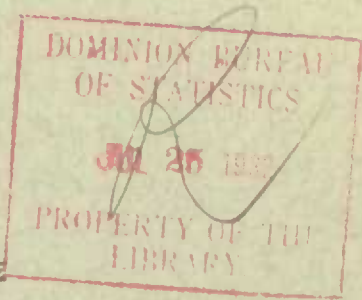
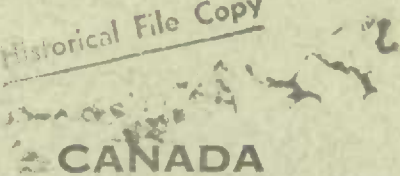


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DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY

REPORT
ON THE
CORDAGE, ROPE & TWINE INDUSTRY
IN
CANADA
1931

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

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THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1931.

The Cordage, Rope and Twine Industry suffered another decline in 1931. It will be observed in table 2 that the gross value of production in that year amounted to \$5,796,490, a decline of \$2,754,859 or 32.2 per cent. This makes a decrease of \$6,001,675 or almost 51 per cent from the peak value in 1929 of \$11,798,165. In both years the decrease is almost all accounted for in the manufacture of binder twine. In 1931 the value of production of this commodity was \$4,313,512 compared with a value of \$6,356,943 in 1930. Twines in 1931 were valued at \$301,088 against \$470,544 in 1930 and the production of all ropes in 1931 amounted to \$1,103,680 as against a value of \$1,695,519 in 1930.

As shown by table 2 the number of establishments operating in 1931 declined to 12, a loss of one establishment. Capital investment, made up of land, buildings, fixtures, machinery, tools, materials, stocks, trading and operating accounts and cash, amounted to \$11,016,184, a loss of \$1,265,476 from the preceding year. The industry furnished employment to 968 persons, 96 less than in 1930; they were paid \$1,089,292 in salaries and wages which was lower by \$97,019 than the wage account for 1930. The cost of raw materials declined \$2,170,120, the costs being \$6,059,887 in 1930 and \$3,889,767 in 1931. The value added by manufacture was \$1,906,723 a decrease of \$584,739 from 1930.

Of the twelve establishments operating in 1931, 6 were located in Ontario. They accounted for \$4,948,518 or over 85 per cent of the entire output, furnished employment to 774 persons and paid out \$872,456 in salaries and wages. Quebec followed with three establishments, an output of \$347,156: 79 employees and a salary and wage bill of \$95,733. The other three establishments were located in Nova Scotia, Manitoba and British Columbia.

The value of both imports and exports declined in 1931. Imports valued at \$5,123,925 were \$2,842,871 less than in 1930, while exports declined from \$1,766,223 in 1930 to \$1,538,146 in 1931, a loss of \$228,077.

The following tables illustrate the activities of this industry in 1931 in detail.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1931.

Table 1. - Principal Statistics by Provinces, 1931.

	Canada	Ontario	Quebec	Other Provinces
Establishments No.	12	6	3	3
Capital investment, total. \$	11,016,184	9,254,160	648,826	1,113,198
Fixed capital..... \$	5,300,531	4,098,513	455,893	746,125
Working capital \$	5,715,653	5,155,647	192,933	367,073
Employees on salaries -				
Male No.	81	55	11	15
Female No.	24	16	3	5
Salaries \$	291,278	210,030	36,792	44,456
Employees on wages - Average				
Male No.	588	447	63	78
Female No.	275	256	2	17
Wages \$	798,014	662,426	58,941	76,647
Cost of fuel and power ... \$	104,022	80,660	11,246	12,116
Power installation -				
Units No.	237	173	27	37
Capacity H.P.	7,540	6,156	822	562
Cost of materials \$	3,889,767	3,509,074	166,511	214,182
Gross value of products .. \$	5,796,490	4,948,518	347,156	500,816
Net value of products \$	1,906,723	1,439,444	180,645	286,634

Table 2. - Principal Statistics of the Cordage, Rope and Twine Industry, 1926-31.

	Estab- lish- ments	Capital	Employ- ees	Salaries and Wages	Cost of Materials	Gross value of products
	No.	\$	No.	\$	\$	\$
1926	11	15,679,569	1,514	1,591,125	7,566,817	10,574,682
1927	14	14,890,220	1,440	1,558,987	7,499,649	10,827,418
1928	14	12,173,549	1,330	1,533,017	7,624,155	10,839,961
1929	13	13,066,423	1,368	1,518,280	7,798,893	11,798,165
1930	13	12,281,660	1,064	1,186,311	6,059,887	8,551,349
1931	12	11,016,184	968	1,089,292	3,889,767	5,796,490

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1931.

Production

57,125,890 lbs. of binder twine were produced in 1931 valued at \$4,313,512 compared with a production of 59,635,476 lbs. in 1930 valued at \$6,356,943. The production of rope also dropped from 10,587,849 lbs. valued at \$1,695,519 in 1930 to 7,897,723 lbs. valued at \$1,103,680 in 1931. The output of twines also decreased. In 1930 the production amounted to 2,526,727 lbs. valued at \$470,544, compared with 1,824,716 lbs. valued at \$301,088 in 1931. The total value of production in 1931 amounted to \$5,796,490 as compared with \$8,551,349 the previous year, a drop of \$2,754,859 or about 32 per cent. To avoid disclosure of information concerning the production of individual establishments it was found impossible, in some cases, to show the production figures according to the constituent materials of the final product.

Table 3. Production of Binder Twine, Rope and Twines,
1930 and 1931.

Products	1930		1931	
	Quantity	Value	Quantity	Value
	Lbs.	\$	Lbs.	\$
Binder twine -				
Chiefly manilla	8,165,274	833,835	5,307,906	396,895
All sisal	-	-	8,234,178	644,912
Chiefly manilla and chiefly sisal	40,408,930	4,275,606	36,809,256	2,695,868
All other	11,061,272	1,247,502	6,774,550	575,837
Twines -				
All hemp	1,395,169	267,996	614,449	126,175
All cotton, all flax and all jute	1,131,558	202,548	1,133,941	164,840
All others	-	-	76,326	10,073
Rope -				
Manila	7,400,480	1,221,047	6,049,233	823,776
Sisal	1,721,769	249,463	937,548	119,314
All other	1,465,600	225,009	910,942	160,590
Yarns for sale	-	-	196,604	29,082
All other products	-	28,343	-	49,128
Total	-	8,551,349	-	5,796,490

Notes: - The statistics published in the above table include only the statistics of such manufacturing establishments as make cordage, rope and twines as their principal products. In 1930 for example, the cotton yarn and cloth industry reported a production of 3,359,780 lbs. of twines and cordages valued at \$1,260,031, while the woollen goods, n.e.s. industry reported an output of 2,300 lbs. of rope valued at \$911. Unfortunately, the figures of these industries for 1931 were not available at the time of going to press.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1931.

Materials Used.

The quantity and cost value of the principal materials used in the industry during the calendar year 1931 is given in table 4. The total cost fell from \$6,059,877 in 1930 to \$3,889,767 in 1931, a decrease of \$2,170,120. The most important item was Java hemp, the cost of which was \$990,224, next in order was Sisal hemp with \$774,834, and third place was taken by African and other hemp costing \$755,036.

Table 4. Materials Used, 1931.

Principal Materials Used	Unit of Measure	1930		1931	
		C A N A D A		C A N A D A	
		Quantity	Value	Quantity	Value
			\$		\$
<u>Hard fibres</u>					
Manila hemp	lb.	16,820,275	1,594,182	11,456,872	739,935
New Zealand hemp	"	1,941,062	132,614	1,072,257	74,720
African and other hemp.	"	23,182,321	2,237,599	12,009,007	755,036
Sisal hemp	"	18,548,991	1,609,568	14,927,684	774,834
Java hemp	"	188,000	10,411	15,330,651	990,224
All other hemp	"			1,000,000	6,000
<u>Soft fibres</u>					
Hemp and hemp tow	"	1,573,817	76,913	530,006	31,827
Flax and flax tow and jute	"	1,002,113	69,256	917,503	32,654
<u>Yarns purchased</u>					
Flax, hemp and jute ...	"	404,899	52,413	490,031	56,840
Other yarns and threads	"	97,200	24,754	73,291	15,534
<u>Twines</u>	"	19,106	13,605		22,015
<u>Oils</u>	"	9,670,265	145,496	10,056,198	141,434
<u>Wax</u>	"			390,334	14,765
All other materials			293,076		140,094
Packing and shipping materials					93,855
T O T A L S			6,059,887		3,889,767

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1931.

The apparent consumption of binder twine in Canada during the calendar years 1929, 1930 and 1931 is shown in table 5 by quantity and value.

Table 5. - Apparent Consumption of Binder Twine in Canada for the
calendar years 1929, 1930 and 1931.

	1 9 2 9		1 9 3 0		1 9 3 1	
	Quantity	Value	Quantity	Value	Quantity	Value
	Cwt.	\$	Cwt.	\$	Cwt.	\$
Production plus	819,185	8,931,712	596,355	6,356,943	571,259	4,313,512
Imports	182,258	1,845,305	103,096	1,131,239	184,123	1,302,680
Total	1,001,443	10,777,017	699,451	7,488,182	755,382	5,616,192
Less Exports	152,889	1,688,316	153,754	1,654,751	182,870	1,492,612
Available for Consumption	848,554	9,088,701	545,697	5,833,431	572,512	4,123,580

Capital Investment

The capital invested in the industry shown in table 6 shows a decrease in 1931 of \$1,265,476 as compared with 1930. The lower capital investment in 1931 was due to a reduction in the value of raw materials, finished products on hand, and cash and trading accounts amounting to \$1,291,045. Fixed capital showed a small increase of \$25,569. Of the total capital invested in 1931 amounting to \$11,016,184, the province of Ontario provided 84.0 per cent, Quebec 5.9 per cent and the other provinces 10.1 per cent.

Table 6. - Capital Investment, 1927-31.

Year	Fixed Capital	Working Capital		Total Capital
	Land, buildings, fixtures, machinery, tools and equipment	Materials on hand, stocks in process, etc.	Cash, trading and operating accounts, etc.	
	\$	\$	\$	\$
1927	5,965,331	5,401,592	3,523,297	14,890,220
1928	5,346,038	2,627,292	4,200,219	12,173,549
1929	5,354,398	4,253,506	3,458,519	13,066,423
1930	5,274,962	3,274,323	3,732,375	12,281,660
		Materials on Hand, Stocks in process, fuel and miscellaneous supplies	Inventory value of finished products	Cash, bills and accounts receivable, prepaid expenses, etc.
		\$	\$	\$
1931	5,300,531	871,603	1,320,258	3,523,792
				11,016,184

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1931.

The total number of persons employed in the industry during the years 1930 and 1931 is given in table 7 by (a) classes of employment, (b) sex and (c) salary and wage payments. The total number of employees in all classes fell from 1,064 in 1930 to 968 in 1931, a decrease of 96 or 9.0 per cent. The payroll also showed a decrease, the total in 1930 being \$1,186,311, whilst for the period covered by this report the amount was \$1,089,292, a decrease of \$97,019 or approximately 8.2 per cent.

Table 7. - Employees, Salaries and Wages, 1930 and 1931.

Classes of employment	1930			1931		
	Male	Female	Salaries and Wages	Male	Female	Salaries and Wages
	No.	No.	\$	No.	No.	\$
Employees on salaries ..	78	24	262,606	81	24	291,278
Employees on wages (average number)	649	307	919,962	588	275	798,014
Outside piece workers ..	1	5	3,743			
Totals	728	336	1,186,311	669	299	1,089,292

Table 8. - Wage earners by months, 1931.

Month	Male No.	Female No.	Month	Male No.	Female No.
January	597	267	July	594	293
February	592	271	August	585	281
March	608	288	September	496	180
April	602	283	October	583	285
May	593	286	November	613	281
June	583	295	December	607	282
Total				7,053	3,292
Average number employed during year				588	275

Table 9. - Number of Wage earners in Month of highest employment whose regular hours of work in 1931 were:

No. of Hours	No. of Employees	No. of Hours	No. of Employees
40 hours or less,		51-53 hours....	
41-43 hours	20	54 hours	
44 hours	21	55 hours	83
45-47 hours	209	56-59 hours ...	1
48 hours	66	60 hours	1
49-50 hours	563	Over 60 hours .	5

The above does not include overtime.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1931.

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 1930 and 1931. The tables further indicate the movement in capital, production and employment within the industry.

Table 10. -- Size of Establishments, Measured by Capital Investment, Gross Value of Production and Employment, 1930 and 1931.

(a) Groups of Establishments having a Capital Investment of	1930			1931		
	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	5	201,172	40,234	4	132,585	33,146
\$100,000 to under \$500,000	3	755,426	251,808	3	901,882	300,627
\$500,000 and over	5	11,325,062	2,265,012	5	9,981,717	1,996,343
Total	13	12,281,660	944,743	12	11,016,184	918,015
(b) Groups of Establishments having a gross value of production of	1930			1931		
	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	5	154,416	30,883	5	146,441	29,288
\$100,000 to under \$500,000	4	1,074,681	268,670	4	1,025,637	256,409
\$500,000 and over	4	7,322,252	1,830,563	3	4,624,412	1,541,471
Total	13	8,551,349	657,796	12	5,796,490	483,041
(c) Groups of Establishments employing	1930			1931		
	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	61	12.2	4	37	9.2
20 but under 100	5	286	57.2	5	259	51.8
100 persons and over .	3	711	237.0	3	672	224.0
Total	13	1,058	81.38	12	968	80.8

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1931.

Table 11. - Fuel Consumption, 1931.

Kinds of Fuel	Unit of Measure	Quantity	Cost Value
			\$
Coal, bituminous	ton	3,994	20,831
Coal, anthracite	ton	11	162
Coke	ton	1,626	4,362
Fuel oils	gal.	5,162	318
Total	--	--	25,673
Cost of electricity purchased	--	--	76,898
Electricity generated for own use	--	--	1,451

Table 12. - Power Equipment, 1931.

Classes of Power	Number of Units	Horse power Capacity
Steam engines and turbines	1	200
Hydraulic turbines or water wheels	1	165
Total Primary Power	2	365
Electric motors operated by purchased power ..	235	7,175
Total Power Used in Manufacturing	237	7,540
Boilers Installed	16	2,016

Table 13. - Equipment in the Cordage, Rope and Twine Industry, 1931.

	No.
Number of spinning spindles which consumed fibre during the year ..	3,903
Number of spinning spindles which consumed no fibre during the year	396
Number of twisting and doubling spindles	872
Braiding machines	36
Banding machines	3
Winding machines	1

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1931.

The quantity and value of raw, partly manufactured materials and finished products imported into Canada during the calendar year 1931 is shown in table 14 by principal countries. The total value of all imports was \$5,123,925 of which raw materials represented \$2,402,549, whilst partly manufactured materials and wholly manufactured articles totalled \$2,721,376.

Table 14. - Imports of Cordage, Rope and Twine for 1930 and 1931
by Principal Countries.

Articles Imported		1 9 3 0		1 9 3 1	
		Quantity	Value	Quantity	Value
			\$		\$
Fibrilla, flax fibre and flax tow -					
Netherlands	Cwt.	68	1,441	79	1,191
United States	"	349	2,463	19	127
Total	"	417	3,904	98	1,318
Hemp dressed or undressed -					
United States	Cwt.	27,859	201,135	19,520	94,037
New Zealand	"	683	4,667	-	-
Italy	"	288	3,155	-	-
Netherlands	"	269	4,750	-	-
Other Countries	"	-	-	2,061	10,463
Total	"	29,099	213,707	21,581	104,500
Jute and jute butts -					
United States	Cwt.	17,234	67,325	4,383	18,076
Total	"	17,234	67,325	4,383	18,076
Oakum of Flax, hemp or jute -					
United Kingdom	Cwt.	476	4,880	991	7,125
United States	"	10,994	86,158	7,448	52,088
Other Countries	"	276	2,177	566	2,955
Total	"	11,746	93,215	9,005	62,168
Esparto or Spanish grass and other grass, n.o.p. -					
Germany	Cwt.	30	161	2	13
United States	"	528	7,211	6	60
Other Countries	"	-	4	76	914
Total	"	558	7,376	84	987
Fibre, Mexican, istle or tampico -					
United Kingdom	Cwt.	563	6,340	131	2,099
United States	"	1,661	24,710	1,058	17,089
Other Countries	"	244	3,731	310	3,846
Total	"	2,468	34,781	1,499	23,034

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1931.

Table 14. - Imports of Cordage, Rope and Twine for 1930 and 1931 by Principal Countries. - Con.

Articles Imported		1 9 3 0		1 9 3 1	
		Quantity	Value	Quantity	Value
			\$		\$
Manila Fibre -					
British West Indies	Cwt.	762	4,751	-	-
United States	"	122,889	776,361	50,293	264,250
Philippines	"	8,091	50,386	13,462	65,578
Total	"	131,742	831,498	63,755	329,828
Sisal Fibre -					
United Kingdom	Cwt.	1,160	7,386	-	-
United States	"	324,777	2,470,632	387,900	1,726,543
Other Countries	"	1,752	13,745	5,620	22,181
Total	"	327,689	2,491,763	393,520	1,748,724
Coir and Coir Yarn -					
British India	Cwt.	7,145	48,124	6,284	31,528
Other Countries	"	-	-	25	277
Total	"	7,145	48,124	6,309	31,805
Vegetable Fibre, n. o. p. -					
United Kingdom	Cwt.	1,600	24,588	1,597	17,655
United States	"	5,600	59,298	9,230	42,568
New Zealand	"	3,162	19,994	1,347	5,797
Philippine Islands	"	12,776	94,841	654	2,726
Other Countries	"	3,954	26,954	3,022	13,363
Total	"	27,092	225,675	15,850	82,109
Cord and Twine, Cotton, n.o.p. -					
United Kingdom	Lbs.	101,560	22,894	33,975	6,846
United States	"	246,825	102,201	67,125	26,035
Other Countries	"	1,159	512	835	223
Total	"	349,544	125,607	101,935	33,104
Binder Twine -					
United Kingdom	Cwt.	22,600	277,334	26,396	226,640
United States	"	17,933	234,814	1,589	18,162
Netherlands	"	61,358	604,107	152,294	1,020,577
Other Countries	"	1,205	14,984	3,844	37,301
Total	"	103,096	1,131,239	184,123	1,302,680

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1931.

Table 14. - Imports of Cordage, Rope and Twine for the years 1930 and 1931
by Principal Countries. - Con.

Articles Imported	1930		1931	
	Quantity	Value	Quantity	Value
		\$		\$
Bank, Cod and Other Fish				
Lines and Twines, Etc. -				
United Kingdom (value only)	-	1,248,629	-	724,411
United States	" "	842,372	-	338,435
France	" "	26,868	-	11,340
Germany	" "	1,253	-	1,252
Japan	" "	31,916	-	28,500
Netherlands	" "	10,508	-	7,522
Norway	" "	17,200	-	21,607
Other Countries	" "	15,247	-	2,968
Total	" "	2,193,993	-	1,136,035
Cordage, Head Ropes, Etc., used in Fisheries -				
United Kingdom Lb.	309,908	41,255	259,946	29,360
United States	" 389,318	92,868	208,405	41,975
Other Countries	" 19,346	2,453	142,773	14,113
Total	" 718,572	136,576	611,124	85,448
Cords and Twines, n.o.p. -				
United Kingdom Lb.	304,027	52,369	120,253	18,433
United States	" 274,748	79,127	136,806	27,178
Germany	" 122,245	13,840	13,376	1,434
Other Countries	" 51,049	6,017	82,578	6,455
Total	" 752,069	151,353	353,013	53,500
Cordage, Manila, Sisal, Etc., Exceeding 1" in circumference -				
United Kingdom Lb.	1,347,775	168,994	810,739	74,230
United States	" 83,820	11,182	127,948	8,466
Other Countries	" 31,268	4,940	37,342	4,602
Total	" 1,462,863	185,116	976,029	87,298
Cordage, Exceeding 1" in Circumference, n. o. p. -				
United Kingdom Lb.	54,640	20,303	51,264	11,282
United States	" 15,336	4,480	119,355	12,029
Other Countries	" 1,980	761	-	-
Total	" 71,956	25,544	170,619	23,311

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1931.

Table 14. - Imports of Cordage, Rope and Twine for the years 1930 and 1931 by Principal Countries. - Con.

	1 9 3 0	1 9 3 1
	Value	Value
	\$	\$
Summary of Imports by Principal Countries, 1930 and 1931. -		
United Kingdom	1,874,972	1,118,081
United States	5,062,337	2,687,118
British India	48,124	31,528
British West Indies	4,751	-
New Zealand	24,661	5,797
France	26,868	11,340
Germany	15,254	2,699
Italy	3,155	-
Japan	31,916	28,500
Netherlands	620,806	1,029,290
Norway	17,200	21,607
Philippine Islands	145,227	68,304
Other Countries	91,525	119,661
Total Imports	7,966,796	5,123,925

Table 15. - The total value of Canadian Manufactures Exported during the calendar year 1931 was \$1,538,146, of which Binder Twine represented \$1,492,612, or slightly over 97 per cent.

Exports of Cordage, Rope and Twine 1930 and 1931 by Principal Countries.

	1 9 3 0		1 9 3 1	
Articles Exported	Quantity	Value	Quantity	Value
	Cwt.	\$	Cwt.	\$
Flax Fibre and Flax Tow -				
United Kingdom	14	224	-	-
United States	1,139	3,234	146	1,312
Total	1,153	3,458	146	1,312
Binder Twine -				
United Kingdom	39,424	396,760	57,528	418,488
United States	80,503	916,599	107,857	932,140
Argentina	7,550	90,600	7,500	75,000
British South Africa	8,569	82,259	9,930	66,545
Other Countries	17,708	168,533	55	439
Total	153,754	1,654,751	182,870	1,492,612

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1931.

Table 15. - Exports of Cordage, Rope and Twine 1930 and 1931 by Principal Countries - Con.

Articles Exported	1 9 3 0		1 9 3 1	
	Quantity	Value	Quantity	Value
	Cwt.	\$	Cwt.	\$
Cordage, Rope and Twine, n. o. p. -				
United Kingdom	-	14,649	-	8,419
United States	-	1,007	-	2,723
British Guiana	-	8,267	-	2,804
Trinidad and Tobago	-	7,154	-	2,945
Other British West Indies	-	13,508	-	4,500
Newfoundland	-	5,396	-	3,470
Fiji	-	1,184	-	2,321
New Zealand	-	7,032	-	2,677
Colombia	-	31,739	-	3,909
Peru	-	9,591	-	6,251
Other Countries	-	8,487	-	4,203
Total	-	108,014	-	44,222
Summary of Exports -				
Flax fibre and flax tow	-	3,458	-	1,312
Binder twine	-	1,654,751	-	1,492,612
Cordage, rope and twine, n.o.p.	-	108,014	-	44,222
Total	-	1,766,223	-	1,538,146

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1931.

A P P E N D I X

Cordage, Rope and Twine Manufacturers Operating in Canada, 1931.

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

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