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CEMENT, 1934.

Finally revised statistics as issued by the Mining, Metallurgical and Chemical Branch of the Dominion Bureau of Statistics at Ottawa, show that shipments from Canadian cement plants during 1934 totalled 3,783,226 barrels valued at \$5,667,946 as compared with 3,007,432 barrels worth \$4,536,935 in 1933, the value of the 1934 sales representing an increase of 24.9 per cent over those of the preceding year.

Cement was produced in 1934 at plants located in Quebec, Ontario, Manitoba, Alberta and British Columbia and increases in both quantity and value of cement sales over 1933 were recorded in all of these provinces. The cement mills of Quebec and Ontario are now contributing by far the greater part of Canada's cement production.

The increase of output in 1934 was reflected in the pronounced improvement experienced in employment throughout the cement industry; for the year under review a total of 860 persons were employed and the industry distributed \$1,009,686 in salaries and wages. These figures represent increases of 16.2 per cent in employees and 29.2 per cent in salaries and wages as compared with 1933. Limestone consumed in 1934 amounted to 806,546 tons, an increase of 30.9 per cent over the preceding year. Coal used by the industry totalled 69,855 tons of Canadian and 60,877 tons of foreign as against 48,905 tons of Canadian and 46,955 tons of foreign in 1933.

Both wet and dry processes were employed and 41 rotary kilns, with a total daily capacity of 43,722 tons, were utilized. Selling prices, f.o.b. works, in 1934 were \$2.36 high and \$1.25 low as compared with a high and low of \$2.55 and \$1.25 respectively in 1933.

Exports of cement in 1934 totalled 70,046 barrels valued at \$55,181 as compared with 52,531 barrels worth \$47,369 in 1933. Overseas shipments of Canadian cement in 1934 went to various countries, including British Guiana, Trinidad, Newfoundland, and Australia.

"A feature about concrete construction is that, for the most part, concrete is manufactured at the site of the work, although in recent years there has been a noted tendency toward the use of pre-mixed or transit-mixed concrete which requires no job mixing but simply placing in the forms. In either case the material is a fully Canadian commodity in which there is no foreign element, either of labour or material. Even the formwork is Canadian, making use of Canadian lumber set up in place by local workmen. Many large and important buildings, bridges, and other structures and many miles of roads in Canada have been built of

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concrete in recent years. So well established, indeed, has concrete become that there is never any question of its stability, strength and longevity. Canadian engineers have kept to the forefront in the assimilation and application of the knowledge that research and practical application are making known about concrete (and cement), and Canadian contractors have shown initiative and enterprise in the handling of concrete under all sorts of conditions, including severe winter weather. Concrete has thus become definitely fixed as a Canadian structural material through the co-operative efforts of cement manufacturers, aggregate producer, steel reinforcing mill, lumber manufacturer, engineer and contractor.

"Last year, for the first time, cement bound macadam roads became a factor in the road construction program of Canada, and although the mileage built was small, there is evidence that the interest in the cement bound macadam type of pavement will greatly increase. It has many merits that make it highly suitable for low-cost highways and is now being adopted in the United States by a rapidly increasing number of road authorities." (1)

It was announced by the British Technical Press in June, 1935, that negotiations for the projected formation of a central propaganda organization for the cement industry were nearing completion. It was understood that an annual subscription related to output will be paid into a common fund by all members adhering to the cement agreement. This agreement embraces practically all the cement manufacturers of Great Britain and Northern Ireland.

(1) Engineering and Contract Record - Toronto

PRINCIPAL STATISTICS OF THE CEMENT INDUSTRY IN CANADA, 1933 and 1934.

	1933	1934
Number of firms	6	5
Number of plants	12	11
Capital employed	\$ 54,403,379	53,413,000
Number of employees - On salary	85	84
On wages	655	776
Total	740	860
Salaries and Wages - Salaries	\$ 160,680	161,118
Wages	\$ 621,066	848,568
Total	\$ 781,746	1,009,686
Cost of fuel and electricity	\$ 982,087	1,206,550
Selling value of products	\$ 4,536,935	5,667,946

WAGE-EARNERS ON 15th of EACH MONTH OR NEAREST REPRESENTATIVE DATE, 1933 and 1934.

Month	1933	1934
January	618	556
February	609	565
March	606	561
April	628	685
May	482	846
June	558	885
July	632	965
August	815	883
September	787	861
October	798	865
November	716	844
December	584	789

SUMMARY STATISTICS OF CEMENT PRODUCTION, SALES, ETC., IN CANADA, 1933 and 1934.

	1933		1934	
	Barrels (350 lb.)	Value \$	Barrels (350 lb.)	Value \$
Output	2,410,518	...	3,484,233	...
Sold or used	3,007,432	4,536,935	3,783,226	5,667,946
Stocks on hand December 31	1,830,928	...	1,562,501	...
<u>IMPORTS -</u>				
Portland cement and hydraulic or water lime	19,119	37,768	14,341	45,548
Manufactures .....	...	4,971	...	4,167
<u>EXPORTS -</u>				
Portland cement	52,531	47,369	70,046	55,181
Apparent Consumption	2,974,020	...	3,727,521	...

Sales of cement during the first six months of 1935 totalled 1,317,744 barrels valued at \$1,974,215 as compared with 1,355,360 barrels at \$2,045,000 in the corresponding period of 1934.

PRODUCERS' SALES OF CEMENT IN CANADA, BY PROVINCES, 1933 and 1934.

Province	1933		1934	
	Barrels	Value \$	Barrels	Value \$
Quebec	1,517,555	2,128,900	1,613,641	2,294,847
Ontario	1,095,845	1,587,812	1,702,128	2,403,590
Manitoba	129,540	295,351	181,166	411,247
Alberta	149,206	299,530	163,946	326,253
British Columbia	115,286	225,342	122,345	232,009
CANADA	3,007,432	4,536,935	3,783,226	5,667,946

PRODUCTION AND APPARENT CONSUMPTION OF CEMENT IN CANADA, 1925 - 1934.

Year	SOLD OR USED		APPARENT CONSUMPTION
	Barrels	\$	Barrels
1925	8,116,597	14,046,704	7,140,531
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

SELLING PRICE PER BARREL OF CANADIAN CEMENT, F.O.B. WORKS, 1930 - 1934.

Year	High	Low
	\$	\$
1930	2.55	1.28
1931	2.60	1.28
1932	2.55	1.25
1933	2.55	1.25
1934	2.36	1.25

LIMESTONE AND GYPSUM USED IN CANADIAN CEMENT PLANTS, 1930 - 1934.

Year	Limestone	Gypsum
	Tons	Tons
1930	2,925,399	74,227
1931	2,489,147	56,677
1932	1,141,376	27,538
1933	616,364	13,319
1934	806,546	19,172

COAL USED IN CANADIAN CEMENT PLANTS, 1930 - 1934.

Year	CANADIAN		FOREIGN	
	Tons	\$	Tons	\$
1930	309,262	1,608,969	300,348	1,697,627
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

KILNS USED BY CANADIAN CEMENT INDUSTRY, 1930 - 1934.

Year	Rotary	Vertical	Total daily capacity
	No.	No.	Barrels
1930	57	...	37,522
1931	43	1	42,422
1932	47	...	43,822
1933	41	...	43,622
1934	41	...	43,922

TOTAL FUEL AND ELECTRICITY USED IN THE CEMENT INDUSTRY, 1933 and 1934.

Kind	Unit of measure	1933		1934	
		Quantity	\$	Quantity	\$
Bituminous coal - Canadian .. short ton		48,905	236,947	69,853	367,880
Imported .. short ton		46,955	229,399	60,877	330,432
Gasoline imp. gal.		39,178	6,793	69,890	11,908
Kerosene imp. gal.		581	102	907	170
Fuel oil imp. gal.		37	5	145	22
Electricity purchased K.W.H.		48,160,143	508,841(x)	48,457,250	496,138(x)
TOTAL COST	xxx	...	982,087	...	1,206,550

(x) Includes service charges.

POWER EQUIPMENT IN CANADIAN CEMENT PLANTS, 1934.

Description	Number of units	Total horse power (manufacturers rating)
Steam engines and steam turbines	4	613
Diesel engines	2	610
Gasoline, gas and oil engines, other than diesel	42	1,592
Hydraulic turbines or water wheels	9	5,336
Electric motors - Operated on purchased power	1,278	74,874
Operated by own power ...	129	7,638
Boilers	15	587

AMOUNT OF CONCRETE PAVING COMPLETED IN CANADA, 1925 - 1934, TOGETHER WITH QUANTITY OF CEMENT SOLD BY PLANTS DURING SAME YEARS.

(Supplied by Engineering and Contract Record - Toronto)

Year	Cement sold Barrels	Laid during year square yards	Total to end of year square yards
1925	8,116,597	2,289,957	12,903,781
1926	8,707,021	2,030,302	14,934,083
1927	10,065,865	3,122,362	18,056,445
1928	11,023,928	3,403,709	21,461,154
1929	12,284,081	3,824,156	25,285,310
1930	11,032,538	3,482,681	28,767,991
1931	10,161,658	3,342,932	32,110,923
1932	4,498,721	1,159,305	33,270,228
1933	3,007,432	973,122	34,243,350
1934	3,783,226	1,999,947	36,243,297

VALUE OF CONSTRUCTION CONTRACTS IN CANADA, 1932 - 1934.

(Supplied by Engineering and Contract Record - Toronto)

	1932	1933	1934
	\$	\$	\$
Maritimes	9,339,500	7,218,700	9,968,600
Central Canada	101,817,100	75,112,600	97,493,800
Total Eastern Canada	111,156,600	82,331,300	107,462,400
Prairies	13,156,900	5,739,100	8,957,600
British Columbia	8,558,900	9,219,400	9,391,500
Total Western Canada	21,715,800	14,958,500	18,349,100

THE CEMENT PRODUCTS INDUSTRY

Products of the 83 establishments comprising this industry in 1933 included cement pipe worth \$1,014,443, hollow building blocks worth \$179,052, artificial stone worth \$101,548, cinder blocks worth \$39,617, and other articles such as laundry tubs, garden furniture, burial vaults, Haydite blocks and slabs, etc.

THE CEMENT PRODUCTS INDUSTRY, 1933

MATERIALS USED IN MANUFACTURING CEMENT PRODUCTS, 1932 and 1933.

Materials	Unit of measure	1 9 3 2	Cost at works	1 9 3 3	Cost at works
		Quantity		Quantity	
Portland cement	brl.	106,275	\$ 255,006	70,994	\$ 161,407
Lime	bush.	538	259	427	220
Sand	cu. yd.	26,337	32,883	24,485	29,220
Gravel	cu. yd.	24,968	30,871	9,528	10,866
Crushed stone	cu. yd.	10,740	17,424	9,539	11,960
Cinders	cu. yd.	7,351	8,467	...	9,277
Reinforcing	xx	...	208,307	...	244,292
Other materials	xx	...	120,290	...	150,382
Boxes, crates, lumber, etc.	xx	...	23,976	...	7,901
TOTAL	xx	...	697,483	...	625,525

PRODUCTS MADE, BY PROVINCES, 1933.

Products	Nova Scotia and New Brunswick	Quebec	Ontario	Manitoba, Saskatchewan and Alberta	British Columbia	CANADA
	\$	\$	\$	\$	\$	\$
Cement bricks	200	3,345	4,140	...	1,000	8,685
Hollow building blocks ..	3,860	50,267	122,689	986	1,250	179,052
Drain pipe, sewer pipe, water pipe and culvert tile	4,224	806,138	133,300	26,559	44,422	1,014,443
Artificial stone .....	...	63,000	37,417	130	1,001	101,548
Cement posts, poles, etc. ....	...	12,382	694	...	...	13,076
Cement laundry tubs ....	...	...	19,576	...	3,275	22,851
Cinder blocks .....	...	240	39,377	...	...	39,617
Stucco .....	...	...	5,424	4,460	9,367	19,251
All other products	4,548	3,279	187,568	1,524	1,556	198,475
TOTAL	12,832	938,651	550,135	33,459	61,871	1,596,998

Corresponding data relating to the cement products industry for 1934 will be published on receipt of complete returns from the operators.

WORLD PRODUCTION OF CEMENT, 1930-1934

(Metric tons (000's omitted)

From Statistical Year Book of the League of Nations

Country	1930	1931	1932	1933	1934(x)
Africa (x)	529	541	...	...	...
Canada	1,872	1,619	737	385	553
United States	27,798	21,604	13,166	10,905	13,350
Argentina	384	536	501	514	...
Brazil (x)	87	167	149	226	324
Chili (x)	161	102	112	139	203
India (British)	573	588	592	623	749
Japan (a)	3,748	3,615	3,731	4,784	5,019
China (e)	178	235	192	270	...

WORLD PRODUCTION OF CEMENT, 1930-1934 (concluded)

Metric tons (000's omitted)

From Statistical Year Book of the League of Nations

Country	1930	1931	1932	1933	1934(x)
U.S.S.R. (Russia)	3,115	3,336	3,481	2,732	3,600
Germany (b)	5,511	3,711	2,795	3,464	...
Belgium (c)	3,050	2,465	2,100	1,950	1,900
Spain	1,859	1,650	1,425	1,407	...
France	4,989	4,908	5,028	...	...
Italy	5,482	5,077	5,177	3,535	4,018
Poland	852	546	354	411	716
United Kingdom	5,111	5,986	4,320	4,470	5,280
Australia (d)	708	396	251	326	...
Others (x)	8,053	7,138	7,189	12,361	...
TOTAL (x)	72,000	62,200	49,300	48,500	...

(x) Estimate.

(a) Including Korea, Formosa and Kwantung.

(b) Works affiliated to the German Cement Association.

(c) Artificial cement.

(d) Twelve months ending June 30.

(e) Total shipments from "customs ports" in China excluding Manchuria.

Data for 1934 not yet complete.

NOTE - The table covers, as far as possible, the total of natural cements and artificial cements, Portland or other.

DIRECTORY OF CEMENT MANUFACTURING COMPANIES, 1934.

<u>Name</u>	<u>Head Office Address</u>	<u>Location of Plant</u>
<u>QUEBEC</u> -		
Canada Cement Co. Ltd.	Box 290, Station B, Montreal	Hull and Montreal East
National Cement Co. Ltd.	Box 170, Station Hochelaga, Montreal	Montreal East.
<u>ONTARIO</u> -		
Canada Cement Co. Ltd.	Box 290, Station B, 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.	Box 290, Station B, Montreal, P.Q.	Fort Whyte and Steep Rock.
<u>ALBERTA</u> -		
Canada Cement Co. Ltd.	Box 290, Station B, Montreal, P.Q.	Exshaw.
<u>BRITISH COLUMBIA</u> -		
British Columbia Cement Co. Ltd.	Belmont House, Victoria	Bamberton and Tod Inlet.
Coast Cement Co. Ltd.	Granville Island, Vancouver	Granville Island.

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