

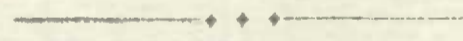
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DOMINION BUREAU OF STATISTICS

CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY

REPORT
on the
BROOM, BRUSH & MOP INDUSTRY
in
CANADA
1928



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



OTTAWA
1930

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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
(OTTAWA - CANADA)

Dominion Statistician:
Chief, Industrial Census:

R.H. Coats, B.A., F.S.S., (Hon), F.R.S.C.
J.C. Macpherson

THE BROOM, BRUSH AND MOP INDUSTRY IN CANADA, 1928

Ottawa, January 1930.- A report is herewith presented on the Broom, Brush and Mop Industry in Canada during the calendar year 1928. There were 76 establishments in operation and were located by provinces as follows:- Ontario, 43; Quebec, 23; British Columbia, 4; New Brunswick, 1; Nova Scotia, 1; Prince Edward Island, 1; Manitoba, 2; Saskatchewan, 1. To prevent disclosure of information concerning the operations of individual establishments, statistics for the provinces of New Brunswick, Nova Scotia and Prince Edward Island have been combined under the head of "Maritime Provinces." Similar procedure has been adopted regarding Saskatchewan and Manitoba, these being shown as "Prairie Provinces."

PRINCIPAL STATISTICS

A summary of the principal statistics of the industry is given in Table 1 for the calendar year 1928.

Table 1. - Principal Statistics, 1928.

		Broom Factories	Brush Factories	Broom & Brush Factories	Mop Factories	All Factories
Establishments	No.	50	20	2	4	76
Capital Investment	\$	1,329,366	1,812,302	1,136,067	85,432	4,363,107
Employees on Salaries -						
Male	No.	64	76	40	6	186
Female	No.	15	40	14	2	71
Salaries	\$	101,152	207,931	136,416	27,238	472,737
Employees on wages (average number)-						
Male	No.	438	245	209	24	916
Female	No.	37	107	77	10	231
Wages	\$	284,551	282,429	271,745	23,427	862,152
Outside piece-workers -						
Male	No.	3	-	-	-	3
Amount Paid	\$	2,030	-	-	-	2,030
Cost of fuel & electricity	\$	11,033	11,658	20,856	1,025	44,572
Power installation -						
Units	No.	73	65	47	9	194
Capacity	H.P.	341	530	730	50	1,651
Cost of materials	\$	615,757	657,287	610,841	68,909	1,952,794
Gross value of products	\$	1,239,346	1,830,472	1,173,728	157,499	4,401,045
Net value of products	\$	623,589	1,173,185	562,887	88,590	2,448,251

THE BOARD OF
 DIRECTORS OF THE
 FEDERAL RESERVE SYSTEM

RESOLUTION
 OF THE BOARD OF DIRECTORS
 OF THE FEDERAL RESERVE SYSTEM
 CONCERNING THE
 REVISION OF THE
 FEDERAL RESERVE
 CHECKS

MINUTE REPORT

That the Board of Directors of the Federal Reserve System has adopted the following resolution:

Resolved, That the Board of Directors of the Federal Reserve System do hereby recommend to the Congress that the Secretary of the Treasury be authorized to revise the Federal Reserve Checks so as to make them more uniform in form and more easily recognizable, and that the Secretary be authorized to make such other changes as he may deem desirable in the Federal Reserve Checks to conform to the recommendations of the Board of Directors.

Date	Action	Particulars	Remarks
1934	Board	Adopted	Resolution
1934	Board	Adopted	Resolution
1934	Board	Adopted	Resolution
1934	Board	Adopted	Resolution
1934	Board	Adopted	Resolution
1934	Board	Adopted	Resolution
1934	Board	Adopted	Resolution
1934	Board	Adopted	Resolution

Size of Establishments.

2.

In view of the tendency towards concentration in industrial enterprises, a series of tables has been prepared presenting in a threefold way the size of establishments in the broom, brush and mop industry measured by (a) capital investment, (b) gross value of production and (c) the number of persons employed, all within certain specified groups or limitations for the calendar years 1927 and 1928. The tables further indicate the movement of capital, production and employment within the industry.

In 1927 the number of establishments reporting was 80 with a total capitalization of \$3,976,645, - a gross value of production of \$4,227,677 and a total employment of 1,370. Fourteen factories had a total capital investment of \$3,152,570 or 79.2 per cent of the total capitalization with an average investment of \$225,184 per establishment. Eighteen establishments had a gross value of production of \$3,444,276 or 81.4 per cent of the total output with an average production of \$191,349 per establishment. In employment 19 factories had 1,072 persons on the payroll, - an average of 56 persons per establishment and 78.2 per cent of the total employment.

In 1928 the number of establishments reporting was 76 with a total capitalization of \$4,363,107, - a gross value of production of \$4,401,045 and a total employment of 1,404. Fifteen factories had a total capital investment of \$3,516,793 or 80.6 per cent of the total capitalization with an average investment of \$234,453 per establishment. Nineteen establishments had a gross value of production of \$3,564,047 or 80.9 per cent of the total output with an average production of \$187,581 per establishment. In employment 18 factories had 1,069 persons on the payroll, - an average of 59 persons per establishment and 76.1 per cent of the total employment.

Groups of Values	Capital			Capital		
	1927			1928		
	Estab- lish- ments	Total Capital	Average per es- tablish- ment	Estab- lish- ments	Total Capital	Average per es- tablish- ment
	No.	\$	\$	No.	\$	\$
Under \$50,000	66	824,075	12,486	61	846,314	13,874
\$50,000 to under \$100,000	8	524,329	65,541	6	452,735	75,456
\$100,000 to under \$200,000	1	187,115	187,115	4	672,089	168,022
\$200,000 to under \$500,000	2	742,437	371,218	2	703,844	351,922
\$500,000 to under \$1,000,000	3	1,698,689	566,229	3	1,688,125	562,708
\$1,000,000 and over	-	-	-	-	-	-
TOTAL	80	3,976,645	49,708	76	4,363,107	57,409

Groups of Values	Production			Production		
	1927			1928		
	Estab- lish- ments	Average value of production	Average Value	Estab- lish- ments	Average value of production	Average Value
	No.	\$	\$	No.	\$	\$
Under \$50,000	62	783,401	12,636	57	836,998	14,684
\$50,000 to under \$100,000	11	772,445	70,223	11	779,861	70,897
\$100,000 to under \$200,000	1	101,939	101,939	2	231,430	115,715
\$200,000 to under \$500,000	4	1,307,499	326,875	4	1,318,929	329,732
\$500,000 to under \$1,000,000	2	1,262,393	631,196	2	1,233,827	616,913
\$1,000,000 and over	-	-	-	-	-	-
TOTAL	80	4,227,677	52,846	76	4,401,045	57,908

Groups of Employees	Employment			Employment		
	1927			1928		
	Estab- lish- ments	Total Employ- ees	Average Employ- ees	Estab- lish- ments	Total Employ- ees	Average Employ- ees
	No.	No.	No.	No.	No.	No.
Under 20	61	298	5	58	335	6
20 to under 50	14	424	30	13	447	34
50 but under 100	2	179	89	1	78	78
100 but under 200	2	253	116	4	544	136
200 but under 500	1	216	216	-	-	-
500 and over	-	-	-	-	-	-
TOTAL	80	1,370	17	76	1,404	18

The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land parcels described herein:

The land parcels described herein are situated in the County of [County Name], State of [State Name]. The parcels are described as follows:

1. A certain parcel of land, situated in the [Township Name] Township, [County Name] County, [State Name] State, containing [Area] acres, more or less, and being more particularly described as follows: [Description]

Section	Area (Acres)	Owner	Remarks
1	10.00	[Owner Name]	[Remarks]
2	10.00	[Owner Name]	[Remarks]
3	10.00	[Owner Name]	[Remarks]
4	10.00	[Owner Name]	[Remarks]
5	10.00	[Owner Name]	[Remarks]
6	10.00	[Owner Name]	[Remarks]
7	10.00	[Owner Name]	[Remarks]
8	10.00	[Owner Name]	[Remarks]
9	10.00	[Owner Name]	[Remarks]
10	10.00	[Owner Name]	[Remarks]
11	10.00	[Owner Name]	[Remarks]
12	10.00	[Owner Name]	[Remarks]
13	10.00	[Owner Name]	[Remarks]
14	10.00	[Owner Name]	[Remarks]
15	10.00	[Owner Name]	[Remarks]
16	10.00	[Owner Name]	[Remarks]
17	10.00	[Owner Name]	[Remarks]
18	10.00	[Owner Name]	[Remarks]
19	10.00	[Owner Name]	[Remarks]
20	10.00	[Owner Name]	[Remarks]
21	10.00	[Owner Name]	[Remarks]
22	10.00	[Owner Name]	[Remarks]
23	10.00	[Owner Name]	[Remarks]
24	10.00	[Owner Name]	[Remarks]
25	10.00	[Owner Name]	[Remarks]
26	10.00	[Owner Name]	[Remarks]
27	10.00	[Owner Name]	[Remarks]
28	10.00	[Owner Name]	[Remarks]
29	10.00	[Owner Name]	[Remarks]
30	10.00	[Owner Name]	[Remarks]
31	10.00	[Owner Name]	[Remarks]
32	10.00	[Owner Name]	[Remarks]
33	10.00	[Owner Name]	[Remarks]
34	10.00	[Owner Name]	[Remarks]
35	10.00	[Owner Name]	[Remarks]
36	10.00	[Owner Name]	[Remarks]
37	10.00	[Owner Name]	[Remarks]
38	10.00	[Owner Name]	[Remarks]
39	10.00	[Owner Name]	[Remarks]
40	10.00	[Owner Name]	[Remarks]
41	10.00	[Owner Name]	[Remarks]
42	10.00	[Owner Name]	[Remarks]
43	10.00	[Owner Name]	[Remarks]
44	10.00	[Owner Name]	[Remarks]
45	10.00	[Owner Name]	[Remarks]
46	10.00	[Owner Name]	[Remarks]
47	10.00	[Owner Name]	[Remarks]
48	10.00	[Owner Name]	[Remarks]
49	10.00	[Owner Name]	[Remarks]
50	10.00	[Owner Name]	[Remarks]
51	10.00	[Owner Name]	[Remarks]
52	10.00	[Owner Name]	[Remarks]
53	10.00	[Owner Name]	[Remarks]
54	10.00	[Owner Name]	[Remarks]
55	10.00	[Owner Name]	[Remarks]
56	10.00	[Owner Name]	[Remarks]
57	10.00	[Owner Name]	[Remarks]
58	10.00	[Owner Name]	[Remarks]
59	10.00	[Owner Name]	[Remarks]
60	10.00	[Owner Name]	[Remarks]
61	10.00	[Owner Name]	[Remarks]
62	10.00	[Owner Name]	[Remarks]
63	10.00	[Owner Name]	[Remarks]
64	10.00	[Owner Name]	[Remarks]
65	10.00	[Owner Name]	[Remarks]
66	10.00	[Owner Name]	[Remarks]
67	10.00	[Owner Name]	[Remarks]
68	10.00	[Owner Name]	[Remarks]
69	10.00	[Owner Name]	[Remarks]
70	10.00	[Owner Name]	[Remarks]
71	10.00	[Owner Name]	[Remarks]
72	10.00	[Owner Name]	[Remarks]
73	10.00	[Owner Name]	[Remarks]
74	10.00	[Owner Name]	[Remarks]
75	10.00	[Owner Name]	[Remarks]
76	10.00	[Owner Name]	[Remarks]
77	10.00	[Owner Name]	[Remarks]
78	10.00	[Owner Name]	[Remarks]
79	10.00	[Owner Name]	[Remarks]
80	10.00	[Owner Name]	[Remarks]
81	10.00	[Owner Name]	[Remarks]
82	10.00	[Owner Name]	[Remarks]
83	10.00	[Owner Name]	[Remarks]
84	10.00	[Owner Name]	[Remarks]
85	10.00	[Owner Name]	[Remarks]
86	10.00	[Owner Name]	[Remarks]
87	10.00	[Owner Name]	[Remarks]
88	10.00	[Owner Name]	[Remarks]
89	10.00	[Owner Name]	[Remarks]
90	10.00	[Owner Name]	[Remarks]
91	10.00	[Owner Name]	[Remarks]
92	10.00	[Owner Name]	[Remarks]
93	10.00	[Owner Name]	[Remarks]
94	10.00	[Owner Name]	[Remarks]
95	10.00	[Owner Name]	[Remarks]
96	10.00	[Owner Name]	[Remarks]
97	10.00	[Owner Name]	[Remarks]
98	10.00	[Owner Name]	[Remarks]
99	10.00	[Owner Name]	[Remarks]
100	10.00	[Owner Name]	[Remarks]

The above information was obtained from the records of the Department of the Interior, Bureau of Land Management, and is true and correct to the best of our knowledge and belief.

This document is a true and correct copy of the original as filed with the Department of the Interior, Bureau of Land Management, on [Date].

The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the land parcels described herein:

The land parcels described herein are situated in the County of [County Name], State of [State Name]. The parcels are described as follows:

Production

The quantity and value of the various kinds of brooms, brushes and mops manufactured during the calendar year 1928 is given by provinces in Table II. The total value of production rose from \$4,227,577 in 1927 to \$4,401,045 in 1928, an increase of \$173,368. In order of importance brooms occupy the premier position with \$1,427,891 followed by brushes, paint, with \$1,040,451 whilst brushes made of corn or fibre take third place with \$384,115.

Table II.- Production, by provinces, 1928.

Principal Products	CANADA		Ontario		Quebec		
	Quant.	Value \$	Quant.	Value \$	Quant.	Value \$	
Brooms, all kinds	Doz. 280,653	1,427,891	130,323	676,877	58,659	339,248	
Whisks	" 36,958	82,628	30,628	73,014	1,972	2,752	
Brushes made of hair or bristles	" 51,381	360,184	40,343	281,874	8,528	55,964	
Brushes, tooth	" 38,068	109,326	11,916	30,247	26,152	79,079	
Brushes made of corn or fibre	" 282,103	384,115	256,771	298,496	900	5,000	
Brushes, paint	" 294,396	1,040,451	180,906	653,912	-	-	
Brushes, all other	" 90,513	390,115	43,098	281,328	16,283	17,308	
Mops, all kinds	" 54,530	349,095	24,344	226,295	26,541	107,854	
All other products	-	257,240	-	150,992	-	49,054	
TOTAL	-	4,401,045	-	2,673,035	-	656,259	
		British Columbia	Maritime Provinces	Prairie Provinces			
		Quant.	Value \$	Quant.	Value \$	Quant.	Value \$
Brooms	Doz. 20,066	118,874	29,850	147,917	31,755	144,975	
Whisks	" 1,428	2,774	2,930	4,088	-	-	
Brushes made of hair or bristles	" 240	7,000	2,270	15,346	-	-	
Brushes, tooth	" -	-	-	-	-	-	
Brushes made of corn or fibre	" 3,600	29,100	20,832	51,519	-	-	
Brushes, paint	" -	-	113,490	386,539	-	-	
Brushes, all other	" 1,500	10,500	24,632	80,979	-	-	
Mops, all kinds	" 720	7,911	2,925	7,035	-	-	
All other products	" -	4,168	-	53,026	-	-	
TOTAL	-	180,327	-	746,449	-	144,975	

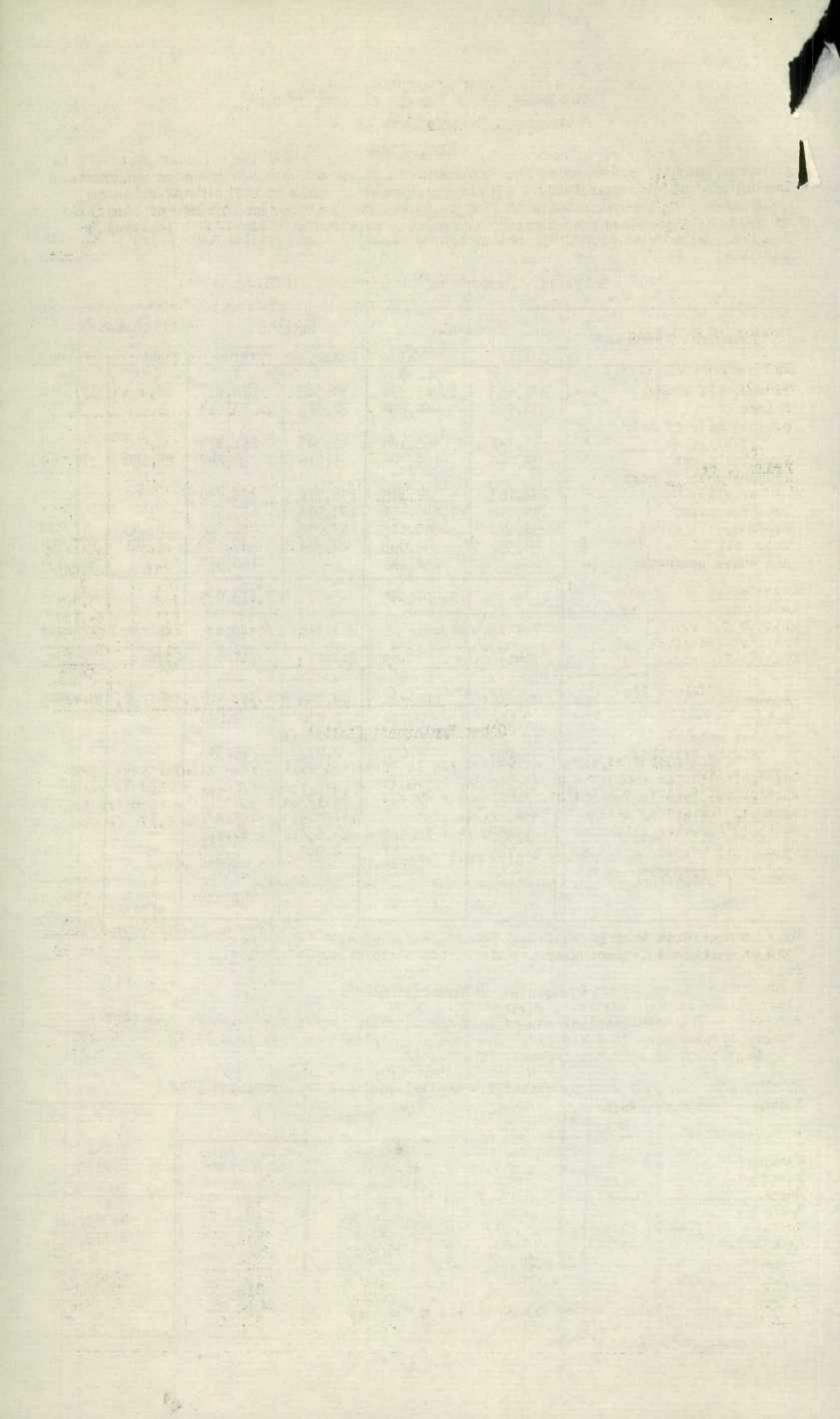
Note: Data here given do not necessarily represent the total Canadian production of these commodities, since they are also produced in other industries.

Capital Investment

The total capital employed in the industry during the calendar year 1928 is shown by provinces in Table III. The total capitalization rose from \$3,976,645 in 1927 to \$4,363,107 in 1928, an increase of \$386,462.

Table III.- Capital employed, by provinces, 1928.

Provinces	Fixed Capital Land, buildings, fixtures, mach- inery, etc.	Working Capital		Total Capital
		Materials on hand, stocks, etc.	Cash, trad- ing & oper- ating accounts	
CANADA	\$ 1,847,813	\$ 1,559,156	\$ 956,138	\$ 4,363,107
Ontario	1,403,591	1,057,130	612,652	2,773,373
Quebec	282,095	146,192	178,079	606,366
British Columbia	68,393	63,860	23,873	156,126
Maritime Provinces	252,655	258,382	109,503	630,540
Prairie Provinces	131,079	53,592	32,031	196,702



Employees, Salaries and Wages.

The number of persons employed in the industry during the calendar year 1928 is given in Table IV by (a) classes of employment, (b) sex and (c) salary on wage payments. The total number of employees in all classes rose from 1,372 in 1927 to 1,404 in 1928, an increase of 32. There was a corresponding increase in the payroll, in 1927 the total being \$1,290,492, whilst the amount reported for 1928 was \$1,334,889, an increase of \$44,397. A further table IV(b) gives the statistics of employment by provinces.

Table IV (a). - Employees, salaries and wages, 1928.

Classes of Employment	Male No.	Female No.	Salaries and Wages \$
Employees on salaries	186	71	472,737
Employees on wages	916	231	862,152
TOTAL	1,102	302	1,334,889

Table IV(b).- Employees, Salaries and Wages, by provinces, 1928.

	Employees on Salaries			Employees on Wages			Totals	
	Male No.	Female No.	Salaries \$	Male No.	Female No.	Salaries \$	Employees	Salaries & Wages \$
Ontario	104	45	284,960	512	141	488,441	802	773,401
Quebec	35	13	64,640	200	25	119,527	273	184,167
British Columbia	7	2	19,461	34	7	46,595	50	66,056
Maritime Provinces	31	11	93,524	111	58	166,961	211	260,485
Prairie Provinces	9	-	10,152	59	-	40,628	68	50,780
TOTAL	186	71	472,737	916	231	862,152	1,404	1,334,889

Other Employment Statistics.

The number of days the factory was in operation during the calendar year 1928 together with the number of hours per day or shift and per week normally worked by wage earners is given in Table V(a). The number of wage earners employed in the industry is shown by sex and by months in Table V(b). The maximum number employed was 1,171 in the month of December whilst the minimum number reported was 1,018 in August.

Table V(a).- Days in operation and hours worked, 1928.

Number of establishments in operation	76	
	Total	Average per establishment
Days in operation on full time	19,119	251.6
Days in operation on part time	1,476	19.4
Days idle	2,509	33.0
Hours worked by wage earners per day or shift	668	9.0
Hours worked by wage earners per week	3,717	48.9

Table V(b). - Wage earners by months, 1928.

Months	Male No.	Female No.	Months	Male No.	Female No.
January	866	229	July	847	210
February	875	233	August	820	198
March	891	225	September	864	215
April	896	216	October	902	232
May	883	216	November	918	236
June	872	209	December	930	241
TOTAL				10,564	2,660
Average number employed during the year				916	231

Statement of Accounts

The following statement shows the results of the operations of the Canadian Pacific Railway Company for the year ending December 31, 1924.

Income from operations	1,234,567	1,123,456
Operating expenses	(876,543)	(765,432)
Operating income	358,024	358,024

Income from other sources	123,456	123,456
Expenses for other sources	(56,789)	(56,789)
Income from other sources	66,667	66,667
Total income	424,691	424,691
Expenses for depreciation	(123,456)	(123,456)
Expenses for interest	(87,654)	(87,654)
Expenses for taxes	(45,678)	(45,678)
Expenses for other items	(23,456)	(23,456)
Total expenses	(280,244)	(280,244)
Net income	144,447	144,447

The net income for the year ending December 31, 1924, is \$144,447, compared with \$144,447 for the corresponding year of 1923.

Income from operations	1,234,567	1,123,456
Operating expenses	(876,543)	(765,432)
Operating income	358,024	358,024

Income from other sources	123,456	123,456
Expenses for other sources	(56,789)	(56,789)
Income from other sources	66,667	66,667
Total income	424,691	424,691
Expenses for depreciation	(123,456)	(123,456)
Expenses for interest	(87,654)	(87,654)
Expenses for taxes	(45,678)	(45,678)
Expenses for other items	(23,456)	(23,456)
Total expenses	(280,244)	(280,244)
Net income	144,447	144,447

Materials Used.

The quantity and value of the various materials used in the industry is given by provinces in Table VI for the calendar year 1928. The total cost of all materials rose from \$1,789,972 in 1927 to \$1,952,794 in 1928, an increase of \$162,822.

Table VI. - Materials used, by provinces, 1928.

Principal Materials	CANADA		Ontario		Quebec	
	Quantity	Cost Value \$	Quantity	Cost Value \$	Quantity	Cost Value \$
Broom making materials -						
Broom corn lb.	5,579,813	502,984	2,794,967	234,791	1,147,547	102,151
Handles No.	3,421,693	125,631	1,613,616	62,609	855,871	26,782
Twine lb.	58,388	28,173	30,604	14,207	12,923	6,148
Wire "	345,704	18,769	185,870	9,187	84,950	4,877
Tacks "	9,875	767	4,950	348	2,085	180
Staples "	13,721	1,754	6,731	860	2,736	396
Velveteen yd.	6,201	2,488	3,146	1,216	949	369
All other materials	-	47,837	-	20,947	-	8,462
Mop Materials	-	113,821	-	79,261	-	30,189
Brush making materials -						
Handles No.	5,334,814	157,918	3,472,254	60,147	347,960	21,885
Fibres lb.	602,534	99,190	481,655	75,340	18,829	4,640
Bristles "	285,504	402,148	206,933	288,460	5,291	12,335
Horse Hair "	65,792	66,771	46,808	47,939	9,099	8,353
Wire (all kinds) -	-	22,945	-	18,495	-	477
Blocks No.	730,927	79,856	251,713	25,734	71,406	8,886
Backs for brushes "	108,228	9,067	6,028	1,148	35,000	3,419
Tin lb.	76,599	7,773	43,026	5,103	1,000	100
All other material	-	264,902	-	119,515	-	29,533
TOTAL	-	1,952,794	-	1,065,307	-	269,182
	British Columbia		Maritime Provinces		Prairie Provinces	
Principal Materials	Quant.	Cost Value \$	Quant	Cost Value \$	Quant.	Cost Value \$
Broom making materials -						
Broom corn lb.	426,640	44,737	495,929	51,015	714,730	70,290
Handles No.	225,680	9,041	289,766	12,036	436,760	15,163
Twine lb.	4,832	2,793	3,844	1,718	6,185	3,307
Wire "	21,667	1,445	19,377	1,079	33,840	2,181
Tacks "	1,530	115	460	29	850	95
Staples "	917	135	1,263	99	2,074	264
Velveteen yd.	1,003	320	243	145	860	438
All other materials	-	1,637	-	14,409	-	2,382
Mop Materials	-	4,371	-	-	-	-
Brush making materials -						
Handles No.	32,000	1,756	1,482,600	74,130	-	-
Fibres lb.	30,000	4,800	72,050	14,410	-	-
Bristles "	1,500	3,600	71,780	97,753	-	-
Horsehair "	2,200	2,400	7,685	8,079	-	-
Wire, (all kinds) -	-	1,000	-	2,973	-	-
Blocks No.	-	-	407,808	45,236	-	-
Backs for brushes "	67,200	4,500	-	-	-	-
Tin lb.	-	-	32,573	2,570	-	-
All other materials	-	5,779	-	110,075	-	-
TOTAL	-	88,429	-	435,756	-	94,120

STATE OF TEXAS

COMMISSIONERS OF THE LAND OFFICE

WHEREAS certain lands have been surveyed and are now ready for sale and the same are situated in the County of [County Name] State of Texas

and the same are offered for sale at public auction on the [Date] at [Location]

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Fuel Consumption.

The quantity and cost value, delivered at the factory, of the various classes of fuel and electricity used in this industry are shown in Table VII for the calendar year 1928. Coal of all kinds represented 83.2 per cent of the total cost of all fuel exclusive of electricity. Electricity purchased amounted to \$19,894 as compared with \$19,247 in 1927.

Table VII.-Fuel Consumption, by classes, 1928.

Classes of fuel	Unit of Measure	Quantity	Cost Value at Factory
Bituminous coal	ton	2,425	19,374
Anthracite coal	"	93	1,080
Lignite coal	"	5	68
Coke	"	111	1,309
Gasoline	Gallon	1,975	696
Oil (Fuel)	"	1,670	183
Wood	Cord	109	802
Gas	M.C. ft.	606	616
Other fuel	-	-	550
Electricity	-	-	19,894
TOTAL	-	-	44,572

Power Installation.

The power installed in brush and broom factories during 1928 is shown in Table VIII, by classes, number of units in each class and the horsepower according to manufacturers' rating. Electric motors operated by purchased power provided over 73.3 per cent of the motive power in the entire industry.

Table VIII.-Power Installation, by classes, 1928.

Classes of Power	No. of Units	Horsepower according to manufacturers' rating
Steam engines and turbines	7	435
Gasoline, gas and oil engines	1	5
Electric motors operated by purchased power	186	1,211
Total power used in manufacturing	194	1,651

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

REPORT OF THE CHEMISTS EMPLOYED IN THE INVESTIGATION OF THE
CAUSE OF THE EXPLOSION AT THE UNIVERSITY OF CHICAGO
ON APRIL 17, 1937

No.	Name	Position	Department	Address
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Imports and Exports.

Imports of brushes and brooms are shown in Table IX by countries for the calendar year 1928. Raw materials were imported to the value of \$961,421 and manufactured goods to the value of \$659,797.

Table IX. - Imports for consumption, by countries, 1928.

Articles Imported	United Kingdom	United States	Other Countries
	\$	\$	\$
Raw or partly manufactured materials -			
Bristles, animal	21,311	304,455	47,790
Bristles, n.o.p.	-	4,834	-
Broom, corn	166	451,774	2,435
Hair, cleaned or uncleaned	4,476	122,209	1,971
Manufactured articles -			
Brushes, tooth x	10,074	6,303	39,801
Brushes, paint	51,621	10,245	8,935
Brushes, toilet	60,503	55,452	111,975
Brushes, all other	58,016	196,835	41,232
Brooms and whisks	522	7,402	881
T O T A L	206,689	1,159,509	255,020

x Period from April 1st to December 31st, 1928.

Table X shows the exports of brushes and brooms, the produce of Canada, by countries for the calendar year 1928. The total value of exports amounted to \$165,730.

Table X. - Exports of Canadian Produce, by countries, 1928.

Articles Exported	United Kingdom	United States	Other Countries
	\$	\$	\$
Brushes, all kinds	78,244	678	59,055
Brooms and whisks	2,590	24	25,139
T O T A L	80,834	702	84,194

INDUSTRY AND TRADE

Table II. - Exports and Imports by Province and Territory, 1962-63. (Values in millions of dollars)

Province/Territory	Exports	Imports	Total
Alberta	1,250.0	1,000.0	2,250.0
Saskatchewan	1,100.0	900.0	2,000.0
Manitoba	1,000.0	800.0	1,800.0
Ontario	3,500.0	2,500.0	6,000.0
Quebec	2,500.0	1,500.0	4,000.0
Atlantic Provinces	500.0	300.0	800.0
Yukon	10.0	5.0	15.0
N.W.T.	5.0	2.0	7.0
Total	10,855.0	6,507.0	17,362.0

Source: Statistics Canada, Catalogue No. 22-601, Table 2.2.

Table II. - Exports and Imports by Province and Territory, 1962-63. (Values in millions of dollars)

Province/Territory	Exports	Imports	Total
Alberta	1,250.0	1,000.0	2,250.0
Saskatchewan	1,100.0	900.0	2,000.0
Manitoba	1,000.0	800.0	1,800.0
Ontario	3,500.0	2,500.0	6,000.0
Quebec	2,500.0	1,500.0	4,000.0
Atlantic Provinces	500.0	300.0	800.0
Yukon	10.0	5.0	15.0
N.W.T.	5.0	2.0	7.0
Total	10,855.0	6,507.0	17,362.0

Firms Manufacturing Brooms, Brushes and Mops in Canada, 1928.

PRINCE EDWARD ISLAND.

The Lohnes Broom Mfg. Co.	Lower Queen St.	Charlottetown
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NOVA SCOTIA.

Canadian National Institute for the Blind	172 Almon St.	Halifax
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NEW BRUNSWICK.

Ideal Brush Co. of Canada, Ltd.	Main Street	Hartland
T.S. Simms & Co. Ltd.	Main Street	Fairville, St. John Co.

QUEBEC.

Eugene Bordier American Broom Works	662 rue Azelda	Montreal St. Basile
B. Bourassa Canada Broom Co.	112 Nazareth St.	St. Raymond Montreal
J.L.A. Carbonneau Dominion Brush Mfg. Co. Ltd.	4361 De Bullion	Yamachiche Montreal
Fabrique Balais de Sorel	165 rue Sophie	Sorel
International Broom Co., Ltd.	St. Basile de Portneuf	Portneuf County
Gelinas, Onias	119 Belanger	Montreal
La Cie Jacques Cartier Enrg.	178 Dollard	Quebec
La Fabrique de Balais de Granby	Box 271	Granby
La Manufacture de Balais Montmagny Enrg.	Box 171, St. Nicholas	Montmagny
National Broom Co.	10 Arago St.	Quebec
Mann Brush Mfg. Co.	107 Rachel St. E.	Montreal
Montreal Association for the Blind	6980 Sherbrooke, W.	Montreal
Royal Broom Mfg. Co.	1238 Ave. de l'Eglise	Montreal
Standard Broom & Brush Co.	866 Craig St. E.	Montreal
Wheeler Broom, Mop and Life Belt Co.	713 St. Paul, W.	Montreal
L'Atelier des Avengles, Nazareth	1425 J Mance St.,	Montreal
Harold E. Smith	731 St. James St.	Montreal
Pro-phy-lac-tic Brush Co. (Canada) Ltd.	961 Inspector St.	Montreal

ONTARIO

John Adam & Son	Oak St.	Collingwood
The Boeckh Company, Ltd.	158-168 Adelaide W.	Toronto, 2
Brantford Brush Works	24 Grand St.	Brantford
Frank Burdette	129-133 McNab, N.	Hamilton
Canadian National Institute for Blind	331 Wellington St.	Ottawa
Canadian National Institute for Blind	1074 Queen St., E.	Toronto, 8.
City Broom Factory	81 Oxford	London
Maxwell J. Latam	5 Poplar St.	Lemington
E.G. Crawford	39 Britannia	Stratford
Dominion Toilet Brush Co. Ltd.	Main St.	Morrisburg
Fort William Broom Mfg. Co.	710 McTavish	Fort William
Fuller Brush Co. Ltd.	Sherman Ave., N.	Hamilton
Gibson Broom Co.	168-170 Christie	Toronto, 4
John R. Gurd	154 Wilson Ave.	London
Excelsior Broom Co.	856 5th Ave., E.	Owen Sound
Wilson Broom Co.	James St.	Ridgetown
H.L. Martin	112 Birch Avenue	Hamilton
Irwin Hamel	16 Neecker St.	Waterloo
John R. Haslam	211 Victoria Road	Tecumseh
Kingston Broom Co.	400 King St.	Kingston
London Brush Co.	86 King St.	London
McQuillan, Mrs. Sarah	215 Simcoe St.	Peterboro
Meakins & Sons, Ltd.	King St., E.	Hamilton
A. Muirhead Co., Ltd.	217 King St., E.	Toronto, 2
Royal Sterling Products, Ltd.		Harriston
Geo. Nelson Broom Mfg.	538 King E.	Toronto
The Superior Broom Co.	304-306 Nelson St.	Kingston



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Firms Manufacturing Brooms, Brushes and Mops in Canada, 1928.

ONTARIO (Cont'd.)

Walter Pearson	242 Liverpool St.	Guelph
Perfection Sanitary Brush Co.	1118 Queen St., W.	Toronto, 3
Royal Brush Co. Ltd.	43 Main St., E.	Hamilton
Rubberset Co., Ltd.	94 Wellington St.	Toronto 2
	H.O. Gravenhurst	
	Factory	
Andrew T. Schiedel	61 King St., E.	Kitchener
Sterling Broom Co.	60 Perth St.	Guelph
Stevens-Hepner Co., Ltd.		Port Elgin
Twisswire Brushes Ltd.	143 Berkley St.	Toronto, 2
Waterloo Broom & Brush Co.	34 Bridgeport Rd.	Waterloo
Frank Wehrle	1701 Dundas W.	Toronto, 3
West Taylor, Bickle & Co., Ltd.		Norwich
Walter Woods Ltd.	82 McNab St., N.	Hamilton
Brown Broom Mfg. Co.	174 Euclid Ave.	Toronto, 3
George Brandon	67 Beechwood Ave.	Hamilton

MANITOBA.

Standard Mfg. Co. Ltd.	744 Wall St.	Winnipeg
Canadian National Institute for Blind	Portage & Sherburn	Winnipeg

SASKATCHEWAN

Queen City Broom Works, Ltd.	1813 Wallace St.	Regina
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BRITISH COLUMBIA.

B.C. Brush Works Ltd.	891 Cambie St.	Vancouver
Crown Broom Works, Ltd.	304 First Ave., E.	Vancouver
Western Broom & Woodenware Ltd.	631 Kingsway	Vancouver

Mop Manufacturers.

Joseph E. Huard, prop. W.O.D. Mop Co.	1700 Papineau Ave.	Montreal, Que.
Novo Oil Co.	1726 Poupert St.	Montreal, Que.
Tarbox Bros. Ltd.	14 Morrow Ave.	Toronto, Ont.
Dust Control Co.	2246 Commercial Drive	Vancouver, B.C.

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