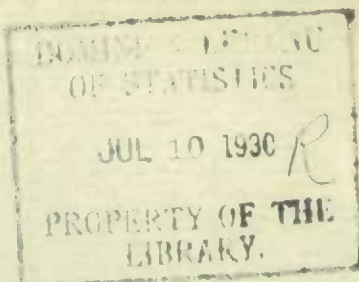


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CANADA  
DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
CENSUS OF INDUSTRY

REPORT  
on the  
CORDAGE, ROPE & TWINE INDUSTRY  
in  
CANADA  
1929

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

♦ ♦ ♦  
OTTAWA  
1930

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NOTE.- The statistics published in the present statement include only the statistics of such manufacturing establishments as make cordage, rope and twines as their principal product. The Statistics relating to specific products are therefore not to be regarded as comprehensive, as products like cotton twines and cordage also found as secondary products of other industries such as the Cotton yarn and cloth and Cotton batting.



## 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 CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1929.

Ottawa, June, 1930.- A report is herewith presented on the Cordage, Rope and Twine Industry in Canada for the calendar year 1929. The number of establishments reporting operations was 13, the same as in the previous year, of which 6 were in Ontario, 4 in Quebec, 1 in Nova Scotia, 1 in British Columbia and 1 in Manitoba. A summary of the principal statistics of the industry compared for the calendar years 1928 and 1929 is given in Table 1.

Table 1.- Principal Statistics compared for 1928 and 1929.

		1929	1928	Increase + or Decrease -
Establishments	No.	13	14	- 1
Capital investment, total	\$	13,066,423	12,173,549	+ 892,874
Fixed capital	\$	5,354,398	5,346,038	+ 8,360
Working capital	\$	7,712,025	6,827,511	+ 884,514
Employees on salaries -				
Male	No.	91	87	+ 4
Female	No.	22	20	+ 2
Salaries	\$	300,344	276,109	+ 24,235
Employees on wages - average number -				
Male	No.	857	826	+ 31
Female	No.	389	397	- 8
Wages	\$	1,211,840	1,256,908	- 45,068
Outside piece-workers -				
Male	No.	2	-	+ 2
Female	No.	7	-	+ 7
Amount paid	\$	6,096	-	+ 6,096
Cost of fuel and power	\$	122,249	132,798	- 10,549
Power installation -				
Units	No.	234	234	-
Capacity	H.P.	7,741	7,961	- 220
Cost of materials	\$	7,798,893	7,624,155	+ 174,738
Gross value of products	\$	11,798,165	10,839,961	+ 958,204
Net value of products	\$	3,999,272	3,215,806	+ 783,466

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

PHYSICAL CHEMISTRY

OF THE UNIVERSITY

REPORT OF THE PHYSICAL CHEMISTRY DEPARTMENT FOR THE YEAR 1922

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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 Cordage, Rope and Twine industry measured by (a) capital investment, (b) gross value of production and (c) employment, all within certain specified groups or limitations for the calendar years 1928 and 1929. The tables further indicate the movement in capital, production and employment within the industry.

Table 2.- Size of establishments, measured by capital investment, gross value of production and employment, 1928 and 1929.

(a) Groups of establishments having a capital investment of	1928			1929		
	Estab-lish-ments	Total Capital	Average capital per estab-lishment	Estab-lish-ments	Total Capital	Average capital per estab-lishment
	No.	\$	\$	No.	\$	\$
Under \$100,000	6	229,930	38,322	5	184,993	36,999
\$100,000 to under \$500,000	3	861,801	287,267	3	890,071	296,690
\$500,000 and over	5	11,081,818	2,216,364	5	11,991,359	2,398,272
Total	14	12,173,549	869,539	13	13,066,423	1,005,109
(b) Groups of 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 \$100,000	6	266,045	44,341	5	184,169	36,834
\$100,000 to under \$500,000	4	1,290,084	322,521	4	1,315,549	328,887
\$500,000 and over	4	9,283,832	2,320,958	4	10,298,447	2,574,612
Total	14	10,839,961	774,283	13	11,798,165	907,551
(c) Groups of 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	5	41	8.20	3	13	4.33
20 but under 100	5	278	55.60	7	394	56.28
100 persons and over	4	1,011	252.75	3	952	317.33
Total	14	1,330	95.00	13	1,359	104.54





THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1929.

PRODUCTION

The quantity and value of the products of the industry during the calendar year 1929 is shown by provinces in Table 3. To avoid disclosure of information concerning the operations of individual establishments, statistics for the provinces of Nova Scotia, Manitoba and British Columbia have been combined and are shown throughout this report as "Other provinces". The total value of production in 1928 was \$10,832,961 whilst for the period covered by this report the amount recorded was \$11,798,165 or an increase in the value of production of \$958,204 or 8.84 per cent.

Table 3.- Production by provinces, 1929.

Principal Products	Unit of Measure	CANADA		ONTARIO		QUEBEC		OTHER PROVINCES x	
		Quantity	Value \$	Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
Binder Twine:- All manila	Pounds	1,996,068	223,917	1,858,168	207,369	-	-	137,900	16,548
Chiefly manila	"	6,753,400	718,087	6,753,400	718,087	-	-	-	-
All sisal	"	663,750	64,753	660,750	64,753	-	-	-	-
Chiefly sisal	"	37,112,830	3,478,494	37,112,830	3,478,494	-	-	-	-
All other	"	35,392,500	4,446,461	34,912,500	4,388,904	-	-	480,000	57,557
Twines for sale:- All flax	"	101,992	20,247	8,770	5,332	-	-	93,222	14,915
All hemp	"	590,208	189,672	590,208	189,672	-	-	-	-
All cotton	"	80,496	42,885	48,400	25,000	32,096	17,885	-	-
All jute	"	1,153,364	191,787	1,151,831	191,405	-	-	1,533	382
All sisal	"	-	-	-	-	-	-	-	-
All other	"	-	-	-	-	-	-	-	-
Rope:- Manila	Pounds	8,795,961	1,554,033	2,882,270	544,749	2,716,116	441,369	3,197,575	567,915
Sisal	"	3,572,207	513,795	1,925,428	277,262	693,814	90,195	952,965	146,338
Jute	"	110,720	15,500	-	-	79,642	11,150	31,078	4,350
All other	"	1,545,764	274,273	51,756	16,044	295,555	74,200	1,198,453	184,029
Cordage, n.s.	Ft.	-	-	-	-	-	-	-	-
Hemp yarns for sale	Pounds	-	-	-	-	-	-	-	-
All other products	"	-	64,261	-	63,626	-	-	-	635
T O T A L S		-	11,798,165	-	10,170,697	-	634,799	-	992,669

x Includes Nova Scotia 1, Manitoba 1, British Columbia 1.





### Capital Investment

Capital investment in the industry as presented in table 4 shows an increase of \$392,874 when compared with the 1928 totals, due to an increase in the volume of stocks of materials and finished products on hand. The total investment rose from \$12,173,549 to \$13,066,423 in 1929, whilst the increase in stocks, etc. above stated totalled \$1,626,214. There was also an increase in fixed capital of \$8,360. Of the total investment, the province of Ontario provided 84.82 per cent, Quebec 6.84 per cent and the remaining provinces 8.34 per cent.

Table 4.- Capital investment by provinces, 1929.

Provinces	Fixed Capital	Working Capital		Total Capital
	Land, buildings, fixtures, machinery and tools	Materials on hand, stocks in process, etc.	Cash, trading and operating accounts, etc.	
	\$	\$	\$	\$
CANADA	5,354,398	4,253,506	3,458,519	13,066,423
Ontario	4,218,888	3,659,162	3,204,616	11,082,666
Quebec	468,664	350,315	75,173	894,152
Other Provinces	666,846	244,029	178,730	1,089,605

### Employees, Salaries and Wages

The total number of persons employed in the industry during the years 1928 and 1929 is given in Table 5 by (a) classes of employment, (b) sex and (c) salary and wage payments. The total number of employees in all classes rose from 1,336 in 1928 to 1,368 in 1929, an increase of 32 or 2.4 per cent. The payroll however showed a decrease, the total in 1928 being \$1,533,263 whilst for the period covered by this report the amount was \$1,518,280, a decrease of \$14,983 or approximately .98 per cent.

Table 5.- Employees, salaries and wages, 1928 and 1929.

Classes of employment	1928			1929		
	Male	Female	Salaries and Wages	Male	Female	Salaries and Wages
	No.	No.	\$	No.	No.	\$
Employees on salaries	87	20	276,109	91	22	300,344
Employees on wages (average number)	826	403	1,257,154	857	389	1,211,840
Outside piece-workers	-	-	-	2	7	6,096
Totals	913	423	1,533,263	950	418	1,518,280

### Other Employment Statistics

The number of days the factories were in operation during the calendar year 1929 together with the number of hours per day and per week normally worked by wage-earners is shown in Table 6. The number of wage-earners employed during the same period is given by sex and by months in Table 7. Employment reached its maximum in March with a total of 1,358 whilst the minimum number reported was 1,030 in the month of November.

Table 6.- Days in operation and hours worked, 1929.

Number of establishments in operation	13	
	Total	Average
Number of days in operation on full time	3,352	257.84
Number of days in operation on part time	144	11.08
Number of days idle	456	35.08
Number of hours worked by wage earners per day or shift	10,624	8.52
Number of hours worked by wage earners per week	58,375	46.85





## Other Employment Statistics - Cont'd.

Table 7.- Wage earners by months, 1929

Month	Male No.	Female No.	Month	Male No.	Female No.
January	931	328	July	863	412
February	945	410	August	716	400
March	953	405	September	708	402
April	936	416	October	724	394
May	909	395	November	759	271
June	908	402	December	856	344
Total				10,208	4,645
Average number employed during year				857	389

The number and percentage of wage-earners in months of highest employment working specified hours per day is shown in Table 8a for Canada and the provinces. For the Dominion, the number working specified hours was distributed between the classes, the percentage working 10 hours being highest. In Ontario over 70 per cent of the employees worked 10 hours or over per day, whilst in Quebec 85.71 per cent worked 9 hours and 14.29 per cent worked 10 hours. Less than two per cent of the wage-earners in the Dominion worked less than 8 hours whilst but 11.02 per cent worked over 10 hours per day.

Table 8a.-Hours worked by wage-earners in Month of highest employment, 1929.

Provinces	Wage-earners in month of highest employment working per day of				Percentage of wage-earners working per day of			
	8 hours or less	9 hours	10 hours	Over 10 hours	8 hours or less	9 hours	10 hours	Over 10 hours
	No.	No.	No.	No.	p.c.	p.c.	p.c.	p.c.
CANADA	26	562	656	154	1.86	40.20	46.92	11.02
Ontario	26	292	644	154	2.33	26.16	57.71	13.80
Quebec	-	72	12	-	-	85.71	14.29	-
Other Provinces	-	198	-	-	-	100.00	-	-

The number of hours worked per day in the month of highest employment and the standard working hours per week are shown by provinces in Table 8b. It should be noted that whilst the statistics relating to hours of labour in columns 1, 2 and 3 are based on figures compiled for the month of highest employment, those in columns 4 and 5 represent the total and average of standard weekly hours of labour for the number of establishments reporting to the Bureau. For this reason the relation between daily and weekly hours of labour is to some extent impaired. The average daily hours of labour on the above basis was for the Dominion 9.61, whilst the average standard weekly hours worked out at 51.54 per plant.

Table 8b.- Hours of labour per day and per week, 1929.

Provinces	Total daily hours 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
	No.	No.	No.	No.	No.
CANADA	13,443	1,398	9.61	670	51.54
Ontario	10,893	1,116	9.76	309	51.50
Quebec	768	84	9.14	215	53.75
Other provinces	1,782	198	9.00	146	48.66

Table 1. Summary of Data for 1950-1951				
Year	Area	Population	Area	Population
1950	100	100	100	100
1951	100	100	100	100
1952	100	100	100	100
1953	100	100	100	100
1954	100	100	100	100
1955	100	100	100	100
1956	100	100	100	100
1957	100	100	100	100
1958	100	100	100	100
1959	100	100	100	100
1960	100	100	100	100

The following table shows the population of the United States in 1950 and 1960. The population in 1950 was 150,697,000 and in 1960 it was 192,632,000. The increase in population was 27.8%.

Table 2. Population of the United States, 1950-1960				
Year	Area	Population	Area	Population
1950	100	100	100	100
1951	100	100	100	100
1952	100	100	100	100
1953	100	100	100	100
1954	100	100	100	100
1955	100	100	100	100
1956	100	100	100	100
1957	100	100	100	100
1958	100	100	100	100
1959	100	100	100	100
1960	100	100	100	100

The following table shows the population of the United States in 1950 and 1960. The population in 1950 was 150,697,000 and in 1960 it was 192,632,000. The increase in population was 27.8%.

Table 3. Population of the United States, 1950-1960				
Year	Area	Population	Area	Population
1950	100	100	100	100
1951	100	100	100	100
1952	100	100	100	100
1953	100	100	100	100
1954	100	100	100	100
1955	100	100	100	100
1956	100	100	100	100
1957	100	100	100	100
1958	100	100	100	100
1959	100	100	100	100
1960	100	100	100	100



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1929.

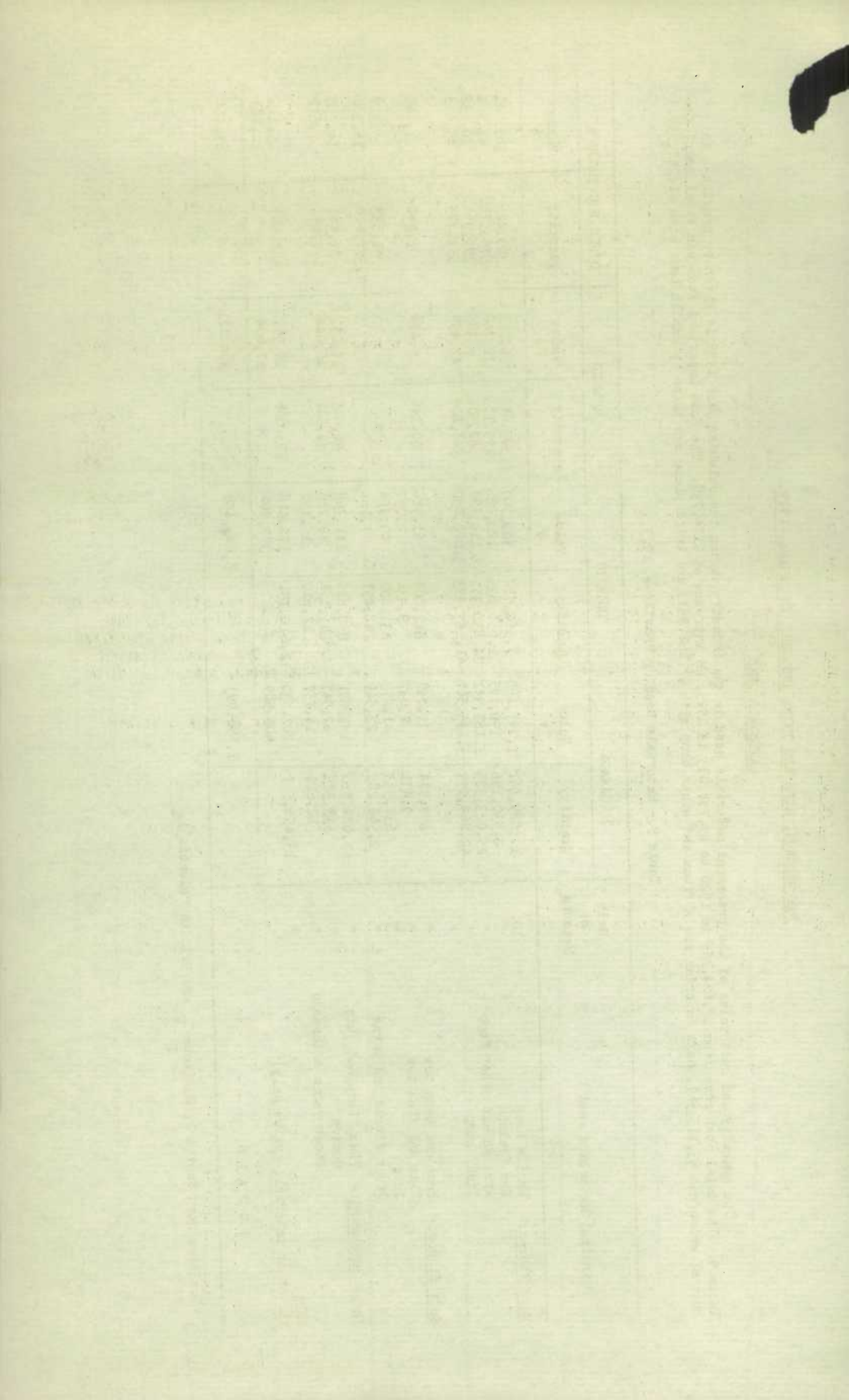
MATERIALS USED

The quantity and cost value of the principal materials used in the industry during the calendar year 1929 is given by provinces in Table 9. The total cost rose from \$7,624,155 in 1928 to \$7,798,893 in 1929, an increase of \$174,738. The most important item was sisal hemp, the cost of which was \$3,175,567, next in order was African and other hemp with \$2,162,941, and third place was taken by manila hemp with \$1,297,259.

Table 9.- Materials Used by Provinces, 1929.

Principal Materials used	Unit of Measure	CANADA		ONTARIO		QUEBEC		OTHER PROVINCES x	
		Quantity	Value \$	Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
<u>Hard fibres:-</u> Manila hemp	lb.	12,829,641	1,297,259	7,162,792	701,507	2,303,624	226,011	3,363,225	369,741
New Zealand	"	2,530,196	190,795	1,656,835	120,688	299,183	22,746	574,178	47,361
African and other hemp	"	25,023,523	2,162,941	24,550,351	2,116,624	82,581	7,485	390,591	38,832
Sisal hemp	"	42,269,977	3,175,567	41,167,393	3,088,050	547,809	42,499	554,775	45,018
<u>Soft fibres:-</u> Hemp and hemp tow	"	679,774	72,758	612,688	61,916	60,146	9,494	6,940	1,348
Flax and flax tow	"	9,431	2,037	9,431	2,037	-	-	-	-
Jute	"	632,533	41,273	631,000	40,954	-	-	1,533	319
Other fibres and yarns	"	2,546,285	22,549	148,457	7,161	-	-	2,397,828	15,388
<u>Yarns purchased:-</u> Flax, hemp and jute	"	1,024,810	142,891	850,876	111,368	96,445	17,191	77,489	14,332
Cotton	"	333,375	62,947	81,152	29,226	72,582	26,044	179,641	7,677
Other yarns & threads	"	12,610	15,757	12,610	15,757	-	-	-	-
Oils	"	13,456,557	202,530	12,610,191	172,468	393,888	14,947	452,478	15,115
All other materials (value only)	"	-	409,589	-	379,702	-	17,604	-	12,283
<b>T O T A L S</b>	-	-	7,798,893	-	6,847,458	-	384,021	-	567,414

x Includes Nova Scotia 1, Manitoba 1, and British Columbia 1.





### Fuel Statistics

The quantity and value of the various kinds of fuel consumed in the industry during the calendar year 1929 is shown in Table 10. The total expenditure for all fuel fell from \$30,951 in 1928 to \$23,250 in 1929, a decrease of \$7,701 in the two-year period. Bituminous coal was accountable for nearly 80 per cent of the total fuel cost. The cost of electric power amounted to \$98,999 in 1929 as compared with a total cost of \$101,847 in 1928.

Table 10.- Fuel Consumption, 1929.

Kinds of fuel	Unit of measure	Quantity	Cost Value
			\$
Coal, bituminous	ton	3,421	18,567
Coal, anthracite	ton	23	367
Coke, (breeze)	ton	1,417	3,627
Fuel oils	gal.	11,921	689
Total	-	-	23,250

### Power Installation

The power equipment of the industry for the calendar year 1929 is shown in Table 11 by (a) classes of power, (b) number of units in each class and (c) the horse power capacity according to manufacturers' rating. The total power installed in 1928 was 234 units with a capacity of 7,961 horse power. The number of units in the year 1929 was 234 with a development of 7,961 horse power, being identical with the year 1928.

The number of boilers installed for all purposes was 19 with a boiler horse power capacity of 2,283.

Table 11.- Power Equipment, 1929.

Classes of power	Number of units	Horse power capacity
Steam engines and turbines	1	200
Oil, gas and gasoline engines	-	-
Hydraulic turbines or water wheels	1	165
Total primary power	2	365
Electric motors operated by purchased power	232	7,376
Total power used in manufacturing	234	7,961



Table 1

The following table shows the results of the experiments conducted on the effect of the concentration of the solution on the rate of reaction. The rate of reaction was measured by the volume of gas evolved per unit time.

Concentration of solution (M)	Rate of reaction (ml gas / min)
0.1	10
0.2	20
0.3	30
0.4	40
0.5	50

Table 2

The following table shows the results of the experiments conducted on the effect of the temperature on the rate of reaction. The rate of reaction was measured by the volume of gas evolved per unit time.

Temperature (°C)	Rate of reaction (ml gas / min)
20	10
30	20
40	30
50	40
60	50



# Imports and Exports

The quantity and value of raw, partly manufactured materials and finished products imported into Canada during the calendar year 1929 is shown in Table 12, by principal countries. Of the value of imports of raw materials nearly 70 per cent came from the United States and 30 per cent from other countries. The total value of all imports was \$10,560,472, of which raw materials represented \$5,729,125, whilst partly manufactured materials and wholly manufactured articles totalled \$4,831,347.

The total value of Canadian produce exported during the calendar year was \$1,820,923 of which binder twine represented \$1,688,316 or 92.7 per cent.

Table 12.- Imports into Canada for consumption, calendar year 1929.

		Quantity	Value
			\$
Fibrilla, flax fibre and flax tow - Total	Cwt.	1,441	4,262
United Kingdom	"	6	161
United States	"	1,390	3,062
Other Countries	"	45	1,039
Hemp dressed or undressed - Total	Cwt.	42,559	356,461
United States	"	37,082	304,072
New Zealand	"	2,213	17,114
Italy	"	2,233	24,507
Other Countries	"	1,031	10,768
Jute and jute butts - Total	Cwt.	7,379	42,989
United States	"	5,379	30,089
Other Countries	"	2,000	12,900
Oakum of flax, hemp or jute - Total	Cwt.	17,075	125,487
United Kingdom	"	781	8,332
United States	"	16,292	117,138
Other Countries	"	2	17
Exports or Spanish grass and other grasses, n.o.p. - Total	Cwt.	4,113	8,591
United Kingdom	"	-	16
United States	"	4,068	8,163
Other Countries	"	-	412
Fibre, Mexican, istle or tampico - Total	Cwt.	4,546	63,976
United Kingdom	"	357	5,495
United States	"	3,842	52,802
Other Countries	"	347	5,679
Manila fibre - Total	Cwt.	3,656	78,716
United Kingdom	"	3	84
United States	"	3,554	77,016
Other Countries	"	99	1,616
Manila fibre - Total	Cwt.	90,967	861,739
United Kingdom	"	-	-
United States	"	82,156	773,833
Philippines	"	8,811	87,906
Sisal fibre - Total	Cwt.	506,533	3,874,364
United Kingdom	"	-	-
United States	"	502,247	3,840,527
Other Countries	"	4,286	33,837





Imports and Exports - Cont'd.

Table 12.- Imports into Canada for consumption, calendar year, 1929 - Cont'd.

		Quantity	Value
			\$
Vegetable fibre, n.o.p. - Total	Cwt.	32,796	312,550
United Kingdom	"	2,159	24,505
United States	"	15,051	142,734
New Zealand	"	4,343	32,029
Other Countries	"	11,243	113,282
Binder twine - Total	Cwt.	182,258	1,845,305
United Kingdom	"	25,360	343,108
United States	"	21,895	266,336
Netherlands	"	134,944	1,235,215
Other Countries	"	59	646
Bank, cod and other fish lines and twines, etc. - Total	(value only)	-	2,499,104
United Kingdom	"	-	1,139,798
United States	"	-	1,196,086
France	"	-	28,849
Germany	"	-	1,323
Japan	"	-	61,189
Netherlands	"	-	7,308
Norway	"	-	54,400
Other Countries	"	-	10,151
Cordage, head ropes etc. used in fisheries - Total	Lb.	155,013	35,021
United Kingdom	"	52,953	10,801
United States	"	101,981	24,208
Other Countries	"	79	12
Cords and twines, n.o.p. - Total	Lb.	1,211,977	259,423
United Kingdom	"	606,100	96,250
United States	"	428,818	140,590
Other Countries	"	177,059	22,583
Cordage, manila, sisal, etc. exceeding 1" in circumference - Total	Lb.	1,227,073	154,240
United Kingdom	"	1,023,428	129,332
United States	"	148,819	17,396
Other Countries	"	54,826	7,512
Cordage exceeding 1" in circumference, n.o.p. - Total	Lb.	135,650	38,254
United Kingdom	"	116,424	31,811
United States	"	17,699	6,218
Other Countries	"	1,527	225

STATE OF NEW YORK

IN SENATE, JANUARY 1, 1901.

REPORT OF THE

COMMISSIONERS OF THE LAND OFFICE.

LANDS BELONGING TO THE STATE.		LANDS BELONGING TO THE STATE.	
SECTION.	ACRES.	SECTION.	ACRES.
1	100	1	100
2	100	2	100
3	100	3	100
4	100	4	100
5	100	5	100
6	100	6	100
7	100	7	100
8	100	8	100
9	100	9	100
10	100	10	100
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96	100	96	100
97	100	97	100
98	100	98	100
99	100	99	100
100	100	100	100



Imports and Exports - Cont'd.

Table 13.- Exports by principal countries, 1929.

		Quantity	Value
			\$
Flax fibre and flax tow - Total	Cwt.	704	6,461
United Kingdom	"	455	4,705
United States	"	249	1,756
Binder twine - Total	Cwt.	152,889	1,688,316
United Kingdom	"	1,617	18,538
United States	"	96,965	1,113,181
British South Africa	"	8,499	84,090
Argentina	"	10,000	130,000
Russia	"	31,068	304,322
Germany	"	4,046	29,741
Irish Free State	"	672	8,232
Portuguese Africa	"	20	190
Newfoundland	"	2	22
Cordage, rope and twine, n.o.p.- Total (value only)		-	126,146
United Kingdom	"	-	15,076
United States	"	-	3,959
Br. Guiana	"	-	11,977
Trinidad and Tobago	"	-	11,372
Newfoundland	"	-	5,689
New Zealand	"	-	12,058
Colombia	"	-	11,567
Peru	"	-	20,783
Brazil	"	-	7,947
Other Br. West Indies	"	-	20,538
Other Countries	"	-	5,180

The apparent consumption of binder twine in Canada during the calendar years 1927, 1928 and 1929 is shown in table 14 by quantity and value.

Table 14.- Apparent consumption of binder twine in Canada for the calendar years 1927, 1928 and 1929.

	1927		1928		1929	
	Quantity	Value	Quantity	Value	Quantity	Value
	Cwt.	\$	Cwt.	\$	Cwt.	\$
Production plus	616,730	7,513,784	732,105	7,620,059	819,185	8,931,712
Imports	194,414	2,291,905	279,913	2,915,696	182,258	1,845,305
Total	811,144	9,805,689	1,012,018	10,535,755	1,001,443	10,777,017
Less Exports	233,067	2,584,702	117,941	1,188,376	152,889	1,688,316
Available for consumption	578,077	7,220,987	894,077	9,347,379	848,554	8,988,701

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APPENDIX

Cordage, Rope and Twine Manufacturers Operating in Canada, 1929.

Name of firm	Location	Products made
Consumers' Cordage Company	Wyse Road, Dartmouth, N.S.	Binder twine, rope
Brantford Cordage Company, Ltd.	111 Brant St., Brantford, Ont.	Binder twine
Doon Twines Limited	33-49 South Street, Kitchener, Ont.	Binder twine, rope, twines
Windsor Cordage Co.	Main Street, Welland, Ont.	Binder twine, rope, twines
International Harvester Co. of Canada, Ltd.	Sherman Ave. W., Hamilton, Ont.	Binder twine
Derrett, Ltd.	6 Bartlett Ave., Toronto, Ont.	Twine
N.M. Patterson	203 Hardisty St., Fort William, Ont.	Fishnets
Aero Manufacturing Co. Ltd.	Main St., Lennoxville, Que.	Cordage
Consumers' Cordage Co. Ltd.	287 St. Patrick St., Montreal, Que.	Binder twine, rope, twines
Samson Cordage Works of Canada, Ltd.	Sherbrooke, Que.	Cordage
Canada Western Cordage Co. Ltd.	Braid St., New Westminster, B.C.	Binder twine, rope
C.A. Turner Manufacturing Co. Reg'd.	199 Victoria St., Sherbrooke, Que.	Cordage
Manitoba Cordage Co. Ltd.	Portage la Prairie, Man.	Rope and twines

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