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BUREAU OF STATISTICS

CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

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REPORT

on the

CORDAGE, ROPE & TWINE INDUSTRY

in

CANADA

1926

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Published by authority of the Hon. James Malcolm, M. P.,  
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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 are 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

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J. C. Macpherson

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1926

Ottawa, November, 1927.- A report is herewith presented on the Cordage, Rope and Twine Industry in Canada for the calendar year 1926. The number of establishments reporting operations was 11 an increase ~~two~~ over 1925, of which 6 were in Ontario, 3 in Quebec and 1 in Nova Scotia and 1 in British Columbia. A summary of the principal statistics of the industry compared for the calendar-year 1925 and 1926 is given in Table 1.

Table 1. - Principal Statistics compared for 1925 and 1926.

		1 9 2 5	1 9 2 6
Establishments	No.	9	11
Capital investment, total	\$	9,440,617	15,679,569
Fixed capital	\$	4,011,665	5,774,524
Working capital	\$	5,428,952	9,905,045
Employees on salaries - Male	No.	67	89
Female	No.	22	28
Salaries	\$	181,717	253,092
Employees on wages - average number -			
Male	No.	851	1,051
Female	No.	288	346
Wages	\$	1,120,084	1,335,033
Cost of fuel and power	\$	114,813	155,934
Power installation - Units	No.	140	199
Capacity	H.P.	5,673	7,792
Cost of materials	\$	5,795,287	7,566,817
Gross value of products	\$	8,665,441	10,574,682
Net value of products	\$	2,870,154	3,007,865



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THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1926.

PRODUCTION

The quantity and value of the products of the industry during the calendar year 1926 is shown by provinces in table 2. To avoid disclosure of information concerning the operations of individual establishments, statistics for the provinces of Nova Scotia, Quebec and British Columbia have been combined and are shown throughout this report as "Other provinces". The total value of production in 1925 was \$8,665,441 whilst for the period covered by this report the amount recorded was \$10,574,682 or an increase in the value of production of \$1,909,241 or over 22 per cent.

Table 2. - Production by provinces, 1926<sup>1</sup>

Principal Products			CANADA		ONTARIO		OTHER PROVINCES x	
			Quantity	Value	Quantity	Value	Quantity	Value
				\$		\$		\$
Binder twine:-	All manila	pound	1,630,550	307,500	730,550	120,480	900,000	187,020
	Chiefly manila	"	10,459,807	1,429,068	10,297,735	1,407,042	162,072	22,026
	All sisal	"	7,937,070	902,264	7,937,070	902,264	-	-
	Chiefly sisal	"	38,403,656	4,972,266	33,339,379	4,251,640	5,064,279	720,626
Twines for sale:-	All flax	"	9,676	5,719	9,676	5,719	-	-
	All hemp	"	398,437	116,220	330,155	106,342	68,282	9,878
	All cotton	"	9,622	5,043	9,622	5,043	-	-
	All jute	"	2,410,487	426,925	1,097,721	200,079	1,312,766	226,846
Rope:-	Manila	"	6,922,914	1,447,691	2,325,594	493,577	4,597,320	954,114
	Sisal	"	4,588,351	711,862	1,757,932	262,233	2,830,419	449,629
	Hemp	"	68,425	32,772	11,800	4,012	56,625	28,760
	Jute	"	29,000	5,011	-	-	29,000	5,011
	All other	"	508,105	86,091	23,316	6,639	484,789	79,452
	Aero cord	m.ft.	3,655,746	71,433	-	-	3,655,746	71,433
	Hemp yarns for sale	pound	345,629	48,388	-	-	345,629	48,388
	All other products	"	-	6,429	-	6,429	-	-
TOTALS			-	10,574,682	-	7,771,499	-	2,803,163

x Includes Nova Scotia 1, Quebec 3, British Columbia 1.





CAPITAL INVESTMENT

The capital invested in the industry during the calendar year 1926 is given by provinces in Table 3. The total capitalization showed a very considerable expansion, the amount in 1925 being \$9,440,617, whilst in 1926 the total reported was \$15,679,569, an increase of \$6,238,952 or 66 per cent. This increase is due principally to the addition of three new plants. Of this total the province of Ontario was accountable for \$13,287,310 or 84.7 per cent, the remaining 15.3 per cent being distributed among the other three provinces.

Table 3. - Capital investment by provinces, 1926.

Provinces	Fixed Capital Land, buildings, fixtures, machin- ery and tools	Working Capital Materials on hand, stocks in process, etc.	Cash, trading and operating accounts, etc.	Total Capital
	\$	\$	\$	\$
CANADA	5,774,524	5,859,920	4,045,125	15,679,569
Ontario	4,750,527	4,773,840	3,762,943	13,287,310
Other provinces	1,023,997	1,086,080	282,182	2,392,259

EMPLOYEES, SALARIES AND WAGES

The total number of persons employed in the industry during the years 1926 and 1925 is given in Table 4 by (a) classes of employment (b) sex and (c) salary and wages payments. The total number of employees in all classes rose from 1,228 in 1925 to 1,574 in 1926, an increase of 286 or 23 per cent. The payroll also showed a corresponding increase, the total in 1925 being \$1,301,801 whilst for the period covered by this report the amount was \$1,591,125, an increase of \$289,324 or approximately 22 per cent.

Table 4. - Employees, Salaries and wages, 1926 and 1925

Classes of employment	1926			1925		
	Male No.	Female No.	Sal. & Wages \$	Male No.	Female No.	Sal. & Wages \$
Employees on salaries	89	28	253,092	67	22	181,717
Employees on wages (average number)	1,051	346	1,338,033	851	288	1,120,084
TOTALS	1,140	374	1,591,125	918	310	1,301,801

OTHER EMPLOYMENT STATISTICS

The number of days the factories were in operation during the calendar year 1926 together with the number of hours per day and per week normally worked by wage-earners is shown in Table 5. The number of wage earners employed during the same period is given by sex and by months in Table 6. Employment reached its maximum in April with a total of 1,624 whilst the minimum number reported was 1,138 in the month of October.

Table 5. - Days in operation and hours worked, 1926.

Number of Establishments in operation	11	
	Total	Average
Number of days in operation on full time	2,852	259.27
Number of days in operation on part time	188	17.10
Number of days idle	304	27.63
Number of hours worked by wage earners per day or shift	15,713	9.38
Number of hours worked by wage earners per week	571	51.91

Table 6. - Wage-earners by months, 1926.

Month	Male No.	Female No.	Month	Male No.	Female No.
January	977	323	July	1,021	368
February	1,158	340	August	1,018	361
March	1,233	388	September	1,010	349
April	1,238	386	October	875	263
May	1,155	385	November	898	274
June	1,051	382	December	938	299
Total			12,572	4,115	
Average number employed during the year			1,051	346	





THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1926.

MATERIALS USED

The quantity and cost value of the principal materials used in the industry during the calendar year 1926 is given by provinces in Table 7. The total cost rose from \$5,795,287 in 1925 to \$7,566,817 in 1926, an increase of \$1,771,530. The most important item was African and other hemp, the cost of which was \$2,346,584, next in order was sisal hemp with \$2,153,292 and third place was taken by manila hemp with \$2,018,732.

Table 7. - Materials Used by provinces, 1926.

Principal materials used			CANADA		ONTARIO		OTHER PROVINCES	
			Quantity	Value \$	Quantity	Value \$	Quantity	Value \$
<u>Hard fibres:-</u>								
Manila hemp	pound		14,498,904	2,018,732	8,042,698	1,049,637	6,456,206	969,095
New Zealand hemp	"		4,325,988	361,523	3,106,222	254,703	1,219,766	106,820
African and other hemp	"		22,789,088	2,346,584	19,222,850	1,974,326	3,566,238	372,258
Sisal hemp	"		23,122,860	2,153,292	21,623,644	2,013,436	1,499,216	139,856
<u>Soft fibres:-</u>								
Hemp and hemp tow	"		493,534	66,223	354,794	46,359	138,740	19,864
Flax and flax tow	"		18,445	3,135	18,445	3,135	-	-
Jute	"		569,850	54,687	339,850	29,387	230,000	25,300
Other fibres and yarns	"		3,046	914	3,046	914	-	-
<u>Yarns purchased:-</u>								
Flax, hemp and jute	"		1,663,268	208,338	600,502	82,601	1,062,766	125,737
Cotton	"		142,705	43,170	21,775	6,197	120,930	36,973
Oils	"		10,439,717	188,475	8,650,460	148,482	1,789,257	39,993
All other materials	"		-	121,744	-	55,690	-	66,054
TOTALS			-	7,566,817	-	5,664,867	-	1,901,950



FUEL STATISTICS.

The quantity and value of the various kinds of fuel consumed in the industry during the calendar year 1926 is shown in Table 8. The total expenditure for all fuel rose from \$24,704 in 1925 to \$49,425 in 1926, an increase of \$24,741 in the two-year period. Bituminous coal was accountable for \$47,429 or 95 per cent of the total fuel cost. The cost of electric power amounted to \$106,509 in 1926 as compared with a total cost of \$90,109 in 1925.

Table 8. - Fuel Consumption, 1926

Kinds of fuel	Unit of Measure	Quantity	Cost Value \$
Bituminous coal	ton	9,074	47,429
Anthracite coal	ton	40	300
Other fuel	ton	377	1,696
Total	ton	-	49,425

POWER INSTALLATION

The power equipment of the industry for the calendar year 1926 is shown in Table 9 by (a) classes of power, (b) number of units in each class and (c) the horsepower capacity according to manufacturers' rating. The total power installed in 1925 was 140 units with a capacity of 5,673 horse power. The number of units in the year 1926 was 199 with a development of 7,792 horse power, being an increase of 59 units and 2,119 horse power.

Table 9. - Power equipment, 1926.

Classes of power	Number of units	Horse power capacity
Steam engines and turbines	4	485
Oil, gas and gasoline engines	1	2
Hydraulic turbines or water wheels	1	165
Total primary power	6	652
Electric motors operated by purchased power	193	7,140
Total power used in manufacturing	199	7,792





# CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1926.

## IMPORTS AND EXPORTS

The quantity and value of raw, partly manufactured materials and finished products imported into Canada during the calendar year 1926, is given in Table 10, by principal countries. Of the imports of raw materials 85.5 per cent came from the United States and 11.4 per cent from other countries.

Table 10. - Imports into Canada for consumption, 1926.

Articles imported	Unit of Measure	UNITED KINGDOM		UNITED STATES		OTHER COUNTRIES	
		Quantity	Value	Quantity	Value	Quantity	Value
<u>Raw Materials:-</u> Fibrilla flax fibre and flax tow	cwt.	30	328	7,751	27,677	3,560	39,013
Hemp, dressed or undressed	"	-	-	173,289	2,106,968	13,453	142,128
Jute, butts and jute	"	25	942	3,211	22,528	-	-
Fibre, Mexican, istle or tampico	"	841	13,400	12,482	38,786	604	8,538
Manila grass	"	367	3,517	54,264	718,265	2,387	22,312
Sisal grass	"	12,687	129,976	347,483	3,369,753	60,050	616,534
<u>Partly Manufactured Materials:-</u> Jute or hemp yarn	lb.	2,944,010	401,088	744,484	137,798	234,848	58,925
<u>Manufactured Articles:-</u> Sail twine of hemp or flax	"	3,235	1,567	112	48	-	-
Binder twine	"	206,955	29,925	18,099,040	2,706,508	10,013,080	1,391,545
Fishing lines, n.o.p.	-	-	10,059	-	35,729	-	150
Twines and cordage, all kinds, n.o.p.	lb.	1,969,026	342,792	540,032	155,319	102,658	16,391
Twines, n.o.p.	-	-	26,563	-	19,795	-	269
Cordage cotton, all kinds	lb.	182,200	54,967	309,431	139,580	7,174	1,997
TOTALS		-	1,015,124	-	9,468,754	-	2,297,802

The quantity and value of partly manufactured materials and finished products of the industry exported during the calendar year 1926, is given by principal countries in Table 11. The value of exports of Canadian produce decreased from \$1,475,242 in 1925 to \$1,222,213 in 1926 or over 17 per cent.

Table 11. - Exports by principal countries, 1926

Articles exported	Unit of Measure	UNITED KINGDOM		UNITED STATES		OTHER COUNTRIES	
		Quantity	Value	Quantity	Value	Quantity	Value
<u>Partly Manufactured Materials:-</u> Flax fibre and flax tow	cwt.	287	7,185	7,480	41,541	-	-
<u>Manufactured Articles:-</u> Binder twine	"	8,253	90,836	31,028	418,777	45,353	546,553
Cordage, rope and twine	"	-	16,948	-	1,514	-	98,859
TOTALS		-	114,969	-	461,832	-	645,412







THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1926.

CONSUMPTION

The approximate consumption of binder twine in Canada during the calendar years 1924, 1925 and 1926 is given in Table 12.

Table 12. Consumption of binder twine in Canada 1924, 1925 and 1926.

	1 9 2 4		1 9 2 5		1 9 2 6	
	Quantity Cwt.	Value \$	Quantity Cwt.	Value \$	Quantity Cwt.	Value \$
Production	574,209	6,698,033	482,247	5,805,011	584,311	7,611,098
Imports	269,594	3,270,706	473,865	6,671,823	283,191	4,127,978
Total	843,803	9,968,739	956,112	12,476,834	867,502	11,739,076
Exports	119,754	1,402,576	95,477	1,200,621	84,634	1,056,166
Consumption	724,049	8,566,163	860,635	11,276,213	782,868	10,682,910

APPENDIX

Cordage, Rope and Twine Manufacturers Operating in Canada, 1926.

Name of firm	Location	Products made
Consumers' Cordage Company	Wyse Road, Dartmouth, N.S.	Binder twine, rope
Brantford Cordage Company	111 Brant St., Brantford, Ont.	Binder twine
Doon Twines Limited	33-49 South Street, Kitchener, Ontario.	Binder twine, rope, twines.
Huron Cordage Co. Ltd.	Brantford, Ont.	Binder twine.
Plymouth Cordage Co.	Main Street, Welland, Ont.	Binder twine, rope, twines.
International Harvester Co. of Canada, Ltd.	Sherman Ave. W. Hamilton, Ont.	Binder twine.
Shurley and Derrett Ltd.	1080 Bloor St. W., Toronto, Ont.	Twines.
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.



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