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~~Cement Canada Stat~~

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CANADA OBS
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL & CHEMICAL BRANCH

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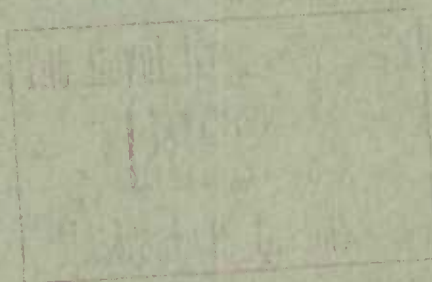
THE CEMENT INDUSTRY
IN
CANADA
1936

including:- 1. The Cement-Making Industry.
2. The Cement Products Industry.

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OTTAWA
1938

Price 15 cents



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1936
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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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1. THE CEMENT-MAKING INDUSTRY, 1936.

Producers' sales of Portland cement in Canada during 1936 totalled 4,508,718 barrels valued at \$6,908,192 compared with 3,648,086 barrels worth \$5,580,043 in 1935, according to finally revised statistics issued by the Mining, Metallurgical and Chemical Branch of the Dominion Bureau of Statistics at Ottawa. The number of barrels of cement sold and the apparent consumption of same during 1936 were the largest since 1931 in which year sales and consumption totalled 10,161,658 and 10,085,986 barrels, respectively.

Although the first official record of the production of cement in Canada is that of the manufacture of hydraulic cement from the black limestones of Quebec in 1856, it is understood that lime and hydraulic cement were made at Hull between 1830 and 1840. Plants were also operated at an early date in Quebec at the mouth of the Magdalen river, Gaspé county, and in Argenteuil county; in Ontario at Kingston and Thorold. It was not until 1887 that serious competition to the domestic production showed itself in large importations of Portland cement; in this year Canadian output totalled 69,843 barrels valued at \$81,909. Canadian Portland cement made its appearance on the market in 1889. The period 1898 to 1905 was the scene of a boom in the construction and promotion of cement plants in Canada; eleven marl plants were erected during these years of which only three were really successful. Later years witnessed the abandonment of the marl process and the development of the present limestone or limestone-clay slurry method of production. The high point in Canadian cement production was recorded in 1929 when shipments amounted to 12,284,081 barrels valued at \$19,337,235.

During 1936, cement was produced in Quebec, Ontario, Manitoba, Alberta and British Columbia with 46.4 per cent and 34.2 per cent of the Dominion output coming from Quebec and Ontario, respectively.

Four firms were reported as active in 1936 and \$56,343,991 was employed as capital; the number of employees totalled 1,052 compared with 924 in 1935; salaries and wages distributed were recorded at \$1,196,664 against \$1,027,416 in the preceding year. The industry in 1936 consumed \$1,576,142 worth of fuel and electricity, 1,180,358 tons of limestone, 25,447 tons of gypsum, 94,943 tons of clay and 8,549 tons of sand. The high selling price per barrel for cement in 1936 was \$2.68 and the low, \$1.25, compared with \$2.79 and \$1.25 in 1935.

The outlook for the use of cement in the coming year in Canada depends in a large measure upon the progress of the construction industry of the country. Recovery, in the field of construction, has been quite as much deferred as was the reaction to the business depression of 1929 and the four years immediately following. The production and sale of cement has been following a similar course.

From a national production of over twelve million barrels of cement in 1929, there was a drop of seventy-five per cent to the depression low of 1933. A definite improvement in the industry was reflected in the production figures for 1936 when increases of 23.6 per cent in quantity and 23.8 per cent in value over those of the preceding year were realized. This improvement is continuing as evidenced by a production of 2,922,726 barrels during the first seven months of 1937, or an increase of 33.1 per cent above the quantity shipped in the corresponding period of 1936.

It is worthy of note that in a number of fields the use of cement has proved to be increasingly popular in the past year. For instance, the province of Ontario, in its road programme, called for more than 250 miles of concrete pavement, compared with 70 miles the year previous. In addition, the Department of Highways of Ontario built over 50 concrete bridges this year, most of them of the rigid frame type.

The modernistic type of house building lends itself readily to the use of concrete and great interest is being shown by home builders in its possibilities. A number of these cement houses have been constructed and several architectural monolithic concrete structures are under way, and more are proposed.

Under the provisions of the Home Improvement Plan, by which farm buildings were permitted to be financed, a good impetus has been given to the use of cement on the farm. This is a field which is capable of much further expansion.

There are many factors which lead one to believe that the usefulness of cement, as a construction material, will continue to increase. Its adaptability to exacting conditions and severe climatic changes, its permanent nature and favorable costs as compared with many other competing materials, all combine to encourage its use. The speed with which it can be placed and set, with the use of modern machinery, together with its safety features, appeal to the road engineer. The requirements of civic by-laws make its use desirable in "fire-safe" residential construction, garages, and public buildings.

It is worthy of note that this material, over a period of several years, has been available to the consumer at prices which have not suffered severe fluctuations and that the quality of the Canadian product has been maintained. It would seem to be most likely that in the upward march of construction, cement will play a large part in giving employment in highway, sewer, dock, bridge and building construction.

"During the past few years there has been widespread interest in the low-cost road A great deal of publicity has been given to the stabilization of road surfaces, but little attention has been paid to improving the soil on the roadbed prior to stabilization, and practically none to improving the foundations. ... The use of Portland cement in soil stabilization is in the experimental or developmental stage. Experiments on a small scale started in 1933 in South Carolina showed definite promise, and since that time more enlarged field

investigations have been carried on. Last year research jobs were constructed in Wisconsin, Michigan, Illinois and Missouri. In South Carolina the soils treated consisted of a natural fine sand and clay mixture. In Wisconsin the soil treated was a loose fine sand to which approximately 20 per cent silty clay soil was added prior to cement stabilization. In Missouri the soil treated is reported to have been clay." (Prof. F. C. Lang - University of Minnesota).

Table 1 - PRINCIPAL STATISTICS OF THE CEMENT-MAKING INDUSTRY IN CANADA, 1935 and 1936.

	1935	1936
Number of firms	4	4
Number of plants	9	9
Capital employed	\$ 52,454,004	53,343,991
Number of employees - On salary	78	84
On wages	846	968
Total	\$ 924	1,052
Salaries and Wages - Salaries	\$ 150,587	173,001
Wages	\$ 876,829	1,023,663
Total	\$ 1,027,416	1,196,664
Selling value of products (gross)	\$ 5,580,043	6,908,192
Cost of fuel and electricity (b)	\$ 1,227,410	1,576,142
Cost of process supplies (c)	\$ 394,264	592,929
Net value of products sold	\$ 3,958,369	4,739,121

(a) Information not available.

(c) Other than item (b).

Table 2 - WAGE-EARNERS ON 15th of EACH MONTH OR NEAREST REPRESENTATIVE DATE, 1933 to 1936.

Month	1933	1934	1935	1936
				Quarry Mill
January	618	556	705	44 721
February	609	565	660	43 705
March	606	561	671	63 752
April	628	685	687	121 906
May	482	846	802	107 1,017
June	558	885	920	160 901
July	632	965	937	167 917
August	815	883	947	117 921
September	787	861	1,042	120 929
October	798	865	964	122 926
November	716	844	943	97 886
December	584	789	896	82 778

Table 3 - NUMBER OF WAGE-EARNERS IN MONTH OF HIGHEST EMPLOYMENT WHOSE REGULAR HOURS PER WEEK WERE -

Hours	1935	1936	Hours	1935	1936
	Number	Number		Number	Number
40 or less ..	39	60	51 - 53	12	14
41 - 43	34	...	54 .....	...	58
44	246	262	55	18	17
45 - 47	2	25	56 - 59	88	128
48	493	440	60	110	105
49 - 50	5	1	60 plus	45	37

Table 4 - TOTAL FUEL AND ELECTRICITY USED IN THE CEMENT INDUSTRY, 1935 and 1936.

Kind	Unit of measure	1 9 3 5				1 9 3 6			
		Quantity		\$		Quantity		\$	
Bituminous coal - Canadian ..	short ton	78,477	433,347			119,903	635,631		
Imported ..	short ton	53,338	291,741			66,460	367,740		
Gasoline (other than for cars or trucks) ...	Imp. gal.	35,125	6,048			94,015	17,564		
Kerosene	Imp. gal.	1,564	290			2,951	517		
Fuel oil	Imp. gal.	12,032	1,446			13,589	1,478		
Electricity purchased	K.W.H.	51,958,859	(x) 494,538			62,038,700	553,212		
TOTAL COST .....		\$		...1,227,410		...1,576,142			

(x) Includes service charges.

Table 5 - COAL USED IN CANADIAN CEMENT PLANTS, 1931 - 1936.

Years	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	635,631	66,460	367,740

Table 6 - KILNS USED BY CANADIAN CEMENT INDUSTRY, 1931 - 1936.

Year	Rotary		Vertical		Total Daily Capacity
	No.		No.		Barrels
1931	43		1		42,422
1932	47		...		43,822
1933	41		...		43,622
1934	41		...		43,922
1935	20		...		32,650
1936	19		...		33,000

Table 7 - QUANTITY AND VALUE OF ELECTRICITY PURCHASED BY CANADIAN CEMENT COMPANIES, 1931 - 1936.

Year	Kilowatt hours	\$(x)	Year	Kilowatt hours	\$(x)
1931	152,884,534	741,790	1934	48,457,250	496,138
1932	85,630,342	590,891	1935	51,958,859	494,538
1933	48,160,143	508,841	1936	62,038,700	553,212

(x) Includes service charges.

Table 8 - POWER EQUIPMENT IN CANADIAN CEMENT PLANTS, 1936.

Description	Number of units (x)	Total horse power (manufacturers' rating)
Steam engines and steam turbines	3	113
Diesel engines	2	516
Gasoline, gas and oil engines, other than diesel	34	1,567
Hydraulic turbines or water wheels .....	...	...
Electric motors - Operated by purchased power	1,164	69,203
Operated by own power.	10	756
Boilers	15	587

(x) Includes reserve equipment.

Table 9 - SUMMARY STATISTICS OF CEMENT PRODUCTION, SALES, ETC., IN CANADA, 1935 and 1936.

	1 9 3 5		1 9 3 6	
	Barrels(x)	Value	Barrels(x)	Value
		\$		\$
Output	3,487,602	...	4,939,030	...
Sold or used	3,648,086	5,580,043	4,508,718	6,908,192
Stocks on hand December 31st	1,402,017	...	1,832,380	...

IMPORTS -

Portland cement and hydraulic or water lime	17,738	60,079	39,867	107,180
Manufactures .....	...	17,102	...	7,141
TOTAL IMPORTS	77,181	...	114,321

EXPORTS -

Portland cement	55,607	44,365	68,929	56,909
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APPARENT CONSUMPTION

(x) 1 barrel = 350 pounds.

Table 10 - PRODUCTION AND APPARENT CONSUMPTION OF CEMENT IN CANADA, 1926 - 1936.

Year	SOLD OR USED Barrels	\$	APPARENT CONSUMPTION 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

Table 11 - PRODUCERS' SALES OF CEMENT IN CANADA, BY PROVINCES, 1934 - 1936.

Province	1	9	3	4	1	9	3	5	1	9	3	6
	Barrels		Value		Barrels		Value		Barrels		Value	
				\$				\$				\$
Quebec	1,613,641		2,294,847		1,751,012		2,472,008		2,093,130		2,945,074	
Ontario	1,702,128		2,403,590		1,243,836		1,752,148		1,542,463		2,180,895	
Manitoba	181,166		411,247		266,457		604,857		348,042		783,095	
Alberta	163,946		326,253		219,555		436,914		243,534		482,197	
British Columbia	122,345		232,009		167,226		314,116		281,549		516,931	
CANADA	3,783,226		5,667,946		3,648,086		5,580,043		4,508,718		6,908,192	

Table 12 - SELLING PRICE PER BARREL OF CANADIAN CEMENT, F.O.B. WORKS, 1931 - 1936.

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

Table 13 - LIMESTONE, GYPSUM, SAND AND CLAY USED IN CANADIAN CEMENT PLANTS, 1931-1936.

Year	Limestone	Gypsum	Sand	Clay
	Tons	Tons	Tons	Tons
1931	2,489,147	56,677	(a)	(a)
1932	1,141,376	27,538	(a)	(a)
1933	616,364	13,319	(a)	(a)
1934	806,546	19,172	(a)	(a)
1935	818,443	21,611	5,047	(a)
1936	1,180,358	25,447	8,549	94,943

(a) Data not recorded.

Table 14 - VALUE OF CONSTRUCTION CONTRACTS AWARDED, BY PROVINCES, 1932 - 1936.
(Maclean Building Reports Ltd.)

Provinces	1932	1933	1934	1935	1936
	\$	\$	\$	\$	\$
Maritimes	9,339,500	7,218,700	9,968,600	14,373,500	17,908,800
Quebec	52,525,300	32,539,200	34,135,500	44,471,900	45,749,500
Ontario	49,291,800	42,573,400	63,358,300	70,872,800	72,393,300
Manitoba	4,503,500	2,138,000	3,905,000	8,744,400	6,994,400
Saskatchewan	2,705,200	775,200	1,563,200	3,841,300	2,200,600
Alberta	5,948,200	2,825,900	3,489,400	5,893,000	6,297,400
British Columbia	8,558,900	9,219,400	9,391,500	12,108,100	11,044,000
CANADA	132,872,400	97,289,800	125,811,500	160,305,000	162,588,000

Table 15 -- TOTAL COST OF MATERIALS USED BY THE CONSTRUCTION INDUSTRY IN CANADA, BY GROUPS AND PROVINCES,
IN 1934 and 1935.

(Construction Branch - Dominion Bureau of Statistics)				
	General and Trade Contractors and Subcontractors	Municipalities	Harbour Commissions, Provincial and Dominion Government Departments	TOTAL COST
	\$	\$	\$	\$
<u>1 9 3 4</u>				
CANADA	51,776,922	6,741,108	12,274,105	70,792,135
Prince Edward Island	110,018	25,770	5,125	140,913
Nova Scotia	1,740,514	149,201	646,312	2,536,027
New Brunswick	1,620,655	158,880	383,855	2,163,390
Quebec	16,317,628	1,084,187	962,935	18,364,750
Ontario	23,745,812	4,035,295	5,755,886	33,536,993
Manitoba	1,826,745	348,691	419,841	2,595,277
Saskatchewan	2,112,550	168,833	171,468	2,452,851
Alberta	1,425,858	292,360	344,381	2,062,599
British Columbia and Yukon .	2,877,142	477,891	261,648	3,616,681
Not Separable by Provinces .	...	...	3,322,654	3,322,654
<u>1 9 3 5</u>				
CANADA	76,342,622	5,194,279	13,196,683	94,733,584
Prince Edward Island	423,732	/	99,508	523,240
Nova Scotia	3,283,797	120,506	2,564,604	5,968,907
New Brunswick	2,640,856	261,745	1,250,908	4,153,509
Quebec	21,226,929	863,362	3,359,754	25,450,045
Ontario	33,500,293	2,647,503	4,051,812	40,199,608
Manitoba	4,451,635	312,631	625,915	5,390,181
Saskatchewan	1,940,022	93,633	254,866	2,288,521
Alberta	3,789,086	252,900	616,523	4,658,509
British Columbia and Yukon .	5,086,272	641,999	372,793	6,101,064

/ One city only. Included in third column.

Table 16 - DESCRIPTION, CLASSIFICATION AND VALUE OF WORK(x) PERFORMED IN CANADA BY (SPECIFIED) PRINCIPAL, GENERAL AND TRADE CONTRACTORS, ETC., 1934 and 1935.

(Construction Branch - Dominion Bureau of Statistics)				
	1 9 3 4	:	1 9 3 5	
Type of construction	TOTAL	:	Repairs,	TOTAL
	VALUE	:	alterations	VALUE
		:	and mainten-	
	\$	:	ance	\$
BUILDING (a)				
Dwellings	12,819,098		11,391,298	3,725,551
Churches and church halls ..	4,994,872		3,906,569	577,018
Hospitals and sanatoria	2,506,208		2,668,890	158,209
Office buildings	1,587,591		2,802,330	1,047,904
Stores	1,503,356		908,773	2,150,182
Factories and warehouses ...	7,997,286		7,950,204	1,794,952
Garages	1,039,512		990,184	236,115
Government and municipal				
buildings	8,816,757		13,516,086	2,508,885
Service stations	1,846,355		1,159,363	4,219,731
Farm buildings	476,645		366,114	51,694
ENGINEERING -				
Paved streets and highways .	16,150,231		16,016,106	4,336,775
Other streets and highways .	44,112,953		21,931,248	10,937,174
Bridges, viaducts, etc.	5,161,652		3,433,991	1,598,719
Watermains and waterworks				
systems	6,113,456		3,007,474	1,851,226
Sewers and sewage disposal .	3,880,357		2,623,491	900,467
Central electric stations,				
light and power plants	1,719,007		3,751,836	3,001,971
HARBOURS, RIVERS, ETC.-				
Docks, wharves, piers, etc..	7,464,124		6,263,281	2,598,562
Retaining walls, etc.	830,964		1,344,031	377,276
Dredging	5,481,041		5,063,935	2,331,790
TRADE CONSTRUCTION -				
Brick laying	258,324		178,222	192,868
Carpentry work	1,211,428		297,764	740,621
Concreting and cement work .	1,556,165		1,542,494	404,908
Electrical work	1,905,562		844,369	1,395,364
Heating and plumbing	7,281,375		3,614,503	5,488,774
Masonry and stone work	221,505		343,320	121,855
Lathing, plastering and				
stucco	271,262		273,887	217,588
Painting and decorating	2,799,103		447,645	2,960,396
Sheet metal work, other than				
roofing	1,174,909		536,736	1,048,009
Non-specified construction ..	35,017,792		23,814,084	17,586,061
TOTAL VALUE OF WORK PERFORMED	186,198,890		140,988,228	74,560,645
				215,548,873

(x) Includes work by subcontractors, municipalities, Harbour Commissions, provincial and Dominion Government departments.

(a) Includes concreting and cement work performed by subcontractors to the value of \$1,294,163 in 1934 and \$1,255,705 in 1935.

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	78.6	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
1936 -						
January	83.6	83.1	88.0	67.9	105.2	72.9
February ...	84.2	84.6	88.0	67.7	105.2	72.5
March	84.2	84.5	88.0	67.5	105.2	72.4
April	84.6	85.2	88.2	67.6	105.2	72.2
May	85.0	86.0	88.5	67.0	106.2	71.9
June	84.8	85.5	88.7	66.3	106.2	72.3
July	85.2	86.3	88.3	68.3	106.2	74.3
August	85.6	86.9	88.5	68.7	106.2	76.1
September ..	85.8	87.0	88.8	69.1	106.2	76.4
October	86.4	88.7	88.5	69.0	106.2	77.1
November ...	86.6	88.8	88.3	69.0	106.2	77.2
December ...	87.8	89.1	91.0	70.1	106.2	79.6
1937 -						
January	89.1	92.0	90.9	70.6	106.2	81.7
February ...	91.1	95.3	92.2	70.5	106.2	82.9
March	97.3	104.5	96.5	72.5	106.2	85.5
April	97.9	105.0	96.4	76.6	106.2	86.1
May	97.8	104.8	96.5	76.4	106.2	85.1
June	96.3	101.3	96.6	75.9	106.2	84.6
July	95.9	99.9	97.0	75.7	106.2	87.5
August	95.5	99.0	97.2	75.6	106.2	85.6
September ..	94.1	96.1	96.8	75.5	106.2	85.0
October	92.7	93.8	96.0	75.3	106.2	84.7

(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, 1935 and 1936.
(Source - Statistical Year Book of the League of Nations)
(Metric tons - 000's omitted)

Country	1929	1935	(x) 1936
AFRICA	760	(x)1,200	1,350
Algeria	58	65	...
Belgian Congo	60	...	...
Egypt	180	379	335
Madagascar .....	...	4	...
Morocco (Fr.)	65	180	160
Mozambique	21	1	12
Tunis .....	...	40	...
Union of South Africa	a) 376	a) 527	702
NORTH AMERICA	31,426	13,816	20,184
Canada	1,945	554	784
United States	29,481	13,262	19,400
CARIBBEAN (Mexico) /	(225)	...	...
SOUTH AMERICA	640	(x)1,300	1,400
Argentina	350	...	...
Brazil	96	363	483
Chile	145	285	248
Peru	49	60	75
Uruguay .../ .....	...	...	...
ASIA (excluding U.S.S.R.) (x) ..	5,570	(x)7,400	7,500
China (1)	185	203	...
India	570	892	980
Netherland Indies	149	140	...
Fr. Indo-China	184	107	149
Japan (2)	4,274	5,565	5,456
Palestine	69	187	165
Philippines	76	...	...
Siam	62	49	62
Syria and Lebanon .....	...	130	190
U.S.S.R.	2,367	4,465	5,845
EUROPE (excluding U.S.S.R.) (x) (3)	34,190	33,800	37,000
Germany (4)	7,039)	8,802	11,530
Saar	167)		
Austria	582	371	369
Belgium (5)	3,248	2,200	2,350
Bulgaria	151	124	122
Denmark	799	757	...
Spain	1,820	...	...
Estonia	62	40	50
Finland	278	284	...
France	5,787	3,926	...
Greece	155	273	...
Hungary	403	280	...
Italy	3,497	4,196	3,859
Latvia	40	72	98

Table 18 - WORLD'S PRODUCTION OF CEMENT, 1929, 1935 and 1936.
(Metric tons - 000's omitted)

Country	1929	1935	(x)1936
EUROPE (concluded) -			
Norway	319	263	(x)290
Netherlands	210	360	401
Poland	1,008	843	1,048
Portugal	88	214	245
Roumania	317	361	...
U. Kingdom	4,766	5,900	6,700
Sweden	570	740	...
Czechoslovakia (x).....	1,250	980	1,050
Turkey	65	131	...
Yugoslavia	874	785	639
OCEANIA (x) (3)	920	750	...
Australia .....(a)	720	559	...
(x)TOTAL	75,870	62,750	74,000

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.

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

/ Country not included in the totals.

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

(2) Japan: including Korea, Formosa and Kwantung.

(3) Europe, Oceania: total includes estimate for other countries not mentioned.

(4) Germany: 1929, works affiliated to the German Cement Association.

(5) Belgium: artificial cement only.

DIRECTORY OF CANADIAN PORTLAND CEMENT MANUFACTURING COMPANIES, 1936.

<u>Name</u>	<u>Head Office Address</u>	<u>Location of Plant</u>
<u>QUEBEC</u> -		
Canada Cement Co. Ltd.	Canada Cement Bldg., Montreal	Hull and Montreal East
<u>ONTARIO</u> -		
Canada Cement Co. Ltd.	Canada Cement Bldg., Montreal, P.Q.	Belleville, Lakefield and Port Colborne
St. Marys Cement Co. Ltd.	357 Bay St., Toronto	St. Marys
<u>MANITOBA</u> -		
Canada Cement Co. Ltd.	Canada Cement Bldg., Montreal, P.Q.	Fort Whyte and Steep Rock.
<u>ALBERTA</u> -		
Canada Cement Co. Ltd.	Canada Cement Bldg., Montreal, P.Q.	Exshaw.
<u>BRITISH COLUMBIA</u> -		
British Columbia Cement Co. Ltd.	Box 10, Victoria	Bamberton and Tod Inlet
Coast Cement Co. Ltd.	Granville Island, Vancouver	Granville Island.

THE CEMENT PRODUCTS INDUSTRY, 1936.

Output of manufactured cement products in 1936 was valued at \$1,713,347 compared with \$1,154,138 in 1935, \$1,596,998 in 1933, \$3,807,188 in 1931, and \$4,419,417 in 1929. Production in 1936 was the highest reported by the industry since 1932 and was 48 per cent above the 1935 figure; it was, however, lower than for any of the years from 1925 to 1932 inclusive and amounted to only 39 per cent of the value for 1929.

A total of 97 manufacturing plants were included in this industry in 1936; 59 were in Ontario, 22 in Quebec, 8 in British Columbia, 2 in each of New Brunswick, Manitoba and Alberta, and 1 in each of Nova Scotia and Saskatchewan. Many of these plants were very small, there being 51 with outputs of less than \$5,000, 16 in the \$5,000 to \$10,000 group, 20 between \$10,000 and \$25,000, and only 10 with outputs in excess of \$25,000. The works in Ontario accounted for 64 per cent of the total production and the factories in Quebec accounted for 15 per cent.

Products of the industry in 1936 included cement pipe of all kinds worth \$432,424, cement hollow building blocks worth \$315,141, cinder blocks worth \$167,350, artificial stone worth \$133,629, cement laundry tubs worth \$113,547, and other cement articles such as stucco, burial vaults, bricks, etc.

Construction work, such as the building of foundations, dams, bridges, etc., is not classed as manufacturing and is not included in this industry.

Table 18 - PRINCIPAL STATISTICS OF THE CEMENT PRODUCTS INDUSTRY, 1925 - 1936.

Years	No. of opera- ting plants	Capital employed \$	Average number of em- ployees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Gross sell- ing 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

Table 19 - PRINCIPAL STATISTICS OF THE CEMENT PRODUCTS INDUSTRY, BY PROVINCES,
1935 and 1936.

Provinces	No. of opera- ting plants	Capital employed \$	Average number of em- ployees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Gross sell- ing value of products at works \$
<u>1935</u>							
Nova Scotia	1)						
New Brunswick ..	2)	22,609	7	3,997	81	2,895	8,563
Quebec	24	1,119,040	136	114,935	14,393	81,719	269,404
Ontario	57	1,635,243	340	299,170	21,090	338,872	774,589
British Columbia	6	130,888	21	23,068	1,399	24,831	72,388
Manitoba	1)						
Saskatchewan	1)	116,506	15	10,455	213	10,979	29,194
Alberta	2)						
CANADA	94	3,024,286	519	451,625	37,176	459,296	1,154,138
<u>1936</u>							
Nova Scotia	1)						
New Brunswick ..	2)	19,702	9	3,856	124	3,906	11,373
Quebec	22	895,940	125	104,364	14,954	103,109	260,035
Ontario	59	1,677,657	387	371,300	28,242	461,383	1,100,315
British Columbia	8	332,630	56	68,912	6,368	179,411	291,713
Manitoba	2)						
Saskatchewan	1)	127,816	25	20,777	348	15,212	49,911
Alberta	2)						
CANADA	97	3,053,745	602	569,209	50,036	763,021	1,713,347

Table 20 - SIZE OF ESTABLISHMENTS, ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES and
CAPITAL EMPLOYED, 1936.

	Number of operating plants	Capital employed \$	Average number of employees	Gross selling value of pro- ducts at works \$
<u>(a) PRODUCTION</u>				
Under \$5,000	51	513,447	90	118,443
\$5,000 to \$10,000	16	374,134	53	117,834
\$10,001 to \$25,000	20	802,507	161	321,261
\$25,001 to \$50,000	3	86,385	34	105,075
Over \$50,000	7	1,277,272	264	1,050,734
TOTAL	97	3,053,745	602	1,713,347
<u>(b) NUMBER OF EMPLOYEES</u>				
1 or 2	44	541,363	60	110,420
3 to 10	39	877,364	189	388,103
11 to 20	9	560,014	127	328,866
Over 20	5	1,075,004	226	885,958
TOTAL	97	3,053,745	602	1,713,347
<u>(c) CAPITAL EMPLOYED</u>				
Under \$25,000	69	519,214	210	414,409
\$25,000 to \$100,000	19	878,718	151	435,219
Over \$100,000	9	1,655,813	241	863,719
TOTAL	97	3,053,745	602	1,713,347

Table 21 - CAPITAL EMPLOYED IN THE CEMENT PRODUCTS INDUSTRY, BY PROVINCES, 1935 and 1936.

Provinces	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>1935</u>				
Nova Scotia and New Brunswick ...	12,548	4,051	6,010	22,609
Quebec	911,944	119,283	87,813	1,119,040
Ontario	983,588	324,386	327,269	1,635,243
British Columbia ..	105,810	9,473	15,605	130,888
Other provinces ..	85,169	11,136	20,201	116,506
CANADA	2,099,059	468,329	456,898	3,024,286
<u>1936</u>				
Nova Scotia and New Brunswick ...	12,898	5,620	1,184	19,702
Quebec	708,142	105,561	82,237	895,940
Ontario	1,022,775	340,840	314,042	1,677,657
British Columbia ..	176,444	14,451	141,735	332,630
Other provinces ..	95,856	10,511	21,449	127,816
CANADA	2,016,115	476,983	560,647	3,053,745

Table 22 - EMPLOYEES, SALARIES AND WAGES IN THE CEMENT PRODUCTS INDUSTRY, BY PROVINCES, 1935 and 1936.

PROVINCES 1935 and 1936.								
Provinces	Average number of employees					Salaries	Wages	TOTAL SALARIES and WAGES
	On salaries		On wages		TOTAL			
	Male	Female	Male	Female				
						\$	\$	\$
<u>1935</u>								
Nova Scotia and New Brunswick	2	...	5	...	7	1,300	2,697	3,997
Quebec	41	2	93	...	136	51,356	63,579	114,935
Ontario	65	7	266	2	340	89,077	210,093	299,170
British Columbia	9	...	12	...	21	9,428	13,640	23,068
Other provinces	5	...	10	...	15	4,959	5,496	10,455
CANADA	122	9	386	2	519	156,120	295,505	451,625
<u>1936</u>								
Nova Scotia and New Brunswick	2	...	7	...	9	1,300	2,556	3,856
Quebec	30	1	94	...	125	37,582	66,782	104,364
Ontario	69	9	304	5	387	105,561	265,739	371,300
British Columbia	17	1	38	...	56	20,910	48,002	68,912
Other provinces	6	1	18	...	25	8,506	12,271	20,777
CANADA	124	12	461	5	602	173,859	395,350	569,209

Table 23 - WAGE-EARNERS IN THE CEMENT PRODUCTS INDUSTRY, BY MONTHS, 1935 and 1936.
(On the 15th or nearest representative date)

Months	1	9	3	5	1	9	3	6
	Male	Female	TOTAL		Male	Female	TOTAL	
January	208	2	210		261	4	265	
February	212	2	214		292	4	296	
March	266	2	268		366	4	370	
April	346	2	348		430	5	435	
May	402	2	404		513	5	518	
June	461	2	463		534	5	539	
July	511	2	513		566	6	572	
August	513	2	515		577	6	583	
September	486	2	488		555	6	561	
October	518	2	520		526	6	532	
November	428	2	430		511	6	517	
December	319	3	322		392	6	398	
AVERAGE	386	2	388		461	5	466	

Table 24 - TOTAL OF WAGE-EARNERS IN MONTH OF HIGHEST EMPLOYMENT, GROUPED ACCORDING TO
REGULAR HOURS WORKED PER WEEK, 1936. (Overtime not included)

Regular hours worked per week	Number of wage-earners	Regular hours worked per week	Number of wage-earners
40 hours or less	96	51 - 53 hours	22
41 - 43 hours	3	54 hours	173
44 hours	81	55 hours	1
45 - 47 hours	40	56 - 59 hours	36
48 hours	148	60 hours or over	122
49 - 50 hours	104	TOTAL	826

Table 25 - FUEL AND ELECTRICITY USED IN THE CEMENT PRODUCTS INDUSTRY, 1935 and 1936.

Kinds	Unit of measure	1	9	3	5	1	9	3	6
		Quantity			Cost at works \$	Quantity			Cost at works \$
Bituminous coal - Canadian ..	short ton	1,122			6,725	1,818			12,142
Imported ..	short ton	808			5,524	1,391			8,766
Anthracite coal	short ton	152			1,265	107			1,224
Lignite coal	short ton	1			14	3			16
Coke	short ton	68			555	108			929
Gasoline	Imp. gal.	3,918			929	6,825			1,682
Kerosene or coal oil	Imp. gal.	204			36	358			72
Fuel oil	Imp. gal.	6,938			412	1,453			149
Wood	cords	53			292	76			332
Gas - Manufactured	M cu.ft.	567			440	513			385
Natural	M cu.ft.	24			12	50			32
Other fuel .....	\$	...			455	...			273
Electricity purchased	K.W.H.	874,078			20,427	1,060,821			24,034
TOTAL .....	\$	...			37,086	...			50,036

Table 26 - POWER EQUIPMENT IN THE CEMENT PRODUCTS INDUSTRY, 1935 and 1936.

Kinds	1	9	3	5	:	1	9	3	6
	Number of Total rated units					Number of Total rated units			
	horse power:					horse power			
Steam engines and turbines	5			95		6			115
Gasoline engines	26			152		23			141
Total Primary Equipment	31			247		29			256
Electric motors run by purchased power.	259			2,590		264			2,619
TOTAL	290			2,837		293			2,875
Boilers	20			1,105		18			955

Table 27 - POWER EQUIPMENT SHOWING "ORDINARILY IN USE" SEPARATELY FROM "IN RESERVE OR IDLE" 1936.

Kinds	Ordinarily in use		:	In reserve or idle	
	Number of Total rated units			Number of Total rated units	
	horse power:			horse power	
Steam engines and steam turbines	6			115	...
Gasoline engines	23			141	...
Total Primary Equipment	29			256	...
Electric motors operated by purchased power	245			2,482	19
TOTAL	274			2,738	19
Boilers	17			941	1

Table 28 - MATERIALS USED IN THE CEMENT PRODUCTS INDUSTRY, 1935 and 1936.

Materials	Unit of measure	1	9	3	5	:	1	9	3	6
		Quantity					Quantity			
		Cost at works					Cost at works			
Portland cement	brl.	92,902			210,398		130,050			291,181
Quicklime	bush.	465			491		1,322			1,450
Sand	cu.yd.	27,697			32,391		47,029			55,092
Gravel	cu.yd.	34,343			28,724		31,376			26,329
Crushed stone	cu.yd.	13,089			18,555		18,090			24,593
Cinders	cu.yd.	...			7,856		22,773			16,294
Reinforcing steel	ton	421			26,888		2,358			112,607
Other materials .....	\$	...			117,381		...			221,501
Boxes, crates, lumber, etc. ....	\$	...			16,612		...			13,974
TOTAL .....	\$	...			459,296		...			763,021

Table 29 - MATERIALS USED IN THE CEMENT PRODUCTS INDUSTRY, BY PROVINCES, 1936.

Materials	Quebec	Ontario	British Columbia	Other Provinces	CANADA
	\$	\$	\$	\$	\$
Portland cement	52,247	193,282	36,487	9,165	291,181
Quicklime	85	315	957	93	1,450
Sand	10,219	36,158	7,226	1,489	55,092
Gravel	1,684	18,442	3,549	2,654	26,329
Crushed stone	16,679	6,081	1,703	130	24,593
Cinders	598	15,696	...	...	16,294
Reinforcing steel	9,515	31,182	69,268	2,642	112,607
Other materials	11,712	147,674	59,404	2,711	221,501
Boxes, crates, lumber, etc. ..	370	12,553	817	234	13,974
TOTAL	103,109	461,383	179,411	19,118	763,021

Table 30 - PRODUCTS MADE IN THE CEMENT PRODUCTS INDUSTRY, 1935 and 1936.

Products	1 9 3 5		1 9 3 6	
	Selling value		Selling value	
	Quantity	at works	Quantity	at works
		\$		\$
Cement bricks	M 1,198	17,178	2,877	63,032
Cement hollow building blocks, etc. M	2,268	277,923	...	315,141
Cement drain pipe, sewer pipe, water pipe and culvert tile .....	...	305,203	...	432,424
Artificial stone .....	...	148,480	...	133,629
Cement laundry tubs	No. 4,926	34,659	...	113,547
Cinder blocks	M 796	102,615	1,543	167,350
Cement stucco .....	...	22,658	...	23,492
All other products (x) .....	...	245,422	...	464,732
TOTAL .....	...	1,154,138	...	1,713,347

(x) Includes data for haydite blocks and slabs, burial vaults, garden furniture, etc.

Table 31 - PRODUCTS MADE IN THE CEMENT PRODUCTS INDUSTRY, BY PROVINCES, 1936.

Products	Quebec	Ontario	British Columbia	Other Provinces	CANADA
	\$	\$	\$	\$	\$
Cement bricks	18,833	40,527	3,546	126	63,032
Cement hollow building blocks	68,858	237,896	1,602	6,785	315,141
Cement drain pipe, sewer pipe, water pipe and culvert tile	102,920	47,059	251,108	31,337	432,424
Artificial stone	46,831	69,563	2,843	14,392	133,629
Cement laundry tubs .....	...	106,342	7,205	...	113,547
Cinder blocks	6,032	161,318	...	...	167,350
Cement stucco .....	...	7,480	11,036	4,976	23,492
All other products	16,561	430,130	14,373	3,668	464,732
TOTAL	260,035	1,100,315	291,713	61,284	1,713,347

Table 32 - OUTPUT OF PRINCIPAL CEMENT PRODUCTS, 1920 - 1936.

Years	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	463,091	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	1,153,508	1,294,076	40,007	1,173,645	192,358
1929	902,413	1,546,376	178,257	1,134,328	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

DIRECTORY OF FIRMS IN THE CEMENT PRODUCTS INDUSTRY, 1936.

<u>Names of Firms</u>	<u>Location of Plants</u>
<u>NOVA SCOTIA -</u>	
Kentville Concrete Products Co.	Meadow Road, Kentville
<u>NEW BRUNSWICK -</u>	
Blakeny & Son, Ltd.	732 Main St., Moncton
Hartland Cement Block Co., Ltd.	Hartland
(x) Scott Concrete Works	Barker's Point
<u>QUEBEC -</u>	
(x)Anderson, James	Beebe
Arco Stone Company, Ltd.	2565 Belanger St., Montreal
Art Stone Limited	5701 De Normanville St., Montreal
Asselin & Lapierre	St. Charles, Bellechasse
Berville Artificial Stone	5750 Poupard St., Montreal
Bilodeau, L. Alfred	144 Renaud Ave., Quebec
(x)Brunet, R.	Ormstown
Castonguay, Lorenzo	Riviere Bois Claire, Lotbiniere
Daigle, T.	Rue Daigle, Sherbrooke
Desco Stone Limited	3851 Courtrai Ave., Montreal
Duntile Company Ltd.	6905 Clanranald Ave., Cote St. Luc
Genest, Emile	St. Basile, Co. Portneuf
Giguere, Limoges	1392 Beaubien St. E., Montreal
(x)Gilbert, L.	Pointe Claire
Grandmaison, F. M.	5801 Iberville St., Montreal
Guilbault Freres & Co.	Ste. Elizabeth, Co. Joliette
Industries Economiques Ltee.	37 Victoria St., Lachine
Laflamme & Bourassa	484 Laviolette St., St. Jerome
La Cie des Produits de Ciment	St. Jerome, Co. Terrebonne
La Societe de Constructions Modernes	27 St. Sacrement St., Chicoutimi
(x)Paquette, Emile	6824 Briand St., Montreal
(x)Pizzagalli Terrazzo Tile Mfg. Co. Ltd.	105 Jean Talon St. W., Montreal
Potier Freres	8645 Casgrain St., Montreal
Pressure Pipe Co. of Canada, Ltd.	Head of Colbrooke Ave., Montreal
(x)Remy, Georges	St. Cesaire
St. Louis, Napoleon	Ste. Ursule
Taillefer, Elie	St. Polycarpe
Tisserand, Felix	5954 Des Ecores St., Montreal
<u>ONTARIO -</u>	
Aristocrat Mfg. Co. Ltd.	7 Fraser Ave., Toronto, 2
Ashman, T. J., & Son	520 Grosvenor St., London
Baird Barton Stone	225 MacPherson Ave., Toronto
Barr, William	1856 Yonge St., Toronto
Boyd Bros.	Osgoode
Brans, J.	22 Savoy Ave., East York (Toronto)
Brown, A. E.	215 Spruce St., Sudbury
Brown, D. L.	272 Cedar St., Sudbury
Burwell, C. H.	Tillsonburg
Calder, James	Fergus
(x)Campbell, John	181 Emery St., London
Canadian Concrete Products Co. Ltd.	Belleville
(x)Cawley, John	Westport

DIRECTORY OF FIRMS IN THE CEMENT PRODUCTS INDUSTRY, 1936. (continued)

<u>Names of Firms</u>	<u>Location of Plants</u>
<u>ONTARIO (continued) -</u>	
Century Concrete Vault Ltd.	Industrial St., Leaside
Clemens & Miller	Lincon St. W., Welland
Concrete Pipe Ltd.	198 Riddell St., Woodstock
Concrete Pipe Ltd.	400 Old Park Road, Toronto
Cooksville Co. Ltd., The	Cooksville
Cooper Concrete Block & Supply Co. Ltd.	1001 Roselawn Ave., Fairbank
Cross Supplies & Paving Ltd.	924 Windsor Ave., Windsor
Dominion Concrete Co. Ltd.	Kemptville
Dominion Concrete Co. Ltd.	Prescott
Dundas Concrete Block Co. Ltd.	400 Scarlet Rd., 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
Fletcher, J. H.	Fonthill
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
(x)Garnett, Thos., & Sons	Barrett St., Port Hope
Grimo, Frank	1500 Ferry St., Niagara Falls
Hall, J. H.	577 Bethune St., Peterborough
Hayley, Harry	Hurdman Road, Ottawa
Hill, John D.	1512 Dufferin Place, Windsor
Hoyles, Arthur	St. George St., Dresden
(x)Hunt, J. W.	Queen St., Mount Forest
Jackson, Jas. H.	19 Orchard St., London
Johnston, J. H.	124 Holborne Ave., London
Kilbourne, H., & Son	145 $\frac{1}{2}$ Wharncliffe Rd. S., London
Kitchener Concrete Block Co.	217 Waterloo St., Kitchener
Leaside Block & Tile Ltd.	Industrial St., Leaside
(x)Legg, Stanley	712 Oxford St., London
London Cement Burial Vault Works	687 Little Grey St., London
McClelland, R. J.	378 Brock St., Kingston
Miller, A.	50 Harvey St., Chatham
Moore, T. L.	East Avenue, Beamsville
Northern Cement B. B. & Tile Co.	Timmins
Nuttall, Wm. A.	948 Hamilton St., Preston
Peerless Construction Co.	2367 Lilliam St., Windsor
Peerless Stone Ltd.	510 Rhodes Ave., Toronto
Pinchin, R.	Clarkson
Rideau Concretes Ltd.	River Road, Eastview
Robinson, Ernest	R. R. 3, Mitchell
(x)Ross, Chas., & Son	Dunnville
(x)Russello, Howard	Leamington
Sarnia Cement Products Co. Ltd.	Albert St., Point Edward
Schmidt, J. T.	R. R. 1, Waterloo
Schultz, John	64 Kent Ave., Kitchener
(x)Shoemaker, Allen	R. R. 4, Kitchener
(x)Stanley, J., & Son	Stittsville
Stucco Products Ltd.	160 Wickstead Rd., Leaside
Superior Stone Limited	528 Victoria St., Kitchener
Sydenham Block & Tile Co.	65 Water St., Wallaceburg
Tack, Henry	Adelaide and Victoria Sts., London

DIRECTORY OF FIRMS IN THE CEMENT PRODUCTS INDUSTRY, 1936. (concluded)

<u>Names of Firms</u>	<u>Location of Plants</u>
<u>ONTARIO (concluded) -</u>	
Tooke, Thos.	57 Government Rd., Kirkland Lake
Toronto Brick Company Ltd.	Ormskirk Ave., Village of Swansea
Toronto Concrete Burial Vault Co.	Islington
Wattenworth, Chas. W.	Beamsville
White, Homer, & Co.	Spring St., Picton
Willowdale Block Co.	Willowdale
(x) Young Bros.	Ridgeway
<u>MANITOBA -</u>	
Dominion Stucco Co. Ltd.	Sargent and St. James, Winnipeg
Lo'ns Stone Works Limited	285 Lillian Ave., Norwood
<u>SASKATCHEWAN -</u>	
Concrete Products Ltd.	Fifth and St. John Sts., Regina
<u>ALBERTA -</u>	
Bell, T. A.	122 - 3rd Ave. E., Calgary
Concrete Products & Supplies	Rifle Range, East Calgary
<u>BRITISH COLUMBIA -</u>	
B. C. Concrete Co. Ltd.	77th and Oak Sts., Vancouver
Canadian Stucco Products	Granville Island, Vancouver
Dawson Art Stone Works	294 East 1st Ave., Vancouver
Hunter, George	2613 East 22nd Ave., Vancouver
Pressure Pipe Co. of Canada Ltd.	Fell Ave., North Vancouver
Sanderson, Warren	1780 Broadway E., Vancouver
Williams Concrete Co. Ltd.	1401 Main St., Vancouver
Vancouver Cement Products	7991 Granville St., Vancouver.

(x) Indicates that the output of firm was so small in 1936 it was not included in the statistical compilations.



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