

DEPARTMENT OF TRADE AND COMMERCE
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MANUFACTURES OF THE NON-METALLIC MINERALS

THE MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS INDUSTRY, 1934.

Statistics for the miscellaneous non-metallic mineral products industry cover the operation of those concerns in Canada which manufactured articles from non-metallic minerals but which could not be classified to any of the other industries in this group. This report completes the mimeographed series on the Manufactures of the Non-Metallic Minerals for 1934. Copies of these bulletins may be obtained upon request from the Dominion Bureau of Statistics at Ottawa.

In 1934 there were 33 plants in this miscellaneous industry of which 8 made gypsum wallboard, wall plasters and other gypsum products, 6 made foundry facings and supplies, 4 made asphalt road emulsion, 2 made carbon and graphite electrodes, 1 made mica plate, etc., 1 made rock wool, 1 made frit for enamelling, 1 made asphalt battery boxes, 1 made wax and chalk crayons, 1 made tailors' wax chalk, 1 pulverized non-metallic ores for fillers, etc., 4 made refractory cements, 1 calcined petroleum coke, and 1 made quicklime from imported stone.

In 1934 these establishments employed capital amounting to \$7,034,696 of which \$5,278,966 was invested in land, plants and equipment. The average number of employees was 481 including 94 on salaries and 387 on wages. Payments for salaries and wages totalled \$494,486 for the year. Materials used in manufacturing cost \$1,202,820 and the value of products was \$3,874,347.

The 3 firms engaged in making gypsum products operated 8 individual manufacturing plants, 1 being in New Brunswick, 2 in Quebec, 2 in Ontario, 2 in Manitoba, 1 in Alberta, and 1 in British Columbia. An average of 173 workers were employed in these factories in 1934 and the production of wallboard, wall plaster, blocks, tile, etc., was valued at \$1,477,646. This output did not include the hardwall plaster made by the gypsum mining companies which did not operate wallboard plants as it was not possible to separate the calcining from the mining operations of these concerns. A separate report has been issued on the gypsum mining industry.

Production of foundry facings and partings was valued at \$59,486 in 1934, core oil at \$23,162, and core compounds at \$8,968. The 6 works which manufactured these foundry supplies employed 31 persons throughout the year and paid out \$30,282 for salaries and wages. The cost of materials was given at \$57,516 and the value of all products at \$111,448.

Asphalt road emulsions were made in 4 establishments and output was worth \$218,887 at factory prices. Only 22 workers were employed and \$44,056 was paid out in salaries and wages.

For the other commodities in this industry the details of production cannot be shown separately because of the fact that there were only one or two producers in each case.

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Table 1 - DISTRIBUTION OF PLANTS IN THE MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS INDUSTRY, BY PROVINCES AND PRINCIPAL SUB-GROUPS, 1934.

Provinces	Gypsum products	Carbon electrodes	Foundry facings and supplies	Mica products	Asphalt emulsions	Miscellaneous	TOTAL
Nova Scotia .....	...	...	...	...	...	1	1
New Brunswick	1	...	...	...	...	...	1
Quebec	1	1	1	1	2	4	10
Ontario	2	1	5	...	1	7	16
Manitoba	2	...	...	...	...	...	2
Alberta	1	...	...	...	...	...	1
British Columbia .	1	...	...	...	1	...	2
CANADA	8	2	6	1	4	12	33

Table 2 - PRINCIPAL STATISTICS, 1922 - 1934.

Years	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$
1922	15	1,406,379	997	251,084	461,707	1,186,151	724,444
1923	27	1,830,006	2,154	500,932	804,359	2,216,501	1,412,142
1924	22	1,108,129	1,133	428,127	562,170	1,363,251	801,081
1925	22	2,161,704	718	518,437	680,238	2,068,865	1,388,527
1926	20	2,528,488	930	696,906	910,979	2,530,836	1,619,857
1927	20	6,767,534	965	774,643	1,583,667	4,124,510	2,540,843
1928	17	8,331,500	995	1,117,773	1,790,404	4,799,640	3,009,236
1929	23	9,747,157	982	1,224,582	2,035,905	6,000,697	3,964,792
1930	24	11,197,039	784	925,140	1,730,577	4,174,602	2,444,025
1931	31	8,427,102	582	715,468	1,203,543	3,727,158	2,523,615
1932	31	7,561,645	531	531,444	872,048	2,759,709	1,887,661
1933	33	7,296,350	416	426,885	897,258	2,728,572	1,831,314
1934	33	7,034,696	481	494,486	1,202,820	3,874,347	2,671,527

Table 3 - PRINCIPAL STATISTICS, BY PROVINCES, 1933 and 1934.

Provinces	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of materials at works	Selling value of products at works	Value added by manufacturing
		\$		\$	\$	\$	\$
1933							
Quebec	10	3,802,378	167	175,350	499,253	1,022,901	523,648
Ontario	16	2,562,521	180	199,505	250,874	1,385,853	1,134,979
Other provinces	7	931,451	69	52,030	147,131	319,818	172,687
CANADA	33	7,296,350	416	426,885	897,258	2,728,572	1,831,314
1934							
Quebec	10	3,762,195	171	175,624	396,831	990,820	593,989
Ontario	16	2,141,923	220	235,844	481,880	2,143,686	1,661,806
Other provinces	7	1,130,578	90	83,018	324,109	739,841	415,732
CANADA	33	7,034,696	481	494,486	1,202,820	3,874,347	2,671,527

Table 4 - SIZE OF ESTABLISHMENTS ACCORDING TO PRODUCTION, NUMBER OF EMPLOYEES AND CAPITAL EMPLOYED, 1934.

	Number of plants	Capital employed \$	Number of employees	Selling value of products at works \$
(a) PRODUCTION				
Under \$10,000	6	78,116	14	31,961
\$10,000 to \$25,000	5	213,245	24	83,640
\$25,001 to \$50,000	8	748,134	82	307,467
\$50,001 to \$100,000	4	216,196	37	286,905
\$100,001 to \$250,000	6	1,635,425	120	955,753
Over \$250,000	4	4,143,580	204	2,208,621
TOTAL	33	7,034,696	481	3,874,347
(b) EMPLOYEES				
1 or 2	5	104,611	8	70,179
3 to 10	15	976,590	88	659,858
11 to 20	7	953,988	107	841,293
Over 20	6	4,999,507	278	2,303,017
TOTAL	33	7,034,696	481	3,874,347
(c) CAPITAL				
Under \$25,000	9	72,020	31	161,313
\$25,000 to \$100,000	11	584,730	95	486,567
\$100,001 to \$500,000	10	2,351,543	173	1,422,900
Over \$500,000	3	4,026,403	182	1,803,567
TOTAL	33	7,034,696	481	3,874,347

Table 5 - CAPITAL EMPLOYED, BY PROVINCES, 1933 and 1934.

Provinces	Present value of lands, build- ings, machinery and equipment	Inventory value of materials on hand and stocks in process	Inventory value of finished products on hand	Operating capital (cash, bills re- ceivable, etc.)	TOTAL CAPITAL EMPLOYED
	\$	\$	\$	\$	\$
1933					
Quebec	3,151,111	388,278	59,560	119,429	3,802,378
Ontario	1,545,352	180,773	185,987	650,409	2,562,521
Other provinces ..	776,442	43,500	52,463	143,046	931,451
CANADA	5,472,905	612,551	298,010	912,884	7,296,350
1934					
Quebec	3,001,891	428,217	40,615	291,472	3,762,195
Ontario	1,380,686	167,769	304,630	288,838	2,141,923
Other provinces ..	896,389	51,060	65,152	117,977	1,130,578
CANADA	5,278,966	647,046	410,397	698,287	7,034,696

Table 6 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1933 and 1934.

Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL	
	On salaries		On wages		TOTAL			SALARIES	AND WAGES
	Male	Female	Male	Female					
1933						\$	\$	\$	
Quebec	29	5	120	13	167	61,234	114,116	175,350	
Ontario	34	10	151	5	180	87,386	112,119	199,505	
Other provinces ..	4	1	63	1	69	9,672	42,358	52,030	
CANADA	67	16	314	19	416	158,292	268,593	426,885	

Table 6 - EMPLOYEES, SALARIES AND WAGES, BY PROVINCES, 1933 and 1934. (concluded)

Provinces	AVERAGE NUMBER OF EMPLOYEES					Salaries	Wages	TOTAL	
	On salaries		On wages		TOTAL			SALARIES	AND WAGES
	Male	Female	Male	Female					
						\$	\$	\$	
1 9 3 4									
Quebec	26	6	122	17	171	63,619	112,005	175,624	
Ontario	37	8	170	5	220	80,726	155,118	235,844	
Other provinces.	16	1	73	...	90	28,747	54,271	83,018	
CANADA	79	15	365	22	481	173,092	321,394	494,486	

Table 7 - WAGE-EARNERS, BY MONTHS, 1933 and 1934.

Months	1 9 3 3			TOTAL	1 9 3 4			TOTAL
	Male	Female			Male	Female		
January	284	18		302	290	15		305
February	272	13		285	343	20		363
March	292	18		310	362	23		385
April	296	8		304	362	23		385
May	322	22		344	391	20		411
June	329	22		351	393	23		416
July	330	21		351	378	22		400
August	342	24		366	369	26		395
September	331	23		354	370	22		392
October	369	23		392	392	25		417
November	321	22		343	375	26		401
December	281	22		303	315	25		340
AVERAGE	314	19		333	365	22		387

Table 8 - FUEL AND ELECTRICITY USED, 1933 and 1934.

		1	9	3	3		1	9	3	4
Kinds	Unit of measure	Quantity		Cost at works			Quantity		Cost at works	
					\$					\$
Coal, anthracite	short ton		53		510			58		566
Coal, bituminous - Canadian ..	short ton		1,275		6,663			1,341		7,144
Imported ..	short ton		2,902		16,300			3,395		21,135
Coal, lignite - Canadian	short ton		140		1,042			...		...
Coke	short ton		87		711			122		1,073
Gasoline	Imp. gal.		...		...			260		64
Kerosene	Imp. gal.		31		9			28		8
Fuel oil	Imp. gal.		380,492		16,094			395,861		21,829
Gas - Manufactured	M cu. ft.		31,979		2,960			77,726		7,666
Natural	M cu. ft.		5,989		1,813			5,277		1,619
Electricity purchased	K. W. H.		31,779,171		107,724			32,227,384		118,617
TOTAL	xx		...		153,826			...		179,721

Table 9 - POWER EQUIPMENT, 1933 and 1934.

	1 9 3 3		1 9 3 4	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines .....	...	...	2	45
Gasoline, gas and oil engines	1	3	1	3
Total Primary Power	1	3	3	48
Electric motors run by purchased power ..	627	7,813	519	6,956
TOTAL	628	7,816	522	7,004
Electric motors run by primary power	2	37	2	37
Total Electric Motors	629	7,850	521	6,993
Boilers	13	1,325	10	875

Table 10 - MATERIALS USED IN MANUFACTURING, 1933 and 1934.

Materials	Unit of measure	1 9 3 3	Cost at	1 9 3 4	Cost at
		Quantity	works	Quantity	works
			\$		\$
GYPSUM PRODUCTS GROUP --					
Crude gypsum	ton	18,397	68,977	17,481	80,328
Calcined gypsum	ton	30,784	198,393	50,960	299,716
Clay	ton	56	999	108	1,906
Hair	ton	35	4,151	58	7,541
Paper	ton	2,035	14,515	3,076	156,546
Retarder	ton	32	1,767	117	7,549
Sawdust or shavings	ton	150	1,545	327	2,202
Starch or paste	ton	90	11,494	97	12,695
Other materials	xx	...	35,203	...	34,534
Containers, etc.	xx	...	13,529	...	65,175
TOTAL	xx	...	481,873	...	668,222
OTHER GROUPS -					
Asphalt	Imp. gal.	902,881	63,461	391,268	30,740
Coal, bituminous	ton	999	5,943	1,643	10,851
Coal, anthracite	ton	...	...	279	1,209
Coke, petroleum	ton	10,285	120,709	10,852	121,550
Scrap carbon and electrodes	ton	1,695	26,473	2,028	29,077
Graphite	ton	86	3,745	90	3,802
Linseed oil	Imp. gal.	12,909	6,776	23,446	13,391
Mica	lb.	16,025	6,553	16,553	7,040
Pitch	ton	2,830	45,442	4,117	66,981
Tar	Imp. gal.	50,012	2,712	112,141	6,021
Wax	xx	...	4,335	...	5,403
Other materials	xx	...	118,138	...	212,737
Containers, etc.	xx	...	11,098	...	25,696
TOTAL	xx	...	415,385	...	534,598
GRAND TOTAL	xx	...	897,258	...	1,202,820

Table 11 - PRODUCTS, 1933 and 1934.

	Unit of measure	1 9 3 3	Selling value	1 9 3 4	Selling value
		Quantity	at works	Quantity	at works
			\$		\$
Gypsum products, including wallboard, blocks, tile, etc.	xx	...	980,589	...	1,477,646
Asphalt emulsion	Imp. gal.	1,574,629	175,996	1,248,757	218,887
Foundry facings and partings	ton	...	30,715	2,271	59,486
All other products, including carbon electrodes, mica splittings, core oil, porcelain, enamel frit, crayons, tailors' chalk, etc.	xx	...	1,541,272	...	2,118,328
TOTAL	xx	...	2,728,572	...	3,874,341

LIST OF FIRMS IN THE MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS INDUSTRY, 1934.

Names of Companies	Location of Plants	Main Products, 1934
(a) CARBON ELECTRODES		
Aluminum Company of Canada, Ltd.	Arvida, P.Q.	Carbon electrodes
Electro Metallurgical Co. of Canada, Ltd.	Welland, Ont.	Carbon electrodes

LIST OF FIRMS IN THE MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS INDUSTRY, 1934 (cont'd.)

<u>Names of Companies</u>	<u>Location of Plants</u>	<u>Main Products, 1934.</u>
(b) <u>FOUNDRIY FACINGS, ETC.</u>		
Canadian Foundry Supplies and Equipment, Ltd.	4295 Richelieu St., Montreal, P.Q., and 37 Niagara St., Toronto, Ont.	Foundry facings and partings, core oil, core compound, high temperature cements, and other foundry supplies.
Hamilton Facing Mill Co. Ltd.	Hess St. N., Hamilton, Ont.	Foundry facings and other foundry supplies.
Peterson Core Oil and Mfg. Co. of Canada, Ltd.	35 Dunbar Ave., Hamilton, Ont.	Core oil.
Stevens, Frederic B., of Canada, Ltd.	926 McDougal St., Windsor, Ont.	Foundry facings, buffing composition, core oil.
Wilkinson Foundry Facing and Supply Co., Ltd.	81 Florence St., Toronto, Ont.	Foundry facings, core compound, core oil, and other foundry supplies.
(c) <u>GYPSUM PRODUCTS</u>		
Canadian Gypsum Company Ltd., The	Hillsborough, N.B. Hagersville, Ont.	Gypsum wallboard, tile and wall plasters. Gypsum wallboard, tile and wall plasters.
Gypsum, Lime and Alabastine, Canada, Ltd.	Montreal, P.Q. Caledonia, Ont. Winnipeg, Man. East Calgary, Alberta New Westminster, B.C.	Gypsum wallboard, wall plasters and wallboard stucco. Gypsum wallboard, blocks, accoustical plasters, insulating plasters. Gypsum wallboard, tile, lath and wall plasters. Gypsum wallboard and wall plasters. Gypsum wallboard blocks, tile and wall plasters.
Western Gypsum Products, Ltd.	Winnipeg, Man.	Gypsum wallboard and wall plasters.
(d) <u>MICA TRIMMING</u>		
Mica Co. of Canada, Ltd.	Hull, P.Q.	Mica plate, cut and uncut mica, mica tubes and washers, etc.
(e) <u>MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS</u>		
Canadian Bitumels Co. Ltd.	Marion Ave., Montreal East, P.Q. 13 Industrial St., Leaside, Ont. North Vancouver, B.C.	Asphalt emulsion. Asphalt emulsion. Asphalt emulsion.
Canadian Botfield Refractories Co. Ltd.	171 Eastern Ave., Toronto, Ont.	High temperature cements.
Canada Crayon Company, Ltd.	383 George St., Peterborough, Ont.	Wax and chalk crayons.

LIST OF FIRMS IN THE MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS INDUSTRY, 1934 (concluded)

<u>Names of Companies</u>	<u>Location of Plants</u>	<u>Main Products, 1934</u>
(e) <u>MISCELLANEOUS NON-METALLIC MINERAL PRODUCTS (concluded)</u>		
Canadian Battery and Bonalite Co.	1165 McDougall Ave., Windsor, Ont.	Battery boxes, etc.
Colas Roads, Ltd.	Lachine, P.Q.	Asphalt emulsion.
Dominion Steel & Coal Corp. Ltd.	Sydney, N.S.	Quicklime from imported limestone.
Ferro Enameling Co. of Canada, Ltd.	629 Wellington St., Ottawa, Ont.	Porcelain enamel frit.
King Refractories Ltd.	Fort Erie, Ont.	High temperature refractories.
Milloy, M.	5649 Eadie St., Montreal, P.Q.	Tailors wax chalk.
Pulverized Products Ltd.	4820 4th Ave., Rosemont, Montreal, P.Q.	Ground mineral fillers.
Republic Carbon Co.	246 Stanley St., Niagara Falls, Ont.	Calcined petroleum coke.
Quigley Company of Canada, Ltd.	191 - 20th Ave., Lachine, P.Q.	High temperature cements, etc.
Spun-Rock Wools Ltd.	65 Ormond St.N., Thorold, Ont.	Rock wool.
Walker Hind Sutherland Ref. Ltd.	309 St. Ferdinand St., Montreal, P.Q.	Refractory cements.

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