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**CANADA**  
**DEPARTMENT OF TRADE AND COMMERCE**  
**DOMINION BUREAU OF STATISTICS**

+ + + *Census of Industry* + + +

**GENERAL MANUFACTURING STATISTICS**

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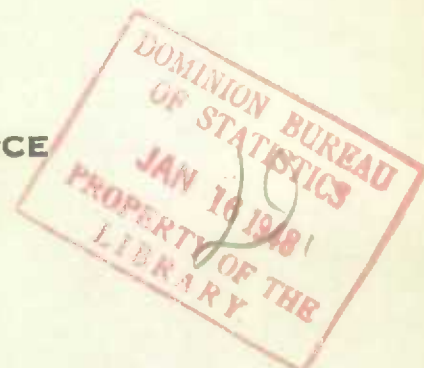
**REPORT**  
**ON THE**  
**CORDAGE, ROPE & TWINE INDUSTRY**  
**IN**  
**CANADA**  
**1946**



**OTTAWA**  
**1948**

Price 25 cents

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Report of the Committee on the  
Economic Situation of the  
Country

CANADA

DEPARTMENT OF TRADE AND COMMERCE

DOMINION BUREAU OF STATISTICS

and  
The Census of Industry

GENERAL MATERIALS AND STATISTICS

REPORT

ON THE

CONDUCT, WORK & LIVE INDUSTRY

BY

CANADA

1943

OTTAWA

DEPARTMENT OF TRADE AND COMMERCE  
DOMINION BUREAU OF STATISTICS  
GENERAL MANUFACTURING STATISTICS

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Dominion Statistician:	Herbert Marshall
Director, Census of Industry and Merchandising:	W. H. Losee
Chief, General Manufacturing Statistics:	A. Cohen

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THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1946.

The ten establishments listed in the cordage, rope and twine industry in 1946 reported a gross value of production of \$13,869,880. Persons employed numbered 1,740 with salaries and wages paid amounting to \$2,669,236. Materials used had a value at the factory of \$8,058,127, while the value added by manufacture amounted to \$5,641,043.

Ontario is the leading producer of cordage, rope and twine. The six plants located there in 1946 produced 81 per cent of the total output, and furnished employment to 83 per cent of the employees engaged in the industry.

From the standpoint of both volume and value binder twine is the principal product manufactured by this industry. In 1946 there were produced 86,138,550 pounds, with a value at the factory of \$7,715,357, an average selling price of 8.9 cents per pound. The price structure of binder twine during and since the war had been complicated by subsidies. Another complicating factor in the situation is the production of binder twine from materials not owned by the firm reporting. Price changes during these years must therefore be used with caution. The output of binder twine represented 55.6 per cent of the total value of products made in 1946. The output of rope totalled 18,204,870 pounds, valued at \$3,289,049, twines for sale 7,788,747 pounds valued at \$1,887,859, yarns for sale 2,647,958 pounds valued at \$673,939 and all other products had a value of \$303,676. There was a substantial increase in the physical volume of production in 1946. Compared with the previous year there was an increase of 14 per cent in the production of binder twine, 20 per cent in twines made for sale and 61 per cent in yarns made for sale. The output of rope was 20 per cent lower. All told there was an increase of about 8 per cent in the volume of production. Table 3 gives detailed statistics of production for 1945 and 1946.

Hard fibres, such as Manilla hemp, Mexican and Java sisal, etc. constitute the principal materials used by the industry. The amount used in 1946 was valued at \$6,053,961, or over 75 per cent of the total cost of materials used.

**THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA 1946**

Table 1. - Principal Statistics, Representative Years, 1921 - 1946.

Year and Provinces	Estab-lish-ments	Capital Invested	Em-ployees	Salaries and Wages	Cost of Materials Used	Gross Value of Production
	No.	\$	No.	\$	\$	\$
1921 .....	9	7,861,066	824	1,055,462	4,620,408	7,962,550
1924 .....	9	9,416,545	1,359	1,486,702	5,096,892	8,876,786
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
1933 .....	11	9,839,262	1,015	1,027,460	2,461,395	4,740,612
1937 .....	10	11,254,478	1,030	1,132,435	3,907,340	6,578,967
1938 .....	10	10,437,106	882	1,007,597	3,057,839	4,910,962
1939 .....	10	10,376,100	978	1,055,702	2,710,778	4,966,074
1940 .....	11	12,190,563	1,285	1,533,026	4,903,793	9,192,945
1941 .....	11	13,136,537	1,346	1,668,462	5,684,207	10,895,994
1942 .....	11	13,286,543	1,590	2,243,872	8,350,266	13,758,225
1943 .....	11	13,552,590	1,531	2,279,708	8,197,636	12,650,931
1944 .....	10	(2)	1,741	2,637,162	10,594,964	16,177,696

1945

CANADA ...	10	(2)	1,678	2,477,765	8,814,693	14,419,946
Ontario .....	6	-	1,379	2,048,282	7,046,681	11,544,206
(1) Other Provinces	4	-	299	429,483	1,768,012	2,875,740

1946

CANADA ...	10	(2)	1,740	2,669,236	8,058,127	13,869,880
Ontario .....	6	-	1,450	2,214,622	6,764,939	11,274,281
(1) Other Provinces	4	-	290	454,614	1,293,188	2,595,499

(1) Includes two establishments in Quebec, one in Nova Scotia and one in British Columbia.

(2) Information not collected.

Profits or losses cannot be estimated from the figures published in this report as no data are collected for overhead expenses, such as interest, rent, depreciation, taxes, insurance, advertising, etc.



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1946

Table 2. - Comparison of Principal Statistics, 1945 and 1946.

Item		1945	1946	+ Increase - Decrease
Establishments reporting	No.	10	10	-
Employees on salaries -				
Total	No.	155	165	+ 10
Male	No.	101	113	+ 12
Female	No.	54	52	- 2
Total Salaries	\$	423,208	459,620	+ 36,412
Employees on wages -				
Monthly average	No.	1,523	1,575	+ 52
Male	No.	862	955	+ 93
Female	No.	661	620	- 41
Total Wages	\$	2,054,557	2,209,616	+ 155,059
Power equipment -				
Units	No.	540	659	+ 119
Horse-power capacity	H.P.	8,721	9,651	+ 930
Cost of fuel and electricity	\$	164,878	170,710	+ 5,832
Cost of materials used	\$	8,814,693	8,058,127	- 756,566
Gross value of production	\$	14,419,946	13,869,880	- 550,066
Value added by manufacture	\$	5,440,375	5,641,043	+ 200,668

Table 3. - Production, 1945 and 1946.

Principal Products	Unit of Measure	1945		1946	
		Quantity	Selling Value at Factory(2)	Quantity	Selling Value at Factory(2)
			\$		\$
Binder twine					
All sisal	lb.	75,910,220	7,671,822	86,138,550	7,715,357
Chiefly sisal	"	-	-	-	-
Twines for sale - Hemp	"	311,302	205,173	(1)	(1)
Jute	"	6,058,941	1,433,680	4,730,042	1,235,214
Sisal	"	-	-	2,750,231	514,826
All other	"	143,925	53,769	308,474	137,819
Rope -					
Manila	"	685,692	136,029	2,095,623	450,596
Sisal	"	20,673,696	3,466,685	15,554,508	2,635,976
Cotton	"	98,855	43,917	94,071	52,724
Jute	"	592,806	135,078	339,750	81,568
Hemp	"	460,355	332,992	103,871	64,056
All other	"	222,486	62,090	17,047	4,129
Yarns -					
Flax, hemp, jute, etc.	"	1,637,400	438,614	2,647,958	673,939
All other products, unable to specify	-	-	440,097	-	303,676
TOTAL PRODUCTION	-	-	14,419,946	-	13,869,880

(1) Included in all other twines. (2) Includes subsidies.

The statistics published in this report include only the statistics of manufacturing establishments whose principal products are cordage, rope and twine. Statistics relating to specific products, such as twines, are not to be regarded as the total for Canada since some of these products are also produced in cotton textiles establishments.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1946.

Table 4. - Consumption of Binder Twine in Canada for the Years, 1944 - 1946.

	1944		1945		1946	
	Quantity	Value	Quantity	Value	Quantity	Value
	Cwt.	\$	Cwt.	\$	Cwt.	\$
Production .....	755,852	9,353,486	759,102	7,671,822	861,386	7,715,357
plus						
Imports .....	-	-	41	482	12	170
TOTAL .....	755,852	9,353,486	759,143	7,672,304	861,398	7,715,527
less						
Exports .....	118,864	1,244,293	238,962	2,793,834	369,613	3,910,078
AVAILABLE FOR CONSUMPTION ...	636,968	8,109,193	520,181	4,878,470	491,785	3,805,449

Table 5. - Materials Used, 1945 and 1946.

Principal Materials	Unit of Measure	1 9 4 5		1 9 4 6	
		Quantity	Cost Value	Quantity	Cost Value
			at Factory		at Factory
			\$		\$
HARD FIBRES -					
Manila hemp .....	lb.	665,189	84,812	2,173,422	261,753
Java sisal .....	"	1,177,698	108,197	327,333	26,973
Mexican sisal .....	"	52,816,549	4,724,283	29,684,376	2,527,114
- African sisal .....	"	17,635,967	1,477,724	39,568,554	3,199,810
Other hemp and sisal.	"	166,622	52,061	320,481	38,311
SOFT FIBRES -					
Hemp, hemp tow, flax, flax tow and jute ..	lb.	8,957,509	896,053	8,455,208	846,861
Twines, cotton .....	"	85,616	139,959	92,580	150,040
Yarns, purchased -					
Flax, hemp and jute ..	"	3,840,420	648,255	1,664,573	285,001
Cotton and other .....	"	-	58,967	-	52,879
Oils .....	-	-	247,620	-	241,531
Wax .....	-	-	9,438	-	7,911
Degras .....	-	-	10,169	-	15,647
All other materials and supplies .....	-	-	92,135	-	87,606
Packing and shipping materials -					
Burlap .....	-	-	6,699	-	13,406
Other packing and shipping materials ..	-	-	258,321	-	303,284
TOTAL COST OF MATERIALS USED ..					
	-	-	8,814,693	-	8,058,127

(1) Included in "Other hemp and sisal."

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1946.

Table 6. - Capital Invested, Representative Years, 1921 - 1946.

Year and Provinces	Fixed Capital	Working Capital		TOTAL CAPITAL
	Land, buildings, fixtures, machinery, tools, etc.	Stocks of raw materials and finished pro- ducts on hand, goods in pro- cess, fuel and miscellaneous supplies, etc.	Cash, bills and accounts receivable, prepaid expenses, etc.	
	\$	\$	\$	\$
1921 .....	3,022,161	2,697,790	2,141,115	7,861,066
1923 .....	3,421,557	2,143,556	1,764,206	7,329,319
1926 .....	5,774,524	5,859,920	4,045,125	15,679,569
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
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
1934 .....	4,634,525	3,261,123	2,520,698	10,416,346
1935 .....	4,683,573	2,336,790	3,970,723	10,991,086
1936 .....	4,674,299	3,644,973	1,630,218	9,949,490
1937 .....	4,679,711	5,175,204	1,399,563	11,254,478
1938 .....	4,666,414	3,455,212	2,315,480	10,437,106
1939 .....	4,725,034	2,976,397	2,674,669	10,376,100
1940 .....	5,030,658	4,634,890	2,525,006	12,190,563
1941 .....	4,183,425	5,643,324(1)	3,309,788	13,136,537
1942				
CANADA .....	4,489,212	5,142,095(2)	3,655,236	13,286,543
Ontario .....	3,936,643	4,161,633	3,050,659	11,148,935
Other Provinces .....	552,569	980,462	604,577	2,137,608
1943				
CANADA .....	4,508,493	3,975,830(3)	5,068,267	13,552,590
Ontario .....	3,960,236	3,340,108	4,181,574	11,481,918
Other Provinces .....	548,257	635,722	886,693	2,070,672

This information not collected since 1944

(1) The value of finished products on hand amounted to \$3,090,111.

(2) " " " " " " " " " " \$1,870,645.

(3) " " " " " " " " " " \$1,398,243.



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1946.

Table 7. - Employees by Sex and Remuneration, 1945 and 1946.

		1945	1946
Salaried Employees -			
Total .....	No.	155	165
Male .....	No.	101	113
Female .....	No.	54	52
Total Salaries .....	\$	423,208	459,620
Wage-earners -			
Monthly average .....	No.	1,523	1,575
Male .....	No.	862	955
Female .....	No.	661	620
Total Wages .....	\$	2,054,557	2,209,616
All Employees -			
Total .....	No.	1,678	1,740
Male .....	No.	963	1,068
Female .....	No.	715	672
Total Salaries and Wages ..	\$	2,477,765	2,669,236

Table 8. - Monthly Employment of Wage-earners, 1944 - 1946.

Months	1944			1945			1946		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	No.	No.	No.	No.	No.	No.	No.	No.	No.
January .....	910	666	1,576	873	682	1,555	942	610	1,552
February .....	915	744	1,659	917	776	1,693	982	614	1,596
March .....	950	714	1,664	936	787	1,723	997	652	1,649
April .....	875	742	1,617	899	758	1,657	1,022	685	1,707
May .....	867	708	1,575	868	691	1,559	1,009	705	1,714
June .....	854	753	1,607	837	640	1,477	1,033	688	1,721
July .....	886	795	1,681	834	623	1,457	1,000	692	1,692
August .....	828	780	1,608	809	589	1,398	908	560	1,468
September .....	787	785	1,572	792	554	1,346	885	559	1,444
October .....	807	809	1,616	826	601	1,427	891	551	1,442
November .....	854	626	1,480	869	613	1,482	894	566	1,460
December .....	847	664	1,511	890	612	1,502	893	547	1,440
MONTHLY AVERAGE .....	866	733	1,599	862	661	1,523	955	620	1,575



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1946.

Table 9. - Number of Wage-earners during One Week in Month of Highest Employment with their Hours of Work per Week and Average Weekly Earnings.

Number of Hours Worked per Week	1 9 4 5		1 9 4 4	
	Male	Female	Male	Female
	No.	No.	No.	No.
30 hours or less .....	47	108	67	131
31 - 43 hours .....	156	167	46	65
44 hours .....	18	21	11	36
45 - 47 hours .....	131	105	21	12
48 hours .....	244	199	221	222
49 - 50 hours .....	15	22	433	381
51 - 54 hours .....	310	180	34	6
55 hours .....	19	4	14	7
56 - 64 hours .....	49	3	120	26
65 hours and over .....	13	-	34	1
Average hours per week .....	47.3	43.4	48.9	44.7
Average weekly earnings .....	\$ 28.42	19.99	\$ 30.36	22.25

The above information not collected in 1946.

Table 10. - Power Installation, 1945 and 1946.

Classes of Power	1 9 4 5		1 9 4 6	
	Manufacturers'		Manufacturers'	
	Number of Units	Rating of Horse-power Capacity	Number of Units	Rating of Horse-power Capacity
Steam engines and steam turbines .....	1	200	1	200
Electric motors, operated by purchased power -				
In use .....	519	8,031	627	8,697
Idle .....	20	490	31	754
TOTAL POWER USED IN MANUFACTURING .....	540	8,721	659	9,651
Boiler installation -				
In use .....	5	660	3	360

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1946.

Table 11. - Consumption of Fuel and Electricity, 1945 and 1946.

Kinds of Fuel	Unit of Measure	1 9 4 5		1 9 4 6	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
			\$		\$
Coal	Ton				
Bituminous .....	(2000 lbs)	6,195	47,868	6,194	53,264
Anthracite .....	"	735	6,688	-	-
Coke .....	"	-	-	3,752	1,157
Gasoline (including gasoline used in cars and trucks) .....	Imp. Gal.	6,114	2,013	3,701	1,140
Kerosene or coal oil ....	"	497	89	3,015	324
TOTAL COST OF FUEL	-	-	56,658	-	55,879
Electricity purchased (including service charges)	Kw.H.	12,409,859	108,220	14,149,220	114,831
TOTAL COST OF FUEL AND ELECTRICITY	-	-	164,878	-	170,710

Table 12. - Mechanical Equipment, 1945 and 1946.

	1 9 4 5	1 9 4 6
	No.	No.
Spindles which consumed fibre during the year ...	4,373	4,615
Spindles which consumed no fibre during the year	10	-
Twisting and doubling spindles .....	648	666
Braiding machines .....	184	183
Rope machines .....	131	131
Winding machines .....	293	328
Netting machines .....	37	1,004

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1946.

Table 13. - Imports of Materials Used and Products Made by the Cordage, Rope and Twine Industry, 1945 and 1946.

Articles Imported	Unit of Measure	1 9 4 5		1 9 4 6	
		Quantity	Value	Quantity	Value
			\$		\$
Fibrilla, flax fibre and flax tow .....	Cwt.	7,805	75,457	9,299	294,076
Manila fibre .....	"	-	-	32,450	456,291
Vegetable fibres, n.o.p....	"	28,442	225,782	53,608	334,588
Sisal, istle and tampico fibre .....	"	730,086	6,612,647	935,871	7,973,975
Jute and jute butts .....	"	41,530	404,939	80,194	724,144
Okum of flax, hemp or jute	"	16,758	183,572	23,388	258,356
Coir and coir yarn .....	"	12,973	112,675	8,886	104,985
Yarns, vegetable fibres singles, n.o.p. ....	Lbs.	620	371	205,050	154,238
Yarns, cords and twines, vegetable fibres, plied n.o.p. ....	"	144,031	82,532	624,158	210,281
Yarns, cords and twines, jute, plied, n.o.p. ....	"	769,794	121,451	517,362	64,107
Yarns, jute, singles, n.o.p.	"	3,785,949	722,130	743,064	137,071
Cords and twine, cotton, n.o.p. ....	"	279,650	170,717	445,118	272,380
Thread, twines, marlines, fishing lines of vegetable fibre for commercial fishing purposes or for the construction or repair of fishing nets .....	"	520,039	405,657	783,298	600,905
Cordage, manila, sisal and New Zealand fibre, exceeding one inch in circumference .....	"	26,537	16,864	194,504	33,153

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1946.

Table 13. - Imports of Materials Used and Products Made by the Cordage, Rope and Twine Industry, 1945 and 1946 (Concl.)

Articles Imported	Unit of Measure	1 9 4 5		1 9 4 6	
		Quantity	Value	Quantity	Value
			\$		\$
Cordage exceeding one inch in circumference, wholly of vegetable fibre, n.o.p. ....	Lbs.	668,209	102,283	501,220	84,466
Rope and cordage of cotton hemp, manila or other vegetable fibre, not exceeding one and one half inches in circumference, to be used for commercial fishing purposes, or for the construction and repair of fishing nets .....	"	28,325	6,934	70,834	15,912
Binder twine .....	Cwt.	41	482	12	170
Fish nets and nettings ....	-	-	964,170	-	1,223,306
Jute manufactures, n.o.p. ....	-	-	4,273	-	15,175
Vegetable fibre manufactures, n.o.p. ....	lb.	1,068,439	958,151	1,283,512	1,201,412

Table 14. - Exports of Cordage, Rope and Twine, etc. 1945-46.

Articles Exported	Unit of Measure	1 9 4 5		1 9 4 6	
		Quantity	Value	Quantity	Value
			\$		\$
Fibre and tow of flax or hemp .....	Cwt.	62,360	1,370,795	62,284	1,572,789
Binder twine .....	"	238,962	2,793,834	369,613	3,910,078
Rope .....	"	-	-	16,180	289,622
Cordage and twine, n.o.p. ....	"	-	917,904	9,207	549,940



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1946.

A P P E N D I X

Cordage, Rope and Twine Manufacturers Operating in Canada in 1946

<u>Name of Firm</u>	<u>Location</u>	<u>Products Made</u>
<u>NOVA SCOTIA</u>		
Consumers' Cordage Co., Ltd. (H.O. 2143 St. Patrick St., Montreal)	Wyse Road, Dartmouth	Binder Twine, ropes.
<u>QUEBEC</u>		
Bolduc, The C.N., Manufacturing Company, Consumers' Cordage Co., Ltd.,	12 College St., Lennoxville 2143 St. Patrick St., Montreal	Rope Rope, twine, yarns.
<u>ONTARIO</u>		
Brantford Cordage Co., Ltd., The Brooks Limited, John S. Derrett Limited Doon Twines Limited	111 Brant Street, Brantford 722 Broad St., E., Dunnville 6 Bartlett Avenue, Toronto 50 Ottawa St. S., Kitchener	Binder twine. Fish netting. Twines, rope. Yarns, twines, rope.
International Harvester Co. of Canada, Limited	Hillyard Street, Hamilton	Binder twine, twines.
Plymouth Cordage Company	229 Plymouth Road, Welland	Binder twine, rope, etc.
<u>BRITISH COLUMBIA</u>		
Canada Western Cordage Co., Ltd. (H.O. 20 Water Street, Vancouver)	Braid Street, New Westminster	Twines, rope.

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