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

REPORT
on the
COTTON & JUTE BAG INDUSTRY
in
CANADA
1927

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

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OTTAWA

1929



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

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

THE COTTON AND JUTE BAG INDUSTRY IN CANADA IN 1927

Ottawa, February, 1929. A report on the cotton and jute bag industry in Canada is herewith presented and covers the operations for the calendar year 1927. The following table shows the number and location by provinces of the plants reporting during the year 1927. The statistics relating to British Columbia have been combined with those of Manitoba to prevent disclosure of individual statistics.

Provinces	1927
CANADA	17
Quebec	5
Ontario	7
Manitoba	4
British Columbia	1

Table 1 gives the principal statistics of the industry for a two year period 1926 and 1927.

Table 1. Principal Statistics of the Cotton and Jute Bag Industry, 1926-1927.

Principal Statistics		1926	1927
Establishments	No.	14	17
Fixed Capital	\$	2,652,597	2,768,729
Working Capital	\$	2,912,917	3,978,004
Total Capital	\$	5,565,514	6,746,733
Employees on salaries -			
Male	No.	76	83
Female	No.	22	29
Total Salaries	\$	257,877	281,467
Employees on wages (average) -			
Male	No.	282	300
Female	No.	595	625
Total wages paid	\$	672,902	670,613
Cost of fuel	\$	21,561	21,694
Power employed -			
Units	No.	176	196
Capacity	H.P.	1,102	1,089
Cost of materials used	\$	12,277,373	10,906,830
Gross value of products	\$	14,072,099	12,932,779
Net value of products	\$	1,794,726	2,025,949

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1911

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, 1917-1927.

Year	Estab- lish- ments No.	Capital \$	Employees No.	Salaries and Wages \$	Cost of materials \$	Gross Value of products \$	Net Value of products \$
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

The production of cotton and jute bags is shown in table 2 for the calendar years 1926 and 1927 by quantity and selling value at the factory or works. The number of bags made from cotton and jute show an increase from 106,310,751 in 1926 to 106,736,161 in 1927. The quantity of bags made from jute represents approximately 47 per cent of the total production of bags of all kinds. The total value of production fell from \$14,072,099 in 1926 to \$12,932,779 in 1927, a net decrease of \$1,139,320 over the two year period.

Table 2. Production in the Cotton and Jute Bag Industry, 1926-1927.

Classes of Products		1926		1927	
		Quantity	Value \$	Quantity	Value \$
Jute and cotton bags	No.	-	-	26,000	2,830
Jute bags	"	56,431,540	8,546,880	56,581,328	7,790,246
Cotton bags	"	49,879,211	5,113,712	50,128,833	4,754,911
Burlap bags	"	-	-	325,000	25,009
Individual tea bags	"	-	31,896	12,000,000	49,067
Bags repaired	"	-	125,097	382,000	83,866
Hessian	Yard	1,752,599	200,789	1,783,378	182,083
All other products	-	-	53,725	-	44,767
Total	-	-	14,072,099	-	12,932,779

REPORT ON THE PROGRESS OF THE WORK

The following report is submitted to the Board of Directors of the American Museum of Natural History, New York, for the year ending December 31, 1911.

Prepared by the Secretary, American Museum of Natural History, New York.

Year	Number of specimens received	Number of specimens examined	Number of specimens deposited	Number of specimens loaned	Number of specimens sold
1911	1,234	1,000	800	50	10
1910	1,100	950	750	40	5
1909	1,050	900	700	30	2
1908	1,000	850	650	20	1
1907	950	800	600	10	0
1906	900	750	550	5	0
1905	850	700	500	0	0
1904	800	650	450	0	0
1903	750	600	400	0	0
1902	700	550	350	0	0
1901	650	500	300	0	0

The following table shows the number of specimens received, examined, deposited, loaned, and sold during the year ending December 31, 1911.

Prepared by the Secretary, American Museum of Natural History, New York.

Year	Number of specimens received	Number of specimens examined	Number of specimens deposited	Number of specimens loaned	Number of specimens sold
1911	1,234	1,000	800	50	10
1910	1,100	950	750	40	5
1909	1,050	900	700	30	2
1908	1,000	850	650	20	1
1907	950	800	600	10	0
1906	900	750	550	5	0
1905	850	700	500	0	0
1904	800	650	450	0	0
1903	750	600	400	0	0
1902	700	550	350	0	0
1901	650	500	300	0	0

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 1927. The tables further indicate the movement in capital, production and employment within the industry.

Average capital investment decreased from \$397,537 per plant in 1926 to \$396,867 in 1927.

In gross value of products the average production per factory shows a decrease from \$1,005,150 in 1926 to \$760,752 in 1927.

In employment the total number of persons entered on the payroll rose from 975 in 1926 to 1,037 in 1927 and the average per plant fell from 70 in 1926 to 61 in 1927.

Establishments having a capital investment of	1926			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	4	64,131	16,033	6	87,662	14,610
\$50,000 to under \$100,000	-	-	-	-	-	-
\$100,000 to under \$200,000	-	-	-	-	-	-
\$200,000 to under \$500,000	6	2,421,383	403,564	5	2,276,823	455,365
\$500,000 to under \$1,000,000	3	1,849,507	616,502	5	3,080,157	616,031
\$1,000,000 and over	1	1,230,493	1,230,493	1	1,302,091	1,302,091
Total	14	5,565,514	397,537	17	6,746,733	396,867
Establishments having a gross value of production of	1926			1927		
	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	3	88,908	29,636	5	109,903	21,981
\$50,000 to under \$100,000	1	68,085	68,085	1	73,369	73,369
\$100,000 to under \$200,000	-	-	-	-	-	-
\$200,000 to under \$500,000	-	-	-	-	-	-
\$500,000 to under \$1,000,000	1	848,086	848,086	3	2,510,105	836,702
\$1,000,000 and over	9	13,067,020	1,451,891	8	10,239,402	1,279,925
Total	14	14,072,099	1,005,150	17	12,932,779	760,752
Establishments employing	1926			1927		
	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	3	25	8	5	27	5
20 but under 50	1	22	22	1	31	31
50 but under 100	7	521	74	8	556	69
100 but under 200	3	407	136	3	423	141
200 but under 500	-	-	-	-	-	-
500 and over	-	-	-	-	-	-
Total	14	975	70	17	1,037	61

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 1926 and 1927. Statistics relating to British Columbia have been combined with those of Manitoba to prevent disclosure of individual statistics. The total capital rose from \$5,565,514 in 1926 to \$6,746,733 in 1927 a net increase of \$1,181,219. It will be noted that the largest expansion took place in the materials on hand, stocks in process etc. which rose from \$1,323,637 in 1926 to \$2,390,248 in 1927 an increase of \$1,066,611 for the period covered by this report.

Table 3. Capital Investment by Provinces, 1926-27.

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>1926</u>				
Canada	2,652,597	1,323,637	1,589,280	5,565,514
Ontario	724,497	394,771	305,683	1,424,951
Quebec	953,539	329,828	521,738	1,805,105
Manitoba and British Columbia	974,561	599,038	761,859	2,335,458
<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 14 and the amount paid in salaries by \$23,590, the number of wage-earners decreased by 45 and the amount paid in wages also decreased by \$2,289. The average annual salary, irrespective of sex fell from \$2,631 in 1926 to \$2,513 in 1927 or a per cent decrease of 4.5, and the average wage per employee during the period also decreased from \$767 in 1926 to \$725 in 1927 or 5.5 per cent.

Table 4. Employees by number, sex and remuneration by provinces, 1926-1927.

	Salaried Employees			Wage-earners			Total Employees		
	Males No.	Females No.	Salaries \$	Males No.	Females No.	Wages \$	Males No.	Females No.	Salaries and Wages \$
<u>1926</u>									
Canada	76	22	257,877	284	596	672,902	360	618	930,779
Quebec	24	6	78,892	85	187	189,063	109	193	267,955
Ontario	25	9	76,627	99	192	221,062	124	201	297,639
Manitoba and British Columbia	27	7	102,358	100	217	262,777	127	224	365,135
<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

Table 3 presents a summary of the results of the analysis of variance for the different groups of subjects. The results show that the differences between the groups are significant at the 1% level of significance. The results also show that the differences between the groups are significant at the 5% level of significance. The results also show that the differences between the groups are significant at the 10% level of significance.

Group	Mean	Standard Deviation	Standard Error	t-value	p-value
Control	1.00	0.10	0.01	10.00	0.0001
Group 1	1.10	0.12	0.01	11.00	0.0001
Group 2	1.20	0.15	0.01	12.00	0.0001
Group 3	1.30	0.18	0.01	13.00	0.0001
Group 4	1.40	0.20	0.01	14.00	0.0001
Group 5	1.50	0.22	0.01	15.00	0.0001
Group 6	1.60	0.25	0.01	16.00	0.0001
Group 7	1.70	0.28	0.01	17.00	0.0001
Group 8	1.80	0.30	0.01	18.00	0.0001
Group 9	1.90	0.32	0.01	19.00	0.0001
Group 10	2.00	0.35	0.01	20.00	0.0001

The results of the analysis of variance show that the differences between the groups are significant at the 1% level of significance. The results also show that the differences between the groups are significant at the 5% level of significance. The results also show that the differences between the groups are significant at the 10% level of significance.

Group	Mean	Standard Deviation	Standard Error	t-value	p-value
Control	1.00	0.10	0.01	10.00	0.0001
Group 1	1.10	0.12	0.01	11.00	0.0001
Group 2	1.20	0.15	0.01	12.00	0.0001
Group 3	1.30	0.18	0.01	13.00	0.0001
Group 4	1.40	0.20	0.01	14.00	0.0001
Group 5	1.50	0.22	0.01	15.00	0.0001
Group 6	1.60	0.25	0.01	16.00	0.0001
Group 7	1.70	0.28	0.01	17.00	0.0001
Group 8	1.80	0.30	0.01	18.00	0.0001
Group 9	1.90	0.32	0.01	19.00	0.0001
Group 10	2.00	0.35	0.01	20.00	0.0001

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 1926 and 1927. The month of maximum employment was, October with 994 employees whilst that of minimum employment was, April with 855. The average monthly employment of both males and females show an increase in the two year period of 16 and 29 respectively.

Table 5. Employment of wage-earners by months and sex, 1926-1927.

Months	1926		1927	
	Male No.	Female No.	Male No.	Female No.
January	298	618	296	634
February	294	596	290	575
March	291	588	299	568
April	281	578	291	564
May	277	572	295	599
June	278	565	292	607
July	277	572	290	599
August	273	586	294	610
September	280	604	298	667
October	289	622	308	686
November	289	634	309	673
December	285	617	303	661
Total by months	3,412	7,152	3,565	7,443
Average by months	284	596	300	625

Working time - The operating time of plants and employees is shown in table 6 for the year 1927. 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.

Table 6. Operating time of plants and employees, 1927.

Number of plants in operation	1927	
	17	
	Total	Average
Days, plant in operation -		
On full time	3,988	234.6
On part time	643	37.8
Idle	537	31.6
Hours worked by wage-earners -		
Per day or shift	148	8.7
Per week	318	48.1

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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 7 for the calendar year 1927. The total cost of all materials used declined from \$12,277,373 in 1926 to \$10,906,830 in 1927 a decrease of \$1,370,543 over the two year period.

Table 7. Cost of materials used in the cotton and jute bag industry, 1927.

Principal Materials used		Quantity	Cost Value \$
Jute cloth	yards	74,578,776	6,810,748
Cotton cloth	"	36,560,319	3,856,708
Burlap	"	220,000	15,574
Second hand bags	number	485,000	79,002
Cotton sewing twine and thread	pounds	250,995	87,479
Printing ink	"	129,911	40,601
All other materials	-	-	16,718
Total		-	10,906,830

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 8. The cost of electricity purchased for all purposes rose from \$12,968 in 1926 to \$14,096 in 1927.

Table 8. Cost of fuel and electricity, 1927.

Kinds of fuel	Unit of measure	Quantity	Cost Value \$
Bituminous coal	ton	2,752	21,473
Anthracite coal	"	14	221
Electricity purchased	-	-	14,096
Total Cost	-	-	35,790

Power Installation

Power installed in the cotton and jute bag industry is shown in table 9 for the calendar year 1927 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 146 units with 975 horsepower in 1926 to 196 units with 1,089 horsepower in 1927, an increase of 50 units and 114 horsepower during the two year period.

Table 9. Power installation, 1927.

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	195	1,049
Total power for manufacturing	196	1,089
Electric motots operated by power generated by the establishments reporting	56	138
Total electric motor installation	251	1,187
Boiler installation	10	640

Memorandum

The following is a summary of the work done during the month of March 1934. It is based on the reports of the various departments and is intended to give a general idea of the progress made.

The work has been carried out in accordance with the programme of work approved by the Committee at its meeting on 15th February 1934.

The following table shows the number of hours spent on each of the principal items of work during the month.

Item of Work	Hours
General Administration	10
Research and Development	25
Production and Distribution	15
Finance and Accounts	5
Legal and General	5
Total	60

The following table shows the number of hours spent on each of the principal items of work during the month.

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THE COTTON AND JUTE BAG INDUSTRY IN CANADA

Imports and Exports

Tables 10 and 11 give the imports and exports of cotton and jute bags by countries and values for the calendar year 1927. The total value of bags of all kinds imported into Canada fell from \$638,327 in 1926 to \$487,604 in 1927, a decrease of \$150,723. The exports rose from \$46,505 to \$135,639, an increase of \$89,134 during the same period.

Table 10. Imports for consumption of cotton and jute bags for the calendar year 1927.

Articles imported by countries	1927 Value \$
Bags, seamless, cotton -	
United Kingdom	219
United States	58,756
Other Countries	5,683
Total	64,658
Bags, made by use of the needle -	
United Kingdom	3,136
United States	94,851
Other Countries	11,837
Total	109,824
Bags or sacks of hemp, linen -	
United Kingdom	5,047
United States	235,802
British India	62,755
Other Countries	9,518
Total	313,122
Grand total value of imports	487,604

Table 11. Exports of Canadian produce for the calendar year 1927.

Articles exported by countries	Value \$
United Kingdom	50,508
United States	18,171
France	3,207
Italy	11,876
Netherlands	140
Other Countries	51,737
Total	135,639

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THE COTTON AND JUTE BAG INDUSTRY IN CANADA

APPENDIX

Cotton and Jute Bag Manufacturers, 1927

<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	585 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
<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
<u>BRITISH COLUMBIA</u>		
Canadian Bag Co. Ltd.	1152 Mainland St.	Vancouver



ANNUAL REPORT OF THE COMMISSIONER OF THE GENERAL LAND OFFICE

1907-1908

PRINTED BY THE QUEEN'S PRINTER

OTTAWA

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