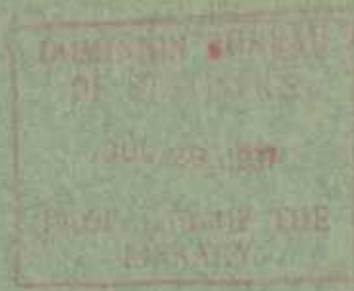


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**CANADA**  
**DEPARTMENT OF TRADE AND COMMERCE**  
**DOMINION BUREAU OF STATISTICS**  
**CENSUS OF INDUSTRY**  
**GENERAL MANUFACTURES BRANCH**

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**REPORT**  
**ON THE**  
**CORDAGE, ROPE & TWINE INDUSTRY**  
**IN**  
**CANADA**  
**1936**

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

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THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1936.

The eleven establishments listed in the cordage, rope and twine industry in 1936 reported a gross value of production of \$6,543,198 and a capital investment in fixed and current assets of \$9,949,490. Persons employed in the industry numbered 1,036 with a salary and wage bill amounting to \$1,127,172, while materials used had a value at the factory of \$3,408,977. The value added by manufacture amounted to \$3,012,978.

Although there was an increase of \$1,416,111 or 27.6 per cent in the gross value of production, the physical volume, however, was only 9.4 per cent greater, indicating an increase in the selling value of the commodities produced by this industry. Reflected in the increased output is an increase of 35 in the number of persons employed and \$104,908 in the salaries and wages paid. Both the cost of materials and the value added by manufacture were higher in 1936 as compared with the previous year, the former increased by \$780,392 and the latter by \$622,122. The capital invested was, however, \$1,041,596 lower, the decrease being due to a decline in the amount of bills and accounts receivable and cash on hand.

Ontario is the leading producer of cordage, rope and twine. The seven plants located there produced in 1936, 84 per cent of the total output, they furnished employment to 85 per cent of the employees and contributed 89 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 1936 there were produced 64,365,006 pounds valued at the factory at \$4,493,412 or at an average selling price of 7.0 cents per pound as against 6.0 cents per pound in 1935. The output of binder twine represented 68.6 per cent of the total value of the products made in 1936. The output of rope totalled 9,799,736 pounds valued at \$1,390,762, twines for sale 3,232,188 pounds valued at \$438,535 and all other products had a value of \$220,489. Compared with 1935, the output of binder twine was 16.6 per cent higher and twines made for sale 6.9 per cent higher while the production of rope declined 10.9 per cent. Table 3 gives detailed statistics of production for 1935 and 1936 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., constitute the principal materials used by the industry. The amount used in 1936 was valued at \$2,792,543 or over 81 per cent of the total cost of materials used.

Imports and exports of finished products and raw materials used by the industry during 1935 and 1936 are given in tables 13 and 14.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1936.

Table 1. - Principal Statistics, 1926-1936.

Year and Provinces	Estab-lish-ments No.	Capital Invested \$	Em- ployees No.	Salaries and Wages \$	Cost of Materials Used \$	Gross Value of Production \$
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
1934 .....	11	10,416,346	952	981,653	2,532,887	4,818,586
<b>1 9 3 5</b>						
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 ...	4	1,038,835	159	169,839	403,541	962,378
<b>1 9 3 6</b>						
CANADA .....	11	9,949,490	1,036	1,127,172	3,408,977	6,543,198
Ontario .....	7	8,812,698	884	961,496	2,897,371	5,497,196
Other Provinces x .	4	1,136,792	152	165,676	511,606	1,046,002
x Included in 1936	Quebec ..... 2 establishments. Nova Scotia ..... 1 establishment. British Columbia ..... 1 establishment.					

Table 2. - Comparison of Principal Statistics, 1935 and 1936.

Items	1 9 3 5	1 9 3 6	+ Increase - Decrease
Establishments reporting .....	No. 11	11	-
Capital invested .....	\$ 10,991,086	9,949,490	- 1,041,596
Employees on salaries -			
Total .....	No. 101	103	+ 2
Male .....	No. 77	78	+ 1
Female .....	No. 24	25	+ 1
Total salaries .....	\$ 247,566	248,385	+ 819
Employees on wages -			
Monthly average .....	No. 900	933	+ 33
Male .....	No. 618	642	+ 24
Female .....	No. 282	291	+ 9
Total wages .....	\$ 774,698	878,787	+ 104,089
Power Equipment -			
Units .....	No. 309	325	+ 16
Horse-power capacity .....	H.P. 7,610	7,740	+ 130
Cost of fuel and electricity .....	\$ 107,646	121,243	+ 13,597
Cost of materials used .....	\$ 2,628,585	3,408,977	+ 780,392
Gross value of production .....	\$ 5,127,087	6,543,198	+ 1,416,111
Value added by manufacture .....	\$ 2,390,856	3,012,978	+ 622,122



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1936.

Table 3. - Production, 1935 and 1936.

Principal Products	Unit of Measure	1 9 3 5		1 9 3 6	
		Quantity	Selling Value at Factory	Quantity	Selling Value at Factory
			\$		\$
Binder twine -					
Chiefly sisal .....	Pound	41,848,974	2,535,183	48,389,304	3,424,018
All sisal and other .....	"	13,320,070	794,093	15,975,702	1,069,394
Twines for sale -					
Flax, hemp, jute, sisal, etc. ....	"	3,023,808	372,183	3,232,188	438,535
Rope -					
Manila .....	"	8,213,203	913,496	7,134,567	1,034,256
Sisal .....	"	2,301,899	268,292	2,168,987	272,010
Jute .....	"	28,665	3,151	78,761	10,036
Hemp .....	"	253,204	44,187	154,276	33,995
All other .....	"	229,535	37,629	263,145	40,465
All other products, unable to specify .....	-	-	158,873	-	220,489
TOTAL PRODUCTION ..	-	-	5,127,087	-	6,543,198

Table 4. - Consumption of Binder Twine in Canada for the Years 1934-1936.

	1 9 3 4		1 9 3 5		1 9 3 6	
	Quantity	Value	Quantity	Value	Quantity	Value
	Cwt.	\$	Cwt.	\$	Cwt.	\$
Production .....	551,848	3,470,540	551,690	3,329,276	643,650	4,493,412
plus Imports .....	156,165	1,004,757	277,116	1,686,177	286,679	2,162,354
TOTAL .....	708,013	4,475,297	828,806	5,015,453	930,329	6,655,766
less Exports .....	113,883	674,890	192,078	1,107,376	161,692	1,115,514
AVAILABLE FOR CONSUMPTION	594,130	3,800,407	636,728	3,908,077	768,637	5,540,252

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1936.

Table 5. - Materials Used, 1935 and 1936.

Principal Materials	Unit of Measure	1 9 3 5		1 9 3 6	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
			\$		\$
HARD FIBRES -					
Manila hemp .....	Pound	14,384,928	569,689	10,118,483	565,462
New Zealand hemp .....	"	250,906	12,143	278,882	14,147
African hemp and sisal ...	"	10,745,347	405,885	13,562,504	607,169
Java sisal .....	"	7,250,710	264,703	9,256,237	389,998
Mexican sisal .....	"	21,852,104	707,230	26,036,629	1,011,211
Other hard fibres .....	"	3,197,043	124,839	4,849,678	204,556
SOFT FIBRES -					
Hemp and hemp tow .....	Pound	356,268	33,329	348,745	37,616
Flax, flax tow and jute ..	"	1,059,791	37,155	1,795,254	73,678
Twines, cotton and linen ...	"	74,530	51,615	108,136	77,169
Yarns, purchased -					
Flax, hemp and jute .....	Pound	801,706	71,295	766,971	68,278
Cotton and other .....	"	93,280	23,634	79,823	21,066
Oils .....	"	10,617,412	119,777	12,032,555	128,450
Wax .....	"	57,518	4,095	121,290	7,094
Degras .....		-	4,801	-	10,551
Tar, tallow, grease, soap, starch, dyes and other chemicals .....	-	-	11,201	-	15,853
Burlap .....	-	-	79,744	-	85,593
All other materials .....	-	-	77,535	-	64,603
Packing and shipping materials .....	-	-	29,915	-	26,483
TOTAL COST OF MATERIALS USED .....					
	-	-	2,628,585	-	3,408,977

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1936.

Table 6. - Capital Invested, 1927-1936.

Year and Provinces	Fixed Capital	Working Capital			Total Capital
	Land, buildings, fixtures, machinery, tools, etc.	Stocks of raw materials and finished products on hand, goods in process, fuel and mis- cellaneous supplies, etc.	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	2,191,861	3,523,792		11,016,184
1932 .....	5,085,458	1,476,381	3,623,093		10,184,932
1933 .....	5,073,234	2,099,449	2,666,579		9,839,262
<u>1 9 3 4</u>					
CANADA .....	4,634,525	3,261,123	2,520,698		10,416,346
Ontario .....	4,059,159	2,892,683	2,432,661		9,384,503
Other Provinces ....	575,366	368,440	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
<u>1 9 3 6</u>					
CANADA .....	4,674,299	3,644,973	1,630,218		9,949,490
Ontario .....	4,120,567	3,150,483	1,541,648		8,812,698
Other Provinces ....	553,732	494,490	88,570		1,136,792



1936

Total .....	No.	101	103
Male .....	No.	77	78
Female .....	No.	24	25
Total salaries .....	\$	247,566	248,385

Monthly average .....	No.	900	933
Male .....	No.	618	642
Female .....	No.	282	291
Total wages .....	\$	774,698	878,787

Total .....	No.	1,001	1,036
Male .....	No.	695	720
Female .....	No.	306	316
Salaries and wages .....	\$	1,022,264	1,127,172

1936

Months	Male	Female	Total	Male	Female	Total	Male	Female	Total
	No.	No.	No.	No.	No.	No.	No.	No.	No.
January ....	598	266	864	587	279	866	634	281	915
February ...	605	267	872	584	279	863	626	280	906
March .....	600	270	870	587	274	861	635	279	914
April .....	613	266	879	597	269	866	665	314	979
May .....	608	260	868	599	271	870	660	314	974
June .....	614	260	874	593	261	854	657	310	967
July .....	653	260	913	618	262	880	663	319	982
August .....	531	167	698	631	277	908	631	293	924
September ..	496	164	660	672	310	982	618	292	910
October ....	602	265	867	674	315	989	631	269	900
November ...	614	261	875	675	314	989	625	274	899
December ...	606	263	869	612	271	883	645	271	916

AVERAGE	597	246	843	618	282	900	642	291	933
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THE GORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1936.

Table 9. - Number of Wage-earners in Month of Highest Employment and Their Regular Hours of Work in 1935 and 1936

Number of Hours Worked per Week	Number of Employees		Number of Hours Worked per Week	Number of Employees	
	1935	1936		1935	1936
40 hours or less .....	-	-	51-53 hours .....	-	2
41-43 hours .....	-	-	54 hours .....	-	-
44 hours .....	102	106	55 hours .....	75	96
45-47 hours .....	251	1	56-59 hours .....	-	-
48 hours .....	99	542	60 hours and over ...	4	2
49-50 hours .....	489	267			

The above table does not include overtime.

Table 10. - Power Installation, 1935 and 1936

Classes of Power	1 9 3 5		1 9 3 6	
	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> ....	305	7,380	316	7,411
 TOTAL POWER USED IN MANUFACTURING .....	 306	 7,580	 317	 7,611
 Boiler installation .....	 13	 1,986	 13	 2,034

<sup>x</sup> In addition to these figures, there were also in 1936, 8 motors with a rating of 129 horse-power in reserve or idle.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1936.

Table 11. - Consumption of Fuel and Electricity, 1935 and 1936.

Kinds of Fuel	Unit of Measure	1 9 3 5		1 9 3 6	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
			\$		\$
Coal -	Ton				
Bituminous .....	(2000 lbs.)	4,919	25,436	6,113	33,182
Anthracite .....	"	-	-	-	-
Coke (for fuel only) ...	"	10	118	-	-
Fuel and diesel oil ....	Imp. Gal.	-	-	-	-
Other fuel .....	-	-	208	-	23
TOTAL COST OF FUEL		-	25,762	-	33,205
Electricity purchased (including service charges) .....	Kw. H.	7,749,571	81,884	8,781,679	88,038
TOTAL COST OF FUEL AND ELECTRICITY ...		-	107,646	-	121,243

Table 12. - Mechanical Equipment, 1935 and 1936.

	1 9 3 5			1 9 3 6		
	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 ....	3,859	3,859	-	4,392	4,392	-
Spindles which consumed no fibre during the year ....	40	40	-	134	134	-
Twisting and doubling spindles ..	543	543	-	658	658	-
Looms .....	5	5	-	-	-	-
Braiding machines ...	110	110	-	120	120	-
Rope machines .....	112	111	1	120	119	1
Winding machines ....	485	485	-	509	509	-
All other .....	6	6	-	13	13	-
TOTAL .....	5,160	5,159	1	5,946	5,945	1

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1936.

Table 13. - Imports of Cordage, Rope and Twine, 1935 and 1936.

Articles Imported	Unit of Measure	1 9 3 5		1 9 3 6	
		Quantity	Value \$	Quantity	Value \$
Fibrilla, flax fibre and flax tow .....	Cwt.	4,635	8,022	6,153	12,348
Hemp, dressed or undressed .....	"	17,435	88,143	44,002	302,683
Jute and jute butts ....	"	12,715	41,823	15,644	58,593
Oakum of flax, hemp or jute .....	"	11,740	69,890	9,324	58,128
Sisal, istle and tampico fibre .....	"	431,376	1,434,734	572,889	2,810,221
Manila fibre .....	"	93,196	354,723	54,996	316,310
Vegetable fibres, n.o.p.	"	19,847	95,487	12,029	86,308
Coir and coir yarn .....	"	6,952	21,781	4,545	16,151
Rovings, yarns and warps, wholly of cotton, including threads, generally used for sewing, stitching, packaging and other purposes, n.o.p. ....	Lb.	557,265	219,176	619,933	251,151
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.	522,301	80,559	598,913	91,649
Cord and twine, cotton, n.o.p. ....	"	79,571	20,034	41,748	10,640
Rovings, yarns and warps, wholly of jute, including yarn twist, cords and twines, generally used for packaging and other purposes, n.o.p. ....	Lb.	310,240	26,037	258,955	25,058
Sail twine of hemp or flax for the manu- facture of boats <sup>1</sup> and ships <sup>2</sup> sails .....	Lb.	482	148	848	324



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1936.

Table 13. - Imports of Cordage, Rope and Twine, 1935 and 1936. - (Concl'd.)

Articles Imported	Unit of Measure	1 9 3 5		1 9 3 6	
		Quantity	Value	Quantity	Value
			\$		\$
Binder twine .....	Cwt.	277,116	1,686,177	286,679	2,162,354
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 ...	-	-	1,334,220	-	1,525,005
Cordage, manila, sisal and New Zealand fibre, exceeding one inch in circumference .....	Lb.	688,633	55,203	874,514	81,452
Cordage, exceeding one inch in circumference, n.o.p. ....	Lb.	314,727	35,752	443,261	52,434
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.	845,376	88,113	781,349	119,327

Table 14. - Exports of Cordage, Rope and Twine, 1935 and 1936.

Articles Exported	Unit of Measure	1 9 3 5		1 9 3 6	
		Quantity	Value	Quantity	Value
			\$		\$
Fibre and tow of flax or hemp	Cwt.	754	7,306	2,870	15,377
Binder twine .....	"	192,078	1,107,376	161,692	1,115,514
Cordage, rope and twine, n.o.p.	-	-	81,571	-	47,155

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1936.

A P P E N D I X

Cordage, Rope and Twine Manufacturers Operating in Canada in 1936.

<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., The C. N. Bolduc Manufacturing Co.,	199 Victoria Street, Sherbrooke Lennoxville.	Cordage. Cordage.
<u>ONTARIO</u>		
The Brantford Cordage Company Ltd., John S. Brooks, Canadian Fish Net Company Limited,	111 Brant Street, Brantford. Dunnville. 203 Hardisty Street, Fort William.	Binder twine. Fish nets. Fish nets.
International Harvester Company of Canada, Limited, Doon Twines Limited,	Sherman Avenue North, Hamilton. 50 South Street, Kitchener.	Binder twine. Twines, Ropes, Yarns.
Derrett Limited, Plymouth Cordage Company,	6 Bartlett Avenue, Toronto. 229 Plymouth Road, Welland.	Twine, Rope. Binder twine, Rope.
<u>BRITISH COLUMBIA</u>		
Canada Western Cordage Company Ltd.,	Braid Street, New Westminster.	Binder twine, Twine, Rope.

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