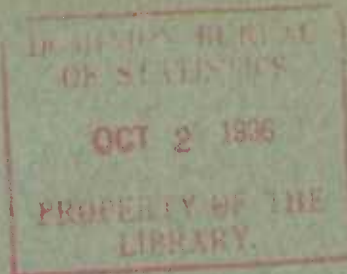


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**CANADA**  
**DEPARTMENT OF TRADE AND COMMERCE**  
**DOMINION BUREAU OF STATISTICS**  
**CENSUS OF INDUSTRY**  
**GENERAL MANUFACTURES BRANCH**

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**REPORT**  
**ON THE**  
**CORDAGE, ROPE & TWINE INDUSTRY**  
**IN**  
**CANADA**  
**1935**

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DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
GENERAL MANUFACTURES BRANCH  
OTTAWA - CANADA

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THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1935.

The eleven establishments listed in the cordage, rope and twine industry in 1935 reported a gross value of production of \$5,127,087 and a capital investment in fixed and current assets of \$10,991,086. Persons employed in the industry numbered 1,001 with a salary and wage bill amounting to \$1,022,264, while materials used had a value at the factory of \$2,628,585. The value added by manufacture amounted to \$2,390,856.

Although there was an increase of \$308,501 or 6.4 per cent in the gross value of production, the physical volume of production was, however, somewhat higher, the increase in 1935 as compared with the previous year being 7.6 per cent. There was also an increase of forty nine in the number of persons employed and \$40,611 in the amount paid out in salaries and wages. The capital invested and materials used were both higher, the former increased by \$574,740 and the latter by \$95,698, while the value added by manufacture increased by \$209,524 or 9.6 per cent.

Ontario is the leading producer of cordage, rope and twine. The seven plants located there produced in 1935, 81.2 per cent of the total output, they furnished employment to 84.1 per cent of the employees and contributed 90.6 per cent of the total capital invested in the industry.

From the standpoint of both volume and value, binder twine is the principal product manufactured by this industry. In 1935 there were produced 55,169,044 pounds valued at the factory at \$3,329,276 or at an average selling price at the factory of 6.0 cents per pound as against 6.3 cents per pound in 1934. The output of binder twine represented 64.9 per cent of the total value of all products made in 1935. The output of rope totalled 11,026,506 pounds valued at \$1,266,755, twines for sale 3,023,808 pounds valued at \$372,183, and all other products had a value of \$158,873. Compared with 1934, the output of binder twine was 1 per cent lower, while twines for sale and rope were respectively 23 per cent and 31.8 per cent higher. Table 3 gives detailed statistics of production for 1934 and 1935, while table 4 gives the consumption of binder twine in Canada for the past few years.

Hard fibres such as manila hemp, African hemp and sisal, Java and Mexican sisal, etc., constituted the principal materials used by the industry. The amount used in 1935 was valued at \$2,084,489 or over 79 per cent of the total cost of all materials used.

Imports and exports of finished products and raw materials used by the industry during 1934 and 1935 are given in tables 13 and 14.



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1935.

Table 1. - Principal Statistics, 1926-1935.

Year and Provinces	Estab-lish-ments	Capital Invested	Em- ployees	Salaries and Wages	Cost of Materials Used	Gross Value of Production
	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	1,058	1,182,568	6,059,887	8,551,349
1931 .....	12	11,016,184	968	1,089,292	3,889,767	5,796,490
1932 .....	12	10,184,932	998	1,104,650	2,680,830	5,017,931
1933 .....	11	9,839,262	1,015	1,027,460	2,451,395	4,740,612
<u>1 9 3 4</u>						
CANADA .....	11	10,416,346	952	981,653	2,532,887	4,818,586
Ontario .....	7	9,384,503	793	796,384	2,191,170	4,097,228
Other Provinces .....	4	1,031,843	159	185,269	341,717	721,358
<u>1 9 3 5</u>						
CANADA .....	11	10,991,086	1,001	1,022,264	2,628,585	5,127,087
Ontario .....	7	9,952,251	842	852,425	2,225,044	4,164,709
Other Provinces <sup>x</sup> .....	4	1,038,835	159	169,839	403,541	962,378

<sup>x</sup>Included in 1935

Quebec ..... 2 Establishments.

Nova Scotia ..... 1 Establishment.

British Columbia ..... 1 Establishment.

Table 2. - Comparison of Principal Statistics, 1934 and 1935.

Items		1 9 3 4	1 9 3 5	+ Increase - Decrease
Establishments reporting .....	No.	11	11	...
Capital invested .....	\$	10,416,346	10,991,086	+ 574,740
Employees on salaries -				
Total .....	No.	109	101	- 8
Male .....	No.	81	77	- 4
Female .....	No.	28	24	- 4
Total salaries .....	\$	255,014	247,566	- 7,448
Employees on wages -				
Monthly average .....	No.	843	900	+ 57
Male .....	No.	597	618	+ 21
Female .....	No.	246	282	+ 36
Total wages .....	\$	726,639	774,698	+ 48,059
Power Equipment -				
Units .....	No.	288	309	+ 21
Horse-power capacity .....	H.P.	7,515	7,610	+ 95
Cost of fuel and electricity .....	\$	104,367	107,646	+ 3,279

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1935.

Table 2. - Comparison of Principal Statistics, 1934 and 1935. - (Concl'd.)

Items	1 9 3 4	1 9 3 5	+ Increase - Decrease
Cost of materials used .....	\$ 2,532,887	2,628,585	+ 95,698
Gross value of production .....	\$ 4,818,586	5,127,087	+ 308,501
Value added by manufacture .....	\$ 2,181,332	2,390,856	+ 209,524

Table 3. - Production, 1934 and 1935.

Principal Products	Unit of Measure	1 9 3 4		1 9 3 5	
		Quantity	Selling Value at Factory	Quantity	Selling Value at Factory
			\$		\$
Binder twine -					
Chiefly sisal .....	Pound	41,568,323	2,703,343	41,848,974	2,535,183
All sisal and other ..	"	13,616,454	767,197	13,320,070	794,093
Twines for sale -					
Flax, hemp, jute, sisal, etc. ....	"	2,457,146	341,718	3,023,808	372,183
Rope -					
Manila .....	"	5,847,559	639,698	8,213,203	913,496
Sisal .....	"	2,058,898	207,692	2,301,899	268,292
Jute .....	"	32,806	4,958	28,665	3,151
Hemp .....	"	243,051	26,825	253,204	44,187
All other .....	"	182,996	29,032	229,535	37,629
All other products, unable to specify ....	-	-	98,123	-	158,873
TOTAL PRODUCTION ..	-	-	4,818,586	-	5,127,087

Table 4. - Consumption of Binder Twine in Canada for the Years 1933-1935.

	1 9 3 3		1 9 3 4		1 9 3 5	
	Quantity	Value	Quantity	Value	Quantity	Value
	Cwt.	\$	Cwt.	\$	Cwt.	\$
Production .....	656,055	3,494,129	551,848	3,470,540	551,690	3,329,276
plus Imports .....	225,478	1,280,755	156,165	1,004,757	263,749	1,602,702
TOTAL .....	881,533	4,774,884	708,013	4,475,297	815,439	4,931,978
less Exports .....	150,313	705,442	113,883	674,890	192,078	1,107,376
AVAILABLE FOR CONSUMPTION ..	731,220	4,069,442	594,130	3,800,407	623,361	3,824,602

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1935.

Table 5. — Materials Used, 1934 and 1935.

Principal Materials	Unit of Measure	1 9 3 4		1 9 3 5	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
			\$		\$
<b>HARD FIBRES —</b>					
Manila hemp .....	Pound	13,642,266	541,972	14,384,928	569,689
New Zealand hemp .....	"	198,634	8,755	250,906	12,143
African hemp and sisal ..	"	10,455,975	410,578	10,745,347	405,885
Java sisal .....	"	9,403,659	327,418	7,250,710	264,703
Mexican sisal .....	"	17,855,340	585,029	21,852,104	707,230
Other hard fibres .....	"	4,126,338	153,655	3,197,043	124,839
<b>SOFT FIBRES —</b>					
Hemp and hemp tow .....	Pound	363,845	30,747	356,268	33,329
Flax, flax tow and jute ..	"	1,132,446	42,697	1,059,791	37,155
Twines, cotton and linen ..	"	83,643	47,239	74,530	51,615
<b>Yarns, purchased —</b>					
Flax, hemp and jute .....	Pound	590,976	56,591	801,706	71,295
Cotton and other .....	"	65,157	16,306	93,280	23,634
Oils .....	"	11,436,801	121,178	10,617,412	119,777
Wax .....	"	48,769	3,233	57,518	4,095
Degras .....	"	137,389	3,694	157,603	4,801
Tar, tallow, grease, soap, starch, dyes and other chemicals .....	"	—	18,499	—	11,201
Burlap .....	"	—	73,608	—	79,744
All other materials .....	"	—	65,690	—	77,535
Packing and shipping materials .....	"	—	25,998	—	29,915
<b>TOTAL COST OF MATERIALS USED .....</b>					
			2,532,887		2,628,585



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1935.

Table 6. - Capital Invested, 1927-1935.

Year and Provinces	Fixed Capital	Working Capital			Total Capital
	Land, buildings, fixtures, machinery, tools, etc.	Materials on hand, Stocks in process, Fuel and Mis- cellaneous supplies, etc.	Inventory value of finished products on hand	Cash, bills and accounts receivable, Prepaid expenses, 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
1931 .....	5,300,531	871,603	1,320,258	3,523,792	11,016,184
1932 .....	5,085,458	494,200	982,181	3,623,093	10,184,932
<u>1 9 3 3</u>					
CANADA .....	5,073,234	914,468	1,184,981	2,666,579	9,839,262
Ontario .....	4,080,095	730,968	1,003,616	2,592,411	8,407,090
Other Provinces ..	993,139	183,500	181,365	74,168	1,432,172
<u>1 9 3 4</u>					
CANADA .....	4,634,525	1,335,489	1,925,634	2,520,698	10,416,346
Ontario .....	4,059,159	1,140,316	1,752,367	2,432,661	9,384,503
Other Provinces ..	575,366	195,173	173,267	88,037	1,031,843
<u>1 9 3 5</u>					
CANADA .....	4,683,573	2,336,790		3,970,723	10,991,086
Ontario .....	4,117,204	2,000,619		3,834,428	9,952,251
Other Provinces ..	566,369	336,171		136,295	1,038,835

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1935.

Table 7. - Employees by Sex and Remuneration, 1934 and 1935.

		1 9 3 4	1 9 3 5
<b>Salaried Employees -</b>			
Total .....	No.	109	101
Male .....	No.	81	77
Female .....	No.	28	24
Total salaries .....	\$	255,014	247,566
<b>Wage-earners -</b>			
Monthly average .....	No.	843	900
Male .....	No.	597	618
Female .....	No.	246	282
Total wages .....	\$	726,639	774,698
<b>All Employees -</b>			
Total .....	No.	952	1,001
Male .....	No.	678	695
Female .....	No.	274	306
Salaries and wages .....	\$	981,653	1,022,264

Table 8. - Monthly Employment of Wage-earners, 1933-1935.

	1 9 3 3			1 9 3 4			1 9 3 5		
Months	Male	Female	Total	Male	Female	Total	Male	Female	Total
	No.	No.	No.	No.	No.	No.	No.	No.	No.
January .....	572	287	859	598	266	864	587	279	866
February .....	579	290	869	605	267	872	584	279	863
March .....	584	286	870	600	270	870	587	274	861
April .....	588	276	864	613	266	879	597	269	866
May .....	595	294	889	608	260	868	599	271	870
June .....	729	286	1,015	614	260	874	593	261	854
July .....	654	279	933	653	260	913	618	262	880
August .....	630	292	922	531	167	698	631	277	908
September .....	628	319	947	496	164	660	672	310	982
October .....	601	322	923	602	265	867	674	315	989
November .....	595	289	884	614	261	875	675	314	989
December .....	596	280	876	606	263	869	612	271	883
MONTHLY AVERAGE	614	293	907	597	246	843	618	282	900



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1935.

Table 9. - Number of Wage-earners in Month of Highest Employment and Their Regular Hours of Work in 1934 and 1935.

Number of Hours Worked per Week	Number of Employees		Number of Hours Worked per Week	Number of Employees	
	1934	1935		1934	1935
40 hours or less .....	-	-	51-53 hours .....	-	-
41-43 hours .....	-	-	54 hours .....	-	-
44 hours .....	-	102	55 hours .....	74	75
45-47 hours .....	211	251	56-59 hours .....	-	-
48 hours .....	84	99	60 hours and over ....	-	4
49-50 hours .....	571	489			

The above table does not include overtime.

Table 10. - Power Installation, 1934 and 1935.

Classes of Power	1 9 3 4		1 9 3 5	
	Number of Units	Manufacturers' Rating of Horse-power Capacity	Number of Units	Manufacturers' Rating of Horse-power Capacity
Steam engines and steam turbines .....	1	200	1	200
Hydraulic turbines or water wheels .....	-	-	-	-
Electric motors operated by purchased power <sup>x</sup> .....	287	7,315	305	7,380
TOTAL POWER USED IN MANUFACTURING .....	288	7,515	306	7,580
Boiler installation .....	12	2,016	13	1,986

<sup>x</sup> In addition to these figures, there were also in 1935, 3 motors with a rating of 30 horse-power in reserve or idle.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1935.

Table 11. - Consumption of Fuel and Electricity, 1934 and 1935.

Kinds of Fuel	Unit of Measure	1 9 3 4		1 9 3 5	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
			\$		\$
Coal ..	Ton				
Bituminous .....	(2000 Lbs.)	5,373	25,782	4,919	25,436
Anthracite .....	"	..	..	..	..
Coke (for fuel only) ..	"	14	150	10	118
Fuel and diesel oil ...	Imp. Gal.	..	..	..	..
Other fuel .....	..	..	187	..	208
TOTAL COST OF FUEL		..	26,119	..	25,762
Electricity purchased					
(including service charges) .....					
	Kw. H.	7,547,347	78,248	7,749,571	81,884
TOTAL COST OF FUEL AND ELECTRICITY ..		..	104,367	..	107,646

Table 12. - Mechanical Equipment, 1934 and 1935.

	1 9 3 4			1 9 3 5		
	Total	Active at some time during the year	Idle entire year	Total	Active at some time during the year	Idle entire year
	No.	No.	No.	No.	No.	No.
Spindles which consumed fibre during the year .	3,931	3,931	..	3,859	3,859	..
Spindles which consumed no fibre during the year .	262	..	262	40	40	..
Twisting and doubling spindles	714	714	..	543	543	..
Looms .....	10	10	..	5	5	..
Braiding machines.	95	87	8	110	110	..
Rope machines ....	112	111	1	112	111	1
Winding machines .	481	481	..	485	485	..
All other .....	..	..	..	6	6	..
TOTAL .....	5,605	5,334	271	5,160	5,159	1

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1935.

Table 13. - Imports of Cordage, Rope and Twine, 1934 and 1935.

Articles Imported	Unit of Measure	1 9 3 4		1 9 3 5	
		Quantity	Value	Quantity	Value
			\$		\$
Fibrilla, flax fibre and flax tow .....	Cwt.	3,459	6,412	4,635	8,022
Hemp, dressed or undressed .....	"	22,473	79,741	17,435	88,143
Jute and jute butts ...	"	15,676	47,472	12,715	41,823
Oakum of flax, hemp or jute .....	"	9,217	60,295	11,740	69,890
Sisal, istle and tampico fibre .....	"	354,828	1,247,463	431,376	1,434,734
Manila fibre .....	"	128,002	453,851	93,196	354,723
Vegetable fibres, n.o.p.	"	7,726	54,867	19,847	95,487
Coir and coir yarn ....	"	6,283	23,093	6,952	21,781
Rovings, yarns and warps, wholly of cotton, including threads, generally used for sewing, stitching, packaging and other purposes, n.o.p. ....	Lb.	517,259	203,324	557,265	219,176
Rovings, yarns and warps, wholly or in part of vegetable fibres, including yarn twist, cords and twine, generally used for packaging and other purposes, n.o.p., not to contain silk, artificial silk nor wool .....	Lb.	727,675	89,254	522,301	80,559
Cord and twine, cotton, n.o.p. ....	"	86,108	21,574	79,571	20,034
Rovings, yarns and warps, wholly of jute, including yarn twist, cords and twines, generally used for packaging and other purposes, n.o.p. (From June 28, 1934).	Lb.	259,882	19,654	310,240	26,037
Sail twine of hemp or flax for the manufacture of boats' and ships' sails ....	Lb.	740	246	482	148



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1935.

Table 13. - Imports of Cordage, Rope and Twine, 1934 and 1935. - (Concl'd.)

Articles Imported	Unit of Measure	1934		1935	
		Quantity	Value \$	Quantity	Value \$
Binder twine .....	Cwt.	156,165	1,004,757	263,749	1,602,702
Fishing nets and nettings of all kinds, threads, twines, marlines, fishing lines of vegetable fibre, not to include such articles used for sportsmen's purposes .....	..	-	1,442,839	-	1,334,220
Cordage, manila, sisal and New Zealand fibre, exceeding one inch in circumference .....	Lb.	663,139	47,998	688,633	55,203
Cordage, exceeding one inch in circumference, n.o.p. ....	Lb.	371,925	42,138	314,727	35,752
Rope and cordage of cotton, hemp, manila, or other vegetable fibre, not exceeding one and one-half inches in circumference, to be used for fishing purposes, or for the construction and repair of fishing nets; the foregoing not to include such articles used for sportsmen's purposes .....	Lb.	1,087,365	129,898	845,376	88,113

Table 14. - Exports of Cordage, Rope and Twine, 1934 and 1935.

Articles Exported	Unit of Measure	1934		1935	
		Quantity	Value \$	Quantity	Value \$
Flax fibre and flax tow .....	Cwt.	258	1,144	754	7,306
Binder twine .....	"	113,883	674,890	192,078	1,107,376
Cordage, rope and twine, n.o.p. ....	..	-	46,088	-	81,571

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1935.

A P P E N D I X

Cordage, Rope and Twine Manufacturers Operating in Canada in 1935.

<u>Name of Firm</u>	<u>Location</u>	<u>Products Made</u>
<u>NOVA SCOTIA</u>		
Consumers' Cordage Company Limited,	Wyse Road, Dartmouth.	Rope
<u>QUEBEC</u>		
C. A. Turner Manufacturing Company, Reg'd.,	199 Victoria Street, Sherbrooke.	Cordage.
The C. N. Bolduc Manufacturing Co.,	Lennoxville.	Cordage.
<u>ONTARIO</u>		
The Brantford Cordage Company Ltd.,	111 Brant Street, Brantford.	Binder twine.
John S. Brooks,	Dunnville.	Fish nets.
Canadian Fish Net Company Limited,	203 Hardisty Street, Fort William.	Fish nets.
International Harvester Company of Canada, Limited,	Sherman Avenue North, Hamilton.	Binder twine.
Doon Twines Limited,	33-49 South Street, Kitchener.	Twines, Ropes.
Derrett Limited,	6 Bartlett Avenue, Toronto.	Twine, Rope.
Plymouth Cordage Company,	229 Plymouth Road, Welland.	Binder twine, Rope.
<u>BRITISH COLUMBIA</u>		
Canada Western Cordage Company Ltd.,	Braid Street, New Westminster.	Binder twine, Twine, Rope.

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