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ADVANCE REPORT

on

THE BRUSH AND BROOM INDUSTRY

1919 - 1920

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DOMINION BUREAU OF STATISTICS.

CENSUS OF INDUSTRY

OTTAWA, CANADA.

Dominion Statistician: R. H. Coats, B.A., F.S.S.  
Chief, Census of Industry: J. C. Macpherson.

THE BRUSH AND BROOM INDUSTRY IN CANADA, 1919 and 1920.

Ottawa, February, 1922: An advance report on the Brush and Broom Industry in Canada for the calendar year, 1920, with comparative figures for 1919, has been prepared by the Dominion Bureau of Statistics. The number of separate plants engaged in the industry for 1919 and 1920 is shown in the following summary by provinces:-

	1919				1920			
	Brooms	Brushes	Both	Total	Brooms	Brushes	Both	Total
	No.	No.	No.	No.	No.	No.	No.	No.
Ontario .....	34	12	1	47	32	11	2	45
Quebec .....	14	4	1	19	17	5	2	24
Br. Columbia ...	2	1	-	3	2	1	-	3
Prairie Provinces	4	-	-	4	3	-	-	3
Maritime Provinces	3	1	1	5	1	1	1	3
CANADA TOTALS ..	57	18	3	78	55	18	5	78

PRODUCTION.

The next table shows the quantity and selling value at the factory of the principal articles manufactured during the calendar years 1919 and 1920. The net increase in production over 1919 was \$396,070, there being a decrease in the production of brooms and whisks of \$290,606, while brushes, on the other hand, show an increase amounting to \$782,246. "Other products" also show a decrease from 1919 of \$17,900.

Articles made	Unit of measure	1919		1920	
		Quan.	Selling Val.	Quan.	Selling Val.
			\$		\$
Brooms .....	Doz.	258,838	2,295,085	289,021	2,007,479
Whisks .....	"	87,036	221,747	65,125	144,077
Brushes, (hair or bristles).	"	345,847	741,399	357,570	1,710,528
Brushes, (corn or fibre)	"	287,226	675,325	287,345	605,661
Brushes, all other ...	"	-	175,146	-	57,927
All other articles ...	-	-	173,213	-	155,315
TOTAL VALUE AT FACTORY			4,284,915		4,680,985

CAPITAL INVESTMENT.

The amount of capital invested in the industry is shown by items and provinces for the calendar years 1919 and 1920 in the following summary table:-

Provinces	Land, build- ings and fixtures	Machin- ery and tools	Materials on hand stocks in process, &c.	Cash, trad- ing and operating acct's. etc.	Total Capital
	\$	\$	\$	\$	\$
1919					
Ontario .....	223,613	279,520	896,543	321,059	1,720,735
Quebec .....	82,305	36,575	112,660	100,454	331,994
Br. Columbia ...	9,890	10,121	44,473	26,881	91,365
Prairie Provinces .	3,100	5,321	18,457	5,654	32,532
Maritime Provinces	227,258	111,131	411,604	60,793	810,786
CANADA	546,166	442,668	1,483,737	514,841	2,987,412



THE BRUSH AND BROOM INDUSTRY, 1919 and 1920

CAPITAL INVESTMENT, cont'd.

Provinces	Land, build- ings and fixtures	Machin- ery and tools	Materials on hand, stocks in process, &c.	Cash, trad- ing and operating accts. etc.	Total Capital
<u>1920</u>	\$	\$	\$	\$	\$
Ontario . . . . .	370,897	230,324	1,084,311	442,158	2,127,690
Quebec . . . . .	151,136	51,723	165,799	130,551	499,209
Br. Columbia . . . . .	11,748	13,516	72,047	19,715	117,026
Prairie Provinces . . . . .	-	4,416	14,254	3,477	22,147
Maritime Provinces . . . . .	274,605	92,167	553,014	94,394	1,014,180
<b>CANADA</b>	<b>308,386</b>	<b>392,146</b>	<b>1,889,425</b>	<b>690,295</b>	<b>3,730,252</b>

To prevent disclosure of the operations of individual concerns the statistics for the Prairie Provinces and for the Maritime Provinces have been combined.

EMPLOYEES, SALARIES AND WAGES.

The number of persons at employment by classes and sex and the amounts paid in salaries and wages in each class are presented in the accompanying table for the calendar years 1919 and 1920:-

Classes of employees	Number of employees		Salaries & Wages \$
	Male	Female	
<u>1919</u>			
Officers, superintendents, managers	72	3	160,871
Clerks, stenographers, etc. . . . .	95	58	177,639
Wage earners, average number . . . . .	787	283	729,653
Outside piece-workers . . . . .	10	12	1,785
<b>TOTALS</b>	<b>964</b>	<b>358</b>	<b>1,069,948</b>
<u>1920</u>			
Officers, superintendents, managers	72	1	181,387
Clerks, stenographers, etc. . . . .	79	56	205,243
Wage earners, average number . . . . .	846	306	822,026
Outside piece-workers . . . . .	3	3	885
<b>TOTALS</b>	<b>1,000</b>	<b>371</b>	<b>1,212,541</b>

A further classification of employees according to specified groups of weekly wage earners, age and sex is given below:-

Specified wage groups	Over 16 yrs.		Under 16 yrs.		Total Employees No.
	Male No.	Female No.	Male No.	Female No.	
<u>1919</u>					
Under \$5 per week . . . . .	7	1	5	3	16
\$5 to under \$10 per week . . . . .	103	175	27	19	324
\$10 " " \$15 " " . . . . .	179	79	3	2	263
\$15 " " \$20 " " . . . . .	238	14	-	-	252
\$20 " " \$24 " " . . . . .	163	-	-	-	163
\$24 " " \$28 " " . . . . .	93	-	-	-	93
\$28 " " \$30 " " . . . . .	14	-	-	-	14
\$30 per week and over . . . . .	26	-	-	-	26
<b>TOTALS</b>	<b>823</b>	<b>269</b>	<b>35</b>	<b>24</b>	<b>1,151</b>
<u>1920</u>					
Under \$5 per week . . . . .	6	2	3	-	11
\$5 to under \$10 per week . . . . .	106	177	8	2	293
\$10 " " \$15 " " . . . . .	151	107	10	1	269
\$15 " " \$20 " " . . . . .	196	18	-	-	214
\$20 " " \$24 " " . . . . .	147	3	-	-	150
\$24 " " \$28 " " . . . . .	104	-	-	-	104
\$28 " " \$30 " " . . . . .	25	-	-	-	25
\$30 per week and over . . . . .	70	-	-	-	70
<b>TOTALS</b>	<b>805</b>	<b>307</b>	<b>21</b>	<b>3</b>	<b>1,136</b>



THE BRUSH AND BROOM INDUSTRY, 1919 and 1920.

FUEL CONSUMPTION.

The quantity and cost value at the factory of the various classes of fuel consumed in 1919 and 1920 is shown by origin in the accompanying table:-

Kinds of fuel	Unit of measure	Canadian Origin		Foreign Origin	
		Quan.	Cost Val. \$	Quan.	Cost Value \$
<b>1919</b>					
Bituminous coal .....	ton	2,388	19,230	1,033	7,568
Anthracite coal .....	"	-	-	109	1,342
Coke .....	"	10	115	-	-
Gasoline .....	gal.	1,122	463	-	-
Fuel oil .....	"	50	9	-	-
Wood .....	cds.	173	1,241	-	-
Gas, art. and natural	m.c.ft.	1,135	709	-	-
Other fuel .....	-	-	322	-	-
<b>TOTAL</b>			<b>22,029</b>		<b>8,910</b>
<b>1920</b>					
Bituminous coal .....	ton	3,051	19,425	610	7,810
Anthracite coal .....	"	-	-	112	1,777
Lignite coal .....	"	10	163	-	-
Coke .....	"	11	23	-	-
Gasoline .....	gal.	960	459	-	-
Wood .....	cds.	149	1,078	-	-
Gas. art. & natural	m.c.ft.	1,405	1,235	-	-
Other fuel .....	-	-	567	-	-
<b>TOTAL</b>			<b>27,025</b>		<b>9,587</b>

POWER STATISTICS.

The kinds of power employed in the industry in 1919 and 1920 are presented in the following table by the number of units in each class, and the horse-power according to (a) manufacturers rating, and (b) power actually employed. The number and horse-power of boilers is also given:-

Types of Engines	1919			1920		
	No. of units	H.P. accg. to mfrs. rating	H.P. actual-ly used	No. of units	H.P. accg. to mfrs. rating	H.P. actual-ly used
Boilers .....	19	1,210	1,025	13	789	589
Engines -						
Steam .....	13	525	430	7	475	385
Gas & gasoline .....	2	15	15	2	6	6
Oil .....	1	2	2	-	-	-
All other powers .....	-	-	-	1	3	3
Electric motors .....	112	773	612	124	981	742
<b>TOTALS</b>	<b>147</b>	<b>2,525</b>	<b>2,084</b>	<b>147</b>	<b>2,254</b>	<b>1,725</b>

MISCELLANEOUS EXPENSES.

The charges for miscellaneous expense items are given below for the calendar years 1919 and 1920:-

Items of Expense	1919 \$	1920 \$
Cost of offices, works and machinery ...	56,399	61,484
Cost of power .....	9,748	13,323
Insurance (premiums for year only) .....	24,023	35,107
Taxes, municipal, provincial, federal ...	23,769	45,098
Contingencies, use of patents, etc. ....	30	55
Advertising expenses .....	34,444	54,813
Travelling expenses .....	72,628	105,182
Repairs to buildings and machinery ...	41,894	69,185
All other sundry expenses .....	247,275	299,302
<b>TOTALS</b>	<b>510,210</b>	<b>683,549</b>



THE BROOM AND BRUSH INDUSTRY, 1919 and 1920.

MATERIALS USED.

The quantity and the cost value delivered at the factory of the different classes of materials used during each of the years are given in the summary table below:-

Classes of Materials	Unit of measure	1919		1920	
		Quan.	Cost Val.	Quan.	Cost Val.
			\$		\$
Broom making materials	-				
Broom corn .....	lb.	7,039,134	1,083,424	7,308,622	894,972
Handles .....	No.	3,688,521	198,119	3,805,033	212,125
Twine .....	lb.	115,080	53,946	70,973	59,797
Wire .....	lb.	587,895	28,234	305,319	27,777
Tacks .....	lb.	31,889	2,558	12,279	1,362
Staples .....	lb.	31,863	4,009	11,798	1,634
Velveteen .....	yd.	13,205	8,198	11,136	8,402
All other materials	-	-	62,896	-	82,678
Brush making materials	-				
Lumber .....	m.ft.	739	32,741	1,226	50,464
Fibres .....	lb.	510,720	101,320	627,610	139,372
Bristles .....	lb.	143,981	308,904	335,184	604,772
Horsehair .....	lb.	78,187	52,958	69,723	60,172
Brush blocks .....	No.	928,876	62,120	1,032,979	72,133
Wire, brass, steel, etc.	lb.	132,102	16,742	91,894	16,648
Brush backs .....	No.	11,482	6,454	57,701	5,489
Tin .....	lb.	58,392	8,648	52,794	18,284
All other materials	-	-	111,586	-	197,914
<b>TOTAL COST OF MATERIALS</b>			<b>2,147,857</b>		<b>2,454,001</b>

LABOUR STATISTICS.

A summary of labour statistics for the years 1919 and 1920 is presented below:-

Working time	1919	1920
Total days plants were in operation -		
On full time .....	21,034	20,177
On part time .....	783	644
Idle .....	1,895	2,891
Average working time per day or shift	9.2	8.8
Average working time per week .....	53.5	50.7

PRINCIPAL STATISTICS BY PROVINCES.

The principal statistics of the industry are given by provinces in the accompanying table for the calendar years 1919 and 1920:-

Provinces	Estab-lish-ments	Capital	Employees on		Cost of Materials	Value of Products
			No.	Salaries		
<b>1919</b>						
Ontario .....	47	1,720,735	745	671,272	1,312,544	2,575,211
Quebec .....	19	331,994	164	108,044	280,810	538,411
Br. Columbia .	3	91,365	50	50,659	117,034	217,450
Prairie Provs.	4	32,532	34	39,323	87,376	154,360
Maritime Provs.	5	810,786	329	200,650	349,993	799,400
<b>CANADA TOTALS</b>	<b>78</b>	<b>2,987,412</b>	<b>1,322</b>	<b>1,069,948</b>	<b>2,147,857</b>	<b>4,284,911</b>
<b>1920</b>						
Ontario .....	45	2,127,690	770	741,828	1,555,084	2,856,671
Quebec .....	24	499,209	166	135,604	274,971	505,671
Br. Columbia.	3	117,026	54	58,119	131,055	254,360
Prairie Provs.	3	22,147	17	22,032	31,706	62,360
Maritime Provs.	3	1,014,180	364	254,958	461,185	1,001,660
<b>CANADA TOTALS</b>	<b>78</b>	<b>3,780,252</b>	<b>1,371</b>	<b>1,212,541</b>	<b>2,454,001</b>	<b>4,680,998</b>



THE BRUSH AND BROOM INDUSTRY, 1919 and 1920.

The quantity and value of imports and exports are given where possible for the calendar years 1919 and 1920 in the subjoined tables:-

(a) IMPORTS.

Items	1919		1920	
	Quan. lb.	Value \$	Quan. lb.	Value \$
<b>Raw Materials -</b>				
Broom corn		776,405		677,993
Bristles, animal . . . . .	166,642	284,647	324,536	669,183
Bristles, vegetable . . . . .	9,097	6,549	4,319	2,503
Horse hair, cleaned but not dyed	90,204	69,866	175,881	155,583
Other hair, cleaned or uncleaned but not dyed . . . . .	-	37,086	856,747	107,495
<b>Manufactured Materials -</b>				
Brooms and whisks . . . . .	-	14,154	-	15,235
Brushes, paint and varnish . . .	-	32,119	-	48,813
Brushes, toilet . . . . .	-	391,385	-	655,011
Brushes, all other, n.o.p. . . .	-	284,009	-	369,121
Other manufacturers of hair, n.o.p.	-	57,999	-	113,460
Total Imports, raw materials ..		1,174,555		1,612,757
" " Manufactured products		779,666		1,201,677
<b>GRAND TOTAL OF IMPORTS</b>		<b>1,954,221</b>		<b>2,814,434</b>

(b) EXPORTS

The value of goods, the produce of Canada, exported during the calendar years 1919 and 1920 is presented in the following statement:-

Articles	1919	1920
	Value \$	Value \$
Hair . . . . .	324,591	297,408
Brooms and whisks . . . . .	61,811	89,600
Brushes, all kinds . . . . .	81,570	233,909
<b>TOTAL VALUE OF EXPORTS</b>	<b>467,972</b>	<b>620,917</b>

EXPORTS BY SPECIFIED COUNTRIES.

Articles	United Kingdom	British Possessions	United States	Other Countries
<b>1919</b>	\$	\$	\$	\$
Hair			317,658	6,933
Brooms and whisks	41,431	15,593	25	4,762
Brushes, all kinds	24,534	37,827	4,595	14,614
<b>TOTALS</b>	<b>65,965</b>	<b>53,420</b>	<b>322,278</b>	<b>26,309</b>
<b>1920</b>				
Hair . . . . .	195	-	296,459	754
Brooms and whisks.	52,577	31,410	196	5,417
Brushes, all kinds	45,258	83,921	1,234	103,496
<b>TOTALS</b>	<b>98,030</b>	<b>115,331</b>	<b>297,889</b>	<b>109,667</b>

From the above table it will be seen that the volume of exports has increased over 1919 to the United Kingdom, British Possessions, and Other countries, while on the other hand that to the United States has decreased.

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