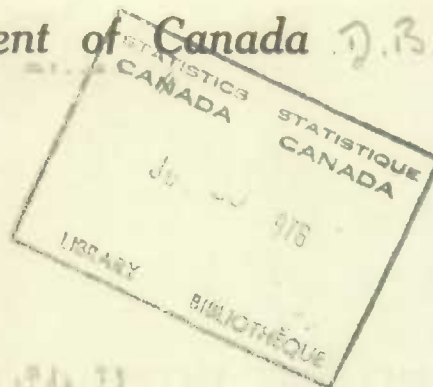


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THE CORDAGE, ROPE AND TWINE INDUSTRY  
IN  
CANADA  
1948

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

**1948**



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Dominion Bureau of Statistics, Ottawa

## THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1948

The ten establishments listed in the cordage, rope and twine industry in 1948 reported a gross value of production of \$17,995,920. Persons employed numbered 1,470 with salaries and wages paid amounting to \$2,999,745. Materials used had a value at the factory of \$11,575,748, while the value added by manufacture amounted to \$6,253,058.

Ontario is the leading producer of cordage, rope and twine. The six plants located there in 1948 produced 83.8 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 1948 there were produced 66,071,290 pounds, with a value at the factory of \$9,546,513. The output of binder twine represented 53 per cent of the total value of products made during this year. The price structure of binder twine throughout the war years and until the end of 1946 was complicated by subsidies and price changes during this period must, therefore, be used with caution.

The output of rope totalled 11,923,627 pounds, valued at \$4,017,322; twines for sale, 10,666,099 pounds valued at \$3,140,670; yarns for sale, 3,160,489 pounds valued at \$1,018,941; and all other products had a value of \$272,474.

Compared with 1947 the industry reported a decrease of approximately 10 per cent in the physical volume of production during 1948, attributable entirely to the drop of 35 per cent in the production of rope. Slight increases in physical production were registered by binder twine, other twines and yarns made for sale. Table 3 gives detailed statistics of production for 1947 and 1948.

Hard fibres, such as Manilla hemp, Mexican and African sisal, etc. constitute the principal materials used by the industry. The amount used in 1948 was valued at \$9,598,299, or almost 83 per cent of the total cost of materials used.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1948

Table 1. - Principal Statistics, Representative Years, 1921 - 1948.

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 .....	10	(2)	1,678	2,477,765	8,814,693	14,419,946
1946 .....	10	(2)	1,740	2,669,236	8,058,127	13,869,880
1 9 4 7						
CANADA .....	10	(2)	1,607	2,837,339	11,053,378	18,229,405
Ontario .....	6	-	1,293	2,292,678	9,177,366	14,598,024
(1) Other Provinces	4	-	314	544,661	1,876,012	3,631,381
1 9 4 8						
CANADA .....	10	(2)	1,470	2,999,745	11,575,748	17,995,920
Ontario .....	6	-	1,218	2,531,179	9,987,676	15,079,320
(1) Other Provinces	4	-	252	468,566	1,588,072	2,916,600

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

(2) Information not collected since 1943.

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 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, 1948

Table 2. - Comparison of Principal Statistics, 1947 and 1948.

Item		1947	1948	+ Increase - Decrease
Establishments reporting .....	No.	10	10	-
Employees on salaries -				
Total .....	No.	169	164	- 5
Male .....	No.	121	114	- 7
Female .....	No.	48	50	+ 2
Total Salaries .....	\$	523,446	574,215	+ 50,769
Employees on wages -				
Monthly average .....	No.	1,438	1,306	- 132
Male .....	No.	912	846	- 66
Female .....	No.	526	460	- 66
Total Wages .....	\$	2,313,893	2,425,530	+ 111,637
Power equipment -				
Units .....	No.	693	729	+ 36
Horse-power capacity .....	H.P.	9,478	10,271	+ 793
Cost of fuel and electricity .....	\$	176,154	167,114	- 9,040
Cost of materials used .....	\$	11,053,378	11,575,748	+ 522,370
Gross value of production .....	\$	18,229,405	17,995,920	- 233,485
Value added by manufacture .....	\$	6,999,873	6,253,058	- 746,815

Table 3. - Production, 1947 and 1948

Principal Products	Unit of Measure	1947		1948	
		Quantity	Selling Value at Factory	Quantity	Selling Value at Factory
			\$		\$
Binder twine -			(2)		(2)
All sisal .....	lb. }	65,279,450	8,758,981	66,071,290	9,546,513
Chiefly sisal .....	" }				
Twines for sale - Hemp ..	"	(1)	(1)	(1)	(1)
Jute ..	"	4,626,395	1,625,685	3,041,341	1,141,105
Sisal ..	"	5,076,972	1,193,434 <sup>(2)</sup>	7,072,876	1,761,179 <sup>(2)</sup>
All other	"	526,620	242,885	551,882	238,386
Rope -					
Manila .....	"	6,717,452	2,280,402	5,220,442	2,001,715
Sisal .....	"	10,887,358	2,590,623	6,147,595	1,800,901
Cotton .....	"	74,010	53,333	41,858	42,718
Jute .....	"	463,356	145,452	290,511	72,654
Hemp .....	"	61,435	38,252	115,073	69,993
All other .....	"	10,052	7,393	108,148	29,341
Yarns -					
Flax, hemp, jute, etc. .	"	2,638,888	890,605	3,160,489	1,018,941
All other products, unable to specify .....	-	-	402,360	-	272,474
TOTAL PRODUCTION .....	-	-	18,229,405	-	17,995,920

(1) Included in all other twines.

(2) Selling value at factory in this case does not represent sales at a definite level as it includes sales to wholesalers at wholesale prices along with sales to dealer organizations at manufacturer's cost of production. As a guide to selling prices of binder twine, reference may be had to the wholesale prices as published by Prices Statistics Branch of the Bureau of Statistics which for the years 1947 and 1948 were \$14.963 and \$19.784 per cwt., respectively.

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1948

Table 4. - Consumption of Binder Twine in Canada for the Years, 1946 - 1948.

	1 9 4 6		1 9 4 7		1 9 4 8	
	Quantity	Value	Quantity	Value	Quantity	Value
	cwt.	\$	cwt.	\$	cwt.	\$
Production .....	861,386	7,715,357	652,795	8,758,981	660,713	9,546,513
plus						
Imports .....	12	170	5	152	19	515
TOTAL .....	861,398	7,715,527	652,800	8,759,133	660,732	9,547,028
less .....						
Exports .....	369,613	3,910,078	216,688	3,274,331	282,180	4,745,220
AVAILABLE FOR CONSUMPTION .....	491,785	3,805,449	436,112	5,484,802	378,552	4,801,808

Table 5. - Materials Used, 1947 and 1948.

Principal Materials	Unit of Measure	1 9 4 7		1 9 4 8	
		Quantity	Cost Value	Quantity	Cost Value
			at Factory		at Factory
			\$		\$
HARD FIBRES -					
Manila hemp .....	lb.	7,217,979	1,386,835	5,547,999	1,222,532
Java sisal .....	"	26,809	1,975	(1)	(1)
Mexican sisal .....	"	7,521,440	1,096,404	12,241,624	1,987,428
African sisal .....	"	50,359,274	5,934,770	39,305,687	6,156,491
Other hemp and sisal .	"	3,809,081	550,712	1,342,443	231,848
SOFT FIBRES -					
Hemp, hemp tow, flax, flax tow and jute ..	lb.	7,867,570	1,032,696	6,242,853	1,050,757
Twines, cotton and linen	"	90,994	176,090	43,442	93,907
Yarns, purchased -					
Flax, hemp and jute .	"	614,622	169,005	550,648	167,052
Cotton and other ...	"	-	59,245	87,910	62,240
Oils .....	-	-	192,519	-	247,497
Wax .....	-	-	10,050	-	6,737
Degras .....	-	-	13,963	-	6,412
All other materials and supplies .....	-	-	81,213	-	87,898
Packing and shipping materials -					
Burlap .....	-	-	7,803	-	19,425
Other packing and shipping materials .	-	-	340,098	-	235,524
<hr/>					
TOTAL COST OF MATERIALS USED .....	-	-	11,053,378	-	11,575,748

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

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1948

Table 6. - Capital Invested, Representative Years, 1921 - 1943.

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, unpaid 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
<u>1 9 4 2</u>				
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
<u>1 9 4 3</u>				
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 1943

- (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, 1948

Table 7. - Employees by Sex and Remuneration, 1947 and 1948.

		1 9 4 7	1 9 4 8
Salaried Employees -			
Total .....	No.	169	164
Male .....	No.	121	114
Female .....	No.	48	50
Total Salaries .....	\$	523,446	574,215
Wage-earners -			
Monthly average .....	No.	1,438	1,306
Male .....	No.	912	846
Female .....	No.	526	460
Total Wages .....	\$	2,313,893	2,425,530
All Employees -			
Total .....	No.	1,607	1,470
Male .....	No.	1,033	960
Female .....	No.	574	510
Total Salaries and Wages .....	\$	2,837,339	2,999,745

Table 8. - Monthly Employment of Wage-earners, 1946 - 1948.

Months	1 9 4 6			1 9 4 7			1 9 4 8		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
	No.	No.	No.	No.	No.	No.	No.	No.	No.
January .....	942	610	1,552	885	547	1,432	949	521	1,470
February .....	982	614	1,596	751	424	1,175	959	532	1,491
March .....	997	652	1,649	942	528	1,470	947	500	1,447
April .....	1,022	685	1,707	966	553	1,519	901	466	1,367
May .....	1,009	705	1,714	942	546	1,488	861	444	1,305
June .....	1,033	688	1,721	926	551	1,477	879	464	1,343
July .....	1,000	692	1,692	926	533	1,459	894	476	1,370
August .....	908	560	1,468	932	510	1,442	845	478	1,323
September .....	885	559	1,444	927	535	1,462	777	453	1,230
October .....	891	551	1,442	931	531	1,462	713	401	1,114
November .....	894	566	1,460	946	539	1,485	705	385	1,090
December .....	893	547	1,440	872	514	1,386	689	393	1,082
MONTHLY AVERAGE .....	955	620	1,575	912	526	1,438	846	460	1,306



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1948

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 since 1945.

Table 10. - Power Installation, 1947 and 1948.

Classes of Power	1 9 4 7		1 9 4 8	
	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
Gasoline, gas and oil engines, other than Diesel engines .....	-	-	1	100
Electric motors, oper- ated by purchased power -				
In use .....	662	8,605	689	9,132
Idle .....	30	673	38	839
TOTAL POWER USED IN MANUFACTURING .....	693	9,478	729	10,271
Boiler installation -				
In use .....	3	360	3	360

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1948

Table 11. - Consumption of Fuel and Electricity, 1947 and 1948.

Kinds of Fuel	Unit of Measure	1 9 4 7		1 9 4 8	
		Quantity	Cost Value at Factory	Quantity	Cost Value at Factory
			\$		\$
Bituminous Coal .....	(2000 lbs)	6,265	57,482	3,769	40,342
Gasoline (including gasoline used in cars and trucks) ...	Imp. Gal.	7,641	2,577	7,157	2,101
Kerosene or coal oil .	"	498	97	497	112
Fuel Oil .....	"	6,513	802	6,808	1,182
Other fuel .....	-	-	-	-	15,566
TOTAL COST OF FUEL ..	-	-	60,958	-	59,303
Electricity purchased (including service charges) .....	Kw. H.	13,369,211	115,196	12,064,650	107,811
TOTAL COST OF FUEL AND ELECTRICITY ...	-	-	176,154	-	167,114

Table 12. - Mechanical Equipment, 1947 and 1948.

	1 9 4 7	1 9 4 8
	No.	No.
Spindles which consumed fibre during the year	4,617	4,667
Spindles which consumed no fibre during the year .....	-	-
Twisting and doubling spindles .....	664	741
Looms .....	7	10
Braiding machines .....	188	192
Rope machines .....	132	138
Winding machines .....	336	382

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1948

Table 13. - Imports of Materials Used and Products Made by the Cordage, Rope and Twine Industry, 1947 and 1948.

Articles Imported	Unit of Measure	1 9 4 7		1 9 4 8	
		Quantity	Value \$	Quantity	Value \$
Fibrilla, flax fibre and flax tow .....	Cwt.	9,953	233,806	10,005	194,398
Manila fibre .....	"	105,083	1,992,087	61,560	1,394,804
Vegetable fibres, n.o.p. .	"	38,491	234,604	30,974	212,790
Sisal, istle and tampico fibre ....	"	831,934	9,913,337	730,831	11,043,092
Jute and jute butts ....	"	62,146	1,005,458	55,488	1,010,969
Okum of flax, hemp or jute .....	"	17,856	245,027	23,654	324,483
Coir and coir yarn ....	"	13,930	158,575	7,608	111,337
Yarns, vegetable fibres, singles, n.o.p. ....	Lbs.	27,593	31,849	21,848	14,327
Yarns, cords and twines, vegetable fibres, plied n.o.p. ....	"	920,286	258,631	426,201	173,168
Yarns, cords and twines, jute, plied, n.o.p. ..	"	412,311	95,349	196,311	57,761
Yarns, jute, singles, n.o.p. ....	"	104,287	17,869	231,744	56,049
Cords and twine, cotton, n.o.p. ....	"	671,680	548,698	490,962	436,159
Thread, twines, marlines, fishing lines of vege- table fibre for com- mercial fishing purposes or for the construction or repair of fishing nets .....	"	1,025,287	922,841	468,882	466,482
Cordage, manila, sisal and New Zealand fibre, exceeding one inch in circumference .....	"	844,397	175,039	779,306	212,404

THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1948

Table 13. - Imports of Materials Used and Products Made by the Cordage, Rope and Twine Industry, 1947 and 1948 (Concl.)

Articles Imported	Unit of Measure	1 9 4 7		1 9 4 8	
		Quantity	Value	Quantity	Value
			\$		\$
Cordage exceeding one inch in circumference, wholly of vegetable fibre, n.o.p. ..	Lbs.	885,859	181,314	521,042	147,837
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 .....	"	1,303,731	283,402	978,527	267,727
Binder twine .....	Cwt.	5	152	19	515
Fish nets and nettings ....	-	-	1,264,148	-	1,769,353
Jute manufactures, n.o.p. .	-	-	33,302	-	26,996
Vegetable fibre manufactures, n.o.p. ....	Lbs.	1,765,488	1,700,610	534,701	736,065

Table 14. - Exports of Cordage, Rope and Twine, etc., 1947 and 1948.

Articles Exported	Unit of Measure	1 9 4 7		1 9 4 8	
		Quantity	Value	Quantity	Value
			\$		\$
Fibre and tow of flax or hemp .....	Cwt.	28,111	576,569	25,152	484,438
Binder twine .....	"	216,688	3,274,331	282,180	4,745,220
Rope .....	"	7,849	195,913	2,451	57,596
Cordage and twine, n.o.p. .	"	9,730	617,781	24,303	1,077,116



THE CORDAGE, ROPE AND TWINE INDUSTRY IN CANADA, 1948

A P P E N D I X

Cordage, Rope and Twine Manufacturers Operating in Canada in 1948.

<u>Name of Firm</u>	<u>Location</u>	<u>Products Made</u>
<u>NOVA SCOTIA</u>		
Consumers' Cordage Co., Ltd. (H.O. Rm. 701 Transportation Bldg., Montreal, Quebec)	Wyse Road, Dartmouth	Twines, ropes
<u>QUEBEC</u>		
Bolduc, The C.N., Manufacturing Co. Consumers' Cordage Co., Ltd.	12 College St., Lennoxville 2143 St. Patrick St., Montreal	Rope Twines, rope
<u>ONTARIO</u>		
Brantford Cordage Co., Ltd., The	111 Brant St., Brantford	Binder twine, twines
Brooks Limited, John S. Derrett Cordage Co.	722 Broad St., E., Dunnville 6 Bartlett Avenue, Toronto	Fish netting Twines, rope, etc.
Doon Twines Ltd.	50 Ottawa St. S., Kitchener	Yarns, twines, rope
International Harvester Co. of Canada Ltd.	208 Hillyard Street, Hamilton	Binder twine, twines
Plymouth Cordage Co.	229 Plymouth Road, Welland	Binder twine, twines, rope, etc.
<u>BRITISH COLUMBIA</u>		
Canada Western Cordage Co., Ltd. (H.O. 20 Water St., Vancouver)	Braid St., New Westminster	Twines, rope

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