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Minister of Trade and Commerce

**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**

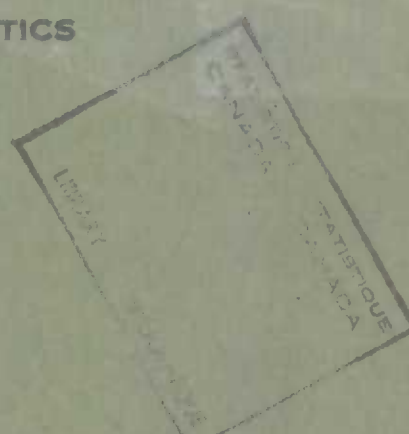
**1945**



**OTTAWA**  
**1946**

Price 25 cents

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1945

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

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THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1945.

The ten establishments listed in the cordage, rope and twine industry in 1945 reported a gross value of production of \$14,419,946. Persons employed numbered 1,678 with salaries and wages paid amounting to \$2,477,765. Materials used had a value at the factory of \$8,814,693, while the value added by manufacture amounted to \$5,440,375.

Ontario is the leading producer of cordage, rope and twine. The six plants located there in 1945 produced 80 per cent of the total output, and furnished employment to 82.2 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 1945 there were produced 75,910,220 pounds, with a value at the factory of \$7,671,822, an average selling price of 10.1 cents per pound. The price structure of binder twine during the war years 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 53.2 per cent of the total value of products made in 1945. The output of rope totalled 22,733,890 pounds, valued at \$4,176,791, twines for sale 6,514,168 pounds valued at \$1,692,622, yarns for sale 1,637,400 pounds valued at \$438,614, and all other products had a value of \$440,097. There was but little change in the physical volume of production in 1945. Compared with the previous year there were increases of .4 per cent in the output of binder twine, .6 per cent in twines made for sale and .1 per cent in the production of rope. Table 3 gives detailed statistics of production for 1944 and 1945.

Hard fibres, such as Manilla hemp, Mexican and Java sisal, etc. constitute the principal materials used by the industry. The amount used in 1945 was valued at \$6,447,077 or over 73 per cent of the total cost of materials used.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1945

Table 1. - Principal Statistics Representative Years, 1921 - 1945.

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

1 9 4 4

CANADA .....	10	(2)	1,741	2,637,162	10,594,964	16,177,696
Ontario .....	6	-	1,425	2,219,504	8,687,036	13,164,447
Other Provinces(1)	4	-	316	417,658	1,907,928	3,013,249

1 9 4 5

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
Other Provinces(1)	4	-	299	429,483	1,768,012	2,875,740

(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, 1945

Table 2. - Comparison of Principal Statistics, 1944 and 1945

Item	1 9 4 4	1 9 4 5	+ Increase - Decrease
Establishments reporting .....No.	10	10	-
Employees on salaries -			
Total .....No.	142	155	+ 13
Male .....No.	88	101	+ 13
Female .....No.	54	54	-
Total Salaries .....\$	396,301	423,208	+ 26,907
Employees on wages -			
Monthly average .....No.	1,599	1,523	- 76
Male .....No.	866	862	- 4
Female .....No.	733	661	- 72
Total Wages .....\$	2,240,861	2,064,557	- 186,304
Power equipment -			
Units .....No.	501	540	+ 39
Horse-power capacity .....H.P.	8,705	8,721	+ 16
Cost of fuel and electricity .....\$	159,897	164,878	+ 4,981
Cost of materials used .....\$	10,594,964	8,814,693	- 1,780,271
Gross value of production .....\$	16,177,696	14,419,946	- 1,757,750
Value added by manufacture .....\$	5,422,835	5,440,375	+ 17,540

Table 3. - Production, 1944 and 1945

Principal Products	Unit of Measure	1 9 4 4		1 9 4 5	
		Quantity	Selling Value at Factory (2)	Quantity	Selling Value at Factory (2)
Binder twine (1)			\$		\$
All sisal .....	lb.	223,750	32,020	75,910,220	7,671,822
Chiefly sisal .....	"	75,361,443	9,321,466	-	-
Twines for sale - Hemp .....	"	200,048	139,965	311,302	205,173
Jute .....	"	6,164,750	1,624,530	6,058,941	1,433,680
All other ...	"	112,409	43,000	143,925	53,769
Rope -					
Manila .....	"	1,821,556	340,654	685,692	136,029
Sisal .....	"	18,548,112	2,969,324	20,673,696	3,466,685
Cotton .....	"	127,423	61,048	98,855	43,917
Jute .....	"	1,126,843	173,907	592,806	135,078
Hemp .....	"	755,786	553,800	460,355	332,992
All other.....	"	324,999	68,442	222,486	62,090
Yarns -					
Flax, hemp, jute, etc. ....	"	1,195,850	355,269	1,637,400	438,614
All other products, unable to specify .....	-	-	494,271	-	440,097
TOTAL PRODUCTION .....	-	-	16,177,696	-	14,419,946

(1) Includes the production of binder twine from materials not owned by the firm reporting.

(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 1945.

Table 4. - Consumption of Binder Twine in Canada for the Years, 1943-1945

	1 9 4 3		1 9 4 4		1 9 4 5	
	Quantity	Value	Quantity	Value	Quantity	Value
	Cwt.	\$	Cwt.	\$	Cwt.	\$
Production .....	748,132	7,102,053	755,852	9,353,486	759,102	7,671,822
plus						
Imports .....	22,515	195,593	-	-	41	432
TOTAL .....	770,647	7,297,646	755,852	9,353,486	759,143	7,672,254
less						
Exports .....	181,356	1,770,419	118,864	1,244,293	238,962	2,793,834
AVAILABLE FOR CONSUMPTION .....	589,291	5,527,227	636,968	8,109,193	520,181	4,878,420

Table 5. - Materials Used, 1944 and 1945

Principal Materials	Unit of Measure	1 9 4 4		1 9 4 5	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
			\$		\$
HARD FIBRES -					
Manila hemp .....	lb.	1,660,566	156,773	665,189	84,812
African hemp .....	"	(1)	(1)	-	-
Java sisal .....	"	2,754,325	253,035	1,177,698	108,197
Mexican sisal .....	"	53,080,702	6,036,368	52,816,549	4,724,283
African sisal .....	"	13,411,577	1,132,078	17,655,967	1,477,724
Cuban sisal .....	"	(1)	(1)	-	-
Other hemp and sisal .....	"	911,664	78,574	166,622	52,061
SOFT FIBRES -					
Hemp, hemp tow, flax, flax tow and jute .....	lb.	11,185,279	1,264,939	8,957,509	896,053
Twines, cotton .....	"	94,614	146,042	85,616	139,959
Yarns, purchased -					
Flax, hemp and jute .....	"	5,509,647	813,793	3,840,420	648,255
Cotton and other .....	"	385,702	76,099	-	58,967
Oils .....	-	-	234,855	-	247,620
Wax .....	-	-	10,712	-	9,438
Degras .....	-	-	12,166	-	10,169
All other materials and supplies .....	-	-	112,711	-	92,136
Packing and shipping materials -					
Burlap .....	-	-	32,413	-	6,699
Other packing and shipping materials .....	-	-	234,405	-	258,321
TOTAL COST OF MATERIALS USED .....					
	-	-	10,594,964	-	8,814,693

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

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1945

Table 6. - Capital Invested, Representative Years, 1921 - 1945.

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.		
	\$	\$	\$	\$	
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	
1944 .....	Information Not Collected				
1945 .....	Information Not Collected				

- (1) The value of finished products on hand amounted to 3,090,111.  
 (2) " " " " " " " " " " 1,870,645  
 (3) " " " " " " " " " " 1,395,243



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1945

Table 7. - Employees by Sex and Remuneration, 1944 and 1945.

		1 9 4 4	1 9 4 5
<b>Salaried Employees -</b>			
Total .....	No.	142	155
Male .....	No.	88	101
Female .....	No.	54	54
Total Salaries .....	\$	396,301	423,208
<b>Wage-earners -</b>			
Monthly average .....	No.	1,599	1,523
Male .....	No.	866	862
Female .....	No.	733	661
Total Wages .....	\$	2,240,861	2,054,557
<b>All Employees -</b>			
Total .....	No.	1,741	1,678
Male .....	No.	954	963
Female .....	No.	787	715
Total Salaries and Wages .....	\$	2,637,162	2,477,765

Table 8. - Monthly Employment of Wage-earners, 1943-1945

Months	1 9 4 3			1 9 4 4			1 9 4 5		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	No.	No.	No.	No.	No.	No.	No.	No.	No.
January .....	836	565	1,401	910	666	1,576	873	682	1,555
February .....	822	560	1,382	915	744	1,659	917	776	1,693
March .....	797	553	1,350	950	714	1,664	936	787	1,723
April .....	797	527	1,324	875	742	1,617	899	758	1,657
May .....	733	515	1,248	867	708	1,575	868	691	1,559
June .....	769	552	1,321	854	753	1,607	837	640	1,477
July .....	830	556	1,386	886	795	1,681	834	623	1,457
August .....	811	607	1,418	828	780	1,608	809	589	1,398
September .....	754	589	1,343	787	785	1,572	792	554	1,346
October .....	755	653	1,408	807	809	1,616	826	601	1,427
November .....	815	644	1,459	854	626	1,480	869	613	1,482
December .....	859	664	1,523	847	664	1,511	890	612	1,502
MONTHLY AVERAGE ..	798	583	1,381	866	733	1,599	862	661	1,523



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1945

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

Table 10. - Power Installation, 1944 and 1945

Classes of Power	1 9 4 4		1 9 4 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
Electric motors, operated by purchased power -				
In use .....	472	7,768	519	8,031
Idle .....	28	737	20	490
TOTAL POWER USED IN MANUFACTURING .....	501	8,705	540	8,721
Boiler installation -				
In use .....	5	660	5	660
Idle .....	-	-	-	-

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1945

Table 11. - Consumption of Fuel and Electricity, 1944 and 1945

Kinds of Fuel	Unit of Measure	1944		1945	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
Coal -	Ton		\$		\$
Bituminous .....	(2000 lbs)	6,367	47,253	6,195	47,868
Anthracite .....	"	-	-	735	6,688
Gasoline (including gasoline used in cars and trucks) .....	Imp. Gal.	6,710	2,245	6,114	2,013
Kerosene or coal oil .....	"	381	72	497	89
Wood .....	Cord	-	-	-	-
TOTAL COST OF FUEL .....	-	-	49,570	-	56,658
Electricity purchased (including service charges)	Kw.H.	12,702,336	110,327	12,409,859	108,220
TOTAL COST OF FUEL AND ELECTRICITY .....	-	-	159,897	-	164,878

Table 12. - Mechanical Equipment, 1944 and 1945.

	1944	1945
	No.	No.
Spindles which consumed fibre during the year ...	4,139	4,373
Spindles which consumed no fibre during the year .	262	10
Twisting and doubling spindles .....	634	648
Braiding machines .....	177	184
Rope machines .....	137	131
Winding machines .....	316	293
Netting machines .....	30	37

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1945

Table 13. - Imports of Materials Used and Products Made by the  
Cordage, Rope and Twine Industry, 1944 and 1945.

Articles Imported	Unit of Measure	1 9 4 4		1 9 4 5	
		Quantity	Value	Quantity	Value
			\$		\$
Fibrilla, flax fibre and flax tow .....	Cwt.	3,449	30,920	7,805	75,457
Manila fibre .....	"	6,559	64,826	-	-
Vegetable fibres, n.p.p...	"	37,733	211,961	28,442	225,782
Sisal, istle and tampico fibre .....	"	804,347	7,604,117	730,086	6,612,647
Jute and jute butts .....	"	76,250	846,267	41,530	404,939
Okum of flax, hemp or jute	"	18,202	214,161	16,758	183,572
Coir and coir yarn .....	"	11,465	89,495	12,973	112,675
Yarns, vegetable fibres singles, n.o.p. ....	Lbs.	56,794	7,724	620	371
Yarns, cords and twines, vegetable fibres, plied n.o.p. ....	"	115,043	62,623	144,031	82,532
Yarns, cords and twines, jute, plied, n.o.p. ....	"	272,004	41,528	769,794	121,451
Yarns, jute, singles, n.o.p.	"	3,240,813	644,321	3,785,949	722,130
Cords and twine, cotton, n.o.p. ....	"	261,122	171,199	279,650	170,717
Thread, twines, marlenes, fishing lines of vegetable fibre for commercial fish- ing purposes or for the construction or repair of fishing nets .....	"	757,967	484,772	520,039	405,657
Cordage, manila, sisal and New Zealand fibre, exceed- ing one inch in circumfe- rence .....	"	1,843	568	26,537	16,864



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1945

Table 13. - Imports of Materials Used and Products Made by the  
Cordage, Rope and Twine Industry, 1944 and 1945 (Concl.)

Articles Imported	Unit of Measure	1 9 4 4		1 9 4 5	
		Quantity	Value	Quantity	Value
			\$		\$
Cordage exceeding one inch in circumference, wholly of vegetable fibre, n.o.p.	Lbs.	600,162	66,449	668,209	102,283
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 .....	"	4,991	1,463	28,325	6,934
Binder twine .....	Cwt.	-	-	41	482
Fish nets and nettings ....	-	-	1,097,489	-	964,170
Jute manufactures, n.o.p....	-	-	4,430	-	4,273
Vegetable fibre manufactures, n.o.p. ....	lb.	890,324	883,230	1,068,439	958,151

Table 14. - Exports of Cordage, Rope and Twine, etc. 1944-45.

Articles Exported	Unit of Measure	1 9 4 4		1 9 4 5	
		Quantity	Value	Quantity	Value
			\$		\$
Fibre and tow of flax or hemp .....	Cwt.	102,048	2,190,062	62,360	1,370,795
Binder twine .....	"	118,864	1,244,293	238,962	2,793,834
Cordage, rope and twine, n.o.p. ....	-	-	354,786	-	917,904

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1945

A P P E N D I X

Cordage, Rope and Twine Manufacturers Operating in Canada in 1945

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

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