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DEPARTMENT OF TRADE AND COMMERCE
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CENSUS OF INDUSTRY

REPORT
on the
COTTON & JUTE BAG INDUSTRY
in
CANADA
1928

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

♦ ♦ ♦

OTTAWA

1929

CANADA

DEPARTMENT OF TRADE AND COMMERCE

OFFICE OF THE STATISTICIAN

OTTAWA, ONTARIO

REPORT

ON THE

COTTON GROWING IN CANADA

IN

CANADA

1913

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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
OTTAWA, CANADA.

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Chief, Census of Industry:	J.C. Macpherson

THE COTTON AND JUTE BAG INDUSTRY IN CANADA IN 1928

Ottawa, September, 1929. A report on the cotton and jute bag industry in Canada is herewith presented and covers the operations for the calendar year 1928. The following table shows the number and location by provinces of the plants reporting during the year 1928. The statistics relating to British Columbia have been combined with those of Manitoba to prevent disclosure of individual statistics.

Provinces	1928
CANADA	19
Quebec	5
Ontario	8
Manitoba	5
British Columbia	1

Table 1 gives the principal statistics of the industry for a two year period 1927 and 1928.

Table 1. Principal Statistics of the Cotton and Jute Bag Industry, 1927-1928.

Principal Statistics		1928	1927
Establishments	No.	19	17
Fixed Capital	\$	2,803,694	2,768,729
Working Capital	\$	3,881,012	3,978,004
Total Capital	\$	6,684,706	6,746,733
Employees on salaries -			
Male	No.	86	83
Female	No.	32	29
Total Salaries	\$	291,619	281,467
Employees on wages (average) -			
Male	No.	299	300
Female	No.	648	625
Total wages paid	\$	708,014	670,613
Cost of fuel	\$	19,749	21,694
Power employed -			
Units	No.	202	196
Capacity	H.P.	1,100	1,089
Cost of materials used	\$	12,494,239	10,906,830
Gross value of products	\$	14,283,396	12,932,779
Net value of products	\$	1,789,157	2,025,949

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THE COTTON AND JUTE BAG INDUSTRY IN CANADA

The principal statistics covering a period of years are shown in table 1 (a) affording a comprehensive study of the industry since the beginning of the annual census in 1917.

Table 1(a). Comparative Statistics of the Cotton and Jute Bag Industry, 1917-1928.

Year	Estab- lish- ments	Capital	Employees	Salaries and Wages	Cost of materials	Gross Value of products	Net Value of products
	No.	\$	No.	\$	\$	\$	\$
1917	11	5,693,056	702	500,760	8,469,752	12,490,588	4,020,836
1918	13	8,259,332	895	749,974	16,845,513	19,536,283	2,690,770
1919	14	7,831,046	901	739,722	14,417,112	16,949,134	2,532,022
1920	16	5,740,002	900	855,247	14,254,605	15,388,543	863,938
1921	16	4,819,054	848	804,371	7,198,203	8,888,991	1,690,788
1922	14	5,866,388	918	863,439	8,701,562	10,970,224	2,268,662
1923	16	5,356,095	926	879,091	10,636,855	12,288,301	1,651,446
1924	16	5,695,363	1,006	928,945	11,903,020	13,802,506	1,899,486
1925	15	6,307,126	984	939,639	12,948,571	14,932,322	1,983,751
1926	14	5,565,514	975	930,779	12,277,373	14,072,099	1,794,726
1927	17	6,746,733	1,037	952,080	10,906,830	12,932,779	2,025,949
1928	19	6,684,706	1,065	999,633	12,494,239	14,283,396	1,789,157

The production of cotton and jute bags is shown in table 2 for the calendar years 1927 and 1928 by quantity and selling value at the factory or works. The number of bags made from cotton and jute show an increase from 106,736,161 in 1927 to 113,338,886 in 1928. The quantity of bags made from jute represents approximately 45.5 per cent of the total production of bags of all kinds. The total value of production rose from \$12,932,779 in 1927 to \$14,283,396 in 1928, a net increase of \$1,350,617 during the period.

Table 2. Production in the Cotton and Jute Bag Industry, 1927-1928.

Classes of Products		1928		1927	
		Quantity	Value	Quantity	Value
			\$		\$
Jute and cotton bags	No.	-	-	26,000	2,830
Jute bags	"	59,901,569	8,834,801	56,581,328	7,790,246
Cotton bags	"	53,437,317	5,003,379	50,128,833	4,754,911
Burlap bags	"	964,370	73,863	325,000	25,009
Individual tea bags	"	17,418,000	83,333	12,000,000	49,067
Bags repaired	"	828,907	118,153	382,000	83,866
Hessian	Yard	1,051,495	112,325	1,783,378	182,083
All other products	-	-	57,542	-	44,767
Total	-	-	14,283,396	-	12,932,779

IN SENATE,
January 1, 1901.

REPORT OF THE
COMMISSIONER OF THE LAND OFFICE

Year	Area	Value	Notes
1890	1,000,000	\$1,000,000	
1891	1,000,000	\$1,000,000	
1892	1,000,000	\$1,000,000	
1893	1,000,000	\$1,000,000	
1894	1,000,000	\$1,000,000	
1895	1,000,000	\$1,000,000	
1896	1,000,000	\$1,000,000	
1897	1,000,000	\$1,000,000	
1898	1,000,000	\$1,000,000	
1899	1,000,000	\$1,000,000	
1900	1,000,000	\$1,000,000	

The following table shows the amount of land sold by the State of New York during the year 1900. The land was sold at public auction, and the proceeds were used for the benefit of the State.

Report of the Commissioner of the Land Office
for the year 1900.

Year	Area	Value	Notes
1890	1,000,000	\$1,000,000	
1891	1,000,000	\$1,000,000	
1892	1,000,000	\$1,000,000	
1893	1,000,000	\$1,000,000	
1894	1,000,000	\$1,000,000	
1895	1,000,000	\$1,000,000	
1896	1,000,000	\$1,000,000	
1897	1,000,000	\$1,000,000	
1898	1,000,000	\$1,000,000	
1899	1,000,000	\$1,000,000	
1900	1,000,000	\$1,000,000	

THE COTTON AND JUTE BAG INDUSTRY IN CANADA

Size of Establishments

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 cotton and jute bag industry measured by (a) capital investment, (b) gross value of production and (c) employment, all within certain specified groups or limitations for the calendar year 1928. The tables further indicate the movement in capital, production and employment within the industry.

Average capital investment decreased from \$396,867 per plant in 1927 to \$351,327 in 1928.

In gross value of products the average production per factory shows a decrease from \$760,752 in 1927 to \$751,757 in 1928.

In employment the total number of persons entered on the payroll rose from 1,037 in 1927 to 1,065 in 1928 and the average per plant fell from 61 in 1927 to 56 in 1928.

Establishments having a capital investment of	1928			1927		
	Estab-lish-ments	Total Capital	Average capital per estab-lishment	Estab-lish-ments	Total Capital	Average capital per estab-lishment
	No.	\$	\$	No.	\$	\$
Under \$50,000	8	113,538	14,192	6	87,662	14,610
\$50,000 to under \$100,000	-	-	-	-	-	-
\$100,000 to under \$200,000	-	-	-	-	-	-
\$200,000 to under \$500,000	5	2,134,517	426,903	5	2,276,823	455,365
\$500,000 to under \$1,000,000	5	3,137,612	627,522	5	3,080,157	616,031
\$1,000,000 and over	1	1,299,039	1,299,039	1	1,302,091	1,302,091
Total	19	6,684,706	351,827	17	6,746,733	396,867
Establishments having a gross value of production of	Estab-lish-ments	Total Gross Value of Production	Average gross value per estab-lishment	Estab-lish-ments	Total Gross Value of Production	Average gross value per estab-lishment
	No.	\$	\$	No.	\$	\$
Under \$50,000	5	95,189	19,038	5	109,903	21,981
\$50,000 to under \$100,000	3	220,750	73,583	1	73,369	73,369
\$100,000 to under \$200,000	-	-	-	-	-	-
\$200,000 to under \$500,000	-	-	-	-	-	-
\$500,000 to under \$1,000,000	3	2,790,062	930,021	3	2,510,105	836,702
\$1,000,000 and over	8	11,177,395	1,397,174	8	10,239,402	1,279,925
Total	19	14,283,396	751,757	17	12,932,779	760,752
Establishments employing	Estab-lish-ments	Total Employees	Average employees per estab-lishment	Estab-lish-ments	Total Employees	Average employees per estab-lishment
	No.	No.	No.	No.	No.	No.
Less than 20 persons	7	39	6	5	27	5
20 but under 50	1	43	43	1	31	31
50 but under 100	8	571	71	8	556	69
100 but under 200	3	412	137	3	423	141
200 but under 500	-	-	-	-	-	-
500 and over	-	-	-	-	-	-
Total	19	1,065	56	17	1,037	61

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1	2	3	4	5	6	7	8	9	10

THE COTTON AND JUTE BAG INDUSTRY IN CANADA

Capital Investment

Table 3 presents statistics of capital investment under two heads - fixed capital and working capital - for the calendar years 1927 and 1928. Statistics relating to British Columbia have been combined with those of Manitoba to prevent disclosure of individual statistics. The total capital fell from \$6,746,733 in 1927 to \$6,684,706 in 1928 a net decrease of \$62,027. It will be noted that the largest decrease took place in the materials on hand, stocks in process etc. which fell from \$2,390,248 in 1927 to \$2,256,509 in 1928 a decrease of \$133,739 for the period covered by this report.

Table 3. Capital Investment by Provinces, 1927-28.

Capital invested by provinces	Fixed Capital	Working Capital		Total Capital
	Land, buildings, machinery and tools	Materials and stocks on hand, finished products and misc. supplies	Cash, trading and operating accounts. etc.	
	\$	\$	\$	\$
<u>1928</u>				
Canada	2,803,694	2,256,509	1,624,503	6,684,706
Ontario	739,646	660,274	252,623	1,652,543
Quebec	1,132,967	800,190	490,896	2,424,053
Manitoba and British Columbia	931,081	796,045	880,984	2,608,110
<u>1927</u>				
Canada	2,768,729	2,390,248	1,587,756	6,746,733
Ontario	725,645	736,696	227,725	1,690,066
Quebec	1,124,592	793,780	580,130	2,498,502
Manitoba and British Columbia	918,492	859,772	779,901	2,558,165

Employment Statistics

Statistics of employment are presented in the following series of tables. Table 4 shows the number employed during the year by sex and remuneration by provinces, table 5 the number of wage-earners by months according to sex with totals and averages and table 6 the operating time of plants and employees during the year.

Whilst the number of salaried employees during the two-year period increased by 6 and the amount paid in salaries by \$10,152, the number of wage-earners increased by 22 and the amount paid in wages also increased by \$37,401. The average annual salary irrespective of sex fell from \$2,513 in 1927 to \$2,471 in 1928 or a per cent decrease of 1.67 and the average wage per employee during the period increased from \$725 in 1927 to \$748 in 1928 or 3.17 per cent.

Table 4. Employees by number, sex and remuneration by provinces, 1927-1928.

	Salaried Employees			Wage-earners			Total Employees		
	Males	Females	Salaries	Males	Females	Wages	Males	Females	Salaries and Wages
	No.	No.	\$	No.	No.	\$	No.	No.	\$
<u>1928</u>									
Canada	86	32	291,619	299	648	708,014	385	680	999,633
Quebec	33	14	104,864	98	217	201,186	131	231	306,050
Ontario	27	10	83,836	108	234	245,306	135	244	329,142
Manitoba and British Columbia	26	8	102,919	93	197	261,522	119	205	364,441
<u>1927</u>									
Canada	83	29	281,467	300	625	670,613	383	654	952,080
Quebec	32	12	90,365	100	227	202,812	132	239	293,177
Ontario	25	9	78,968	106	201	217,265	131	210	296,233
Manitoba and British Columbia	26	8	112,134	94	197	250,536	120	205	362,670

17. What is the purpose of the study?

THE COTTON AND JUTE BAG INDUSTRY IN CANADA

Employment Statistics Con.

Wage-earners by months - Table 5 shows the number of persons employed by sex for each month of the years 1927 and 1928. The month of maximum employment in 1927 was, October with 994 employees whilst that of minimum employment was, April with 855. In 1928 the month of maximum employment was October with a total of 980 employees and the month of minimum employment was July with a total of 916 employees. The average monthly employment of males and females show an increase in the number of females of 23 and a decrease in the number of males of 1.

Table 5. Employment of wage-earners by months and sex, 1927-1928.

Months	1928		1927	
	Male No.	Female No.	Male No.	Female No.
January	308	654	296	634
February	295	626	290	575
March	299	627	299	568
April	293	637	291	564
May	293	642	295	599
June	290	628	292	607
July	288	628	290	599
August	296	665	294	610
September	296	670	298	667
October	301	679	308	686
November	301	667	309	673
December	306	651	303	661
Total by months	3,566	7,774	3,565	7,443
Average by months	299	648	300	625

Working time - The operating time of plants and employees is shown in table 6 for the year 1928. Operating time of plants is shown under 3 heads:- full time, part time and idle, whilst that of wage-earning employees is shown by the day and the week. Compared with 1927, there was an increase in full time operations of 12.19 days per plant

Table 6. Operating time of plants and employees, 1928.

Number of plants in operation	1928	
	19	
	Total	Average
Days, plant in operation -		
On full time	4,689	246.79
On part time	733	38.58
Idle	354	18.63
Hours worked by wage-earners -		
Per day or shift	168	8.84
Per week	929	48.90

Table 7 presents statistics of wage-earning employees in month of highest employment working specified hours per day for Canada and the provinces with percentages of persons working at each specified daily rate. From the table following it will be noted that the prevailing daily rate was that of the group of wage-earners working 9 hours per day, the percentage being 69.16. The next in order was the 8 hour group with 25.26 per cent whilst the groups working more than 9 hours aggregated 5.58 per cent.

Table 7. Hours worked per day by wage-earners in month of highest employment for Canada and the provinces 1928.

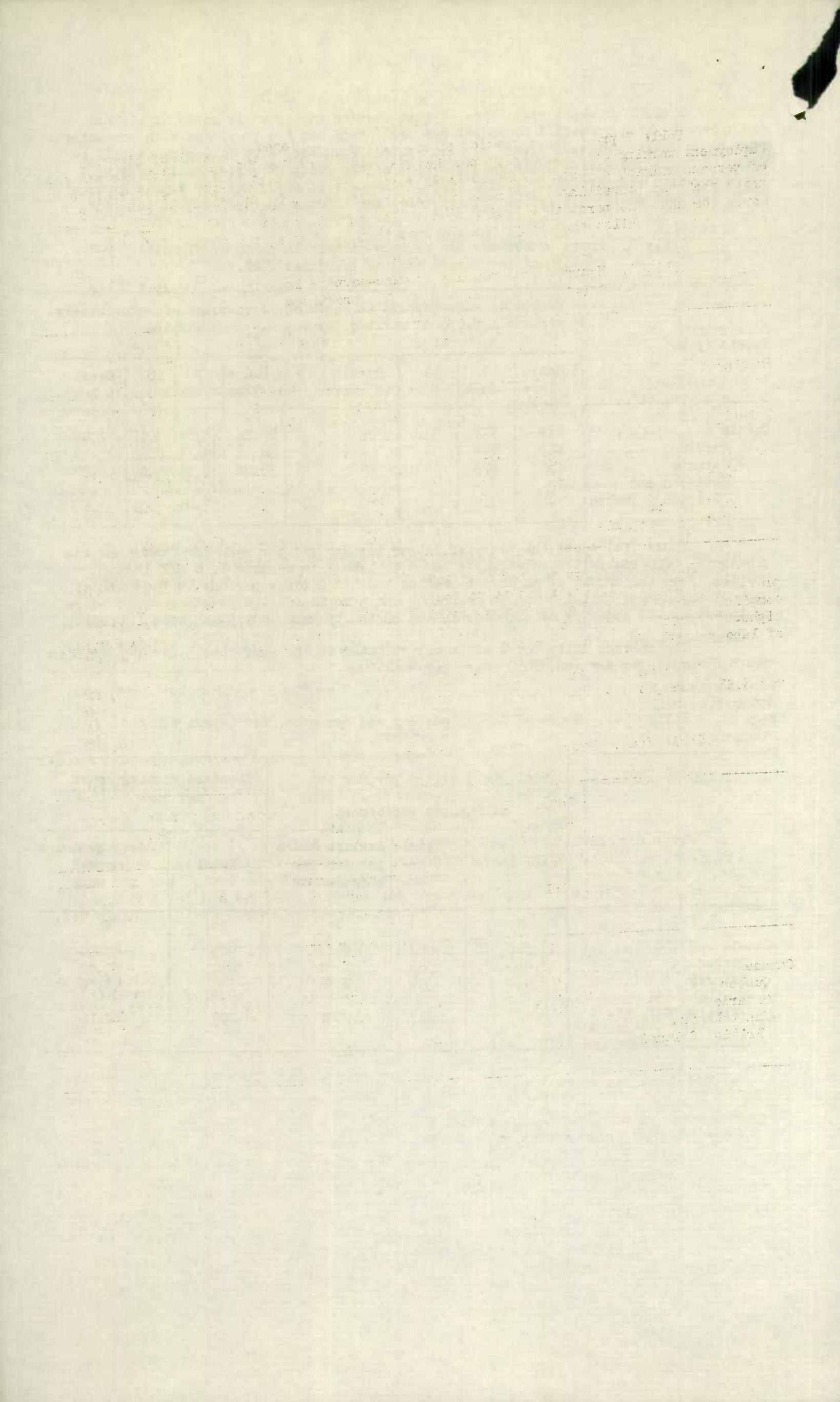
Provinces	Number of wage-earners in month of highest employment working per day of				Percentage of wage-earners working			
	8 hours or less	9 hours	10 hours	Over 10 hours	8 hours or less	9 hours	10 hours	Over 10 hours
Canada	267	731	33	26	25.26	69.16	3.12	2.46
Quebec	113	224	9	-	32.66	64.74	2.60	-
Ontario	154	193	23	24	39.08	48.99	5.84	6.09
Manitoba and British Columbia	-	314	1	2	-	99.06	.31	.63

Table 7(a) shows the hours of labour per day and per week for Canada and the provinces. The statistics relating to hours of labour in columns 1, 2 and 3 are compiled from the number of employees working specified hours per day in the month of highest employment whilst those in columns 4 and 5 represent the standard weekly hours of labour in the industry as reported to the Bureau by each individual establishment.

The average daily hours of labour computed on the above basis for the Dominion was 8.82 hours per day and 48.90 hours per week.

Table 7(a). Hours of Labour per day and per week, for Canada and the provinces, 1928.

	Total hours worked per day and number of wage-earners in month of highest employment			Standard working hours per week.	
	Total hours	Total Wage-Earners	Average hours per day per wage-earner	Total	Average hours worked per week
	No.	No.	No.	No.	No.
Canada	9,318	1,057	8.82	929	48.90
Quebec	3,010	346	8.70	250	50.00
Ontario	3,451	394	8.76	390	48.75
Manitoba and British Columbia	2,857	317	9.01	289	48.16



THE COTTON AND JUTE BAG INDUSTRY IN CANADA

Materials Used

The quantity and value of the principal materials used in the industry is shown in table 8 for the calendar year 1928. The total cost of all materials used increased from \$10,906,830 in 1927 to \$12,494,239 in 1928 an increase of \$1,587,409 or 14.6 per cent over the two year period.

Table 8. Cost of materials used in the cotton and jute bag industry, 1928.

Principal Materials used		Quantity	Cost Value \$
Jute cloth	yards	78,741,697	7,715,623
Cotton cloth	"	37,803,528	4,336,987
Burlap	"	699,168	65,592
Second hand bags	number	705,650	84,075
Cotton sewing twine and thread	pounds	445,498	161,182
Printing ink	"	314,313	99,003
All other materials	-	-	31,777
Total	-	-	12,494,239

Fuel Consumption

The quantity and the cost value delivered at the factory of the various classes of fuel used and of electricity purchased is shown in table 9. The cost of electricity purchased for all purposes rose from \$14,090 in 1927 to \$14,622 in 1928.

Table 9. Cost of fuel and electricity, 1928.

Kinds of fuel	Unit of measure	Quantity	Cost Value \$
Bituminous coal	ton	2,543	19,352
Anthracite coal	"	22	339
Coke	"	5	58
Electricity purchased	-	-	14,622
Total Cost	-	-	34,371

Power Installation

Power installed in the cotton and jute bag industry is shown in table 9 for the calendar year 1928 by (a) classes of power, (b) number of units in each class and (c) the horsepower according to manufacturer's rating. Power developed for manufacturing rose from 196 units with 1,089 horsepower in 1927 to 202 units with 1,100 horsepower in 1928, an increase of 6 units and 11 horsepower during the two year period.

Table 10. Power installation, 1928.

Classes of power	Number of units	Total H.P. according to manufacturers' rating
Steam engines and turbines	1	40
Electric motors operated by purchased power	201	1,060
Total power for manufacturing	202	1,100
Electric motors operated by power generated by the establishments reporting	56	138
Total electric motor installation	257	1,198
Boiler installation	9	600

REPORT

ON THE

PROGRESS OF THE

WORK DURING THE

PAST YEAR

AND THE

PROSPECTS FOR THE

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THE COTTON AND JUTE BAG INDUSTRY IN CANADA

Imports and Exports

Tables 11 and 12 give the imports and exports of cotton and jute bags by countries and values for the calendar year 1928. The total value of bags of all kinds imported into Canada fell from \$487,604 in 1927 to \$433,107 in 1928, a decrease of \$54,497. The exports fell from \$135,639 to \$113,559, a decrease of \$22,080 during the same period.

Table 11. Imports for consumption of cotton and jute bags for the calendar year 1928.

Articles imported by countries	1927 Value \$
Bags, seamless, cotton -	
United Kingdom	1,343
United States	37,366
Other Countries	381
Total	39,090
Bags, made by use of the needle, n.o.p. -	
United Kingdom	1,561
United States	132,341
Other Countries	18,666
Total	152,568
Bags or sacks of hemp, linen -	
United Kingdom	3,850
United States	199,625
British India	36,744
Other Countries	1,230
Total	241,449
Grand total value of imports	433,107

Table 12. Exports of Canadian produce for the calendar year 1928.

Articles exported by countries	Value \$
Bags of Cotton, Jute, etc. -	
United Kingdom	46,982
United States	3,134
France	56
Germany	3,775
Italy	15,058
Netherlands	6,302
Other Countries	38,252
Total	113,559

THE COTTON AND JUTE BAG INDUSTRY IN CANADA

APPENDIX

Cotton and Jute Bag Manufacturers, 1928

<u>Name</u>	<u>Address</u>	
<u>QUEBEC</u>		
The Canadian Bag Co. Ltd.	427 St. Patrick St.	Montreal
N. Fraid	592 St. Patrick St.	Montreal
Imperial Bag. Co.		
S.F. Stein	635 St. Paul W.	Montreal
Woods Mfg. Co. Ltd.	800 Mullins St.	Montreal
Thomas Bonar & Co. (Canada) Ltd.	606 De Courcelles St.	Montreal
<u>ONTARIO</u>		
The Canadian Bag Co. Ltd.	100 Paton Road	Toronto 9
Dominion Bag Co.	26 MacNab St. S.	Hamilton
Jacob Krasnow	145 Elizabeth St.	Toronto 2
Nock Bros. and Ayre Co.	4 Berti St.	Toronto 2
Woods Mfg. Co. Ltd.	401 Logan Avenue	Toronto 8
Ontario Bag Co.		Pt. Colborne
Walkerville Bag Mfg. Co. Ltd.		Walkerville
Individual Tea Bag Co. Ltd.	111 King St. E.	Toronto
<u>MANITOBA</u>		
Bemis Bros. Bag Co.	311 Alexander Ave.	Winnipeg
The Canadian Bag Co. Ltd.	831 Henry Ave.	Winnipeg
Sunset Mfg. Co. Ltd.	655 Logan Ave.	Winnipeg
Woods Mfg. Co. Ltd.	146 Alexander Ave.	Winnipeg
Joseph Litman	465 Dufferin Ave.	Winnipeg
<u>BRITISH COLUMBIA</u>		
Canadian Bag Co. Ltd.	900 Parker St.	Vancouver



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ANNUAL REPORT OF THE COMMISSIONER OF THE GENERAL LAND OFFICE

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