in 1938 compared with 6,168,971 barrels worth \$9,095,867 in 1937 and the all time high shipment of 12,284,081 barrels at \$19,337,235 in 1929. Of the 1938 sales 2,730,320 barrels were produced in Quebec plants, 1,818,032 barrels in Ontario and the balance in Manitoba, Alberta and British Columbia. The high and low prices per barrel in 1938 were \$2.35 and \$1.25 respectfully as against \$2.68 and \$1.25 in the preceding year.

The number of firms reporting commercial production of cement in Canada during 1938 was three and the plants in operation totalled eight. Capital employed aggregated \$52,299,046 and the industry distributed \$1,306,331 in salaries and wages to 1,034 employees. The total value of fuel and electricity purchased during the year under review amounted to \$1,764,427 of which \$1,155,999 were expended for coal and \$583,858 for electricity. Process supplies consumed, including explosives etc. were valued at \$529,157 and the following tonnages of primary materials of mineral origin were used in the manufacture of the final product; limestone 1,344,868, clay 143,421, gypsum 51,975, shale 13,821, sand 9,465 and iron pyrites 22. Imports of cement into the Dominion in 1938 numbered 48,497 barrels worth \$105,326 compared with 61,082 barrels at \$134,113 in 1937. Exports in 1938 totalled 89,419 barrels worth \$101,059 as against 72,568 barrels worth \$82,978 in 1937.

A decline in the value of construction contracts awarded in Canada from a total of \$224,056,700 in 1937 to \$187,277,900 in 1938 was reflected in the 10.5 per cent decrease in quantity of cement sold by the Canadian Cement Industries during 1938. Wholesale prices were generally lower in Canada than in the preceding year with the index number for building and construction materials declining from 94.4 to 89.1 in 1938 (1926=100); lumber 98.1 to 89.8; miscellaneous materials 95.9 to 93.3; cement 106.2 to 102.4 and the general wholesale price index from 84.6 to 78.6.

In 1938 the wet process was employed in all Canadian cement plants with the exception of one plant in Alberta where the dry method was continued. In the United States large modernization programmes have been reported. A device known as the "electric ear" for controlling the feed of grinding mills has been installed in several plants and the use of roll scale, pyrite cinder or impure iron ore is increasing at Valley Forge Pa., froth flotation has been used successfully for the purification of cement raw materials; a similar treatment is employed in the Union of South Africa and at Parma, Argentina.

According to "Mineral Trade Notes" U.S. Department of Interior, high quality cement is to be manufactured at a new plant in Wurttemberg, Southern Germany, which will utilize oil-shale coke. The new plant will produce oil-shale coke and then process the material with limestone into a special high grade cement with unusual qualities of bending strength and impact resistance.

Table 1 - PRINCIPAL STATISTICS OF THE CEMENT MANUFACTURING INDUSTRY IN CANADA,
1936 - 1938.

	1936	1937	1938
Number of firms	4	4	3
Number of plants	9	9	8
Capital employed	\$ 53,343,991	\$ 54,150,672	\$ 52,299,046
Number of employees - On salary	84	100	100
On wages	968	983	934
Total	<u>1,052</u>	<u>1,083</u>	<u>1,034</u>
Salaries and wages - Salaries	\$ 173,001	\$ 211,778	\$ 218,445
Wages	\$ 1,023,663	\$ 1,161,666	\$ 1,087,886
Total	<u>\$ 1,196,664</u>	<u>\$ 1,373,444</u>	<u>\$ 1,306,331</u>
Selling value of products (Gross)....	\$ 6,908,192	\$ 9,095,867	\$ 8,241,350
Cost of fuel and electricity(b) ...	\$ 1,576,142	\$ 1,904,418	\$ 1,764,427
Cost of process supplies(c)	\$ 592,929	\$ 540,915	\$ 529,157
Net value of products sold	\$ 4,739,121	\$ 6,650,534	\$ 5,947,766

(a) Information not available.

(c) Other than item (b).

Table 2 - WAGE-EARNERS IN 15th OF EACH MONTH, OR NEAREST REPRESENTATIVE DATE, 1936,
1937 and 1938.

Month	1936	1937	1938	
			Quarry	Mill
January	765	757	84	759
February	748	784	95	765
March	815	847	118	770
April	1,027	991	111	846
May	1,124	985	130	930
June	1,061	1,090	127	891
July	1,084	1,095	121	818
August	1,038	1,090	126	830
September	1,049	1,086	137	896
October	1,048	1,082	138	897
November	983	1,064	116	800
December	860	947	74	637

Table 3 - NUMBER OF WAGE-EARNERS WHO WORKED THE NUMBER OF HOURS SPECIFIED, DURING
ONE WEEK IN MONTH OF NORMAL EMPLOYMENT

Hours	1938		No.
	1938	No.	
30 hours or less	12	51 - 54 hours	11
31 - 43 hours	132	55 hours	-
44 hours	146	56 - 64 hours	176
45 - 47 hours	6	65 hours and over	41
48 hours	570	GRAND TOTAL	1,094
49 - 50 hours	-	Total wages paid in that Week	\$26,026

Table 4 - TOTAL FUEL AND ELECTRICITY USED IN THE CEMENT MANUFACTURING INDUSTRY, 1937
and 1938.

Unit of measure	1937		1938	
	Quantity	Value	Quantity	Value
Bituminous coal - Canadian ... short ton	145,701	\$ 760,766	127,812	\$ 656,187
Imported ... short ton	90,925	513,417	89,172	499,812
Gasoline	Imp. gal.	108,493	20,713	109,616
Kerosene	Imp. gal.	2,418	462	3,135
Fuel oil and diesel oil	Imp. gal.	15,982	1,863	18,521
Wood (cords of 128 cu. ft.)... cord		61	228	50
Electricity purchased, including				
service charges	K. W. H.	61,045,600	606,969	40,535,200
TOTAL	\$	--	1,904,418	1,764,427
Process supplies used, explosives, etc.	\$	--	540,915	529,157

Table 5 - COAL USED IN CANADIAN CEMENT PLANTS, 1931 - 1938.

Year	CANADIAN		FOREIGN	
	Tons	\$	Tons	\$
1931	288,851	1,569,214	195,163	962,076
1932	120,296	652,734	90,718	440,546
1933	48,905	236,947	46,955	229,399
1934	69,853	367,880	60,877	330,432
1935	78,477	433,347	53,338	291,741
1936	119,903	655,631	66,460	367,740
1937	145,791	760,766	90,925	513,417
1938	127,812	656,187	89,172	499,812

Table 6 - KILNS USED BY CANADIAN CEMENT INDUSTRY, 1932 - 1938.

Year	Total Daily Capacity	
	Number	Barrels
1932	47	43,822
1933	41	43,622
1934	41	43,922
1935	20	32,650
1936	19	33,000
1937	18	33,900
1938	21 +	35,200

+ 10 in use with a daily capacity of 23,100 barrels.

Table 7 - QUANTITY AND VALUE OF ELECTRICITY PURCHASED BY CANADIAN CEMENT COMPANIES,
1931 - 1938

Year	Kilowatt hours	\$(x)	Year	Kilowatt hours	\$(x)
1931	152,884,534	741,790	1935	51,958,859	494,538
1932	85,630,342	590,891	1936	62,038,700	553,212
1933	48,160,143	508,841	1937	61,045,600	606,969
1934	48,457,250	496,138	1938	40,535,200	583,858

(x) Includes service charges.

Table 8 - POWER EQUIPMENT IN CANADIAN CEMENT PLANTS, 1938.

Description	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total horse power (x)	Number of units	Total horse power (x)
Steam engines and steam turbines ...	2	57	2	50
Diesel engines	2	535	-	-
Gasoline, gas and oil engines, other than diesel engines	31	1,359	4	267
Hydraulic turbines or water wheels .	-	-	-	-
Electric motors -				
(a) Operated by purchased power ...	1,312	74,893	168	7,094
Total	1,347	76,844	174	7,411
(b) Operated by power generated by the establishment	10	756	-	-
Boilers	11	392	4	164

(x) According to manufacturers' rating.

Table 9 - SUMMARY STATISTICS OF CEMENT PRODUCTION, SALES, ETC., IN CANADA, 1937 AND 1938.

	1 9 3 7	Value \$	1 9 3 8	Value \$
	Barrels(x)		Barrels(x)	
Output	6,142,934	-	5,588,047	-
Sold or used	6,168,971	9,095,867	5,519,102	8,241,350
Stocks on hand December 31st	1,806,343	-	1,875,288	-

IMPORTS -	1 9 3 7	1 9 3 8
Portland cement and hydraulic or water lime	61,082	134,113
Manufactures	-	45,744
TOTAL IMPORTS	-	179,857

EXPORTS -

Portland cement	72,568	82,978	89,419	101,059
APPARENT CONSUMPTION	6,157,485	-	5,478,180	-

(x) 1 barrel = 350 pounds.

Table 10 - PRODUCTION AND APPARENT CONSUMPTION OF CEMENT IN CANADA, 1926 - 1938.

Year	SOLD OR USED		APPARENT CONSUMPTION
	Barrels	\$	Barrels
1926	8,707,021	13,013,283	8,442,203
1927	10,065,865	14,391,947	9,835,525
1928	11,023,928	16,739,163	10,790,650
1929	12,284,081	19,337,235	12,105,950
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

Table 11 - PRODUCERS' SALES OF CEMENT IN CANADA, BY PROVINCES, 1936 - 1938.

Province	1936		1937		1938	
	Barrels	Value	Barrels	Value	Barrels	Value
Quebec	2,093,130	2,945,074	2,578,623	3,537,798	2,730,320	3,693,188
Ontario	1,542,463	2,180,895	2,650,652	3,657,067	1,818,032	2,555,214
Manitoba	348,042	783,095	518	745,736	330,889	754,427
Alberta	243,534	482,197	267,106	531,541	304,373	611,790
British Columbia	281,549	516,931	344,072	623,725	325,488	626,731
CANADA	4,508,718	6,908,192	6,168,971	9,095,867	5,519,102	8,241,350

Table 12.- SELLING PRICE PER BARREL OF CANADIAN CEMENT, F. O. B. WORKS, 1931 - 1938.

Year	High	Low	Year	High	Low
	\$	\$		\$	\$
1931	2.60	1.28	1935	2.79	1.25
1932	2.55	1.25	1936	2.68	1.25
1933	2.55	1.25	1937	2.68	1.25
1934	2.36	1.25	1938	2.35	1.25

Table 13 - SPECIFIED MATERIALS USED IN CANADIAN CEMENT PLANTS, 1931 - 1938.

Year	Shale	Limestone	Gypsum	Sand	Clay	Pyrites
	Tons	Tons	Tons	Tons	Tons	Tons
1931	(a)	2,489,147	56,677	(a)	(a)	(a)
1932	(a)	1,141,376	27,538	(a)	(a)	(a)
1933	(a)	616,364	13,319	(a)	(a)	(a)
1934	(a)	806,546	19,172	(a)	(a)	(a)
1935	(a)	818,443	21,611	5,047	(a)	(a)
1936	(a)	1,180,358	25,447	8,549	94,943	(a)
1937	(a)	1,465,168	33,691	9,281	195,877	444
1938	13,821	1,344,868	51,975	9,465	143,421	22

(a) Data not recorded.

Table 14 - VALUE OF CONSTRUCTION CONTRACTS AWARDED, BY PROVINCES, 1934 - 1938
(MacLean Building Reports Ltd.)

Province	1934	1935	1936	1937	1938
	\$	\$	\$	\$	\$
Maritimes	9,968,600	14,373,500	17,908,800	21,557,200	19,522,800
Quebec	34,135,500	44,471,900	45,749,500	71,940,800	65,778,900
Ontario	63,358,300	70,872,800	72,393,300	97,777,400	73,070,100
Manitoba	3,905,000	8,744,400	6,994,400	7,945,100	6,115,200
Saskatchewan	1,563,200	3,841,300	2,200,600	6,704,900	3,969,000
Alberta	3,489,400	5,893,000	6,297,400	4,301,000	8,180,000
British Columbia..	9,391,500	12,108,100	11,044,000	13,250,300	10,641,900
CANADA	125,811,500	160,305,000	162,588,000	224,056,700	187,277,900

Table 15 - DESCRIPTION and TOTAL VALUE OF WORK PERFORMED IN CANADA BY GENERAL AND TRADE CONTRACTORS (including Subcontractors), MUNICIPALITIES, HARBOUR COMMISSIONS, PROVINCIAL AND DOMINION GOVERNMENT DEPARTMENT in 1937 and 1938.

	1 9 3 7	1 9 3 8
<u>Building Construction -</u>	\$	\$
Dwelling, single	29,231,314	50,709,570
Dwelling, semi-detached or double	2,728,090	3,324,336
Duplexes	2,890,972	4,445,338
Apartment houses	5,825,241	7,944,612
Hotels, clubs, restaurants, etc.	3,174,010	2,556,126
Churches and church halls	2,538,511	3,062,767
Hospitals and sanatoria	3,791,606	7,334,820
Schools, institutions, etc.	7,260,284	11,831,167
Office buildings	8,362,412	8,013,402
Stores	7,915,622	9,755,082
Theatres and amusement halls	1,665,743	2,541,028
Factories, warehouses and storehouses	35,982,590	24,275,807
Grain elevators	3,281,431	3,445,073
Garages	2,246,870	1,770,986
Service stations	2,122,145	3,337,899
Mine buildings	4,799,235	4,615,059
Farm buildings	1,344,309	1,426,214
Radio stations	-	263,697
Armouries	-	427,223
Aeroplane hangars	-	513,426
Buildings, unable to specify	5,378,613	3,318,543
<u>Engineering Construction -</u>		
Hard surfaced or paved streets, highways, etc.	38,625,244	32,129,962
Gravel or stone surfaced streets, highways, etc.	29,914,507	33,342,919
Dirt or clay roads	7,620,496	6,564,092
Grading, scraping, oiling, filling, etc.	12,522,674	12,554,539
Sidewalks	1,255,254	2,573,840
Roadside maintenance and area improvement	2,127,635	1,814,980
Bridges, viaducts, all types	12,351,378	9,919,754
Subways, overhead crossings, etc.	729,891	717,952
Culverts	2,352,746	2,239,018
Watermains and connections	4,870,399	6,400,418
Sewers and connections	2,572,198	3,135,094
Storm sewers	1,062,043	1,905,142
Tile drains, drainage ditches and open sewers	529,453	548,787
Dams and reservoirs	1,904,123	2,404,864
Fencing (excluding temporary snow fencing)	890,980	887,226
Guard rails	274,645	211,004
Signs	242,135	396,499
Zone painting	124,682	143,017
Electric stations, power plants, etc.	14,988,028	20,641,445
Transmission lines and towers	9,593,047	7,318,056
Installation of boilers and machinery	-	229,013
Railway (steam) construction work	2,631,983	265,680
Railway (electric) construction work	247,476	-
Aerodromes or landing fields	1,172,125	3,521,118

Table 15 -- DESCRIPTION and TOTAL VALUE OF WORK PERFORMED IN CANADA BY GENERAL AND TRADE CONTRACTORS (including Subcontractors), MUNICIPALITIES, HARBOUR COMMISSIONS, PROVINCIAL AND DOMINION GOVERNMENT DEPARTMENT in 1937 and 1938. -(Concluded)

	1 9 3 7	1 9 3 8
Engineering Construction-(Concluded)	\$	\$
Park systems	1,895,226	1,838,475
Grounds and walks	312,204	348,226
Underground conduits	261,705	-
Engineering, unable to specify	7,588,801	4,360,444
Harbours, Rivers, etc.		
Docks, wharves, piers and breakwaters	8,001,048	6,548,349
Retaining walls, embankments and riprapping	1,361,085	1,785,239
Canals and waterways	369,541	460,626
Dredging	4,654,314	6,261,867
Pile driving	258,390	137,745
Works, unable to specify	13,894	23,141
Trade Construction		
Air conditioning	613,650	783,773
Brick laying	905,156	883,143
Carpentry work	1,206,546	1,862,973
Commercial refrigeration	903,428	565,040
Concreting and cement work	967,629	1,005,764
Electrical work	5,224,308	5,359,723
Elevators service	1,982,697	1,970,545
Excavating	1,187,579	646,958
Flooring	404,601	470,465
Glass and glazing	579,095	753,589
Lathing, plastering and stucco	1,265,421	1,205,389
Masonry and stone work	306,598	279,974
Ornamental iron work	298,097	431,804
Painting and decorating	4,964,660	5,019,961
Plumbing, heating and sanitary engineering	16,363,778	15,835,689
Roofing, sheet metal	1,076,686	1,027,800
Roofing, all other	1,961,479	2,034,562
Sheet metal work, other than roofing	3,041,028	2,889,782
Sprinkler installation	577,956	342,924
Structural steel work	1,652,550	850,385
Tiling, marble and terrazzo	743,028	609,072
Weatherstripping and insulation	683,381	621,593
Wrecking and demolition	226,287	231,176
Trades unable to specify	880,328	1,000,495

The total quantity of cement made in 1914 was 8,727,269 barrels of which 641,869 barrels were made from marl and 8,085,400 barrels from limestone and slag. The drop in consumption in the use of marl for the manufacture of cement is indicated by the fact that in 1908 forty-five per cent of the total production was made from marl and in 1914 this had decreased to seven decimal three per cent. In 1914 twenty-four plants were in operation but of these three were in commission for a few days only and of the others seven were in operation less than five months.

Five plants were in operation throughout the year. The total daily capacity of 29 completed plants was 51,415 barrels in 1914. These were distributed as follows: One in Nova Scotia using blast furnace slag three in Quebec using limestone and clay; sixteen in Ontario, of which ten used marl and six limestone; two rock plants in Manitoba, one of which made a "Natural Portland", four in Alberta including one marl plant and three limestone plants; and three rock plants in British Columbia. The average price per barrel for all plants was \$1.28 in 1914. In 1917 cement was produced in nine plants; seventeen other plants were idle. Of the total production 96,755 barrels were made from marl and 4,890,500 barrels from limestone; the average price per barrel was \$1.62. In 1918 sales from Canadian cement mills was 3,591,481 barrels, at an average price of \$1.97 per barrel, a decline in sales from the previous year of 24.68 per cent.

Table 16 - PRODUCTION OF CEMENT IN CANADA 1912 - 1921.

Year	Barrels	Value	Year	Barrels	Value
		\$			\$
1912	7,132,732	9,106,556	1917	4,768,488	7,724,246
1913	8,658,805	11,019,418	1918	5,591,481	7,076,503
1914	7,172,480	9,187,924	1919	4,895,257	9,802,433
1915	5,681,032	6,977,024	1920	6,651,980	14,798,070
1916	5,369,560	6,547,728	1921	5,752,885	14,195,143

Table 17 - INDEX NUMBERS OF CANADIAN WHOLESALE PRICES OF SPECIFIED BUILDING AND CONSTRUCTION MATERIALS AND OF GENERAL WHOLESALE PRICES, 1926 = 100.

Year	Building and Con- struction Materials	Lumber Index	Miscellan- eous Materials Index (x)	Paint Materials Index	Cement Index	General Wholesale Price Index
1913	67.0	67.4	67.1	57.5	90.9	64.0
1926	100.0	100.0	100.0	100.0	100.0	100.0
1927	96.1	97.5	95.7	92.2	94.0	97.7
1928	97.4	102.3	95.4	86.2	97.0	96.4
1929	99.0	103.5	96.3	92.0	100.2	95.6
1930	90.8	90.1	92.5	86.9	100.8	86.6
1931	81.9	77.4	89.4	69.1	102.3	72.1
1932	77.2	68.8	88.7	63.5	105.3	66.7
1933	78.3	70.8	88.4	66.2	105.5	67.1
1934	82.5	78.8	88.2	75.0	105.2	71.6
1935	81.2	77.8	87.0	71.1	105.2	72.1
1936	85.3	86.3	88.6	68.2	105.8	74.6
1937	94.4	98.1	95.9	74.6	106.2	84.6
1938	89.1	89.8	93.3	69.6	102.4	78.6

(x) Determined partly from cement prices.

This statement supplied by the Internal Trade Branch, Dominion Bureau of Statistics.

Table 18 - WORLD'S PRODUCTION OF CEMENT, 1929, 1937 and 1938, (Taken from the Statistical Year-Book of the League of Nations)

NOTE - This table covers, as far as possible, both natural and artificial (Portland, etc.) cements. Cement is made by burning a mixture of calcareous and argillaceous materials and grinding the resulting clinker. For natural cement, the mixture used is found as such in nature; for artificial cements, the constituents are mixed in the desired proportions.

(Metric tons - 000's omitted)

Country	1929	1937	1938
Africa	760	1,488	1,620
Algeria	58	65	-
Belgian Congo	60	26	-
Egypt	180	320	376
Morocco (French)	65	156	165
Mozambique	21	15	25
Tunis	-	56	69
Union of South Africa	376(a)	840	878
North America	34,426	21,113	19,182
Canada	1,945	975	882
United States	29,481	20,138	18,300
Mexico	225	345	373
South America	800x	2,273	-
Argentina	350	1,035	-
Brazil	96	571	-
Chile	145	313	364
Colombia	-	123	-
Peru	49	83	102
Uruguay	-	148	-
Asia(x)	5,570	8,450(x)	8,000
China	185	250	-
India	570	1,142	-
Netherlands Indies	149	-	-
French Indo-China	184	235	266
Japan and Col.	4,274	6,034	5,469
Palestine	69	161	98
Philippines	76	150	-
Siam	62	77	82
Syria and Lebanon	-	250	251
U.S.S.R.	2,367	5,837	-
Europe (x) (2)	32,360	39,500(x)	44,000
Germany & Saar	7,206	12,605	15,600
Austria	582	429	-
Belgium (4)	3,248	-	-
Bulgaria	151	154	194
Denmark	799	676	640
Spain+	1,820	-	-
Estonia	62	69	79
Finland	278	433	-

Table 18 - WORLD'S PRODUCTION OF CEMENT, 1929, 1937 and 1938. (Continued)
(Metric tons - 000's omitted)

Country	1929	1937	1938(x)
France	5,787	4,285	-
Greece	155	290	308
Hungary	403	592	-
Italy	3,497	4,258	4,587
Latvia	40	118	155
Norway	319	321	320(x)
Netherlands	210	441	456
Poland	1,008	1,284	1,719
Portugal	88	254	268
Roumania	317	464	-
United Kingdom	4,766	7,300	7,900
Sweden	570	876	-
Czechoslovakia (x)	1,250	-	-
Turkey	65	215	-
Yugoslavia	874	619	712
Oceania (x) (2)	800	908	-
Australia (a)	720	732	863
New Zealand	-	176	-
(x)TOTAL	74,310	79,900	82,500

FOOTNOTES:

(x) Estimate. (a) Twelve months ending 30. VI.

+ Country not included in the totals.

(1) China: total shipments from "Customs ports", excluding Manchuria.

(2) Europe, Oceania; total includes estimate for other countries not mentioned.

Table 19 - IMPORTS INTO CANADA AND EXPORTS OF CEMENT, BY PRINCIPAL COUNTRIES, 1937
and 1938.

	1937		1938	
	Quantity Cwt.	Value \$	Quantity Cwt.	Value \$
<u>IMPORTS</u>				
Cement, Portland, and hydraulic or water lime -				
From - United Kingdom	72,368	46,726	20,362	31,263
United States	37,154	51,660	28,080	34,563
Belgium	102,056	34,659	121,204	39,441
Other countries	2,209	1,068	95	59
TOTAL	213,787	134,113	169,741	105,326
Cement manufactures, n.o.p.	-	45,744	-	6,650
TOTAL IMPORTS	-	179,857	-	111,976

Table 19 - IMPORTS INTO CANADA AND EXPORTS OF CEMENT, BY PRINCIPAL COUNTRIES, 1937
and 1938. - Concluded.

	1937		1938	
	Quantity Cwt.	Value \$	Quantity Cwt.	Value \$
EXPORTS				
Cement, Portland -				
To - United Kingdom	-	-	-	-
United States	6,903	5,981	12,299	10,401
Trinidad and Tobago	72,619	23,064	107,628	34,372
British Guiana	25,689	9,464	18,190	6,000
Other British West Indies..	53,715	18,011	63,757	18,485
Newfoundland	27,380	8,942	30,201	9,845
Colombia	25,750	6,243	52,250	13,506
Peru	28,403	6,216	9,475	2,521
Other countries	15,530	5,057	19,167	5,929
TOTAL	253,989	82,978	312,967	101,059

Table 20 - THE FOLLOWING TABLE GIVES THE GEOGRAPHICAL DISTRIBUTION OF GERMAN CEMENT EXPORTS, IN METRIC TONS, IN THE LAST 3 YEARS:
(U. S. Mineral Trade Notes).

Destination	1936	1937	1938
Europe	205,037	306,193	301,303
Africa	66,172	143,719	52,787
Asia	48,604	34,435	24,075
United States	47,150	4,993	13,112
Latin America	250,398	333,415	225,085
Other America	12,367	33,704	17,137
All others.....	4,437	1,706	7,430
TOTAL	634,165	858,165	640,929

DIRECTORY OF CANADIAN PORTLAND CEMENT MANUFACTURING COMPANIES, 1938.

Name of Company	Head Office Address	Location of Plant
<u>QUEBEC -</u>		
Canada Cement Co. Ltd.,,	Box 290, Station B, Montreal	Hull and Montreal East.
<u>ONTARIO -</u>		
Canada Cement Company, Ltd.	Box 290, Station B, Montreal, P.Q.	Belleville, Lake- field(x), and Port Colborne
St. Marys Cement Co. Ltd.	357 Bay St., Toronto	St. Marys

DIRECTORY OF CANADIAN PORTLAND CEMENT MANUFACTURING COMPANIES, 1938. - Concluded.

<u>Name of Company</u>	<u>Head Office Address</u>	<u>Location of Plant</u>
<u>MANITOBA -</u>		
Canada Cement Company, Ltd.	Box 290, Station B, Montreal P. Q.	Fort Whyte and Steep Rock
<u>ALBERTA -</u>		
Canada Cement Company, Ltd.	Box 290, Station B, Montreal, P.Q.	Exshaw
<u>BRITISH COLUMBIA -</u>		
British Columbia Cement Co. Ltd.	805 Government St., Victoria	Bamberton and Tod Inlet

(x) Idle in 1938.

2. THE CEMENT PRODUCTS INDUSTRY, 1938.

Production of manufactured cement products in Canada during 1938 was valued at \$3,200,419, compared with \$3,299,331 during 1937.

A total of 117 plants operated in this industry during 1938 - there being 69 in Ontario, 29 in Quebec, 11 in British Columbia, 3 in Alberta, 1 in Nova Scotia, and 2 each in New Brunswick, Manitoba and Saskatchewan. Many of these works were quite small, there being 49 with outputs of less than \$5,000 each while 54 were in the \$5,000 to \$50,000 group and only 16 were above \$50,000. The Ontario plants accounted for 51 per cent of the total production; establishments in Quebec contributed 31 per cent, and works in British Columbia accounted for more than 14 per cent, the remaining 4 per cent being distributed among New Brunswick, Nova Scotia, Manitoba, Saskatchewan and Alberta.

Products included ready-mixed concrete worth \$1,162,028, cement pipe of all kinds at \$464,916, hollow building blocks of cement at \$431,547, cinder blocks at \$238,092, artificial stone at \$155,660, cement bricks at \$86,383, and other items such as haydite blocks and slabs, laundry tubs, burial vaults, etc.

Data presented for this industry cover manufacturing only and do not include figures for the cement work done on the building of bridges, dams, foundations, etc.; this type of work has been covered in the annual survey of construction.

Table 21 - PRINCIPAL STATISTICS OF THE CEMENT PRODUCTS INDUSTRY, 1925 - 1938.

Year	No. of operating plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works	
1925	197	2,594,736	819	697,716	40,442	730,296	2,020,239	
1926	185	2,857,752	922	778,662	70,815	880,041	2,544,242	
1927	151	2,671,273	872	936,053	56,576	912,686	2,663,065	
1928	151	4,140,543	1,262	1,466,508	73,825	1,261,653	4,136,955	
1929	153	5,024,497	1,347	1,608,238	84,130	1,502,952	4,419,417	
1930	146	5,157,051	1,252	1,414,043	86,188	1,261,910	3,718,704	
1931	157	5,081,227	1,166	1,296,250	83,032	1,245,483	3,807,188	
1932	118	4,461,574	710	684,371	57,072	697,483	1,771,297	
1933	83	3,545,805	460	392,941	42,482	625,525	1,596,998	
1934	88	3,285,150	489	405,028	42,107	444,274	1,042,258	
1935	94	3,024,286	519	451,625	37,176	459,296	1,154,138	
1936	97	3,053,745	602	569,209	50,036	763,021	1,713,347	
1937	109	3,695,565	840	804,024	57,511	1,566,870	3,299,331	
1938	119	3,476,390	834	796,902	97,023	1,452,169	3,200,419	
% change 1938 from 1937			-5.9	-0.7	-0.9	+68.7	-7.3	-2.9

NOTE - Profits or losses cannot be calculated from above figures as data are not available for general expense items such as interest, rent, depreciation, taxes, insurance, etc.

Table 22 - PRINCIPAL STATISTICS OF THE CEMENT PRODUCTS INDUSTRY, BY PROVINCES,
1937 and 1938.

Province	No. of operating plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
<u>1937</u>							
New Brunswick ..	3	19,739	4	1,620	155	1,984	8,493
Quebec	25	1,231,444	241	214,559	17,417	519,966	967,724
Ontario	66	2,136,477	529	523,100	37,069	891,536	2,018,530
British Columbia ..	8	167,384	34	38,805	2,135	132,842	246,295
Nova Scotia	1)						
Manitoba	2)	140,521	32	25,940	735	20,542	58,289
Saskatchewan ...	2)						
Alberta	2)						
CANADA	109	3,695,565	840	804,024	57,511	1,566,870	3,299,331
<u>1938</u>							
Nova Scotia	1)						
New Brunswick ..	2)	17,814	8	4,402	203	4,492	12,665
Quebec	29	1,102,605	248	212,812	46,328	472,987	995,887
Ontario	69	2,031,993	487	482,159	44,712	683,145	1,649,280
British Columbia ..	11	212,498	52	64,646	3,521	261,288	449,898
Manitoba	2)	95,872	25	22,436	1,970	20,226	64,578
Saskatchewan ...	2)						
Alberta	3	15,608	14	10,447	289	10,031	28,071
CANADA	119	3,476,390	834	796,902	97,023	1,452,169	3,200,419

Table 23 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES, and CAPITAL EMPLOYED, 1938.

	Number of plants	Capital employed	Average number of employees	Gross selling value of products at works
		\$		\$
(a) PRODUCTION				
Under \$5,000	49	262,144	104	120,916
\$5,000 to \$10,000	24	480,503	87	173,960
\$10,000 to \$25,000	15	299,254	96	227,866
\$25,001 to \$50,000	15	651,842	138	509,843
Over \$50,000	16	1,782,647	409	2,167,834
TOTAL	119	3,476,390	834	3,200,419
(b) EMPLOYEES				
1 or 2	45	325,193	63	148,131
3 to 10	53	1,117,897	283	1,014,550
11 to 20	13	680,310	182	643,323
Over 20	8	1,352,990	306	1,394,415
TOTAL	119	3,476,390	834	3,200,419
(c) CAPITAL				
Under \$25,000	85	574,998	279	847,953
\$25,000 to \$100,000	24	1,231,263	232	857,707
Over \$100,000	10	1,670,129	323	1,494,759
TOTAL	119	3,476,390	834	3,200,419

Table 24 - CAPITAL EMPLOYED IN THE CEMENT PRODUCTS INDUSTRY, BY PROVINCES, 1937 and 1938.

Province	Present value of lands, buildings fixtures, machinery and tools	Inventory value of materials on hand, finished products and stocks in process	Cash, bills and accounts receivable, prepaid expenses, etc.	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$
<u>1937</u>				
New Brunswick	14,198	2,861	2,680	19,739
Quebec	937,046	128,284	166,114	1,231,444
Ontario	1,350,515	329,536	456,426	2,136,477
British Columbia..	136,653	10,287	20,444	167,384
Other provinces ..	106,725	14,601	19,195	140,521
CANADA	2,545,137	485,569	664,859	3,695,565

1938

Nova Scotia and				
New Brunswick....	12,299	5,015	500	17,814
Quebec	758,585	164,491	179,529	1,102,605
Ontario	1,187,053	307,907	537,033	2,031,993
British Columbia .	182,686	12,918	16,894	212,498
Other provinces ..	93,089	7,935	10,456	111,480
CANADA	2,253,712	498,266	744,412	3,476,390

Table 25 - EMPLOYEES, SALARIES AND WAGES IN THE CEMENT PRODUCTS INDUSTRY, BY PROVINCES,
1937 and 1938.

Province	Average number of employees						Salaries \$	Wages \$	Total SALARIES and WAGES \$
	On Salaries		On Wages		Male	Female			
	Male	Female	Male	Female		TOTAL			
1937									
New Brunswick	-	-	5	-	4	-		1,620	1,620
Quebec	43	2	196	-	241	49,771		164,788	214,559
Ontario	89	12	423	5	529	135,658		387,442	523,100
British Columbia...	11	1	21	1	34	19,112		19,693	38,805
Other provinces ...	9	2	21	-	32	11,406		14,534	25,940
CANADA	152	17	665	6	840	215,947		588,077	804,024
1938									
Nova Scotia and									
New Brunswick	1	-	7	-	8	800		3,602	4,402
Quebec	46	2	200	-	248	50,710		162,102	212,812
Ontario	101	13	367	6	487	166,678		315,481	482,159
British Columbia ..	14	2	35	1	52	28,393		36,253	64,646
Other provinces ...	11	2	26	-	39	15,745		17,138	32,883
CANADA	173	19	635	7	834	262,326		534,576	796,902

Table 26 - WAGE-EARNERS IN THE CEMENT PRODUCTS INDUSTRY, BY MONTHS, 1937 and 1938.
(On the 15th or nearest work day).

Month	1 9 3 7			1 9 3 8		
	Male	Female	Total	Male	Female	Total
January	414	6	420	461	6	467
February	430	6	436	471	6	477
March	489	6	495	542	6	548
April	617	6	623	593	6	599
May	738	6	744	677	6	683
June	839	6	845	724	6	730
July	792	6	798	765	6	771
August	805	6	811	727	7	734
September	768	6	774	729	7	736
October	804	6	810	715	7	722
November	641	5	646	647	7	654
December	611	5	616	520	7	527
AVERAGE	665	6	671	635	7	642

Table 27 - REGULAR HOURS WORKED PER WEEK BY WAGE-EARNERS, 1938 (Overtime not included)

Regular hours worked per week	Per cent of wage-earners	Regular hours worked per week		Per cent of wage-earners
		1 9 3 8	1 9 3 8	
30 hours or less	4.9		51 - 54 hours	22.8
31 - 43 hours	12.5		55 hours	2.2
44 hours	10.7		56 - 64 hours	20.4
45 - 47 hours	0.7		65 hours or over ...	1.6
48 hours	15.6			
49 - 50 hours	8.6			

Table 28 - FUEL and ELECTRICITY USED IN THE CEMENT PRODUCTS INDUSTRY, 1937 and 1938.

Kind	Unit of measure	1 9 3 7		1 9 3 8	
		Quantity	Cost at works	Quantity	Cost at works
Bituminous coal - Canadian	short ton	1,666	\$ 10,890	2,881	\$ 19,301
Imported	short ton	1,992	13,370	1,756	11,650
Anthracite coal	short ton	122	1,493	103	1,208
Lignite coal	short ton	20	100	4	23
Coke	short ton	86	713	112	1,007
Gasoline	Imp. gal.	6,047	1,635	131,791	27,032
Kerosene or coal oil	Imp. gal.	364	82	223	52
Fuel oil	Imp. gal.	240	23	34,482	1,859
Wood	cord	74	348	152	728
Gas - Manufactured	M cu. ft.	658	560	685	583
Natural	M cu. ft.	45	44	123	125
Other fuel	\$	-	7,470	-	484
Electricity purchased	K. W. H.	754,189	20,783	985,240	32,971
TOTAL	\$	-	57,511	-	97,023

Table 29 - POWER EQUIPMENT IN THE CEMENT PRODUCTS INDUSTRY, 1937 and 1938.

Kind	Number of units	1 9 3 7		1 9 3 8	
		Total rated horse power	Number of units	Total rated horse power	Number of units
Steam engines and turbines	6	103	2	40	
Gasoline engines	32	190	30	233	
Total Primary Equipment	38	293	32	273	
Electric motors run by purchased power	281	2,534	333	3,241	
TOTAL	319	2,827	365	3,514	
Boilers	23	1,415	28	1,589	

Table 30 - POWER EQUIPMENT SHOWING 'ORDINARILY IN USE' separately from 'IN RESERVE OR IDLE', 1938.

Kind	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and steam turbines	1	20	1	20
Gasoline engines	27	229	3	4
Total Primary Equipment	28	249	4	24
Electric motors run by purchased power	288	2,792	45	449
TOTAL	316	3,041	49	473
Boilers	21	1,300	7	289

Table 31 - MATERIALS USED IN THE CEMENT PRODUCTS INDUSTRY, 1937 and 1938.

Material	Unit of measure	1 9 3 7		1 9 3 8	
		Quantity	Cost of works	Quantity	Cost of works
		\$	\$		\$
Portland Cement	brl.	391,233	819,917	380,286	771,893
Quicklime	ton	80	1,584	87	1,808
Sand	cu.yd.	179,622	196,822	175,525	184,026
Gravel	cu.yd.	50,191	64,677	54,876	50,742
Crushed stone	cu.yd.	101,395	170,535	122,537	140,805
Cinders	cu.yd.	27,857	21,421	34,938	27,720
Reinforcing steel	ton	-	71,756	-	57,118
Other materials	♦	-	213,448	-	202,297
Boxes, crates, lumber, etc. .	♦	-	6,710	-	15,760
TOTAL	\$	-	1,566,870	-	1,452,169

Table 32 - MATERIALS USED IN THE CEMENT PRODUCTS INDUSTRY, BY PROVINCES, 1938.

Material	Quebec	Ontario	British	Other	CANADA
			Columbia	Frovinces	
	\$	\$	\$	\$	\$
Portland Cement	236,705	349,358	168,606	17,224	771,892
Quicklime	276	514	791	227	1,808
Sand	69,977	58,368	49,860	5,821	184,026
Gravel	2,123	45,497	1,485	1,637	50,742
Crushed stone	106,621	31,799	1,781	604	140,805
Cinders	5,498	22,215	-	7	27,720
Reinforcing steel	19,009	20,633	10,248	7,228	57,118
Other materials	32,397	142,852	25,597	1,451	202,297
Boxes, crates, lumber, etc. .	381	11,909	2,920	550	15,760
TOTAL	472,987	683,145	261,288	34,749	1,452,169

Table 33 - PRODUCTS MADE IN THE CEMENT PRODUCTS INDUSTRY, 1937 and 1938.

Products	1 9 3 7		1 9 3 8	
	Quantity	Selling value at works	Quantity	Selling value at works
	\$			\$
Cement bricks	-	146,522	-	86,383
Cement hollow building blocks,etc.	-	380,008	-	431,547
Cement drain pipe, sewer pipe, water pipe and culvert tile	-	377,806	-	464,916
Artificial stone	-	188,021	-	165,660
Cement laundry tubs	-	39,180	-	76,323
Cinder blocks	M 1,949	208,149	2,404	258,092
Cement stucco	-	23,452	-	14,818
Ready mixed concrete	-	-	-	1,162,028
All other products	-	1,936,193	-	570,652
TOTAL	-	3,299,331	-	3,200,419

Table 34 - PRODUCTS MADE IN THE CEMENT PRODUCTS INDUSTRY, BY PROVINCES, 1938.

Products	Quebec	Ontario	British Columbia	Other Provinces	CANADA
Cement bricks	\$ 25,949	\$ 58,801	\$ 1,150	\$ 483	\$ 86,383
Cement hollow building blocks, etc.	100,790	322,344	2,564	5,849	431,547
Cement drain pipe, sewer pipe, water pipe and culvert tile	194,313	135,222	73,451	61,930	464,916
Artificial stone	58,267	90,637	4,197	2,559	155,660
Cement laundry tubs	174	63,404	12,745	-	76,323
Cinder blocks	19,163	218,929	-	-	238,092
Cement stucco	-	-	7,700	7,118	14,818
Ready mixed concrete	528,256	320,087	312,863	1,054	1,162,028
All other products	68,975	439,856	35,228	26,361	570,652
TOTAL	995,887	1,649,280	449,898	105,354	3,200,419

Table 35 - OUTPUT OF PRINCIPAL CEMENT PRODUCTS, 1920 - 1938.

Year	Cement hollow building blocks	Cement sewer pipe, water pipe, drain pipe and culvert tile	Cement bricks	Artificial stone	Cinder blocks
	\$	\$	\$	\$	\$
1920	852,304	457,312	-	69,382	
1921	511,283	465,091	11,375	71,741	Not
1922	596,063	378,818	75,742	27,725	
1923	652,420	432,602	70,502	53,326	speci
1924	523,326	473,719	53,066	77,484	
1925	859,706	596,256	40,261	256,118	fied
1926	1,066,901	647,798	53,412	479,287	
1927	941,194	766,269	94,302	473,051	69,145
1928	1,158,508	1,294,076	40,007	1,173,645	192,358
1929	902,413	1,546,376	178,257	1,154,328	306,228
1930	802,604	1,181,943	129,409	877,659	273,097
1931	709,976	1,373,136	30,763	824,056	231,782
1932	194,750	921,244	58,057	226,057	80,322
1933	179,052	1,014,443	8,685	101,548	39,617
1934	231,901	202,345	13,949	86,511	76,684
1935	277,923	305,203	17,178	148,480	102,615
1936	315,141	432,424	63,032	133,629	167,350
1937	380,008	377,806	146,522	188,021	208,149
1938	431,547	464,916	86,383	155,660	238,092

DIRECTORY OF FIRMS IN THE CEMENT PRODUCTS INDUSTRY, 1938.

Names of Firms

Location of Plants

NOVA SCOTIA

Kentville Concrete Products

Meadow Road, Kentville

NEW BRUNSWICK

Blakeny & Son, Ltd.
Pelletier, Alfred B.

806 Main St., Moncton
St. Basile

DIRECTORY OF FIRMS IN THE CEMENT PRODUCTS INDUSTRY, 1938 - Continued.

<u>Names of Firms</u>	<u>Location of Plants</u>
QUEBEC -	

Aeroconcrete Construction Co. Ltd.,
Arco Stone Company Ltd.
Asselin-Lapierre
Bilodeau, L. Alfred
Brunet, R.
Concrete Engineering Ltd.
Daigle, T.
"Doric" Stone Co.
Duntile Company Ltd.
Genest, Emile
Giguere, Limoges
Gilbert, L.
Grandmaison, F. M.
Guilbault Freres & Co.
Laflamme & Bourassa
La Cie des Produits de Ciment
La Societe de Construction Modernes
Montreal Dual Mixed Concrete Ltd.

Paquette, Emile
Pizzagalli Terrazzo Tile Mfg. Co. Ltd.
Potier & Freres
Pressure Pipe Co. of Canada, Ltd.
Produits de Ciment Economiques, Ltée.
Proulx, Romeo
Ready Mix Concrete Ltd.
Remy, Georges
St. Louis, Rosaire
Standard Clay Products
Tisserand, Felix

Lakefield Ave., Montreal E.
2565 Belanger St., Montreal
St. Charles St., Bellechasse
144 Renaud Ave., Quebec
Orustown
2049 Harvard Ave., Montreal,
Rue Daigle, Sherbrooke
2745 Grand Trunk St., Montreal
6905 Clanranald Ave., Montreal
St. Basile, Co. Portneuf
1392 Beaubien St. E., Montreal
Pointe Claire
5081 Iberville St., Montreal
Ste. Elizabeth, Co. Joliette
484 Laviolette St., St. Jerome
St. Jerome, Co. Terrebonne
27 St. Sacrement St., Chicoutimi
(Ottawa St., Montreal)
(9 Beaubien St., Montreal.
6824 Briand St., Montreal
105 Jean Talon St. W., Montreal
8645 Casgrain St., Montreal
Head of Coolbrook Ave., Montreal
20 Aberdeen St. Lachine
St. Polycarpe
425 Selby St., Montreal.
St. Cesaire.
Ste. Ursule.
St. Jean.
5936 Des Ecores St., Montreal

ONTARIO -

Aristocrat Mfg. Co. Ltd.,
Ashman, T. J. & Son
Babcock Supply Co.
Baird Barton Stone
Barr, William
Boyd Bros.
Brans, J.
Brown, A. E.
Brown, D. L.
Burwell, C. H.
Calder, James
Canada Block & Tile Co. Ltd.,
Canadian Concrete Products Co. Ltd.,
Cement Shingle Corp. Ltd.
Century Concrete Vault Ltd.
Clemens & Miller
Concrete Pipe Ltd.
Concrete Pipe Ltd.
Cooksville Co. Ltd.

7 Fraser Ave., Toronto
520 Grosvenor St., London
Wallaceburg
225 MacPherson Ave., Toronto
1856 Yonge St., Toronto
Osgoode
22 Savoy Ave., East York (Toronto)
215 Spruce St., Sudbury
272 Cedar St., Sudbury
Tillsonburg
Fergus
70 Verona Ave., Toronto
Belleville
35 Golden Ave., Toronto
Industrial St., Leaside
Lincoln St. W., Welland
198 Riddell St., Woodstock
400 Old Park Road, Toronto
Cooksville

DIRECTORY OF FIRMS IN THE CEMENT PRODUCTS INDUSTRY, 1938 - (Continued)

<u>Names of Firms</u>	<u>Location of Plants</u>
ONTARIO - (Continued)	
Cooper Concrete Block & Supply Co. Ltd.	1001 Roselawn Ave., Fairbank
Cross Supplies & Paving Ltd.	1272 Windsor Ave., Windsor
Dell, E. E.	Aylmer
Dominion Concrete Co. Ltd.	Kemptville
Dominion Concrete Co. Ltd.	Prescott
Dual Mixed Concrete & Materials Ltd.	445 Fleet St. W., Toronto
Dundas Concrete Block Co. Ltd.	400 Scarlett Road, Toronto
D. W. S. Concrete Products Limited	640 Dufferin St., Toronto
Economy Fuel Co.	100 Wallace Ave., Hamilton
Fairbank Block & Supply Co. Ltd.	318 Hopewell Ave., Toronto
Florry, A., & Son (Scarlett Road Block Co.)	16 Scarlett Rd., Toronto
Frazer Duntile Co. Ltd.	Clyde Ave., Westboro
Frid Bros. Ltd.	Main W. and Macklin Sts., Hamilton
Garnett, Thos., & Sons	Barrett St., Port Hope
Grimo, Frank	1500 Ferry St., Niagara Falls
Hall, J. H.	George St. N., Peterborough
Hayley, Harry	Hurdman Road, Ottawa.
Hill Bros.	1512 Dufferin Place, Windsor
Jackson, Jas. H.	19 Orchard St., London
Kilbourne, H., & Son	145½ Wharncliffe Rd. S., London
Kitchener Concrete Block Co.	R. R. 4, Kitchener
Leaside Block & Tile Ltd.,	Industrial St., Leaside
Leblond, J.	68 Hanna St., Eastview
London Cement Burial Vault-Works.	345 Hamilton Rd., London
Medusa Products Co. of Canada Ltd.	Paris
Miller, A.	50 Harvey St., Chatham
Northern Cement B. B. & Tile Co.	Timmins
Nuttall, Wm. A.	948 Hamilton St., Preston
Ontario Ready Mix Concrete Ltd.	Ottawa and Toronto
Peerless Construction Co.	4740 Riverside Drive, Riverside
Peerless Stone Ltd.	510 Rhodes Ave., Toronto
Pinchin, R.	Clarkson.
Red-D-Mix Concrete Ltd.	501 Main St. W., Hamilton
Rideau Concretes Ltd.	River Road, Eastview
Robinson, Ernest	R. R. 3, Mitchell
Sarnia Cement Products Co. Ltd.	Albert St., Point Edward
Sauve, Dennis	Belle River
Schmidt, J. T.	R. R. 1, Waterloo
Sudbury Brick & Block Supply	357 Bond St., Sudbury
Superior Stone Ltd.	528 Victoria St., Kitchener
Tooke, Thos.	57 Government Rd., Kirkland Lake
Toronto Brick Company Ltd.	Ormskirk Ave., Village of Swansea
Toronto Concrete Burial Vault Co.	Islington
White, Homer, & Co.	Spring St. Picton
Willowdale Block Co.	113 Hounslow Ave., Willowdale.
Wilson, Horace	1518 Main St. E., Hamilton
Wollatt Fuel & Supply Co. Ltd.,	2171 Ottawa St., Walkerville.
Young Bros.	Ridgeway

DIRECTORY OF FIRMS IN THE CEMENT PRODUCTS INDUSTRY, 1938 - (Concluded).

<u>Names of Firms</u>	<u>Location of Plants</u>
<u>MANITOBA -</u>	
Dominion Stucco Co. Ltd. Lo'ns Stone Works Limited	Sargent and St. James, Winnipeg St. Mary's Road, Norwood Grove.
<u>SASKATCHEWAN -</u>	
Concrete Products Ltd. Precast Concrete Co.	Fifth and St. John Sts., Regina 826 Dewdney Ave., E., Regina
<u>ALBERTA -</u>	
Bell, T. A. Concrete Products & Supplies Woods Cement Works	122 - 3rd Ave., E., Calgary Rifle Range, East Calgary 1926-28th Ave., S.W. Calgary
<u>BRITISH COLUMBIA -</u>	
B. C. Concrete Co. Ltd. Canadian Stucco Products Champion & White Ltd. Dawson Art Stone Works Diethers Ltd. Gill's Concrete Foundry Hunter, George Pressure Pipe Co. of Canada Ltd. Reynolds Concrete Blocks Sanderson, Warren Williams Concrete Co. Ltd.	77th and Oak Sts., Vancouver Granville Island, Vancouver 1075 Main St., Vancouver 294 East 1st Ave., Vancouver Granville Island, Vancouver Rossland 2613 East 22nd Ave., Vancouver Fell Ave., N., Vancouver North Rd., R. R. 2., New Westminster 1780 Braodway E., Vancouver 1401 Main St., Vancouver

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