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DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

CENSUS OF INDUSTRY

REPORT

on the

CORDAGE, ROPE & TWINE INDUSTRY

in

CANADA

1928

Published by Authority of the Hon. James Malcolm, M.P.,

Minister of Trade and Commerce

♦ ♦ ♦

OTTAWA

1929

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

Dominion Statistician:
Chief, Census of Industry:

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J.C.Macpherson

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1928.

Ottawa, October, 1929.- A report is herewith presented on the Cordage, Rope and Twine Industry in Canada for the calendar year 1928. The number of establishments reporting operations was 14, the same as in the previous year, of which 7 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 1927 and 1928 is given in Table 1.

Table 1.- Principal Statistics compared for 1927 and 1928.

		1927	1928
Establishments	No.	14	14
Capital investment, total	\$	14,890,220	12,173,549
Fixed capital	\$	5,965,331	5,346,038
Working capital	\$	8,924,889	6,827,511
Employees on salaries - Male	No.	82	87
Female	No.	24	20
Salaries	\$	287,321	276,109
Employees on wages - average number -			
Male	No.	958	826
Female	No.	376	397
Wages	\$	1,271,666	1,256,908
Cost of fuel and power	\$	139,374	132,798
Power installation - Units	No.	229	234
Capacity	H.P.	7,307	7,961
Cost of materials	\$	7,499,649	7,624,155
Gross value of products	\$	10,827,418	10,839,961
Net Value of products	\$	3,327,769	3,215,806

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 1927 and 1928. 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, 1927 and 1928.

(a) Groups of Establishments having a capital investment of	Establishments No.	1928		Establishments No.	1927	
		Total Capital \$	Average capital per establishment \$		Total Capital \$	Average Capital per establishment \$
Under \$100,000	6	229,930	38,322	6	292,441	48,740
\$100,000 to under \$500,000	3	861,801	287,267	3	795,085	265,028
\$500,000 and over	5	11,081,818	2,216,364	5	13,302,694	2,760,539
Totals	14	12,173,549	869,539	14	14,890,220	1,063,587
(b) Groups of establishments having a gross value of production of	Establishments No.	Total Gross Value of Production \$	Average Gross value per establishment \$	Establishments No.	Total Gross value of Production \$	Average Gross value per establishment \$
Under \$100,000	6	266,045	44,341	7	315,126	45,018
\$100,000 to under \$500,000	4	1,290,084	322,521	2	577,292	288,646
\$500,000 and over	4	9,283,832	2,320,958	5	9,935,000	1,987,000
Totals	14	10,839,961	774,283	14	10,827,418	773,387
(c) Groups of Establishments employing	Establishments No.	Total Employees No.	Average employees per establishment No.	Establishments No.	Total Employees No.	Average employees per establishment No.
Less than 20 persons	5	41	8.20	6	65	10.9
20 but under 100	5	278	55.60	3	148	49.3
100 persons and over	4	1,011	252.75	5	1,227	245.4
Total	14	1,330	95.00	14	1,440	102.9

1947		1948		1949		1950		1951		1952		1953		1954		1955		1956		1957		1958		1959		1960		1961		1962		1963		1964		1965		1966		1967		1968		1969		1970		1971		1972		1973		1974		1975		1976		1977		1978		1979		1980		1981		1982		1983		1984		1985		1986		1987		1988		1989		1990		1991		1992		1993		1994		1995		1996		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		2014		2015		2016		2017		2018		2019		2020		2021		2022		2023		2024		2025		2026		2027		2028		2029		2030		2031		2032		2033		2034		2035		2036		2037		2038		2039		2040		2041		2042		2043		2044		2045		2046		2047		2048		2049		2050		2051		2052		2053		2054		2055		2056		2057		2058		2059		2060		2061		2062		2063		2064		2065		2066		2067		2068		2069		2070		2071		2072		2073		2074		2075		2076		2077		2078		2079		2080		2081		2082		2083		2084		2085		2086		2087		2088		2089		2090		2091		2092		2093		2094		2095		2096		2097		2098		2099		2100		2101		2102		2103		2104		2105		2106		2107		2108		2109		2110		2111		2112		2113		2114		2115		2116		2117		2118		2119		2120		2121		2122		2123		2124		2125		2126		2127		2128		2129		2130		2131		2132		2133		2134		2135		2136		2137		2138		2139		2140		2141		2142		2143		2144		2145		2146		2147		2148		2149		2150		2151		2152		2153		2154		2155		2156		2157		2158		2159		2160		2161		2162		2163		2164		2165		2166		2167		2168		2169		2170		2171		2172		2173		2174		2175		2176		2177		2178		2179		2180		2181		2182		2183		2184		2185		2186		2187		2188		2189		2190		2191		2192		2193		2194		2195		2196		2197		2198		2199		2200		2201		2202		2203		2204		2205		2206		2207		2208		2209		2210		2211		2212		2213		2214		2215		2216		2217		2218		2219		2220		2221		2222		2223		2224		2225		2226		2227		2228		2229		2230		2231		2232		2233		2234		2235		2236		2237		2238		2239		2240		2241		2242		2243		2244		2245		2246		2247		2248		2249		2250		2251		2252		2253		2254		2255		2256		2257		2258		2259		2260		2261		2262		2263		2264		2265		2266		2267		2268		2269		2270		2271		2272		2273		2274		2275		2276		2277		2278		2279		2280		2281		2282		2283		2284		2285		2286		2287		2288		2289		2290		2291		2292		2293		2294		2295		2296		2297		2298		2299		2300		2301		2302		2303		2304		2305		2306		2307		2308		2309		2310		2311		2312		2313		2314		2315		2316		2317		2318		2319		2320		2321		2322		2323		2324		2325		2326		2327		2328		2329		2330		2331		2332		2333		2334		2335		2336		2337		2338		2339		2340		2341		2342		2343		2344		2345		2346		2347		2348		2349		2350		2351		2352		2353		2354		2355		2356		2357		2358		2359		2360		2361		2362		2363		2364		2365		2366		2367		2368		2369		2370		2371		2372		2373		2374		2375		2376		2377		2378		2379		2380		2381		2382		2383		2384		2385		2386		2387		2388		2389		2390		2391		2392		2393		2394		2395		2396		2397		2398		2399		2400		2401		2402	
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THE CANADIAN ROPE AND TWINE INDUSTRY IN CANADA, 1920.

PRODUCTION

The quantity and value of the products of the industry during the calendar year 1920 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 1927 was 10,827,418 whilst for the period covered by this report the amount recorded was 10,839,961 or an increase in the value of production of 22,543 or less than 1 per cent.

Table 3.- Production by provinces, 1920.

Principal Products	Unit of Measure	CANADA		ONTARIO		QUEBEC		OTHER PROVINCES x	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Binder Twine:-									
All manila	Pounds	1,098,900	130,345	1,098,900	130,345	-	-	-	-
Chiefly manila	"	4,479,809	476,956	4,353,500	461,651	31,160	3,887	95,149	11,418
All sisal	"	622,450	70,959	622,450	70,959	-	-	-	-
Chiefly sisal	"	32,682,550	3,142,575	32,682,550	3,142,575	-	-	-	-
All other	"	34,326,850	3,799,224	34,326,850	3,799,224	-	-	-	-
Twines for sale:-									
All flax	"	13,978	6,989	13,978	6,989	-	-	-	-
All hemp	"	1,006,348	245,523	698,246	177,743	16,000	2,560	292,102	65,220
All cotton	"	133,919	102,333	47,277	24,000	86,642	78,333	-	-
All jute	"	2,384,891	387,331	1,449,675	256,401	935,216	130,930	-	-
All sisal	"	-	-	-	-	-	-	-	-
All other	"	-	-	-	-	-	-	-	-
Rope:-									
Manila	Pounds	8,884,869	1,598,099	2,741,364	509,894	2,751,250	440,200	3,392,255	640,005
Sisal	"	3,510,178	503,238	2,049,442	266,922	595,281	77,386	865,455	130,930
Jute	"	20,680	2,895	-	-	20,680	2,895	-	-
All other	"	1,133,884	191,070	39,994	10,718	993,733	150,997	100,157	21,355
Cordage, n.s.	Ft.	2,270,847	36,470	-	-	2,270,847	36,470	-	-
Hemp yarns for sale	Pounds	408,433	83,033	-	-	-	-	408,433	83,033
All other products	"	-	62,921	-	44,752	-	10,897	-	7,272
TOTALS		-	10,839,961	-	8,922,173	-	942,555	-	975,233

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

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THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1928.

CAPITAL INVESTMENT

Capital investment in the industry as presented in table 4 shows a decline of \$2,716,671 when compared with the 1927 totals, due to a shortening in the volume of stocks of materials and finished products on hand and also of commercial paper carried. The total investment fell from \$14,890,220 to \$12,173,549 in 1928 whilst the reduction in stocks, etc. above stated totalled \$2,097,378. There was also a decrease in fixed capital of \$619,293. Of the total investment, the province of Ontario provided 83.24 per cent, Quebec 7.01 per cent and the remaining provinces 9.75 per cent.

Table 4.- Capital investment by provinces, 1928.

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	5,346,038	2,627,292	4,200,219	12,173,549
Ontario	4,207,112	2,014,003	3,912,018	10,133,133
Quebec	461,263	266,049	125,808	853,120
Other provinces	677,663	347,240	162,393	1,187,296

EMPLOYEES, SALARIES AND WAGES

The total number of persons employed in the industry during the years 1927 and 1928 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 fell from 1,440 in 1927 to 1,336 in 1928, a decrease of 104 or 7.2 per cent. The payroll also showed a corresponding decrease, the total in 1927 being \$1,558,987 whilst for the period covered by this report the amount was \$1,533,263, a decrease of \$25,724 or approximately 1.7 per cent.

Table 5.- Employees, Salaries and Wages, 1927 and 1928.

Classes of employment	1928			1927		
	Male	Female	Salaries and Wages	Male	Female	Salaries and Wages
	No.	No.	\$	No.	No.	\$
Employees on salaries	87	20	276,109	82	24	287,321
Employees on wages (average number)	826	403	1,257,154	958	376	1,271,666
TOTALS	913	423	1,533,263	1,040	400	1,558,987

OTHER EMPLOYMENT STATISTICS

The number of days the factories were in operation during the calendar year 1928 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 January with a total of 1,250 whilst the minimum number reported was 1,181 in the month of November.

Table 6.- Days in operation and hours worked, 1928.

Number of establishments in operation	1928	
	Total	Average
Number of days in operation on full time	3,971	283.64
Number of days in operation on part time	138	9.86
Number of days idle	147	10.50
Number of hours worked by wage earners per day or shift	131	9.36
Number of hours worked by wage earners per week	724	51.71

Table 7.- Wage-earners by months, 1928.

Month	Male No.	Female No.	Month	Male No.	Female No.
January	840	410	July	824	386
February	840	405	August	830	388
March	844	395	September	824	390
April	838	398	October	811	389
May	834	385	November	795	386
June	821	394	December	789	404
Total			9,890		
Average number employed during year			826		
			4,730		
			397		

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Other Employment Statistics

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 68 per cent of the employees worked 10 hours per day, whilst in Quebec 89.80 per cent worked 9 hours and 10.20 per cent worked 10 hours. Less than three per cent of the wage-earners in the Dominion worked less than 8 hours whilst but .07 per cent worked over 10 hours per day.

Table 8a.- Hours worked by wage-earners in month of highest employment, 1928.

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	40	617	690	1	2.97	45.77	51.19	.07
Ontario	21	290	675	-	2.13	29.41	68.46	-
Quebec	-	132	15	-	-	89.80	10.20	-
Other provinces	19	195	-	1	8.83	90.70	-	.47

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 9.48, whilst the average standard weekly hours worked out at 51.71 per plant.

Table 8b.- Hours of Labour per day and per week, 1928.

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	12,784	1,348	9.48	724	51.71
Ontario	9,528	986	9.66	368	52.57
Quebec	1,338	147	9.10	215	53.75
Other provinces	1,918	215	8.92	141	47.00

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1928.

MATERIALS USED

The quantity and cost value of the principal materials used in the industry during the calendar year 1928 is given by provinces in Table 9. The total cost rose from \$7,499,649 in 1927 to \$7,624,155 in 1928, an increase of \$124,506. The most important item was sisal hemp, the cost of which was \$2,750,315, next in order was African and other hemp with \$2,482,706, and third place was taken by manila hemp with \$1,171,315.

Table 9.- Materials Used by Provinces, 1928.

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.	8,740,975	1,171,315	3,459,566	492,918	2,494,923	311,987	2,786,486	366,410
New Zealand	"	3,127,017	241,847	2,243,169	179,242	217,800	18,513	666,048	44,092
African and other hemp	"	27,759,801	2,482,706	26,897,531	2,395,093	447,000	40,230	415,270	47,303
Sisal hemp	"	36,115,110	2,750,315	35,257,101	2,684,187	349,219	26,496	508,790	39,632
<u>Soft fibres:-</u> Hemp and hemp tow	"	577,962	68,650	554,807	66,102	17,160	1,888	5,995	660
Flax and flax tow	"	14,956	3,739	14,956	3,739	-	-	-	-
Jute	"	477,400	32,797	347,000	20,409	130,400	12,388	-	-
Other fibres and yarns	"	2,027,589	18,215	70,859	3,543	5,000	723	1,956,730	14,675
<u>Yarns purchased:-</u> Flax, hemp and jute	"	2,072,404	237,367	1,115,757	142,214	921,664	92,166	34,983	2,987
Cotton	"	197,021	58,804	47,277	13,716	149,744	45,088	-	-
Oils	"	11,795,077	177,507	10,905,918	149,041	327,537	13,101	561,622	15,365
All other materials (value only)	"	-	380,890	-	361,258	-	11,361	-	7,548
T O T A L S	-	-	7,624,155	-	6,511,462	-	573,941	-	538,752

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

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1928.

FUEL STATISTICS

The quantity and value of the various kinds of fuel consumed in the industry during the calendar year 1928 is shown in Table 10. The total expenditure for all fuel fell from \$31,186 in 1927 to \$30,951 in 1928, a decrease of \$235 in the two-year period. Bituminous coal was accountable for nearly 90 per cent of the total fuel cost. The cost of electric power amounted to \$101,847 in 1928 as compared with a total cost of \$108,188 in 1927.

Table 10.- Fuel Consumption, 1928.

Kinds of fuel	Unit of Measure	Quantity	Cost Value \$
Bituminous coal	ton	5,012	27,359
Other fuel	-	-	3,592
TOTAL	-	-	30,951

POWER INSTALLATION

The power equipment of the industry for the calendar year 1928 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 1927 was 229 units with a capacity of 7,807 horse power. The number of units in the year 1928 was 234 with a development of 7,961 horse power, being an increase of 5 units and 154 horse power.

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

Table 11.- Power Equipment, 1928.

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	7,596
Total power used in manufacturing	234	7,961

CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1928.

IMPORTS AND EXPORTS

The quantity and value of raw, partly manufactured materials and finished products imported into Canada during the calendar year 1928 is shown in Table 12, by principal countries. Of the value of imports of raw materials over 93 per cent came from the United States and 7 per cent from other countries. The total value of all imports was \$9,575,740, of which raw materials represented \$5,676,704, partly manufactured materials \$407,415 and wholly manufactured articles \$3,411,621.

Table 12.- Imports into Canada for consumption, 1928.

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.	2	57	6,825	14,558	810	6,376
Hemp, dressed or undressed	"	-	-	47,055	469,013	4,623	42,125
Jute, and jute butts	"	-	-	5,131	30,737	-	-
Fibre, Mexican, istle or tampico	"	21	440	26,859	199,546	463	7,696
Manila grass	"	680	4,655	36,330	372,774	15,259	131,720
Sisal grass	"	9,534	77,611	553,281	4,217,466	12,331	101,922
<u>Partly Manufactured Materials:-</u> Jute or hemp yarn	Lb.	2,067,529	323,375	822,985	132,801	98,666	31,239
<u>Manufactured Articles:-</u> Sail twine of hemp or flax	"	1,265	495	575	237	222	46
Binder twine	"	2,902,200	325,336	13,023,300	1,566,442	11,265,000	1,023,918
Fishing lines, n.o.p.	"	-	4,419	-	27,288	-	61
Yarns, twines and cordage	"	-	84,102	-	31,382	-	4,275
Cords and twine, n.o.p.	lb.	487,527	75,484	205,430	52,229	240,559	19,260
Cordage except manila exceeding 1" in circumference, n.o.p.	"	322,696	63,665	53,022	7,452	64,606	8,637
Cordage cotton, all kinds,	Lb.	136,239	36,329	111,166	49,786	2,564	578
TOTALS		-	995,968	-	7,201,711	-	1,376,061

The quantity and value of partly manufactured materials and finished products of the industry exported during the calendar year 1928, is given by principal countries in Table 13. The value of exports of Canadian produce decreased from \$2,763,675 in 1927 to \$1,375,438 in 1928 or approximately 100 per cent. Russia was the destination of 57,637 cwt. in 1928 and Argentina of 12,500 cwt.

Table 13.- Exports by principal countries, 1928.

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	lb.	1,000	100	205,800	21,518	20,900	4,500
<u>Manufactured Articles:-</u> Binder twine	"	-	-	4,107,000	419,859	7,687,100	768,517
Cordage, rope and twine	"	-	17,278	-	1,708	-	141,958
TOTALS		-	17,378	-	443,085	-	914,975

CONSUMPTION

The approximate consumption of binder twine in Canada during the calendar years 1926, 1927 and 1928 is given in Table 14.

Table 14. Consumption of binder twine in Canada 1926, 1927 and 1928.

	1926		1927		1928	
	Quantity Cwt.	Value \$	Quantity Cwt.	Value \$	Quantity Cwt.	Value \$
Production	584,311	7,611,098	616,730	7,513,784	732,105	7,620,059
Imports	283,191	4,127,978	194,414	2,291,905	279,913	2,915,696
Total	867,502	11,739,076	811,144	9,805,689	1,012,018	10,535,755
Exports	84,634	1,056,166	233,067	2,584,702	117,941	1,188,376
Available for consumption	782,868	10,682,910	578,077	7,220,987	894,077	9,347,379

APPENDIX

Cordage, Rope and Twine Manufacturers Operating in Canada, 1928.

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
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.
Derrett, Ltd.	6 Bartlett Ave., Toronto, Ont.	Twine
N. M. Patterson	203 Hardisty St., Ft. 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, Manitoba.	Rope and twines



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